Future Identities

Changing identities in the UK: the next 10 years
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Foreword

This Report provides an important opportunity for the Government to consider how identities in the UK are changing and the possible implications for policy making over the next 10 years. For the first time, it brings together many areas of research into a single coherent narrative to analyse how drivers of change may affect identities in the UK in the future.

The findings are based on the most recent evidence from a wide range of authoritative sources. Over 100 academics and stakeholders have contributed to the development of this Report and the analysis is supported by 20 published evidence papers. I am particularly grateful to the lead expert group, chaired by Professor Chris Hankin, which has overseen the work.

Foresight has undertaken this research in response to growing evidence that the UK has undergone significant changes which affect how people see themselves and others. The economic downturn, the effects of globalisation, and increasing international migration have all been influential, while the impact of social media and modern communications technology have created a new ‘digital’ UK. In particular, the Report discusses an emerging trend towards ‘hyper-connectivity’, where mobile technology and the ubiquity of the internet enable people to be constantly connected across many different platforms. Hyper-connectivity is already removing any meaningful distinction between online and offline identities, while also blurring ‘public’ and ‘private’ identities. The trend could also act to increase the pace of change, leading to more dynamic and changeable identities and behaviours.

This Report shows that ‘identity’ is not a simple notion. People can have many different overlapping identities which are fundamental to their individuality. Identities can exercise a powerful influence on the health and wellbeing of communities, and the degree to which they can build up social capital. There are important implications for a range of policy issues, such as the collection and use of data by government and the private sector, how individual rights and liberties can be balanced against privacy and security, and how inclusive identities can best be promoted.

I am pleased to publish this Report, which I hope will contribute to the debate surrounding the complex field of identity, as well as providing practical advice to inform decision making in government.

Professor Sir John Beddington CMG, FRS
Chief Scientific Adviser to HM Government and
Head of the Government Office for Science
Executive Summary

Identity in the UK is changing. Over the next 10 years, people’s identities are likely to be significantly affected by several important drivers of change, in particular the rapid pace of developments in technology. The emergence of hyper-connectivity (where people can now be constantly connected online), the spread of social media, and the increase in online personal information, are key factors which will interact to influence identities. These developments need to be set within a wider context of demographic change: the shift of the large post-war generation into retirement, and the coming into adulthood of young people who have been immersed since birth in a digital environment. The increasing diversity of the UK’s population means that dual ethnic and national identities will continue to become more common, while the gradual trend towards a more secular society appears likely to continue over the next decade. A key message for policy makers is that identities can be a positive resource for social change, building social capital, and promoting wellbeing, but they can also have a role in social unrest and antisocial behaviour.

This Report was commissioned to provide policy makers with a better understanding of identities in the UK. It considers the most recent evidence on how identities in the UK might change over the next 10 years. It identifies key challenges for effective policy making and implementation in a rapidly changing, globalised, technology-rich, and densely networked UK. Specifically, the Report focuses on implications for: crime prevention and criminal justice; health, the environment and wellbeing; skills, employment and education; preventing radicalisation and extremism; social mobility; and social integration. The findings link into the Government’s wider interests in openness and transparency in policy making.

Key findings

Rather than having a single identity, people have several overlapping identities, which shift in emphasis in different life stages and environments. These are changing in three important ways:

- Hyper-connectivity:
  Hyper-connectivity is driving social change and expectations, while bringing people together in new ways. By 2011 there were more than seven billion devices connected to the internet, and numbers are predicted to reach 15 billion by 2015. Sixty per cent of internet users in the UK are now members of a social network site, increasing from only 17% in 2007. By offering virtually unlimited storage capacity, the internet allows people to document any aspect of their lives, creating a wealth of personal data which can be ‘mined’ for insights, by private sector companies and potentially by government. This means that people’s online identities have value in a way that is new.

  The UK is now a virtual environment as well as a real place, and increasingly UK citizens are globally networked individuals. Events which occur elsewhere in the world can have a real and immediate impact in the UK. For example, hyper-connectivity can have a positive impact on migrant communities in maintaining social connections with family and friends. People have become accustomed to switching seamlessly between the internet and the physical world, and use social media to conduct their lives in a way which dissolves the divide between online and offline identities. The internet enables people to connect with others like themselves and discuss ideas as well as promulgate misinformation, which can quickly become widely disseminated. Hyper-connectivity not only has the potential to increase the pace of social change, but may also make it more volatile. As such, the internet has not produced a new kind of identity. Rather, it has been instrumental in raising awareness that identities are more multiple, culturally contingent and contextual than had previously been understood.
• **Increasing social plurality:**

Society may become more pluralised, and less integrated, as people’s identities are influenced by the ageing population, greater diversity and changing patterns of immigration, and the emergence of online ‘virtual’ communities.

Demographic change in the UK is leading to shifting intergenerational dynamics. As the large post-war cohort reach old-age, the number of over-75 year olds will increase by over a million, from 5.1 million in 2012 to 6.6 million in 2022, a rise of more than 20%. The Report identifies a shift in attitudes, with the emergence of new transitional life stages being defined by attitudes and roles, rather than age. Traditional life stages, for example between adolescence and adulthood, or middle-age and old-age, are being delayed or blurred together. Shifting intergenerational dynamics will also see a relatively smaller working population. Younger people are likely to find achieving the experiences of adulthood more challenging than previous generations. In 2011, nearly three million adults aged between 20 and 34 were still living in their parents’ home, an increase of almost 20% since 1997. People’s identities are likely to be under greater pressure in their family and caring roles, as the number of people providing care to older parents is projected to increase from nearly 400,000 in 2005 to about 500,000 in 2041, with most of this increase occurring by 2022. However, these social changes could also encourage the growth of virtual support networks and communities.

The 2011 Census for England and Wales showed that in 2011, 13% of people resident in England and Wales were born outside the UK. The share of the population from minority ethnic groups is projected to continue to rise over the next decade, and to become more geographically dispersed. This could have implications for ethnic and national identities, as there is evidence from surveys that younger people in particular have a more tolerant attitude towards immigrants.

Other identities, such as religious identity, seem unlikely to change significantly over the next 10 years. The gradual long-term trend towards secularisation is set to continue. The 2011 Census shows that the number of people identifying themselves as having ‘no religion’ rose from 15% of the population in 2001 to 25% in 2011, while the number of people identifying themselves as Christian dropped from 72% in 2001 to 59% in 2011. However, this trend is less pronounced in Northern Ireland, and among the Muslim and the Roman Catholic populations in the rest of the UK. For national identities, growing numbers of people now think of themselves as Scottish, Welsh, or English, rather than British.

• **Blurring of public and private identities:**

People are now more willing to place personal information into public domains, such as on the internet, and attitudes towards privacy are changing, especially among younger people. These changes are blurring the boundaries between social and work identities. The advent of widespread mobile technology and email enables more people to remain connected to their work out of hours. At the same time, posting mobile phone photographs and videos online has led to a cultural shift where many people broadcast their daily lives and experiences, ceding control over some aspects of identity to others with potentially serious consequences for later life. For example, a potential employer might find information online which could make a potential candidate unsuitable. This breakdown in the barrier between public and private identities could be an important and transformative consequence of social and technological change. The widespread use of mobile technology could, in time, allow social media to be linked with spatial tracking and even facial recognition technologies. This would allow people to draw on personal information about a stranger in a public place, changing the nature of what it means to be anonymous in public spaces.
What does identity mean today?

- **Identities are controlled both by individuals and by others:**
  An individual’s ‘identity’ is the sum of those characteristics which determine who a person is. This includes a person’s perception of themselves as similar to, or different from, other people. People can choose to present certain aspects of their identities, or to disclose particular personal information. Identities can also be imposed by others. As many people now have some online presence, their ‘virtual biographies’ can be modified or even created by other people and, for example, by companies. Even if a person does not create their own online accounts, their families and friends may discuss them or post photographs online.

- **People have many overlapping identities:**
  This Report considers several aspects of identities including ethnic, religious, national, age, family, financial, and online identities. A person can have all these identities simultaneously, although one identity might be more important under particular circumstances. At home a person may find their identity as a parent most important, while at work they might identify as a company employee. Online, they may pursue a hobby as part of an interest group. Understanding which of a person’s identities are most relevant in a given situation depends on the context. Identities are, therefore, culturally contingent and highly contextual, but can also be strongly linked to behaviours, both positive (for example volunteering in a community) and negative (such as antisocial behaviour).

- **People express their identities in different ways:**
  Whether a person is included or excluded from a group is important in forming their identity. People’s identities are partly created by group membership, but also they may choose to adopt an identity which is different from the way in which others stereotype them. A person’s identity is central to their values and fundamentally affects health and wellbeing, so freedom of self-expression is important. One of the most significant observations of the impact of online identities is the way that some people can feel that they have achieved their ‘true’ identity for first time online. For example, some people may socialise more successfully and express themselves more freely online. This is one of the ways in which online identities can transform offline identities.

- **Identities have value:**
  People’s identities have personal, psychological, social, and commercial value. The growth in the collection and use of personal data can have benefits for individuals, organisations and government, by offering greater insights through data analysis, and the development of more targeted and more effective services. Identities can unify people and can be regarded as a valuable resource for promoting positive social interaction. However, this growth in the amount of available data also has the potential for criminal exploitation or misuse. Trust is fundamental to achieving positive relationships between people and commercial organisations, and between citizens and the state, but surveys show that people are less willing to trust in authority than in the past. The British Social Attitudes Survey asked people ‘How much do you trust British governments of any party to place the needs of the nation above the interests of their own political party?’. The results showed that the percentage of people who responded ‘Almost never’ increased from 11.8% in 1986 to 33.5% in 2011. Maintaining a balance between privacy, freedom and protection, and regaining trust will remain a key challenge for government in making best use of ‘big data’.
About the Report

This Report is the result of a one-year ‘Policy Futures’ project undertaken by Foresight, in the Government Office for Science. The aim of the Project was to come to a broad and independent scientific view of changing identities in the UK through a synthesis of existing evidence from a range of academic disciplines, including computer science, criminology, the social sciences and the humanities. The Report is based on 20 evidence reviews, commissioned from leading UK and international experts, which explore key aspects of how identities in the UK are currently understood, and how they might change over the next 10 years. These are published alongside this Report. As identity is such a wide-ranging subject, the Report focuses on those trends and issues affecting identities that are of most interest to UK policy makers.

Implications for policy makers in six key areas:

• Crime prevention and criminal justice:
  There is a distinction to be made between a traditional type of crime which is now committed using a computer, and a crime wholly enabled by the internet. The growing quantity of personal and financial data online, as facial recognition technology, ‘big data’ and social media together begin to connect information about individuals, means that there will be more opportunities for criminal exploitation and cybercrime. Creating a false identity or stealing another person’s identity is often achieved through obtaining key personal information, so the distinction between a person’s ‘identity’ (in terms of their overall sense of self) and the identification used to distinguish between people online is being increasingly blurred in practice. Ultimately, stealing sufficient information could enable a criminal to effectively take over victims’ online identities. However, there are also opportunities for enhanced crime prevention, intelligence gathering, and crime detection. ‘Open source’ intelligence will become more important for detecting patterns of criminal behaviour, but the quantity of data available will make locating and analysing relevant data more problematic, and will require the right skills and resources. The foundation of English law is a liberal society where social identity is, as far as possible, a personally defined and freely chosen individual possession, and so the legal system will need to continue to ensure that people’s online and offline identities are protected.

• Health, environment and wellbeing:
  The environment is very important in forming and understanding identities. For example, many places can be restorative, and so policies which promote green spaces and protect the countryside can be important for health and wellbeing. The implications of changing identities for the built environment, transport, infrastructure, and mitigating the effects of climate change will need to be considered by policy makers. The development and application of biomedical technologies, such as drugs to improve memory and cognition, and developments in reproductive technologies, could have the potential to transform the way that people relate to themselves, each other, and their environment. However, there are complex ethical and practical implications for government in regulating and responding to these technologies.

• Skills, employment and education:
  Digital literacy is essential in enabling people to make full use of computer technology and the internet to express their identities, and to connect with social media, services, and information. A critical issue for the future will be to ensure that individuals have the knowledge, understanding, and technological literacy to enable them to take control of their own online identities, and to be aware of their online presence and how it could be used by others.

• Radicalisation and extremism:
  The trends towards greater social plurality, declining trust in authority, and increasing take-up of new technologies may all pose challenges for policy makers seeking to manage radicalisation and extremism. Trends in changing identities in the UK over the next 10 years will be crucial to understanding these issues.
• **Social mobility:**
The findings of the Report indicate that understanding and improving social mobility will become even more complex in the future. Some of the trends suggest that there will be more divergence between groups. Perceptions of unfairness in access to opportunities, rather than actual inequality, may in turn reinforce certain kinds of social identities and increase the potential for collective action. However, as access to the internet and hyper-connectivity increase, information and education may become more freely available and shared, enhancing life opportunities for many individuals.

• **Social integration:**
Greater social plurality, demographic trends, and the gradual reduction in importance of some traditional aspects of identity, suggest that communities in the UK are likely to become less cohesive over the next 10 years. However, hyper-connectivity can also create or strengthen new group identities. Policy makers will need to consider indirect as well as direct implications of policy for communities and people's sense of belonging. It is important to recognise that policies can interact with identities in complex and unpredictable ways. Awareness of this should be built into plans for monitoring policy implementation and responding to outcomes. There are also opportunities for policy to support social integration and acknowledge new forms of community as they develop.

**Conclusion**

Over the next decade, identities in the UK are likely to undergo important changes, and will be increasingly dynamic or volatile. Simple categorisations based on traditional notions of identities are likely to become less meaningful. This will affect society and influence the way that people live their lives. In future, the UK needs to be considered as much a part of the virtual world as a real place. Increasingly, its citizens will be globally networked, hyper-connected individuals, and this has substantial implications for what is meant by communities and by social integration.

The increasing speed and connectivity of information technology systems offers opportunities for monitoring what is happening in real time, and assessing the effectiveness of specific policies. For policy makers, understanding the changing nature of identity in the UK will be increasingly important for effective policy making and implementation. Failure to do so may lead to missed opportunities to, for example, strengthen social integration, reduce exclusion, enhance open policy making, and make effective use of identities as a resource. Government would also benefit from drawing upon a deeper scientific understanding of people's evolving identities when developing, implementing and testing policies, for example in initiatives such as 'Test, Learn, Adapt'. Policy making across many different areas will need to be more iterative, adaptive, nuanced and agile, taking into consideration the multifaceted nature of people's identities and how policies might affect different groups, or individuals, at different times and places.
This Foresight Report provides an evidence base for decision makers in government to understand better how people’s identities in the UK might change over the next 10 years. The impact of new technologies and increasing uptake of online social media, the effects of globalisation, environmental disruption, the consequences of the economic downturn, and growing social and cultural diversity are all important drivers of change for identities. However, there is a gap in understanding how identities might change in the future, and how policy makers might respond to such change.

1.1 Aim

The aim of this Foresight Report is to consider how changes over the next 10 years will affect identities in the UK. The Report takes a broad and independent view of the current evidence for the drivers of change affecting identity in the UK over the next decade, bringing together for the first time current evidence and pointing out some of the main implications for policy makers. To ensure the Report is robust and relevant, the research was overseen by a group of senior academic experts who formed the Lead Expert Group, and reviewed by a group of policy officials from across relevant Government departments. The Report is based on a set of 20 driver reviews which were commissioned to explore different aspects of changing identities.

This Report takes as its starting point the current findings of research in social sciences, which understand identity not as a singular, fixed or innate state of being, but conceptualises individuals as having multiple, dynamic, overlapping identities. These can be broadly grouped as ‘social’ identities, ‘biographical’ identities, and ‘biometric’ identities. Social identities refer to where individuals define themselves in relation to others, either as part of a group or in contrast to others. Biographical identities concern attributes such as names, age, and gender. There are also unique characteristics such as DNA and fingerprints which form biometric identities, which were beyond the scope of the project. This Report is mainly focused on how a person’s social and biographical identities might change over the next 10 years, how behaviour might alter as a result, and what the implications for policy makers are likely to be.

1.2 Who is the Report for?

Identities are a very broad topic and of interest to many different parts of government as well as other organisations. This Report is aimed at UK Government decision makers, and has diverse implications for many policy areas. Because identities encompass such a broad area, only those aspects of most relevance for policy makers have been considered.

People’s identities are an important subject which has been addressed in a wide range of academic research, but there has been limited analysis of how identities might change in the future. The current evidence suggests that several key drivers of change are already affecting identities and will continue to do so in the future. Identities are also a factor in driving change itself, because identities affect behaviour. For example, people may choose to live in a particular area or buy a particular product because it fits with their perception of themselves and

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i The driver reviews are listed in the bibliography and are freely available to download at http://www.bis.gov.uk/foresight
their identities. Identities can create feedback loops which can reinforce or disrupt a trend. They are therefore fundamental to how people understand themselves and their place in the world, how they relate to others, and how they behave in consequence. This makes them important for policy makers in developing and delivering policy.

This Report aims to help policy makers gain a better understanding of the complex relationships between policies, individuals, and their identities, which interact in sometimes unexpected ways. There are several insights that can be drawn out for policy makers in particular policy areas. There are also broader implications about the nature of policy making, and the need for a sensitive and nuanced approach which takes into account identities, and benefit from an understanding of how policy might affect different groups, and how they in turn might respond.

1.3 How the Report is organised

Chapter 1 introduces the Report. The chapter explains the rationale for undertaking this project, the aim, and the intended audience.

Chapter 2 defines the concept of identity used in this Report. ‘Identity’ has been widely discussed in many academic disciplines and defined in a number of different ways: this section briefly explains the background to academic research into identity and makes clear how ‘identities’ are understood and used in this Report. Chapter 2 goes on to explain why it is important for policy makers to consider identities.

Chapter 3 forms the main body of the Report. It brings together the current evidence relating to how identities are formed and changed, and analyses the main drivers of change which might affect identities over the next 10 years. It is divided into five thematic sections: social, technological, economic, environmental, and political categories.

- **Social** drivers of change which are considered relevant to identities include demographic changes, such as an ageing population, shifting intergenerational roles and responsibilities, and young people who have been brought up in a digital environment. The section goes on to discuss patterns of religion in the UK and the gradual trend towards increasing secularisation, increasing cultural and ethnic diversity, and the emergence of ‘hyper-connectivity’ as a social phenomenon, where the spread of mobile computing technology has enabled people to be always connected to the internet.

- **Technological** drivers include the development of online identities as the internet matures, the expansion of social media into the daily lives and relationships of many people, and the potential for ‘big data’ as more personal information is held online and can be mined for insights by private sector organisations and governments. The potential for issues over the ownership of personal information, and for cybercrime such as identity theft, is discussed. The section goes on to discuss biomedical technologies and their implications for identities.

- **Economic** drivers for identity changes are discussed with reference to the impact on identities from the economic downturn combined with the consumer identities created by modern culture.

- **Environmental** factors for identities include place attachment and the threats posed to identities by changes which threaten valued places, and the role of the built environment in creating identities influencing where and how people live. The section goes on to consider environmental change and risks, such as flooding, and the potential impacts on community and individual identities.

- **Political** trends considered in this section include the long-term trend of declining trust in authority in the UK, including trust in government, and national identities focusing on ‘Britishness’ as a component of people’s identities.
Chapter 4 discusses some particularly important challenges and opportunities relating to a range of policy areas. It draws out three main themes for future changes to identities, based on the evidence set out in the previous chapter, and goes on to explore these themes for six key areas of government policy: social mobility; social integration; radicalisation and extremism; health, environment and wellbeing; skills, employment and education; and crime and criminal justice.

**Box 1.1: Scenarios**

Scenarios developed for this Project explore how identities might change over the next 10 years. They were created by identifying a series of potential events and trends which might plausibly occur over the next decade in the UK. Two characters, ‘Esther’ and ‘Dylan’, were then created and used to populate a storyline for the Report. Their lives and characters were developed to imagine how the events and trends might affect them. The storylines for Esther and Dylan are set out in boxes throughout Chapter 3.

The scenarios provided useful insights to interpret the drivers of change, and to show how these drivers of change may affect individuals’ daily lives. They are used, for example in Section 2.1, to illustrate how different identities become more salient according to the particular context, and in Chapter 3 the scenarios draw out key points of the analysis. The characters show how these drivers can impact very differently on individuals in their everyday lives: an important consideration for policy makers.
2. What is identity and why does it matter?

2.1 Definition of an individual’s identity

An individual’s ‘identity’ can be defined as those characteristics which determine who a person is: this includes an individual’s perception of themself as similar to, or different from, other people, but identities can also be imposed by others. Dictionary definitions of ‘identity’ owe much to a more simplistic notion of ‘identity’ made popular during the 1950s by the developmental psychologist Erik Erikson through his work on psychosocial stages of development and his coining of the term ‘identity crisis’. His concept of ‘ego identity’ as a term in psychology suggested that identity is shaped by the interaction of three elements: a person’s biological characteristics, their psychology, and the cultural context. He emphasised the sameness and consistency of identity over time, so that in different times and places, a person continues to have an innate sense of being the same person, although their circumstances may change and cause a shift in their sense of self-identity.

Since then, however, identity has become a key concept in a wide range of academic disciplines including political science, the social sciences, and the humanities, and definitions of identity have expanded accordingly. There is, therefore, no single agreed-upon definition. It is worth noting the historical and culturally-specific nature of much academic research into identity, as a concern of Western, urbanised, technologically-advanced, societies, which some see as a symptom of social complexity and uncertainty. Others have explored identity from a socio-cultural perspective, as individual narratives to bring diverse elements into an integrated whole, or focused on the transition from adolescence to adulthood as a time of ‘finding’ an identity.

These different interpretations have shown that identities are socially constructed and highly complex. Many different types of identity are now discussed, such as cultural identity, organisational identity, and national identity (at the level of the nation-state). Even for an individual, there are multiple possible identities, which overlap, and can change over time or in different circumstances. People therefore each have an identity which is the sum of many different aspects about themselves, and together these give them a fundamental sense of meaning in their lives.

This Report does not attempt to be comprehensive in covering all aspects of people’s identities, but shows that identities can be best understood as complex, multifaceted, and highly contextual. The Report therefore refers to a person’s ‘identities’ rather than ‘identity’ in the following terms:

- Identities refer to the way in which individuals perceive themselves and their place in the world, and how they are categorised by others. People have coexisting, multifaceted, overlapping identities, which alter in emphasis depending upon the context. At home a person might find their identity as a parent most important, while at work they might identify as a company employee, and online pursue a hobby as part of an interest group. Some identities can change over the life course of an individual.

- Identities can be elective or chosen by an individual, such as by self-categorised membership of a social group, or ascribed and controlled by others, for example through data held on a person by a supermarket.

- Identities can be inclusive, such as membership of a family, team, religion or other group, or exclusive, defined by not being a member of a particular group. Again, these identities can be controlled by the individual or by others, for instance through rejection from a group.
Three overlapping types of identities can be broadly distinguished: social, biographical, and biometric (see Figure 2.1):

- **Social identities** are generated through roles and relationships between people, and the wider social and cultural context. These include identities which are socially mediated, such as family relationships, friendships, membership of communities, and attachment to particular places.

- **Biographical identities** are more ‘standalone’ identities which individuals might use to describe themselves to another or how they perceive themselves. These might include national identity, as well as ethnicity and religion – although these also have a strong social role. Identities such as a professional role or financial status might also be considered biographical identities.

- **Biometric identities** are those aspects of identity related to the body, including unique characteristics such as DNA, fingerprints, irises and faces, which can be used as a means of authentication to verify that people are who they say they are. Biometric identities are beyond the scope of this Report (and so are marked by a dotted line in Figure 2.1).

![Figure 2.1: Types of identities: social, biographical and biometric identities and some examples of each type.](PHOTO REDACTED DUE TO THIRD PARTY RIGHTS OR OTHER LEGAL ISSUES)

An individual therefore has a coherent sense of self which is constructed from many components, and these could be considered as different ‘identities’. Some aspects of an individual’s identity are less likely to change (gender, disability, or sexuality): these have been excluded from this work, as drivers of change will have little impact upon them. Ethnic identity, while unlikely to change significantly for an individual over their life, is an important element of how people define themselves and others, and at the wider community level, ethnic identities can be affected by drivers of change, so ethnicity is one of the identities discussed in this Report.

Some types of identities change only very gradually over a lifespan (for example, age), while others have the potential to change over time, or may remain fairly stable (such as national or religious identity, or attachment to places such as where people live or work). For these identities any future changes are likely to be slow, particularly over the 10 year time period considered in this Report. However, other elements which form social identities can be more changeable, overlapping, or even volatile, for example, when people belong to different communities (including online communities) or friendship groups. Some stages of life carry shifting family roles
2. What is identity and why does it matter?

and responsibilities which give rise to distinct identities (for example, being a child, being in a relationship, becoming a parent or grandparent), while professional and financial identities can change as jobs, status, careers and experiences alter. People can also have identities related to hobbies, leisure and consumption, which for some people can change rapidly, while others maintain their ‘hobbies’ as a core part of themselves over a long period of time.

It is clear, therefore, that the context is important in understanding which identities are more relevant at any one time or place. People are affected by contexts in different ways. Figure 2.2 illustrates this idea for two hypothetical ‘personas’, named ‘Esther’ and ‘Dylan’, which are characters developed for the scenarios in this Report (introduced in Chapter 1 and discussed in this chapter and Chapter 3). The figure shows for each persona a number of different aspects of their identities, as described above, and plots for illustrative purposes how their identities shift in importance according to changing circumstances. In Figure 2.2, Esther’s religion and ethnicity are not important parts of who she is in the four contexts shown, while she finds her community and friendship group and hobbies are very important aspects of her identity when she uses social media online. Dylan finds his ethnic identity as a Welshman is important to him when at work, and has a stronger religious identity at home compared with Esther.

2.2 Why do identities matter to policy makers?

There are several reasons why identities are important for policy makers in government.

- **Identities are integral to mental health and wellbeing** as they determine to a great extent how a person understands their place in the world, and how they relate to others. Maintaining and expressing multiple identities freely is important for individual wellbeing and social integration. For an individual, their various identities are fundamental to selfhood and are deeply rooted in their psychology.

- **Identities influence people’s behaviour**, but are not necessarily predictive of behaviour, especially at the level of the individual. While identities can provide a guide to likely behaviours (for example, a worker would be expected to travel to their place of work), it is important to understand which identities could come to the fore at any particular time and disrupt behavioural patterns (for example, the worker might instead stay at home to care for their sick child). As there are many potential variables which can affect the situation, it is problematic to extrapolate in simple terms from an ‘identity’ to ‘behaviour’.

- **Identities are highly valued** by individuals as a fundamental part of themselves. A person’s identities can have personal, psychological, social, and also commercial value. Identities are also valued by social groups, businesses, corporations, and nation states, for example through names, national insurance numbers, passports, online passwords and signatures, which are the basis for how people operate in the modern world. For corporations, identities are crucial to their brand; while national identities are important for states. The commercial value of identities is, of course, of interest to the private sector; and also to criminals interested in exploiting identities. For government, identities are a resource that can be drawn upon to deliver better services, and used as an analytical framework for understanding policy implications.

- **Identities can be a resource for social change** mediated through networks of social relationships, membership of groups, shared aspirations and ideologies. Identities as part of groups and communities contribute to building social capital, and so these identities can sometimes be mobilised to influence social or behavioural change. This can be a positive force for social good, exemplified by the solidarity seen in the London 2012 Olympics and Paralympics, or a destructive force, for example the 2011 riots in parts of the UK. Due to the development and spread of new technologies, mobile smart-phones, social networking, and the trend towards hyper-connectivity, disparate groups can be more easily mobilised where their interests temporarily coincide; for example, a ‘flash mob’ can be quickly mobilised between people who have not previously met.

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ii A ‘flash mob’ is the term used to describe a recent phenomenon where a group of people assemble in a public place, sometimes to perform an action, and then quickly disperse, and is often organised through telecommunications, social media or email.
Figure 2.2: This diagram shows how, for two hypothetical people, the various elements which make up their identities can shift in emphasis.

As a particular aspect of identity becomes more important, the line moves outwards, while less important identities are nearer the centre. Four different contexts are shown for each person, exploring how identities alter in emphasis according to the context. The plots are based on information generated from the scenarios for two personas, Esther and Dylan, which are used to explore some of the key drivers of change in Chapter 3.

Source: Foresight.
• **Identities are often focused on local and personal issues**, as people’s sense of self and daily activities can be more affected by local events, community, family, friends and personal experiences than by major events or sociocultural trends. However, the very local can now be closely linked to global events, due to the well-documented impact of globalisation and the ease of modern, global communications. The UK is now connected to events around the world with high-speed communication networks, and so social integration in local areas can be affected by events in another country; the new ‘glocalism’²⁵. However, the same trends can act to increase social capital²⁶, bringing together communities around new hubs of interest.

Understanding how drivers of change might affect social and biographical identities over the next decade is important for government. For example, the value of identities should be an important consideration when designing policy initiatives that seek to amalgamate and use data sets, or provide new online digital services, where the balance between privacy and security is being carefully considered.

This Report sets out the changing trends which could affect identities in the UK over the next 10 years and draws out some of the implications for policy of changing identities. Trends which could affect identities, such as new technology, and hyper-connectivity, where individuals are constantly connected to the internet, are highly complex and can be difficult to predict. In the past, people have failed to predict the ubiquity of computing, of text messaging, and of mobile phone technology²⁰. Several important changes can already be anticipated, such as the increased use of social media and mobile computing technology, but it is difficult to predict with any degree of certainty how these changes may develop over the next 10 years. Managing uncertainty amid the accelerating pace of technological change will be a critical issue for government over the next decade and beyond.
This chapter explores many of the drivers of change that have the potential to affect people’s identities in the UK over the next decade. New technologies including social media, the generation of ‘big data’, and a constantly networked population, are considered to be among the main drivers of change over the next decade; while religious and national identities are likely to remain stable, or change more slowly. Demographic trends will bring about gradual change in some identities as attitudes to age shift, while wider economic trends and the impact of the economic downturn may particularly affect some socio-economic groups.

There are many key drivers of change affecting identities in the UK, such as demographic change, the impacts of new and emerging technologies, the current economic downturn, and changes to the environment. Some are developing rapidly, such as the impact of social media and mobile computing technology that enables people to be always connected to the internet wherever they are. The increasingly dense networks of information and rapid pace of development in communications technology will continue to transform the ways in which people interact, both locally and globally. Other drivers of change may act more slowly. Over the next decade these various trends will influence how people perceive themselves and others (their social identities), the groups they form or join, and their national and political identities (their biographical identities).

People’s identities can both be affected by change, and drive future developments. For example, identities can be manipulated for marketing purposes to promote a product as a ‘lifestyle’ accessory or the latest must-have technology for young people. Identities can also be a factor in bringing about new developments, as people are not passive consumers, but are able to make choices. For example, an ageing population could drive demand for advances in medicine and new consumer products. Therefore, in considering drivers of change and how they might affect identities over the next 10 years, it is important to recognise the role of identities in co-creating some of these changes, and also the uncertainties inherent in any futures-orientated analysis. This chapter analyses the likely trends of different drivers and their possible impacts on people’s identities in the UK over the next decade. It should be noted that the future trends described here are not intended to be predictive but to explore plausible future trajectories.

These drivers are grouped into five broad categories: social, technological, economic, environmental, and political.

3.1 Social drivers

3.1.1 An ageing population

Demographic trends and an ageing society are important social drivers of change. The effects of demographic changes are affecting not only social and economic policies in the UK, but also people’s identities, attitudes and behaviours. This section explores some of the main demographic trends affecting UK society and considers how they might influence people’s identities over the next decade.

The Office for National Statistics models the major trends for the UK’s population over the next 75 years using assumptions about future levels of fertility, mortality, and migration based on the previous five years. These projections do not take into account the impact that new or future government policies, changing economic
circumstances or other factors might have on future demographic behaviour\textsuperscript{31}, but provide a useful assessment of how the population of the UK will change. Predictions show a gradual increase in the size of the population of the UK by 4.8 million people over the next decade from an estimated 63.2 million in 2012 to 68.1 million in 2022\textsuperscript{32}. It is expected that this trend will continue with a predicted population of 73.2 million by mid-2035 (Figure 3.1). It is estimated that some 68\% of projected population growth in the period to 2035 will be attributable, directly or indirectly, to net migration\textsuperscript{33}. Because demographic changes are so gradual, Figure 3.1 shows the data projected out to 2035 in order to clearly demonstrate the long-term trends.

Figure 3.1: Estimated and projected age structure of the UK population, mid-2010 and mid-2035.

\begin{table}[h]
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\begin{tabular}{l l}
\hline
Age & Population (thousands) \\
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\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{figure3.1.png}
\caption{Estimated and projected age structure of the UK population, mid-2010 and mid-2035.}
\end{figure}

Source: Office for National Statistics\textsuperscript{34}.

Predictions show there will be a slight increase in the median age of the UK population, rising from 39.9 years in 2012 to 40.1 years in 2022\textsuperscript{32}, which is forecast to continue to 2035 (Figure 3.1). This will coincide with the entry of the large UK post-war birth cohorts into late middle and old age\textsuperscript{13}, so the proportion of older people will be greater, with the number of over-75 year olds increasing from 5.1 million in 2012 to 6.6 million in 2022, a rise of more than 20\%\textsuperscript{35}. Greater numbers of older people, living for longer, mean that pension arrangements will be a rising cost for the state and for businesses. Meanwhile, the number of children aged under 16 is projected, based on the Office for National Statistics’ assumptions about future fertility, mortality and migration, to grow slightly from 11.8 million in 2012 to 13.2 million in 2022, a rise of 3.6\%, and continue to rise until 2026\textsuperscript{35}.
This changing age composition of the UK population is being driven by the combined effects of increased longevity and falling fertility rates. Life expectancy has been steadily increasing, and some have suggested that since 2000, half of those born each year can expect to reach 100 years of age \(^{36}\). The two-child family remains the most common family type. In 2010, family size for women who had completed their families averaged 1.91 children \(^{37}\). The UK’s Total Fertility Rate has remained mainly below replacement levels (2.0) since the 1970s \(^{38}\) and this trend is expected to continue with a projected Total Fertility Rate of 1.88 by 2022 \(^{39}\). Within this overall trend, the proportion of births to non-UK born women has increased from 22% in 2007 to 24% of all births in the UK in 2011 \(^{40}\). Total Fertility Rates are higher for non-UK born women (2.28 in 2011, compared with 1.89 for UK born women). The top five countries of origin for non-UK born mothers in 2011 were Poland, Pakistan, India, Bangladesh, and Nigeria.

As these demographic changes are so gradual, overall the patterns of family and household living will not change significantly over the next 10 years. However, there may be changes to identities generated by changing attitudes towards different age groups. Traditionally, life stages have been defined as childhood, adolescence, young adulthood, middle-age, and old-age. However, an important trend for people’s identities is the emergence of new life stages \(^{13}\), such as the more prolonged transitions between adolescence and adulthood (‘emerging adulthood’, referring to people in their 20s and early 30s) and between middle-age and old-age (‘older adulthood’: roughly between the ages 60 and 75) \(^{41}\) \(^{42}\), with a fluid period of reaching ‘full adulthood’ and then ‘middle adulthood’ sandwiched in between \(^{13}\). Increasingly these life stages are being either delayed, extended, or blurred together, and are likely to become even more fluid in future \(^{13}\). ‘Older adulthood’ describes a group who are largely healthy and still active, while ‘old-age adulthood’ refers to those aged 75 and over, some of whom are declining or frail \(^{13}\). These categories give rise to different needs and services, for example the increased incidence of chronic health problems and mental decline such as dementia has produced an increased focus on health provision and social support for the very elderly \(^{43}\). By 2022 the present ‘baby boomers’ will be moving from older adulthood into old-age as they begin to approach and turn 80 \(^{13}\), an important transition for many from relative independence to increasing dependency.

Reaching traditional ‘full adulthood’ is marked by a convergence of life course transitions, age, individual experiences, and cohort experiences, such as getting married or cohabiting, becoming a parent, moving away from the parental home, setting up a home and becoming established in a career. By 2022 those people in ‘emerging adulthood’ (post-adolescence) may face very different life experiences and find it more difficult to achieve these ‘full adulthood’ rites of passage \(^{13}\), for example by remaining in or moving back into the parental home. In 2011, nearly 3 million adults aged between 20 and 34 were living in their parents’ home, an increase of almost half a million, or 20%, since 1997, despite the number of people in this age group being similar in 1997 and 2011 \(^{44}\). They may therefore continue more youthful patterns of material consumption and activities, undertaking periods of education and employment interspersed with sabbaticals for leisure \(^{13}\).

The gradual shift in different age groups discussed above means that the dependency ratio – the ratio between those of working age (aged 16–64) and those either under-16 or 65 and over – will alter gradually too. The number of dependants per 1,000 persons of working age is projected to alter from 615 in 2012 to 628 in 2022 \(^{35}\). This could lead to greater stresses upon the ‘middle’ generations, especially those with caring responsibilities, and increasing demands on the state for health, welfare, and social care provision. There will be greater demand for informal care of older people by their spouses and children. The number of people providing care to older parents is projected to increase by 27.5% between 2005 and 2041, from nearly 400,000 in 2005 to around 500,000 in 2041, with most of this increase occurring by 2022 \(^{45}\). People’s identities may be under greater pressure from their different roles as carers, parents, and children, and balancing their working and family lives may be difficult. There may be increasing resentment against the burdens faced by those who find themselves still in work later than they anticipated, caring for elderly parents and providing resources and housing for older children or divorced adult offspring returning home.
An ageing UK population will alter intergenerational relationships and change the make-up of workforces as average retirement ages rise. The number of people of state pension age and above still in employment nearly doubled between 1993 and 2011, to 1.4 million in 2011, and seems likely to continue growing. While population predictions show there will be larger numbers of people aged 65 and older, changes to the state pension age for women along with the removal of statutory retirement ages mean that they will not necessarily be retired from work. However, this trend will not offset the overall change in the dependency ratio between working and non-working sections of the population.

Living longer and healthier lives means that traditional age-based social categories are becoming less important for people in the UK. Age may become less of a factor compared with the specific situation faced by the individual, in terms of family, where they live, elderly dependants, and whether or not they are in work. For many people aged 65 and over, their age is not a crucial part of their identity, but health, socio-economic status, and family relationships are more important, for example being a parent, or grandparent. For this age group, wellbeing is seen as being able to continue doing the things they have always been able to do. For the more affluent middle classes, a comfortable and leisured early old-age can be enjoyed while health lasts. However, this will not be the case for all, as many people will lack the financial resources needed to achieve this level of comfort and security. The scenarios developed for this Report illustrate some of these issues and their implications for people’s identities, using the persona of Dylan who is contemplating an uncertain future in retirement (see Box 3.1: Dylan 2013).

**Box 3.1: Dylan 2013**

These scenarios illustrate how drivers of change may affect individuals in different contexts (see Chapter 2 for an introduction to the scenarios)

Dylan is a Welsh former miner living in South Wales. In 2013 he is 60 years old. He is working as a trained mountain guide, but the work is low-paid and he is struggling financially. Although he has looked for work elsewhere, he has been unable to find better-paid employment and suspects people are unwilling to take him on because of his age. His wife is now the major wage earner, with her job in retail managing a local shop. She is more computer-literate than he is, having had to use computers for her work, and has Facebook and Skype accounts, which are mainly used to keep in touch with their family. They have been married for 35 years and have two adult children, a son living in Australia and a daughter in London. Her daughter rents a flat with a friend. She had wanted to buy a place of her own, but Dylan could not afford to help her out with a deposit. Dylan’s elderly mother is suffering from dementia and living in a private care home near Swansea, but he rarely visits her; preferring to remember her the way she was. Dylan enjoys spending time drinking with his rugby club friends, and rarely, if ever, uses the internet. The tourists he meets through work keep him up-to-date with most of the news issues.

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iii State pension age is now between 65 and 68 depending when someone was born. Statutory retirement age in the UK was 65, but this limit was abolished in 2011.
3.1.2 Young people

Many commentators have noted the emergence of a new ‘Generation Z’, loosely defined as those born after the mid-1990s (under-18 year olds) who are immersed from an early age in a digital environment and are comfortable with new technology. They can have better computer skills than their parents and expect to access services online, but levels of understanding of online safety and security are varied and they may not know where to turn for advice. This age group has high expectations as consumers, with an emphasis on purchasing new technology and experiences, such as holidays. Their mind-set will be very different from that of previous generations: this will have major implications for policy makers in understanding how these young people relate to the world and integrate into society.

Adolescents and young adults are adversely affected by the economic downturn as well as by broader labour market trends. The most recent labour market statistics for July to September 2012 showed that, excluding those in full-time education, there were 648,000 unemployed 16–24 year olds in the UK, 18.7% of the economically active population, down by 65,000 from the preceding April–June period. From 2008 to 2010, the number of 16–18 year olds not in education, employment, or training (NEET) increased from 811,000 to 928,000, or from 13.6% to 15.4%. These younger people have fewer skills and little experience, and are often cheap to make redundant. Over the next 10 years, those currently under 24 years old are likely to have more delayed transitions to established ‘full adulthood’ identities than in the past, as they might find it harder to find stable jobs. In turn they may delay marriage or cohabitation, and be less able to secure mortgages that would allow them to settle down as homeowners. Socio-economic factors are also important, as middle-income young adults can make later transitions to adult lifestyle status, while those who grow up in poverty and experience hardships identify as adults earlier, in their teens or early twenties.

Both younger and older people can feel discriminated against because of their age and social stereotyping of particular identities. As the numbers of under-16s and over-60s rise over the next two decades, this issue may become even more prominent. Some people perceive adolescents as being linked to antisocial behaviour or disorder, which can increase fear of crime. Young people in the UK may also become increasingly alienated by the apparent concentration of power and wealth in the hands of the baby-boomer generation, and also by their difficulty in finding the kinds of jobs they had been led to expect. UK graduates who have paid tuition fees may feel entitled to expect well-paid roles, while employers will want specific skill sets for the changing labour markets. The difference in expectations may lead to resentment among those who feel there are reduced opportunities for younger people. The scenarios developed for this Report explore this idea using a character called Esther, who is a graduate burdened with debt and struggling to establish a career (see Box 3.2: Esther 2013).
Box 3.2: Esther 2013

These scenarios illustrate how drivers of change may affect individuals in different contexts (see Chapter 2 for an introduction to these scenarios)

In 2013, Esther is a 22 year old History of Art graduate living in Yorkshire. She is an active user of several social networking sites and often updates her Facebook pages, runs her own online blog on art, including posting photographs of her own paintings, and has a large digital footprint. Although Esther has tried to sell her own paintings, both online and in small local exhibitions, she hasn’t made much money from them. Esther has a full-time job, an entry-level job at a large UK bank, but she isn’t earning enough to rent or buy her own flat, so she is living at home with her parents and commutes into Leeds for work. Although this isn’t her dream job, Esther has a £10,000 debt from her university days, and as her job pays just over the threshold for repayment, she has begun to pay off her debt. Esther considers herself quite fortunate as most of the friends she graduated with have not been able to find work at all, or are in temporary low-paid work. However, her job and the commute leaves her little time to pursue her hobbies and ambitions.

3.1.3 Religion and secularisation

Since the 1980s religious identities in the UK have shown a long-term trend towards increasing secularisation. While the main religion in the UK is Christianity, church attendance has been declining and the Christian religion has become less important for many people's identities. The secularisation trend is shown in the 2011 Census, in which the number of people identifying themselves as having no religion rose from 14.8% of the population in 2001 to 25.1% of the population in 2011, while the numbers of people identifying themselves as Christian dropped from 72% in 2001 to 59% in 2011. Younger people tend to be less religious than older people, as shown in a 2011 Office for National Statistics survey, where 87.6% of over-65 year olds identified themselves as Christian compared with 59.7% of under-20 years olds (Table 3.1). As younger, generally less religious, generations replace older generations, it is likely that overall, religiosity will plateau at a low level but not necessarily decrease further. The secularisation trend is so gradual that it is very likely that the strength of UK religious identity will not be significantly altered over the next 10 years.

Table 3.1: Religion by age group (%), Integrated Household Survey April 2010 to March 2011.

<table>
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<tbody>
<tr>
<td>Christian</td>
<td>59.7</td>
<td>58.9</td>
<td>55.4</td>
<td>66.8</td>
<td>78.3</td>
<td>87.6</td>
</tr>
<tr>
<td>Buddhist</td>
<td>0.3</td>
<td>0.4</td>
<td>0.6</td>
<td>0.5</td>
<td>0.4</td>
<td>0.1</td>
</tr>
<tr>
<td>Hindu</td>
<td>1.3</td>
<td>1.5</td>
<td>2.4</td>
<td>1.4</td>
<td>1.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Jewish</td>
<td>0.4</td>
<td>0.3</td>
<td>0.4</td>
<td>0.4</td>
<td>0.5</td>
<td>0.7</td>
</tr>
<tr>
<td>Muslim</td>
<td>7.9</td>
<td>5.5</td>
<td>6.4</td>
<td>4.0</td>
<td>1.9</td>
<td>1.1</td>
</tr>
<tr>
<td>Sikh</td>
<td>0.8</td>
<td>0.8</td>
<td>1.0</td>
<td>0.7</td>
<td>0.6</td>
<td>0.4</td>
</tr>
<tr>
<td>Any other religion</td>
<td>0.8</td>
<td>0.9</td>
<td>1.2</td>
<td>1.2</td>
<td>1.3</td>
<td>1.1</td>
</tr>
<tr>
<td>No religion at all</td>
<td>29.0</td>
<td>31.6</td>
<td>32.5</td>
<td>25.0</td>
<td>15.9</td>
<td>8.4</td>
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Source: Office for National Statistics.
However, there are smaller counter-trends. The overall UK trend of rising secularisation is less pronounced in Northern Ireland, and among both the Muslim and the Roman Catholic populations in the rest of UK. The immigrant minority ethnic population in the UK are more religious on average than the White British population. Among British minority ethnic groups, Pakistanis, Bangladeshis, and Black Africans seem significantly more likely to assert the importance of their religion to their identity. However, these groups are showing similar patterns of intergenerational decline, with the ‘second generation’ being generally less religious than their immigrant parents.

While still showing the same intergenerational trend towards secularisation, religiosity among the Muslim community is declining only very slowly, so Muslims are more likely to state that their religious identity is important to them. There may be several reasons for this trend, including a component of religious revival, a reaction against perceived hostility towards Muslims, and the impact of international events. For those who do continue to assert strong religious identities, the meaning or implications of their religiosity may be different from those of their parents; for example, these individuals might feel that they are asserting a ‘pure’ version of the faith, or one that is compatible with less ‘traditional’ attitudes or behaviours. Some analysts suggest that the decline in religious identity in some sectors of society and across generations may reverse, so the children of non-religious parents may nevertheless assert a religious faith. This appears to be particularly the case among young Muslims.

### 3.1.4 Diversity

The 2011 Census showed that 80.5% of the population of England and Wales identify themselves as White British, with London being the most ethnically diverse area and Wales the least diverse. The Census showed that in 2011, 13% of people resident in England and Wales were born outside the UK, while the most common countries of birth were India, Poland, and Pakistan. Around half of these immigrants had arrived in the UK over the previous 10 years. The minority ethnic population (non-White British) has risen steadily over the preceding decade as shown in Figure 3.2. Net international migration was a major component in this increase. Since the 1980s, net migration has been positive in most years (meaning more people have entered the UK than left).

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*iv* An ethnic category used for the Census by the Office for National Statistics.

*v* ‘Second generation’ refers to those born in this country whose parents immigrated into the UK.
3. Drivers of change

Figure 3.2: Change in ethnic composition of the population in England and Wales.

1 Comparability issues exist between these ethnic groups for the 2001 and 2011 Censuses
2 No comparable data exists for these ethnic groups in 2001 Census

Source: Census data, Office for National Statistics.

The share of the population in England and Wales from minority ethnic (non-White British) groups is projected to continue to rise over the next decade, and to become more geographically dispersed. Minority ethnic groups, concentrated in a few areas in 2001, are projected to become more widely distributed, while the major cities are predicted to have much larger minority ethnic populations in the future. This pattern of increasing diversity has an age dimension. Minority ethnic groups are likely on average to have a lower age than the general population, as immigrants tend to be younger people, and total fertility rates among non-UK born women are higher (as discussed in Section 3.1.1).

Since 2004 there has been a trend towards inward migration from the eight EU Accession countries. Long-term international migration estimates for the eight Accession countries suggest that in 2010, net migration into the UK was 49,000, 15% of net migration, compared with a peak of 20% in 2007. The Office for National Statistics’ Annual Population Survey suggests that in March 2011 there were two million EU citizens living in the UK, and 872,000, or 42%, of those were from the eight EU Accession countries. This group seem more likely to live in different regions from other minority ethnic immigrants, and less likely to settle permanently. As a group, they have a greater proportion of younger people compared with the general population.
Some commentators are concerned that this trend of increased net inward migration will create social division and social tension. Surveys suggest that about two-thirds of the UK population feel there are ‘too many immigrants in Britain’, and that this proportion has remained more or less constant over the past two decades. The 2009 European Values Study found that 69% of UK respondents ‘agreed’ or ‘strongly agreed’ that there were too many immigrants living in the country, compared with an average of 44% for all 47 countries in the survey. This is based on a particular view of identity which sees new arrivals of an indigenous community as ‘other’ and a threat. However, recent research shows a significant and steep decline in levels of prejudice against minorities between older and younger generations, which suggests a rise in tolerant attitudes among younger people and a more positive attitude towards immigrants.

There is some evidence that some social and minority ethnic groups experience very different levels of social integration. Black Caribbean young people tend to have lower levels of a sense of belonging to Britain. In 2005 the Home Office Citizenship Survey found that, overall, 17% of all 16–24 year olds surveyed from all ethnic groups in England said they ‘Do not belong strongly’ to Britain, while for the Black Caribbean/Black Other group of 16–24 year olds, 40% said they felt they ‘Do not belong strongly’ to Britain, even if they had been born in Britain. However, sample sizes were relatively small (1,394 in total with only 83 in the Black Caribbean/Black Other group). Other research has found that this ethnic group has also reported feeling high levels of relative deprivation, and felt they were held back unfairly by prejudice and discrimination. The survey also showed much less trust in British political institutions and in the way that democracy works. There is a so-called ‘integration paradox’, where ethnic minorities, such as the Black Caribbean group, who have relatively high levels of contact with the White British majority, are also more acutely aware of and sensitive to prejudice and discrimination, while groups that lead more separate lives may actually be less aware of prejudice. There is also evidence that minority ethnic people who are more highly educated, and in that sense more integrated, are also more aware of and sensitive to discrimination.

### 3.1.5 Hyper-connectivity

Hyper-connectivity is the use of multiple communications systems and devices to remain constantly connected to social networks and streams of information. Hyper-connectivity has several key attributes: being ‘always on’ (connected all of the time and everywhere); readily accessible; information-rich beyond any individual’s capacity to consume; interactive, not only between people but also involving people-to-machine and machine-to-machine communications; and always recording, with virtually unlimited storage capacity facilitating people’s desire to document their lives.

This driver is considered one of the key developments of the early 21st century, enabled by the trend towards increasing ubiquity of internet access and the rapid rise between 2009 and 2011 in accessing the internet through mobile devices (see Figure 3.3). By 2011 there were more devices connected to the internet than there were people in the world, and numbers are predicted to reach 15 billion by 2015. In the UK, 80% of households had internet access in 2012, having increased by 23% since 2006. Mobile smart-phones and social networking mean that the internet can be pervasive and people can be constantly connected to it.
Figure 3.3: How people access the internet.

Note: 2003: sample size = 1,202; 2005: sample size = 1,309; 2007: sample size = 1,578; 2009: sample size = 1,401; 2011: sample size = 1,498
Survey conducted every two years. Respondents could select multiple responses to the question, ‘Could I ask you about all the places you access the internet?’


There is an age-related aspect to hyper-connectivity, with a greater take-up of internet-based communications by younger people than older people. In a 2011 survey of 994 British young people aged 16–24, 45% said they felt happiest when they were online; 86% felt new technology helps them to communicate with people; and 96% said they access another media device such as a mobile phone while using the internet.94 Increasing digital network coverage and higher access speeds will continue to drive this trend, while bringing new opportunities to rural communities. However, there remains a significant minority of ‘excluded’ households, both rural and urban, who by choice, culture, or circumstances cannot or do not access the internet and who are ‘digitally excluded’. There is also a minority of about 10% (aged 17–23) who define themselves as lapsed internet users, often having had limited home access and restricted resources (psychological, cognitive, socio-cultural, physical or material).95

The trend towards hyper-connectivity has the potential to have a positive impact on migrant communities in maintaining social connections with family and friends.96 97 There is now the capacity for migrants to communicate online with people from their natal country, although this could also serve to isolate them more from the host society and so impede integration.3 Over the next 10 years, dispersed communities will increasingly be able to stay in close touch with events in their country of origin. This means that events which occur elsewhere in the world can have an immediate impact on people’s identities in the UK.98, for example
through the transmission of consumer culture, heightened awareness of political events elsewhere, and responses to perceived persecution in other countries.

It is difficult to speculate on the likely impact of growing hyper-connectivity. People may find it harder to disconnect themselves, or to maintain distinct identities in different situations. One likely development is that the increasingly networked state of many people’s lives could blur the boundaries between online and offline identities, and between work and social identities. The advent of widespread mobile technology and email has led to more people remaining connected to their work during the evenings, weekends and other leisure times. In future, this blurring effect could make it harder for businesses to prevent people from maintaining contacts outside of the workplace. This breakdown in the barrier between separate identities could be among the most important and transformative consequences of social and technological changes. The scenarios developed for this Report illustrate how generational divisions in access to the internet and familiarity with using it may lead to tensions (see Box 3.3: Dylan 2014).

**Box 3.3: Dylan 2014**

_These scenarios illustrate how drivers of change may affect individuals in different contexts_

In 2014, Dylan’s daughter changes jobs to one which enables her to work remotely, and so to save on rent costs she moves from London back into her parents’ home in South Wales. She helps Dylan to become more familiar with the latest technology, buying him an e-book reader and setting up an email account and social networking account for him. Dylan finds he is able to use these while she is there, and is pleased to join the local church group’s online followers so he can see what events are going on locally, but he finds it odd to be taught by his daughter. Dylan had thought it might be nice to have her back home again, but she often shuts herself away in her room to work, or stays out late with her friends, which is a source of tension between them. A further source of tension arises when, without checking with his daughter, Dylan responds to an email scam, giving his bank account details and is defrauded by several hundred pounds. The incident increases his feelings of social distrust and he begins to resent his reliance on his daughter for online matters.

**Summary**

_The trends discussed here suggest that several social changes will affect identities in the UK over the next 10 years. However, some changes such as the ageing population, secularisation, and diversity, are likely to be very gradual. Demographic trends suggest that age categories will become more blurred as people choose to define themselves less by age and more by family roles. At the same time, intergenerational relationships could come under strain. Young people as ‘digital natives’ could have very different sets of expectations, linked to the trend towards hyper-connectivity, which can pose both opportunities and challenges for society._
3. Drivers of change

3.2 Technological drivers

3.2.1 Online identities

For many people, a substantial proportion of their waking lives is spent online or interacting with the digital environment, and ‘Generation Z’ will have known little else. In recent years social networking has expanded to include ‘professional’ networking sites and other forms of expression and exploration such as ‘blogging’, Twitter, avatars, gaming, personal web-pages, or membership of various internet discussion groups. Almost every online platform is different and potentially contradictory; for example, blogging may be private or public while Facebook can be accessible to friends only or open to all. In the case of Twitter, messages can usually be read by everyone unless personal messaging is used. Online platforms are changing radically and rapidly; for example, online multiplayer gaming is replacing participation by individual gaming. Mobile technologies are playing a role in driving change, with new formats and apps being launched to run on smart-phones, while the notion of computers as being separate from people is changing, as many now keep their own personal networked computer in the form of their smart-phone with them at all times.

The proliferation of communications technologies over a range of platforms can be described as a ‘poly-media’ environment, and people now use different platforms simultaneously or to complement one another. Their identities across online platforms may be broadly similar or may shift in emphasis, for example from a professional identity to a social identity, and between media, for example text messaging versus face-to-face conversations via a webcam. The poly-media environment requires an individual’s identity to perform different functions in a digital networked world, for example when a person is using an online bank, making purchases from an online retail websites, or participating in social media.

In the early years of widespread internet usage, there were concerns that the internet diminished ‘real’ identity, and prevented face-to-face human socialisation, with online identities being seen as very different from those in the offline ‘real’ world. Being online makes it easier for people to explore new forms of identities, such as fantasy avatars, and to shift identity or secure multiple identities with relative freedom. While individuals can choose to present themselves in different ways depending on their audience, these are simply multiple identities that are often extensions of offline identities. As people have become accustomed to switching seamlessly between the internet and the physical world, they have begun to use social media to pursue friendships, continue conversations, and make arrangements in a way which dissolves the divide between online and offline. The internet does not produce a new kind of identity, but has instead been instrumental in raising awareness that identities were more multiple, culturally contingent and contextual than had previously been fully appreciated.

People can also control their online identities, for example by using avatars to represent their identities online, and project themselves in ways of their choosing (see Figure 3.4). There has been a general trend away from ‘fantasy’ identities, such as those used in multiplayer games, with more people using online identities that are fairly accurate representations of themselves, as seen in Figure 3.4 with Kimberly Rufer-Bach and her avatar ‘Kim Anubis’. However manipulation of online identities can be an effective tool, as seen with Choi Seang Rak and his avatar ‘Uroo Ahs’ (Figure 3.4).
Figure 3.4: People and their online avatars.

Photographs of people alongside their online avatars with details of each person and edited highlights of interviews with them, illustrating how people can use avatars to represent themselves accurately or can choose be seen as someone else. For a disabled person, an avatar can enable them to interact online without being judged by their appearance.

<table>
<thead>
<tr>
<th>Name</th>
<th>Average hours per week in-game</th>
<th>Avatar name</th>
<th>Avatar created</th>
<th>Game played</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choi Seang Rak</td>
<td>8</td>
<td>Uroo Ahs</td>
<td>2004</td>
<td>Lineage II</td>
</tr>
<tr>
<td>Born: 1971</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupation: Academic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location: Seoul, South Korea</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

“I’m a professor. I teach economics and public policy at the Dongguk University in Seoul… My teaching duties don’t leave me much time to play but my avatar is logged in 24 hours a day, seven days a week. She sits in the marketplace, buying and selling items while I’m away at work… People buy more from my little girl dwarf compared to the old male dwarf I used to have, even though they sell the same things. Because I’m very polite, people think I really am a little girl.”

<table>
<thead>
<tr>
<th>Name</th>
<th>Average hours per week in-game</th>
<th>Avatar name</th>
<th>Avatar created</th>
<th>Game played</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kimberly Rufer-Bach</td>
<td>70</td>
<td>Kim Anubis</td>
<td>2004</td>
<td>Second Life</td>
</tr>
<tr>
<td>Born: 1966</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupation: Software developer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location: San José, California, USA</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

“I’m forty years old and have two cats and five computers… Most of the time my avatar looks like my real self, but twenty years younger. I’m jealous of some of her clothes. I made a pair of boots that I wish I could export into real life. I usually dress up before the virtual world, just to be a little more present. My avatar is just an extension of me in this virtual space.”

<table>
<thead>
<tr>
<th>Name</th>
<th>Average hours per week in-game</th>
<th>Avatar name</th>
<th>Avatar created</th>
<th>Game played</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jason Rowe</td>
<td>80</td>
<td>Rurouni Kenshin</td>
<td>2003</td>
<td>Star Wars Galaxies</td>
</tr>
<tr>
<td>Born: 1975</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupation: None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location: Crosby, Texas, USA</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

“The difference between me and my online character is pretty obvious. I have a lot of physical disabilities in real life, but in Star Wars Galaxies I can ride an Imperial speeder bike, fight monsters, or just hang out with friends at a bar… I play online games because I get to interact with people. The computer screen is my window to the world. Online it doesn’t matter what you look like. Virtual worlds bring people together – everyone is on common ground. In the real world, people can be uncomfortable around me before they get to know me and realize that, apart from my outer appearance, I’m just like them.”

One of the most significant observations of the impact of online identities is that some individuals feel they have only achieved their ‘true’ identity for the first time online. For example, for individuals with various forms of disability, such as autism and muscular dystrophy, being online or having an avatar can be the first time the person feels they are seen by others as a ‘normal’ human being. In Figure 3.4, the interview with Jason Rowe contrasts his disability with his superhero avatar Rurouni Kenshin, showing how gaming online enables Jason to socialise on an equal footing with others. The internet can allow many types of people to realise their identities more fully; for example, some people who have been shy or lonely or feel less attractive discover they can socialise more successfully and express themselves more freely online. This may be one of the main ways in which online identities can transform offline identities.

The internet makes it possible to create fake online identities, but these are often over-hyped by the media. Social media sites do outlaw any deliberate deception as part of their terms and conditions, and they are also self-regulating to some extent, in that individuals are likely to connect to acquaintances and friends that they also know offline. Fake identities may be less common than is often assumed. Facebook recently revealed that it had 83 million fake accounts, 8.7% of the total, but the majority were considered to be duplicates or misclassified rather than ‘undesirable’ accounts, which made up only 1.5% of the total. Some fake accounts may be created for perfectly legitimate reasons, such as individuals seeking anonymity to protect themselves from unwanted intrusion, to divide their work and social lives, or because they are required to have a unique username. This does not mean that they are pretending to be a different person, or necessarily have any criminal intentions. Of course, fake identities can also be created in order to perpetrate a crime. However, over the next 10 years, technologies including facial recognition and other means of tracking digital ‘footprints’ may reduce the potential for fake identities to remain undiscovered. Some platforms now routinely link information, for example cross-posting content between social media accounts, so that inconsistencies may be more easily identified. Possible developments in cybercrime are discussed in more detail in Section 3.2.4 below.

### 3.2.2 Social media

Social media differs from traditional communications technologies in that, being online, it allows users to create, share, consume, and collaborate on content in new ways. The use of online social media has surged in recent years, becoming a majority activity since 2009. Usage was initially spurred by young people but social media is now used by most people in the UK. In 2011, 60% of internet users in the UK were members of a social network site, an increase of 43% from 2007. Over the next 10 years, the nature of online platforms can be expected to change radically. Control of online identities will become increasingly important and will highlight issues such as the ownership and use of personal content and privacy.

Evidence shows that younger people between the ages of 8 and 18 are generally less concerned with their privacy than older people and are more willing to share information online. However, their levels of awareness of online security and the potential risks of sharing personal information, its longevity on the internet, and who might access it, are variable. The rules governing the possession of digital information are dramatically different from those of offline possession. For example, once an image has been posted online, it could be retained by the website (depending on its terms and conditions) or others could reproduce, share, adapt or use it in ways which could be unwelcome to the original owner. An online personal history cannot be completely erased but serves as a permanent autobiography. This means that care needs to be taken when sharing personal information online, with an awareness of how that information may be retained or used by others, including in the future.

Social networking websites have been associated with a loss of anonymity and also perceived as a threat to privacy. People’s apparent willingness to disclose information in exchange for access to services (for example social network sites, free Wi-Fi, coupons) combined with the financial value to be gained from exploiting customer data (such as mobile phone providers developing data analytics) leads people to cede control over what happens to their data online more readily than in the past. Even people who do not choose to have an online presence may be identified online, for example through ‘tagging’ in photos online. This trend can be
expected to continue over the next 10 years\(^3\). The implications are that people may no longer be the primary creators of their own online identities, with implications for their offline identities, as online and offline identities are converging\(^4\).

It is hard to predict precisely how social media might develop over the next 10 years, as the internet changes rapidly and people's preferred websites alter. There may be more political activism using social media ('clicktivism')\(^2\), as these networks become more influential in 'spreading the message' and allowing instant feedback and commentary. Social media can facilitate political movements. In some cases this usage has been thought to be very influential, for example in the revolution in Tunisia in 2011 and in mobilising dissent in Egypt and Libya, or at the very least has raised the international profile of these events. However, some dispute the extent of its influence in these examples\(^11\).

Social media can facilitate links between like-minded individuals to create niche communities of interest, which could be benign or malign\(^2\), and may reinforce existing behaviours, normalise minority identities, and broaden choices\(^4\). The persistence of digital data will also have implications as young people grow into adulthood, seek employment and progress in their careers\(^3\), because information could become potentially available to unintended audiences. Social media sites can conflate work and social identities within the same online space and lead to information leaking from one sphere to another. The scenarios developed for this Report explore this issue using the example of Esther, who finds that information available about her has had consequences in the workplace (Box 3.4: Esther 2014).

**Box 3.4: Esther 2014**

**These scenarios illustrate how drivers of change may affect individuals in different contexts**

During 2014, a series of events lead to Esther deciding to move to Scotland. Although her employer in Leeds encouraged working from home for senior staff during the London 2012 Olympics, Esther's role requires her to remain based in the office and she finds the daily commute into Leeds city centre tiring. She applies for promotion at the bank but is unsuccessful. A colleague tells her that this was because a manager had checked her online presence and discovered some drunken photos of Esther from her university days which her friends had posted and tagged her in. Frustrated with her situation, Esther decides to pursue her interest in art history and enrolls on a postgraduate course beginning in autumn 2014. She leaves her parents' home and moves to Glasgow, an emerging hub for art and culture, to study, hoping to pursue her ambition of becoming a professional artist.

3.2.3 ‘Big data’

Over the next 10 years it is likely that the ability to aggregate and ‘mine’ large data sets will become even more widely used for a variety of purposes, for example to gain a better understanding of consumer preferences, and to provide more personalised products and services\(^11\). Individual preferences and behaviours are already being used to market corresponding products and services, even in real time, and to incorporate location-based information. This type of personalisation captures behavioural information from everyday transactions and builds them into an overall consumer profile\(^4\). These systems can be automated, drawing data directly from machines such as smart meters and tags, and can handle very large amounts of data.
Governments may be able to utilise ‘big data’ to provide improved public services by sharing information, but public responses to this possibility are mixed. The 2010 Joseph Rowntree Reform Trust State of the Nation Survey asked people for their perceptions of government use of data sets. Its results showed that 65% thought that government proposals to collect and store information are either a ‘Bad’ or ‘Very bad’ idea, while a total of 83% were against allowing the government to access phone, email and browsing records (see Table 3.2). Using ‘big data’ is also a logistical and technical challenge, because the vast quantity of content on the internet means locating relevant information and verifying its accuracy become problematic.

Table 3.2: Joseph Rowntree Reform Trust State of the Nation Survey results from the question ‘From what you have seen or heard do you think the following government proposals for handling personal information are a good or bad idea?’.

Increased use of mobile technology, such as smart-phones and tablets, allows social media ‘rich’ information to be linked with spatial tracking and even facial recognition technologies, and for people’s locations, preferences and personal information to be broadcast to others. This means that, increasingly, people will be able to draw on personal information about a stranger in a public place, over time changing the nature of what it will mean to be anonymous in public spaces. Some apps now offer the possibility of using a smart-phone to photograph individuals and access online public profiles in real time.

The proliferation, synthesis, and exploitation of ‘big data’ sets by the private sector raises questions over who ‘owns’ and can access the data, with implications for personal privacy and liberty. Individuals will be more easily identified through triangulating data from multiple anonymised data sets, each giving an additional piece of information, potentially reducing privacy. Digital information is already a commodity which can be traded, sometimes without the consent or even knowledge of the individual. The growing value of digital information has started to attract increasing criminal attention, such as for use in identity fraud, while there are concerns over private sector use or misuse of this data. This could cause some people to withdraw from the digital environment, or reduce their trust in online transactions, as the scenario for Esther shows (Box 3.5: Esther 2016).
Box 3.5: Esther 2016

These scenarios illustrate how drivers of change may affect individuals in different contexts

Around 2016, a series of high profile cases of large-scale data leaking, theft, and misuse brings data protection issues to the fore and the media begin to run a series of high-profile national stories highlighting the security concerns. A major law suit against a private sector company over their perceived misuse of personal data follows. Many people seek to reclaim control of their personal data, with an online protest movement campaigning for greater online privacy gaining a large following. An early success for them is the strict regulation of electrical ‘smart meters’. These issues affect Esther’s parents directly, as they become victims of identity theft and their details are used to forge a fake driving licence. Esther initially reacts by removing her details from online sites, but over time she misses her online social interactions and feels the need to be connected to the internet to build her reputation as an artist and to sell her work online, and so rejoins. However she is now cautious about sharing personal information and carefully manages her online identity.

3.2.4 Cybercrime

There is a distinction to be made between a traditional type of crime that is now committed using a computer, and a crime wholly enabled by the internet. ‘Identity theft’ is used to refer to a range of criminal behaviours; for example, whether what is stolen is an ‘identifier’ (such as a reference number is or a PIN) or information that enables someone to impersonate another. The theft of aspects of someone’s identity can be used for a range of criminal purposes, from gaining a false passport to committing fraud. Identity fraud uses personal information about a victim’s personal or organisational identity to exploit existing trust in their identity, or to pretend to be that person to obtain resources fraudulently from another organisation. To gain access to the victim, criminals also often exploit the social capital invested in the trusted identities of individuals, groups or organisations to deceive others, typically pretending to be someone else to perpetrate a scam, for example through ‘cold calling’.

Because so much personal, consumer, and financial information is now online, the internet has become a valuable resource for criminal behaviour enabling identity theft, fraud, and the facilitation of terrorism. Technology has enabled a range of new methods to achieve fraud at a global level. These include phishing, pharming, Domain Name System (DNS) poisoning (attacks on a domain name, for example to insert a fake address record) and spoof emails that contain links to bogus websites, or which install spyware to log keystrokes or seek out financial information stored on the computer’s hard drive. More recent developments exploit the new converged mobile technologies, such as ‘smishing’, which involves sending victims SMS text messages that, as in the original phishing emails, seek to obtain ‘important security information’. Finally, there is ‘vishing’, which exploits VOIP (voice over internet protocol) in the same way. Victims are tricked into ringing back the number given or logging onto a web address given in the message.
Although it is extremely difficult to quantify the cost or incidence of cybercrime\textsuperscript{118}, a 2010 Eurostat ICT survey of online usage and concerns over internet crime across all 27 EU countries showed that 80% of the UK’s population used the internet regularly (at least once a week) and 66% frequently (every day or almost every day)\textsuperscript{119}. When the survey looked at self-reported actual experience of cybercrime over the previous 12 months among internet users, the UK broadly matches the EU average for virus infections, privacy violations, and spam (54% of those surveyed in the UK had received spam emails); however the UK ranked second out of 27 (behind Latvia) for experiences of financial losses caused by phishing and pharming attacks and payment card fraud, affecting 7% of the UK’s online population\textsuperscript{119}.

Cybercrime has both direct and indirect costs, affecting millions of individuals, the private sector, and the government\textsuperscript{120}. Banks, business and organisations spend substantial sums each year responding to fraud, repairing losses, and trying to prevent identity fraud. However it is important that the occurrence of cybercrime and identity-related crime is not overstated\textsuperscript{121}. The Scottish Crime and Justice Survey showed that many more people fear becoming a victim of identity crime than actually experience it\textsuperscript{121}. However fear of crime itself can have an impact on an individual’s sense of safety and consequent behaviour: Identity theft is more than simply a manifestation of crime, because it uses part of an individual’s sense of self and so is particularly disruptive and invasive for a victim.

Creating false identities can be a component of cybercrime, for example to perpetrate a fraud, conduct espionage, or evade capture. Creating a false identity, or stealing another person’s identity (‘identity theft’), is often achieved through obtaining key personal information such as PINs, addresses and passwords that enable a person to verify their identity for organisations such as their bank. This means that the distinction between a person’s ‘identity’ (in terms of their overall coherent sense of self) and the identification used to distinguish between people online is being increasingly blurred in practice, as identifiers become proxies for ‘real’ identities.

Someone attempting to conceal themself or cover their tracks over a long period of time could seek to obtain some kind of false identity documentation to support their false identity. The internet can help people to obtain fake documentation, for example by providing access to the personal details of individuals and to other relevant information which could assist in identity theft\textsuperscript{122}. Another method is to try and acquire genuine documentation under an assumed identity, as a false identity which is based on genuine identity documents is difficult to detect\textsuperscript{121}. Increasing global migration suggests there may be a rise in incidents of fraudulently obtained identity documents being unwittingly accepted as genuine, and in difficulties in verifying identity documents issued by other countries. If online identities become more securely validated, there is the prospect that these ‘offline’ options will be at a greater premium to criminals. New technology such as mining large data sets, cross-referencing a range of personal and other information, or tracking inconsistencies in online behaviour, for example, may be able to detect fraudulent online identities in some cases, but a false identity might also be uncovered through family and social networks\textsuperscript{123}.

Over the next 10 years, as the distinction between online and offline identities diminishes, criminals are likely to try to exploit the many new forms of interlinked data relating to people’s identities from social media and from financial and professional websites, in order to construct fake identities or steal real identities which could withstand more sophisticated interrogation. Ultimately, stealing sufficient information could enable criminals to effectively take over their victims’ online identities\textsuperscript{121}. Reputation will therefore become increasingly important for building trust between individuals online, in an environment where instances of blackmail and extortion have the potential to rise over the next 10 years as people threaten to reveal personal information and destroy reputations.

While it may become more difficult to fabricate new identities in future\textsuperscript{121}, because the chances for discovery through social media networks, facial recognition technology, and ‘big data’ analytics will be higher, there is a technological inevitability that as one form of crime is brought under control, new forms of identity theft and fraud will develop to take their place. Identity-related crimes will never be eradicated, but they can be managed by using various prevention and detection strategies\textsuperscript{118}.
3.2.5 Biomedical technologies

In the next 10 years, it is likely that there will be advances in the development of biomedical technologies which may extend the boundaries of how people perceive themselves and others, and may therefore affect their identities. Interventions to slow the effects of ageing and improve quality of life for the elderly, drugs to improve memory and cognition, developments in reproductive technologies, cloning, animal/human organ transplants, and genetic modification are also likely to have implications for identities.

Some of these developments may challenge notions of what it is to be human, as interfaces between humans and machines are also being explored in new ways. One example is neuroprosthetic devices, such as retinal implants to restore vision. Computers are also being developed that can track movements of users’ bodies and eyes and react accordingly, without specific commands having to be given. Prostheses in the form of artificial extensions to limbs can now be electronically operated, and can incorporate new mechanical designs such as the running blades used in the London 2012 Paralympics. A few scientists have experimented with implanting computer chips into their bodies to control devices and their ‘smart’ environment. In one example, a scientist infected his biochip with a computer virus to demonstrate the ability to foil security systems. Robotics and artificial intelligence may go even further in blurring the lines between human and machine.

Technologies are being developed in the neurosciences and in forensic science which have the potential to impinge on people’s identities and individual privacy. These aim to increase our understanding of the human brain and to interpret patterns of thinking. Some are proving controversial, such as ‘brain fingerprinting’, which uses electroencephalography (EEG) as a method of lie detection. This technology measures electrical brainwave responses to words or pictures presented on a computer screen with a view to seeing what is recognised and potentially to detect a person who might be lying although there is scepticism about whether this technique reliably measures what is claimed. If these technologies become more reliable and accepted in courts as evidence, there are implications for personal identities as thoughts and intentions may no longer be private.

Summary

Technological trends could be transformative for some aspects of identities over the next decade. Already the distinction between offline and online identities is becoming irrelevant as the digital divide recedes. Over the next 10 years the take-up of social media is likely to increase even further, and this will enable people to express different aspects of their identities. However, maintaining an online presence could become normalised to the point where refusing to participate in online media could appear unusual or even suspicious. People may also find increasingly that their online identities are created or mediated by others.

The persistence and availability of data on the internet means that social and biographical identities will become synthesised to a much greater degree across social and professional spheres. Private lives are likely to become more public, especially among younger people who have a more open attitude to their personal privacy. Aspects of online identities are being ‘fixed’ in time and could be available to unintended audiences, with potential consequences for future lives and careers.
3. Drivers of change

3.3 Economic drivers

3.3.1 Consumerism

A consumer society considers consumption a route to personal happiness and enjoyment of life\textsuperscript{131}, and products and services therefore become part of the construction and expression of identities and status\textsuperscript{11}. Identities can be expressed through many types of consumption. Consumption and investments are not just economic decisions, but become social and political decisions invested with moral significance\textsuperscript{132}, so for example being able to verify the ethical practices of a business serves as a basis of trust towards a brand identity\textsuperscript{11}.

Choices over food and drink are one way in which some people express their identities, as in the case of vegans, consumers of organic produce, and dieters who conform to a particular diet plan\textsuperscript{133}. In 2007, research into friendship groups among 18–25 year olds found that alcohol consumption was an important element in the construction of young people’s social lives and their friendship groups, where drinking was a form of performance that carried its own pleasures, excitement, risks and anxieties, and through which a range of possible selves could be acted out\textsuperscript{134}.

Consumerism is therefore an important way in which identities are explored and projected to others. A consumer society also leads to a close interrelationship between expressing identities through material culture, and the manipulation of identities by branding and advertising aimed towards particular groups, such as marketing to teenagers\textsuperscript{135}.

The prolonged economic crisis and growing socio-economic inequality is likely to stimulate the emergence of new alternative anti-consumerist movements, some with global resonances, such as the Occupy movement\textsuperscript{136}, whose antagonism towards the very wealthy elite may become more widespread\textsuperscript{12}. Overall, their impact on wider society is likely to remain modest over the next decade\textsuperscript{7}. However, growing awareness of social and economic inequalities will create insecurity and uncertainty, and could ultimately lead to a tipping point where class identities strengthen and become more politicised. The scenarios developed for this Report explore this trend through the example of Dylan, suggesting that in his case wider social unrest has little impact compared to pressing local issues and his Welsh identity (see Box 3.6: Dylan 2016).

Box 3.6: Dylan 2016

These scenarios illustrate how drivers of change may affect individuals in different contexts

In 2016 there are small-scale riots in Cardiff over cuts to services and welfare provision. Although Dylan did not participate, thinking mistakenly that the rioters were primarily immigrants receiving more than their fair share, the issue of cuts, and in particular the closure of his local hospital, remained very important to him. He is concerned about his elderly mother’s deteriorating condition, as well as his wife’s and his own growing health concerns. His back has been hurting a lot lately and he has had to take a number of sick days off from work due to back pain. Politically, Dylan is unsympathetic towards the Welsh nationalists, who had risen to prominence, as he had always been an ardent Welsh Labour supporter. He is critical of UK economic policy and longs for the return of local traditional industries.
3.3.2 Economic downturn

Changes in the economic climate over the next 10 years may be expected to have a major impact on socio-economic categories, or class status. However, it is difficult to measure the effect of socio-economic trends in past decades on identities, so projecting the effect over the next 10 years is equally problematic. While class structures in Britain have often been viewed as having become less important over the past 40 years, analysis of the trends shown in the British Election Surveys since 1974 compared with the 2005 British Social Attitudes Survey suggest there has been relative stability. In 1974, 35% of people surveyed (sample size 2,329) said they were middle class, 63% working class, and 4% did not identify with any class; while in 2005, 37% of respondents said they were middle class, 57% working class, and 6% did not identify with any class. The main change since the 1970s may therefore be a decline in the number of people considering themselves ‘working class’, perhaps to be expected given rising incomes over this period and changes to the labour market. Thanks to wider social changes, class identities are no longer seen as ascribed from birth, but instead describe an individual’s view of themself based on personal history, mobility between class positions, and cultural stereotypes. Class, as such, may therefore no longer be linked to economic position as strongly as was the case in the past. Many people in the UK now see themselves as middle income, and share a group identity with the hard-working masses, or the ‘squeezed middle,’ even if that does not accurately reflect their income relative to the average.

The economic downturn may have repercussions for identities in terms of financial status, potentially giving rise to greater social and economic polarisation between the ‘haves’ and ‘have-nots’. There has been a widely observed trend that the incomes and assets of the UK’s very wealthy have grown much more rapidly than those of the rest of the working population. Analysis of different income groups shows that since the late 1970s, the top 10% have increased their income share by half, with the top 1% doubling and the top 0.1% tripling their shares. Figure 3.5 shows the trend in income inequality over the past four decades for the 95th income centile compared with the 10th centile, showing how the gap between richer and poorer groups has widened. Income inequality increased during the 1980s, during a period of economic growth, and broadly levelled off at a higher level of income inequality, a pattern reflected in analyses using the Gini coefficient, a widely used measure of income inequality.

Spatial inequalities in income and wealth have also grown markedly since the 1970s: average incomes are lower in the North, the Midlands and some parts of Wales and in the poorer areas of large cities and poverty (defined as earning less than 60% of median income) has become increasingly concentrated in these areas. The rising costs of living – energy, fuel, housing, and food costs – affect everyone, but fall disproportionately on low-income households.

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vi The Gini coefficient is used to show the degree of income inequality between different groups of households in the population, by condensing the entire income distribution into a single number between 0 and 1. The lower its value, the more equally household income is distributed.
Figure 3.5: Income after housing costs for very high and low earners compared with the median 50th centile income group.

Note: Family Expenditure Survey up to and including 1992, then Family Resources Survey to 2009/10.

Source: Institute for Fiscal Studies.

Research on inequality in different countries shows that more unequal societies are less integrated, have lower levels of trust, and have higher levels of crime, disorder and protest. The economic downturn will tend to make divisions in living standards and in opportunities more obvious and this may foster resentment, as some people become more excluded. This in turn would lead to lower levels of civic participation and engagement. Poorer people could feel abandoned or victimised by the state, and have a growing sense of alienation from mainstream society which, in turn, may become less sympathetic to the poor and unemployed. It is likely that the alienation that some people in the UK feel towards the EU may grow, while social unrest, heightened xenophobia and prejudice towards immigrants by some groups is likely to increase. Marginalisation could produce social unrest, while tensions between underprivileged groups and the police can create potentially violent disorder, as occurred during the UK riots in August 2011. Inequality is likely to continue to present important challenges for policy makers by undermining social integration and social mobility. Policies which support inclusion and rebuild social capital, emphasise fairness, and avoid widening group differences, will continue to be important in mitigating potentially negative outcomes.
Since at least 1990, there has been in the UK a pattern of continuing decline in employment for skilled and semi-skilled manual roles, including skilled trade occupations and process, plant and machinery operatives, while there has been growth in higher skilled professional occupations. These trends are projected to continue to at least 2020\(^1\). According to an EU-wide public opinion survey on citizenship and belonging, work was rated as one of the three most important elements of 39% of EU citizens’ lives\(^2\). As a large part of people’s lives are spent working, careers affect both the ability of people to make choices and their self-esteem. The modern importance of work and career can explain much of human need for recognition, and can become a crucial part of an individual’s identity\(^3\). While the majority of people who kept their jobs in the recent recession may benefit as the economic recovery gets underway in the next few years, there is a real risk that people who lost their jobs may experience long-term effects, with important implications for their identities and sense of social inclusion\(^4\). They may suffer career, health, and psychological consequences which make them feel more alienated, disadvantaged, or disengaged. People can feel included or excluded from groups according to their status and their economic place in society, through employment, access to networks, and opportunities. In the scenarios developed for this Report, Esther’s experiences reflect these anxieties (see Box 3.7: Esther 2019).

**Box 3.7: Esther 2019**

*These scenarios illustrate how drivers of change may affect individuals in different contexts*

By 2019, the economy is growing again and there are more jobs around. However, despite the economic turnaround, Esther, having completed her postgraduate qualification, remains burdened with debt. Although she had part-funded her study through poorly paid temporary jobs when she first moved to Glasgow, she still has university debts and dreams of saving for a deposit to buy a flat seem a long way off. Now aged 30, and living with a partner, Esther dreams of a comfortable life, one where they don’t have to watch every penny. She might have thought about having children but can’t see how they can afford to. She worries about her parents getting older and she finds it a challenge to keep in regular contact with them. Her own life is busy with work, friends and her partner, and when her parents send her text messages, she means to reply but often forgets.

The unequal impact of the recession (and unequal recovery from the recession) may have implications for constitutional preferences in Wales and Scotland. The perception that England has suffered less from the recession than other nations may increase the likelihood of demands for greater independence. The major challenge will be to ensure that the austerity measures are not perceived to affect some areas more deeply than others. One risk is that perceptions may depend on what is seen to be occurring in London, the seat of government, rather than in the UK as a whole\(^8\). It will continue to be important for the economic benefits of recovery to be spread fairly around the UK, and across generations.
Summary

Over the next decade economic trends will have a considerable impact on people’s identities, while the broader effects may also have indirect impacts. Consumerism is an important way in which people currently express their identity. If current trends continue, the effects of the economic downturn in the UK may increase pressures on many people, threatening aspects of their identities relating to, for example, their financial and employment status. Income inequality in the UK increased during the 1980s, and in the future economic growth will occur more quickly for some than for others; this has the potential to create the conditions for further instances of social unrest. The recession may have long-term effects for those who lost their jobs or were unable to find work, in both their careers and their health.

3.4 Environmental drivers

3.4.1 Place attachment

People have strong attachments to places (local, regional and national) which become part of who they are, and where they feel comfortable and relaxed, and able to be themselves. For example, an individual may describe themselves as ‘a local person’. This can be said to be ‘place attachment’. Evidence suggests that people with strong attachment to place express higher life satisfaction than those with weak place attachment. People’s attachments to particular places are rooted in a sense of security and belonging. Even in a globalised, modern, urbanised society, this sense of attachment is no less important. People can have many attachments to different places.

The Report noted earlier how the distinction between online and offline identities is receding. This means that some people also become part of ‘virtual’ communities, or communities of interest, rather than their neighbourhoods, and so feel less attachment to their physical locality. However, the physical environment remains important to many people and groups, and this is unlikely to change substantially in the next 10 years. New opportunities will emerge from the ‘intelligent’ or smart environment (a place that has been enriched with technologies such as sensors and other networked devices to enhance the services that it can provide to humans), which may lead to even closer identity relationships with place.

A significant driver of change for place identities is likely to be the various energy transitions needed to move UK society towards a low-carbon economy while also maintaining energy security. This will continue to pose considerable challenges including those of changing consumer behaviour to reduce energy consumption, and building new infrastructure, which could affect people’s attachment to place. The Government’s Renewable Energy Directive sets a target for the UK to achieve 15% of its energy consumption from renewable sources by 2020, compared with 3% in 2009. New and upgraded infrastructure will be needed to move the UK towards a low-carbon economy, which could pose a threat to valued local places, communities and landscapes. In the context of large infrastructure developments, some environmentally related identities may be strengthened by the presence or prospect of new energy facilities, while others will be severely undermined. People are willing to protect places that form part of their identities, so changes to valued places, such as natural landscapes, can lead to local communities mobilising themselves in opposition, and even to broader social protest.

3.4.2 The built environment

Environmental and place-based changes in the UK over the next 10 years may have a considerable impact on notions of identity. Some environments, especially green spaces, have been found to be ‘restorative’, providing an increased sense of wellbeing. It is estimated that each year well over half the UK population, 33 million people, make more than 2.5 billion visits to urban green spaces alone. However access to green spaces, especially in urban environments, can be limited for some groups of people. Areas where 40% of the population are from Black and minority ethnic groups, compared to areas where just 2% are from such groups. Changes in these environments can be expected to have negative impacts on place identities and wellbeing.
The connection between identities and place is also potentially significant for community engagement and citizenship\(^{59}\). Public spaces, for example, are open to all, regardless of ethnic origin, age or gender. These spaces influence the cultural identity of an area, are part of its unique character and provide a sense of place for local communities\(^{69}\). Changes to the built environment can therefore be expected to have both positive and negative impacts on place identities and wellbeing\(^{10}\).

The quality, quantity and affordability of housing are crucial factors in people's place attachment to their homes, their sense of belonging, and their sense of attachment to local places. However recent trends in the UK have shown house prices rising beyond the reach of many and declining provision of social housing. This has led to a segmentation of the housing system between owner-occupiers and rental markets, and between different regions\(^{70}\). The number of owner-occupied households has continued to decrease, from the peak of 14.8 million in 2005 to 14.5 million in 2011, while during the same period the number of private rented households rose to 3.6 million in 2011 from 2.5 million in 2005\(^{70}\). In 2011 the percentage of tenants in the social housing sector was highest in London and the North East\(^ {70}\), where disadvantaged households are often living alongside wealthier areas.

The problems of deprived areas can also have impact on people's identities. The 2010/11 English Housing Survey Household Report showed that households living in poverty are more likely to live in homes that have significant outstanding repairs and damp problems than more affluent households, in both the private and social housing sectors\(^ {70}\). Housing and neighbourhood conditions also influence the residential location decisions of those with a choice about where to live\(^ {71}\), suggesting that those with sufficient finance will seek out more affluent areas. Recent research modelled the effects of three of the Government’s proposed changes to Local Housing Allowance rates in London, suggesting that low-income private tenants will be less likely to be able to secure accommodation in some more affluent areas\(^ {72}\), forcing this section of society to cheaper parts of the outer and peripheral areas of London. These areas have relatively high rates of deprivation and unemployment. This suggests that people's sense of belonging and ‘place identities’ will be influenced at least to some extent by the broader environment and circumstances in which they live.

Segregation can also be undertaken deliberately, to form ‘safe’ areas, like-minded communities, or to exclude undesirables. Places such as some shopping malls and gated communities are part of a trend towards privatising spaces. It is estimated that there are around 1,000 gated communities in England\(^ {73}\), principally retirement communities, reflecting the ageing population trend and the decline in extended family support networks\(^ {74}\). While not a new phenomenon, they are a physical manifestation of increased (and increasing) social inequality. They could be perceived as a ‘force for exclusion’\(^ {73}\) and can also signal the privatising of space that was once in the public realm\(^ {74}\). It could be argued that this increasing segregation of social classes could reduce empathy for inequality and social problems\(^ {72}\). Gated communities are often protected with networks of closed-circuit television (CCTV) surveillance or other security provision, which enforce a use of previously public space dominated by individual interests rather than the civic good, where those judged to be unacceptable are excluded\(^ {72}, {76}\). A gated community may have a strong sense of community identity, but potentially at the cost of wider social exclusion.

3.4.3 Environmental change and risk

This section briefly considers the impact on people's identities arising from mitigation of environmental changes such as flooding, heat waves and droughts\(^6\) (see Table 3.3). The first UK Climate Change Risk Assessment (CCRA) published in 2012 identifies some of the most important risks and opportunities that climate change may present to the UK, showing that the UK is already vulnerable to extreme weather, including flooding and heat waves, while flood risk is projected to increase significantly across the UK over the next decades\(^ {77}\). The impact of increased temperatures is a key issue for the longer-term. In the UK in particular, there is a strong perception that this is a cold, wet climate, and a concomitant reluctance to address any need for protection against alternative extremes of weather such as heat waves and drought\(^ {78}\). Some research suggests that resilience among older people ('coping' rather than complaining) could lead to the denial of excessive heat as a risk, with potentially adverse consequences\(^5\). So while many of these changes will occur over a much longer period than is considered in this report, behaviours will need to start to change now to avoid the most serious impacts\(^5\).
Table 3.3: Scenarios for UK Climate Projections: middle estimate.

Note: This does not include surface water flooding.

Disruptions to the environment also have implications for psychological security and can be an important factor for identities and behaviours. Flooding is a major concern which affects people’s lives, mental health and wellbeing, homes and identities. In 2007, flooding cost the economy more than £3 billion in England alone, while in 2009, the Cumbria floods resulted in £100s of millions of damage, including the loss of 20 road bridges and long-term disruption for local communities. Mitigation of environmental changes such as flooding, heat waves and droughts can also affect people’s identities, for example when communities at high risk of floods are relocated. While many may be exposed to such risks, some are better able to protect themselves and their property than others, who are likely to become increasingly vulnerable and reliant upon external support (from local and national government) during a period of financial constraint. The location of specific vulnerable groups in areas at risk (for example, of flooding) means that a clear understanding of people’s identities will be an important factor for the development of resilient communities.

Overall perceptions of the risks arising from these climate change hazards appear to be fairly low. Few people consider themselves at risk of flooding, while rising temperatures are considered benign (or even pleasant). Awareness of heat stress is very low among vulnerable groups. People’s identities may develop to become more resilient to environmental change and risk, and society may plan better for emergencies, but that is likely to take time. Increasingly consideration is being given to the complex ethical, social and behavioural aspects of climate change. The scenarios developed for this Report explore some of the potential impacts of environmental disruption through the example of Dylan (Box 3.8: Dylan 2019).

**Box 3.8: Dylan 2019**

*These scenarios illustrate how drivers of change may affect individuals in different contexts*

In 2019, Dylan starts drawing his pension but he carries on working regardless – partly by choice and partly due to circumstances as he has his elderly mother’s care home fees to pay for. He remains reluctant to accept any financial help from his daughter, who is now living in Bristol. He does accept help from her with accessing online services, and she helped him to vote online in the local election that year. He was unable to get to the polling station in person owing to some of the worst floods in Wales for years. Having witnessed past environmental disasters such as the 1966 Aberfan disaster, Dylan has a strong environmental consciousness and is concerned by the apparent increasing frequency of flooding events. Although their own property was, fortunately, not flooded, repair work in the village meant that Dylan and his wife were without internet and phone access for some time. Although his wife was frustrated at the additional difficulties caused by this, including being unable to contact their son overseas, Dylan appreciated being away from various technological distractions and felt that there was an additional sense of community in the village as everyone helped each other out.
Summary

The strong attachments to places that many people have can be a core part of forming identities. Living and working environments affect levels of life satisfaction, health and wellbeing. The importance of the physical setting is unlikely to change radically in the decade ahead. Where people live is an important component of their identities, and so the quality, quantity and affordability of housing is a potential driver of change for identities, while living in an area of deprivation can also affect identities. Over the next decade there are likely to be changes to the environment through measures to address flooding, for example new housing development and infrastructure, which could have an impact on people’s identities.

3.5 Political drivers

3.5.1 Trust

In the UK there has been a long-term trend of declining trust in figures of authority, from politicians to police officers, which is likely to be linked in part to the decline of political engagement and changes in the notion of citizenship. The proportion of people who respond ‘Almost never’ to the question: ‘How much do you trust British governments of any party to place the needs of the nation above the interests of their own political party?’ increased from 11.8% in 1986 to 33.5% in 2011. Alongside this, there could be a gradual shift in the relationships between the citizen and the state over the next 10 years, as government tries to renegotiate the rights and responsibilities of citizens, for example in welfare, health, or education, where people are expected to take more responsibility and the state becomes smaller. Less reliance on the state may have a positive effect on trust and citizenship for some groups, particularly those with stronger community identities and high levels of social capital. Highly interconnected local, voluntary associations, combining with stronger local leadership able to hold politicians and the state to account, might lead to higher levels of trust in society, and perhaps also to increases in political trust. However, for some more vulnerable groups, the lack of trust in authority combined with the drive to shift responsibilities to individuals may create difficulties.

Over the past 10 years, turnout at general elections has been lower than in previous decades (Figure 3.6). There has also been a decline in affiliation with the main political parties, although this may be due in part to the perception that there are few differences between the main parties. These long-term trends for reduced trust and political participation seem likely to continue, unless circumstances change to increase political engagement.
In recent years the share of the vote going to minor parties (not the main three political parties) has been rising, although it is important to recognise that support for minor parties has very different sources. Support for the Green Party tends to be greater among younger, highly educated citizens. Older, less educated, more disadvantaged voters, or those who feel threatened by immigration (the perceived competition for jobs and the perceived threat to their identity by different value systems\(^9\)), are more likely to support the UK Independence Party, or possibly the British National Party. While current trends suggest that support for minor parties both on the left and the right is likely to increase, the rate of change is likely to depend on the extent to which government is able to resolve issues with the economy, immigration, and the environment in ways that address citizens’ current grievances. It is unlikely that there will be a ‘tipping point’ in the next 10 years where a minor party might gain an overall win in a general election, but minor parties and independent candidates are already being more successful, being elected as MPs and MEPs\(^{vii}\), while coalition politics are already a reality.

Alongside the decline in trust in authority, there has been rapid growth over the past few years in surveillance and the collection of personal data by both the state and private companies\(^{191}\). While some of this surveillance may be broadly popular with citizens (such as some uses of CCTV), the range of data collected to provide online services, to support investigative efforts (such as mobile phone records) or to support consumer profiling is likely to affect the relationships between the state, citizens and commercial organisations. Pervasive surveillance may reduce the ability to build trusting relations between people, and between people, organisations, and the state. The scenarios developed for this Report consider this issue through the prism of Dylan’s life, showing how in 10 years’ time he could feel confused and disenchanted by all the changes which have affected him (Box 3.9: Dylan 2023).

\(9\) Member of the European Parliament.
3. Drivers of change

Box 3.9: Dylan 2023

These scenarios illustrate how drivers of change may affect individuals in different contexts

By 2023, and now aged 70, Dylan feels he is having a good life overall, but not without its challenges and disappointments. It seems to him that businesses seem to know all about him now and he is confused and resentful over how they have got this private information. It seems to him that while things have really changed in the past 10 years and the world is more complicated, things have not got any better. If anything, he has had to work even harder to look after his family. Consequently, despite being a lifelong Labour supporter, he is seriously considering voting for Plaid Cymru for the first time at the next general election. Dylan is disenchanted with the outside world and concerned about his future.

The same trends have, however, increased citizens’ abilities to monitor and access information about the authorities. Young people’s experiences of using the internet tend to include phenomena such as peer-to-peer sharing and Open Access resources. These may be transforming the concept of democracy and may have a significant impact on political identities. Politics is being fundamentally influenced by these trends towards a model of greater openness, transparency, and shared identities. Younger people are more likely to identify with libertarian rather than authoritarian values compared with older generations. If this group keep their values as they enter middle-age and replace older cohorts, Britain may become more libertarian as a whole. This may be more likely if these younger people fail to benefit from social and economic structures. However, if they do become wealthier and more invested in the status quo, they may become more right-leaning as they grow older.

Trust and civic engagement are not solely dependent on citizens’ attitudes towards authority, but are also embedded in the connections and associations that citizens form themselves, as well as the structures and mechanisms designed to constrain the actions of government and the private sector. While people no longer believe that politicians ‘know what’s best’, there is little evidence that trust between citizens is similarly falling. Indeed, people are often more willing to trust in those they know personally.

Since 2010, the Coalition Government in the UK has implemented far reaching reforms, including a programme of public spending cuts and tax increases from 2010 to 2015. The reforms also include a restructure of state services, involving a significant transfer of responsibility from the state to the private sector and to the citizen, with the aim of creating a welfare system that rewards work, and an education system that encourages achievement and drives social mobility. People are increasingly expected to take on personal responsibility for providing for themselves and to guard against the consequences of becoming more vulnerable, for example through provision of pensions. However, for some people it may be very difficult to adopt such a future-oriented identity, in part because of the difficult economic climate and the trend towards greater social plurality, and so the extent to which people can take responsibility for themselves and plan for the future may be uneven.

3.5.2 ‘Britishness’

Since 1992, the percentage of people in England who thought of themselves as primarily or exclusively ‘British’ declined from 63%, to 39% in 2006. In Scotland, 25% of people thought of themselves as British in 1992, declining to 14% in 2006, while growing numbers of people thought of themselves as Scottish, Welsh or English (or none of these) rather than British. A strong sense of belonging to Europe as an identity remains very rare in the UK, although European identities are somewhat more common among younger people than they are among older generations. People with ‘civic’ rather than ‘ethnic’ conceptions of national identity tend to be less hostile to Europe and to support greater European integration, and these views tend to be more...
common among the young and highly educated. Conversely, there is also evidence that the ‘white working class’ continue to draw on an ethnic rather than civic definition of ‘Britishness’. As a consequence, inequality of opportunity for this group is attributed to the presence of minority or migrant groups rather than being viewed through upward social comparisons. This perception continues to provide fertile ground for the potential rise of far right politics in the UK and is likely to continue to do so over the next 10 years.

Trends such as globalisation, ease of travel, new technology, constitutional changes, and social and intergenerational changes may affect national identities. Age seems to be a key factor. For younger people (16–24 year olds) in terms of their sense of belonging to Britain, in 2010 only 41% felt that they ‘Belong very strongly’ to Britain (Table 3.4). However, the older age groups exhibit steadily increasing levels of belonging, reaching 74% among respondents aged 85 or over. As older generations are replaced by younger generations, a sense of belonging to Britain and British national identity is expected to decline over time if people keep their present views.

Table 3.4: Home Office Citizenship Survey 2010 asking people to rate whether they feel they ‘Belong strongly’ to Britain.

There is no simple relationship between national identity and constitutional preferences. In Northern Ireland, there is some evidence that the relationship between national identity and constitutional preference is weakening due to decline in support for a united Ireland among those who report an Irish identity. For Scotland, around half of those with strong Scottish identities nevertheless say that they would prefer Scotland to remain part of the UK. Given the modest effects of the 1997 devolution arrangements in the UK on national identities, it is unlikely that further devolution for Wales or Scotland will have major implications for British national identity. However, if Scottish independence were to lead to a reduction in the notion of ‘Britishness’ and an increase in ‘Englishness’ as an identity, this could lead to an identity crisis for ethnic minorities, who typically are less able to access an ‘English’ identity.
Some evidence suggests that many citizens of the UK still favour dual identities (for example, British and English, or British and Welsh). A survey in 2010 showed that 37% of those born and living in England said they felt only or mainly English and 46% felt equally English and British, while in Scotland 73% felt only or mainly Scottish and 21% equally Scottish and British. Most minorities have both ethnic and British identities, reinforcing the multiple and overlapping nature of many identities. In the scenarios developed for this Report, Esther embraces Scottish identity alongside her British identity, but still feels she is an outsider (Box 3.10: Esther 2023).

Box 3.10: Esther 2023

These scenarios illustrate how drivers of change may affect individuals in different contexts

In 2023 Esther is 32 years old and working as an art curator in a small museum near Glasgow. She feels settled in Scotland and intends to remain there permanently. However, she does not feel accepted by many Scots as she thinks that they continue to view her as something of an outsider, even though she has embraced Scottish culture. Esther is aware that she doesn’t entirely fit in and her Yorkshire twang hasn’t entirely gone, but feels both British and Glaswegian all the same. She is attached to Scotland and feels a sense of community there. Partly to try and fit in, she has joined the SNP and is taking evening classes to learn traditional Scottish crafts. She is often online in virtual ‘cafés’ where she maintains a large social network of people from across the UK and internationally, and feels as close to her virtual friends all over the world as she does to her friends in Glasgow.

Minority ethnic groups tend to have fairly strong levels of identification with a British national identity (Figure 3.7), which can be even stronger among the younger generation. People of Pakistani and Bangladeshi heritage express particularly high levels of British identity. A strong religious identity can also coexist comfortably with dual national or ethnic identities. There is no evidence that Muslim Pakistanis, for example, are more inclined towards ‘separatist’ identities; if anything the reverse is the case. Muslim individuals who identify strongly as British can see their Muslim identity as reinforcing their sense of ‘Britishness’ through shared moral values. For these people, the experience of being viewed as ‘other’ (for example, through counter-terrorism measures such as being stopped and searched) is experienced as profoundly negative because it questions the validity of a highly valued aspect of identity. These measures can be counter-productive if they make ordinary British citizens feel under suspicion. Negative experiences can lead people to feel that they are less able to influence fellow Muslims to engage in mainstream society, and even encourage them to be sympathetic towards more confrontational Muslim views. The actions and rhetoric of the majority White British community will affect how minority groups feel or react to perceived injustices.
Summary

In the UK, there is a long-term trend of declining trust in figures of authority, from politicians to police officers. This trend is reflected in political fragmentation and the rise of single issue political parties. Social changes are driving people’s national identities and the extent to which they identify as ‘British’. Over the timescales of this Report, there may be only gradual change to identities in terms of partisanship and national identity. However, as the scenarios showed using the examples of Esther and Dylan, individuals are affected to varying extents by these trends (see Box 3.11: Scenarios summary).
Box 3.11: Scenarios summary

These scenarios illustrate how drivers of change may affect individuals in different contexts

**Key message**
Dylan and Esther's stories show that over 10 years of their lives, different aspects of their identities become of greater or lesser importance depending on their circumstances. For Dylan, family relationships and his local community continue to be key parts of his identity, while he tries to move with the times by beginning to explore the internet but with a sense of being a trespasser into a world he does not yet fully understand. For Esther, the decade is one of trying to develop herself as an independent adult, within the constraints of economic austerity. For both individuals, wider trends affect their lives and identities, but at some times these drivers of change are subsumed by more pressing local or personal concerns.
4. Challenges and opportunities

Over the next 10 years, UK government policy makers will have to respond to a variety of new opportunities and challenges affecting people’s identities. While some traditional categories of identity are unlikely to change significantly, other aspects of identity and the expression of identity will change relatively quickly. The main themes which will characterise this period of change will be hyper-connectivity, a more pluralised society, and blurring between public and private identities. The pace of change in these areas appears to be increasing, being partly driven by the internet facilitating online communities of interest. It will be critical to understand the context-specific nature of people’s identities, as they alter according to circumstances. The implications are that policy will be more effective if the evolving and complex nature of identity is considered during the process of developing and delivering policy. The Government is already moving towards making fuller use of the digital environment by providing services online, and through ‘Open Policy Making’.

This Report reinforces the importance of this approach, while suggesting key areas where attention will need to be focused.

This chapter draws on the evidence discussed in Chapter 3 to explore specific challenges and opportunities for policy makers over the next 10 years. The drivers of change identified in this Report indicate that traditional social and biographical categories of identity (age, ethnicity, religion, nationality, local community, and political allegiances) will continue to exert influence, but are unlikely to show any significant change, and may gradually become less important. Some drivers are likely to lead to much more rapid change in identities. The impact of social media, the development of increasingly dense networks of information, and rapid developments in mobile communications technology will continue to transform the ways in which people interact both locally and globally. Three overarching themes will be central to this more rapid change over the next 10 years: hyper-connectivity; increasing social plurality; and blurring between public and private identities. These are discussed in detail in the following section. The chapter goes on to consider the potential implications of changing identities for specific areas of government policy: social mobility; social integration; radicalisation and extremism; health, environment and wellbeing; skills, employment and education; and crime and criminal justice.

4.1 Key themes of changing identities

From the wide range of evidence on identities considered in Chapter 3, three important overarching themes were identified which merit particular attention by policy makers:

- **Increasing hyper-connectivity:** people can now be ‘connected’ at all times. There is convergence between online and offline identities, as the digital divide dissolves, especially for the younger ‘Generation Z’. Identities are becoming more susceptible to change, and highly context-specific.

- **Increasing social plurality:** this means that identities are becoming more varied, and less reliant on traditional social categories. However, since a decade is a short time span for significant social change, a trend of gradual evolution and relative stability should be expected in some areas, such as religious identities.
• **Blurring of public and private identities**: attitudes to privacy are changing and people are more willing to place private information about themselves into public domains, and to cede control of their identities. The result is an increasing convergence between private and public identities.

Each of these themes is discussed briefly in the following sections. They provide a starting point for policymakers to consider how the many trends and issues set out in Chapter 3 might together create particular challenges and opportunities for society as a whole.

### 4.1.1 Increasing hyper-connectivity

The trend towards hyper-connectivity suggests that changes in social and technological environments will combine to exert a particularly important influence on people’s identities. In particular, the increasing speed and mobility of internet access, together with greater take-up and penetration into all aspects of people’s lives, will act to reduce meaningful differentiation between online and offline lives and identities, and could increase the pace and turbulence of social change.

Digital technology is transforming the ways in which young people, in particular, manage their social relations and identities\(^2\). The term ‘swarming’ has been used to describe how people can use mobile technology to keep in touch with large numbers of other people and to organise impromptu gatherings\(^2\). In terms of identities, this means that increasingly, young people no longer see themselves as members of one distinct social group, but belong to several more amorphous groups. Hyper-connectivity can also enable the mobilisation of groups, using identity as a resource for social or political change. These mobilisations may take the form of ‘flash mobs’ which are rapidly organised using varied media, often dissipating as quickly as they appear. Younger people are much more likely to be hyper-connected, and this may strengthen and facilitate new protest movements, for example drawing attention to social, political, environmental or global issues, and mobilising protestors, including people who were not previously associated with any radical action. The impact of the equally hyper-connected media environment can amplify and add momentum to such movements, creating larger-scale public issues which could be unanticipated.

The rapid speed of modern globalised communications creates an environment for identities in the UK to be influenced by issues and events emanating from Europe, the USA or further afield, with new communities of interest continually forming and dispersing. This has many positive outcomes for society, including increasing awareness of global events, but this trend could also add a further layer of uncertainty and volatility. Therefore, a particular challenge posed by hyper-connectivity will be the potential for greater social turbulence which could be difficult to predict or anticipate. Policy makers will need to be alert to adverse consequences caused by these kinds of changes, as they could challenge social order. However, it is important not to see changing identities as a threat to society\(^2\), as this could itself generate a negative reaction with possibly undesirable consequences\(^1\). Hyper-connectivity could enable some people whose work and home identities, for example, come into conflict, to achieve a more integrated and coherent sense of self\(^2\).

A further challenge is raised by the sheer speed of communications. Hyper-connected citizens may well expect government to respond with similar swiftness and to be able to react in real time to current events, or at least to act more quickly. They may also expect that government should draw upon a good understanding of the different identities and perspectives involved. This high expectation of agility and responsiveness poses a real challenge for policy makers. While policies that are responsive to changing identities are likely to be more effective, equally there are dangers in being either over-reactive or superficial. A compromise will therefore need to be found between responsiveness and agility, and the more measured approaches that have been used by policy makers in the past.
4.1.2 Increasing social plurality

The evidence reviewed in Chapter 3 suggests an overarching trend towards greater social plurality or heterogeneity in UK society. The norms to which people conform in their behaviour or their views may become fewer, and world-views could become more diverse. Drivers of this trend include: the shifting demographics of an ageing population; larger numbers of dependants (older people and those under 16) depending on a smaller working population; greater diversity with a larger proportion of minority ethnic groups, spread more widely around the UK; changing patterns of immigration especially from the EU; the economic downturn, which inevitably affects sections of the population in different ways; the fragmentation of political affiliation and declining party political engagement; and developments in communications technology, transforming the way in which people group themselves to form new dispersed or ‘virtual’ communities. These drivers of change acting together may diversify society into less integrated, more transient groupings, creating a plurality of groups and individuals.

There may be greater differentiation of age-related identities, reflecting both demographic change and possibly the diverging economic interests between age groups. A key issue for policy makers is the potential long-term effects of the recession on the identities of those who lost their jobs, or on young people who were unable to secure jobs, bearing in mind the evidence for greater income inequality in the UK discussed in Chapter 3 and the possibility of more segregation between the very wealthy and the long-term unemployed or low-income families.

Increasing social plurality does not necessarily imply greater conflict or a threat to social solidarity. Rather, it suggests a society based on difference (personal and social) as opposed to similarities or notions of the average. For example, online ‘virtual’ communities of interest can provide a new focus for group identities and support networks. For local communities based on geographical identities, local issues such as longer-term environmental change or shorter-term challenges from infrastructure projects may result in communities coming together in response to specific threats, or opportunities.

As the horizon of this Report is only a decade ahead, and some trends change very slowly, there is likely to be only gradual evolution or stability of some aspects of identities. The evidence set out in Chapter 3 suggests that religious, class and national identities are likely either to decline on average or to remain relatively stable over the next 10 years. It is possible that there could be a revival of strong religious identities, for example in response to some major event, but the most likely course is for gradual secularisation among most major faiths. Within this general trend, there may be some variation, with a potential increase in ultra-orthodox identities within some religions, for example among Jews, evangelical Christians and Muslims. To some extent, long-standing religious identities support social integration, as they encompass large groups of citizens in shared group identities.

It seems most likely that there will be only a very gradual change in British, Scottish and other national identities in the UK, although this could be influenced by the outcome of any future referenda, for example on Scottish independence. To some extent, and in some circumstances, these national identities bring groups of people together in a shared identity; and so they are also a factor in social integration.
4. Challenges and opportunities

4.1.3 Blurring of public and private identities

Attitudes to privacy are changing and people are more willing to place personal information into public domains, such as social media, giving rise to a convergence between previously private and public identities. Posting mobile phone photographs and videos online has led to a cultural shift, where many people broadcast their daily lives and experiences, creating a virtual autobiography, rather than protect their privacy. Younger people tend to be less concerned with privacy, but it is entirely possible that, over time, the amount of information about them available online will begin to be used in unexpected ways. They may not fully understand the extent to which they have ceded control of aspects of their identities to private sector companies. The need for government to balance the conflicting needs of security and the public good, with protecting privacy and individual liberty is already well established. However, the ever-increasing amount of private and public information creates potential benefits through better targeting of services and greater responsiveness from organisations and government.

Surveillance technologies operated by the state and by the private sector offer opportunities for greater protection and public security, but there are also broader social effects to consider. The level of trust between citizens and authority is critical to issues such as holding, protecting and regulating personal data, and the use of ‘big data’ sets. For example, the ability of young people to explore and establish their own identities might be restricted if they feel that controversial views, or involvement in social protest, might count against them later in life. Citizens could feel their identities are potentially subject to scrutiny and judgment, and that this might undermine their freedom of expression and damage their trust in the state. There are currently many forms of resistance to the collection and analysis of personal data by individuals, campaign groups and civil liberties organisations. People and groups might, for example, adapt their behaviour in order to avoid being tracked, or use surveillance technologies to record and reflect the behaviour of the authorities, such as when demonstrators film the police. There is also direct action against surveillance technologies, including attacks on speed cameras, organised campaigns and freedom of information campaigning organisations. As the collection and analysis of personal data intensifies, resistance may increase. These forms of resistance have the potential to influence people's identities, both at the level of the individual and the group, in the future.

Summary

Citizens will increasingly be characterised as hyper-connected individuals who make choices which reflect their identities. Simple categorisations based on ‘traditional’ notions of identities are likely to become less meaningful in the digital age as it gathers pace over the next decade. To be effective, policy makers will need to engage with citizens at a number of levels, online and offline, and be more agile in responding to the challenges of a digital environment.

These three themes taken together suggest the following implications for government:

- **There is a clear case for government to take a more detailed and nuanced consideration of identities when developing, implementing and testing policies, for example in initiatives such as Test, Learn, Adapt, and draw upon a deeper scientific understanding of people’s evolving identities to improve the design and effectiveness of policies.**

- **The increasing speed and connectivity of information technology systems, which is a key driver of these effects, also offers opportunities for both monitoring what is happening in real time and assessing the effectiveness of specific policies.**
Together, these would enable policies to evolve in a faster, more effective, and more reflexive manner. In some cases, it may be possible to learn from problems and adapt policies in real time. However, further work would be required to address questions over how this could be achieved in terms of technical feasibility, the value of different media in providing feedback, and whether the public would be willing to accept more iterative policy making and actively contribute to its improvement, such as through Open Policy Making\textsuperscript{viii}. There are examples that show how a better appreciation of different identities can offer new insights for policy makers, such as field research which demonstrates how self-identities, personal norms, and neighbourhood identification can be used to predict recycling behaviours, showing that pro-recycling interventions can promote positive behaviours by appealing to self-identity and making people feel like recyclers\textsuperscript{210}. Other projects have used identities to build social capital, for example among young people from urban minority ethnic groups in London. A programme designed to raise self-esteem, and discourage involvement in crime and participation in gangs, used a contextual understanding of their experiences of school and ‘street life’, family and social relationships, and explored how trust, awareness and self-empowerment might be generated\textsuperscript{211}.

4.2 Implications for specific areas of policy

This section discusses how the evidence set out in Chapter 3, and the three overarching themes discussed above, may have influence in six important areas of government policy over the next decade. It sets out some of the key challenges, opportunities and questions for policy makers to address. However, because of the wide-ranging nature of this Report and the many pervasive effects of identities on a wide range of government policies, the areas chosen are illustrative rather than exhaustive. The areas considered are:

- Social mobility
- Social integration
- Radicalisation and extremism
- Health, environment and wellbeing
- Skills, employment and education
- Crime and criminal justice

4.2.1 Social mobility

The trend towards greater social plurality with a variety of multiple, changing identities, means that mapping and understanding social mobility will become more complex in future. Some of the trends suggest there will be more divergence between groups, which may make social mobility more problematic by increasing barriers for more marginalised groups. Perceptions of unfairness in access to opportunities, rather than actual inequality, may in turn reinforce certain kinds of social identities and increase the potential for collective action. However, as access to the internet and hyper-connectivity increase, information and education may become more freely available and shared, enhancing life opportunities for many individuals. There are challenges over the extent of digital provision and differential access between generations, between social classes, and between geographical regions, which may favour some people over others. The extent of digital literacy as an enabler of identity expression is likely to remain a key policy issue.

\textsuperscript{viii} ‘Open Policy Making’ is a way of making government policy making more open to external influences, and more contestable, through shared power, transparency, real-world testing and iteration\textsuperscript{205}. 
The key challenge will be to understand and monitor inequalities of opportunity and perceptions of unfairness, especially for vulnerable subgroups. Vulnerable subgroups include not only the ‘equality groups’ identified in the 2010 Equality Act, but also groups such as young people, who could become marginalised by the labour market and who may suffer long-term effects due to the recession. Inequality or lack of social mobility does not in itself necessarily entail conflict. Perceptions of fairness in the allocation of rewards, and fair routes of access to privileged positions, appear to be more important than income inequality.

While general policies designed to promote social mobility will continue to be important, some vulnerable groups may face distinct barriers that might not necessarily be addressed by more general policies. Understanding the nature of the barriers faced, and developing policies tailored to address them, will be important. Such barriers might include ones such as the ‘chill factor’, where individuals do not feel welcome in certain environments and so are discouraged from entering them, thereby excluding themselves. Attracting such groups will require effective outreach programmes based on a sophisticated understanding of the self-identities of individuals in the target groups.

Digital technology will play an ever-increasing role in the development and expression of identities. Therefore, levels of access to the internet and computer skills for individuals will be important for society and for the UK, potentially playing a key role in global competitiveness. Given that identities are both a social and personal resource, it will become even more necessary to ensure equality of digital access, freedom of expression, and security. There is a danger that full engagement with the digital environment might remain largely a middle and higher-income preserve, which may create new forms of inequality while potentially entrenching existing ones more deeply. However, there are also opportunities to increase equality of access and facilitate greater social mobility. The UK’s focus on digital network provision and access will remain important, particularly in relation to higher access speeds, mobile and fixed access, and for disadvantaged rural communities.

4.2.2 Social integration

The trend towards great social plurality, demographic trends and the gradual reduction in importance of some traditional aspects of identity, suggest that communities in the UK over the next 10 years are likely to become less cohesive as traditional identities become more fragmented. However, hyper-connectivity can also create or strengthen new group identities. Policy makers will need to understand how policies affect individuals differently, taking into consideration indirect as well as direct impacts, and any unintended effects of government policy and social change. These will not always be immediately apparent, so continued monitoring and evaluation will be needed. There will also be opportunities for policy to support social integration and acknowledge new forms of community as they emerge.

Trends explored in Chapter 3, including demographic change, immigration, diversity, the ageing population, and the economy, are likely to influence people’s identities and expectations. Young people may have very different expectations from previous cohorts in terms of wealth creation and debt, home ownership, careers and stability. Uncertainties over future economic growth may also give rise to a lack of feeling of belonging, and less social investment for the future by some groups. This may raise issues for personal debt management and saving, affordable homes, and the labour market. The growth in the so-called ‘sandwich’ generation, who have responsibilities for both childrearing and elderly care, also has implications for social policy as this group may demand greater recognition and, potentially, assistance, financial or otherwise.
Over the next 10 years, identity will continue to be a driving factor in social protest\(^{10}\). In understanding protest, it is important not to oversimplify the way in which the dynamics between groups can play a part in creating conflict, and the way in which relations between underprivileged local communities and the police can create tension\(^{10}\). In the aftermath of the recession, there is a risk that the negative longer-term impacts of unemployment and reduced opportunity could affect particular social groups, such as those already living in disadvantaged areas or in poverty\(^ {10\,\,15}\). For example, it is well known that high numbers of young Black people are not in education, training or employment\(^ {16}\). A nuanced understanding of the relationship between groups would address the differentials and, since people’s identities are multifaceted, policies which reinforce this complexity rather than dwelling on single group memberships could lead to greater social integration\(^ {11}\).

Policy makers should take into account the potential impacts of their policies on a range of different identities in particular contexts, including indirect social consequences. The peace process in Northern Ireland gives some indication of how this challenge can be approached through an understanding of the role of political and cultural identities in resolving conflict\(^ {7}\). The spread of liberal and more civic identities and values may provide an important resource for more inclusive forms of participation and a more tolerant society\(^ {14}\). There are opportunities for policy makers to reduce conflict, prejudice and discrimination, and promote policies which encourage social integration. Consideration could also be given to the validity of new forms of virtual and other transient communities to see how they can support individuals.

Lack of social integration can also occur as a result of individuals restricting their social and civic involvement, and becoming socially isolated, which restricts the development of positive social identities in favour of excluded group or individual identities. Consideration will need to be given to ensuring that such vulnerable communities are not neglected.

### 4.2.3 Radicalisation and extremism

**Trends in changing identities in the UK over the next 10 years will be a crucial factor in understanding extremism and radicalisation. The trends towards greater social plurality, declining trust in authority, and increasing take-up of new technologies may all pose challenges for policy makers seeking to manage these issues. It will be important for policy makers to consider how decision making might affect some group identities and be a possible catalyst for negative reactions.**

The evidence on changing identities set out in Chapter 3 suggests that while there is the potential for radicalisation and extremism driven by hyper-connectivity and increasing social plurality, it is important to recognise that the translation of potential into collective action is unpredictable, and depends on various triggering events or mobilisation activities. This unpredictability increases the need for flexibility, and care in planning and responding to events.

This section does not address extremism in, or radicalisation of, any particular groups but considers the underlying factors which could potentially drive extremism or radicalisation in the future. The themes set out earlier in this chapter suggest that individual, political, and social identities will become more volatile, as people may come into contact with new ideas, form new links and connections online and offline, and form new or transient communities of interest. Identity can be a resource for social upheaval, or resistance to change, or can become a locus for protest. As discussed earlier, it can also be a resource for cohesion and resilience.
4. Challenges and opportunities

Extremism includes a range of behaviours which have different motivations and ideologies, and it is important to differentiate between legitimate protest and criminal behaviour. Extremism could encompass far right groups, animal rights extremists, anti-GM protesters, Islamic radicals, or a range of other groups, including ones which cannot be foreseen. While the actions of many such groups will be entirely legitimate or benign, some groups may form around more radicalised or extremist ideologies, including some with authority-challenging behaviours. One major challenge could be in preventing a rise of the far right, or increasing xenophobic rhetoric, where effective policy interventions could be informed by an understanding of the impact of current policies, for example where they may have unintended consequences by excluding particular identities.

Much of the concern about the potential for radicalisation, for example in Muslim communities, is focused on the exploitation by radicals of individuals made vulnerable to radicalisation, whether through family or social rejection or negative experiences with authority. In this context, it has been argued that radicals can offer the solace of a cohesive group. The role of online channels is often seen as crucial in providing support and information to facilitate radicalisation. It is true that the internet may provide a medium in which extreme views can become accentuated and normalised, but such material can also be placed online precisely because it is ineffective offline. At the same time, the internet can provide a platform for open debate and challenge. So while hyper-connectivity may link individuals in the UK with radicalised groups based elsewhere, it can also provide alternative and more moderate viewpoints.

4.2.4 Health, environment and wellbeing

Places are very important to forming and understanding identity. A strong sense of ‘belonging’ to places, families, and communities can promote wellbeing. Policies which could disrupt place identity may therefore have implications for city development, planning, building, infrastructure and transport, where potential impacts will need to be managed sensitively to avoid unnecessary distress. Places can be restorative, and so policies which promote green spaces and protect the countryside can be important for health and wellbeing. The development of biomedical technologies could potentially be transformative for how people relate to themselves, others, and their environment: but there are complex ethical and practical implications for government in regulating and responding to them.

Chapter 3 sets out how environmental and place-based changes over the next 10 years may affect people’s identities. ‘Place’ is a key context for identity, as people respond in complex ways to their immediate environment. Environments such as green space and countryside can foster wellbeing and be ‘restorative’, while adverse environments can cause stress. The impact of environmental disruption can be disruptive for place-based identity. Policies in planning, transport, infrastructure and development which could potentially threaten place identities will need to take into account the potential impact on individual and community identities. The importance of preserving green and publicly accessible open spaces, and designing restorative environments should be considered within the context of identity and wellbeing.

Place and how people relate to the physical world are likely to be closely affected by new and emerging technologies. In the future, the emergence of an ‘intelligent’ or smart environment could lead to even closer relationships with place; for example, mobile technology enables people to be hyper-connected even in a very remote place. Tracking and identification technologies could change people’s relationships with places. In time, some of these technologies may become more readily available and be integrated into ‘smart’ fabrics and clothing, or even bodies.
Biomedical technological developments are likely to gather momentum over the next 10 years. This could raise important philosophical questions about the nature and normative limits of human identity, and about the ethical implications of using biomedical technologies to alter human identity\textsuperscript{212}. This may include ‘enhancement’ technologies, which can be closely related to individual identity and cultural expectations, relating to cultural norms and perceptions. These affect ascribed identities, with implications for marginalisation, inclusion and exclusion.

Biomedical technologies may increasingly remove distinctions between those with disabilities and those without, as well as blurring traditional age, gender, and role boundaries. Some of these developments can be expected over the next decade. Since all these developments are resource intensive, they also raise the possibility of reinforcing inequality between those who have more and those who have fewer economic resources. They raise potential questions about the control of an individual’s body and privacy if, over the longer-term, technologies that are invasive of brain activity and bodily function begin to be used. There is already an extensive literature in this area discussing the profound ethical and practical implications for governments, policy makers and healthcare workers as they regulate and fund health, medicine and social care.

4.2.5 Skills, employment and education

Digital literacy is essential to enable people to make full use of computing and the internet to express their identities, and to connect with social media, services, and information. This section focuses on raising awareness of the permanence of personal information available on the internet. Digital literacy will also be crucial to address a potential skills gap to enable the UK to be globally competitive in making best use of the technology revolution. A key issue for the future will be to ensure adequate levels of technological literacy across all social groups, to enable individuals to take control of their own online identities, and to be aware of their online presence and how it could be used by others.

As hyper-connectivity increases, people need to have a well-developed level of technological literacy to be able to express their identity online effectively and to manage different aspects of their online presence safely. To enable this, communications technology and computer skills must continue to be a key part of policies on skills and education from an early age, and be taught to a quality standard with a well-informed perspective on what level of skills will be needed in the future. Ensuring these skills are taught properly will also be critical for the workplace, as IT proficiency will be of growing importance for employers. In practice, the benefits will not be realised without a substantial investment in the education of a trained workforce. At present, there is likely to be a skills shortage which could prevent the UK from realising the potential of its workers, and potentially inhibit economic growth. There is a significant opportunity to address the potential skills gap, especially for high-tech industries, to make sure the UK is best placed to reap the benefits of new technology\textsuperscript{115}.

The evidence in Chapter 3 shows that rising numbers of people have some digital presence whether they choose to or not. This can potentially affect their future employment, as employers increasingly check online information, and can cross-reference between different online platforms which are often themselves interconnected. The persistence and availability of data on the internet means that social and biographical identities will overlap to a much greater degree, for example across personal and professional spheres. Private lives are likely to become more public, especially among younger people who have a more open attitude to their personal privacy. Personal information could be made available to unintended audiences, with potential consequences for future careers. Such information could be increasingly used by employers for informal vetting, or to identify likely recruits\textsuperscript{213}. Raising public awareness of these issues will be critical in helping people to manage their online identities. Computer literacy skills for younger people as well as older people will be important to allow people to access and curate their online identities, and to protect themselves by understanding how personal information online can be cross-referenced and used, and how difficult it is to remove data from the digital environment.
As an ageing population and older workforce creates changing identities, inequality in digital knowledge and skills, particularly among older workers and the retired elderly, will need to be addressed. These groups are among some of the most rapidly connecting, and with devices becoming more intuitive and evidence of strong inter-generational support (certainly within middle/higher-income groups), many among these cohorts are digitally literate. However, there still remains a significant need for lifelong education to ensure the greatest possible numbers of people are employable, active and able to live full social lives.

4.2.6 Crime and criminal justice

The drivers of change for identities suggest a complex picture in the field of law enforcement and the UK’s legal system and jurisdiction. The growing quantity of personal and financial data online means that there will be more opportunity for criminal exploitation: however, there are also opportunities for enhanced crime prevention, intelligence gathering, and crime detection. ‘Open source’ intelligence will become more important for detecting patterns of criminal behaviour, but the quantity of data available will make the location and analysis of relevant data more problematic, and will require the right skills and resources. The police and other organisations will need to take account of the multifaceted and dynamic nature of identity, while the legal system will need to continue to ensure that people’s identities online and offline are protected.

Crime and crime prevention

Themes such as greater social plurality, hyper-connectivity and the blurring of public and private identities could all have implications for crime and security. While many of the current opportunities for criminal exploitation will continue to expand over the next decade, there will also be greater opportunities for crime prevention and detection, and for intelligence gathering and policing. Growing quantities of personal and financial information online will lead to more criminal exploitation of such data. Crime analysts have begun to use software for social network analysis to analyse criminal networks that use the internet to discuss their activities, plan, and learn new methods.

The evidence in this Report suggests that identities are complex, multifaceted, and contextual. This suggests that profiling of criminals, or potential criminals, based on stereotypes is unhelpful. Using ‘average’ profiles for different groups as a basis to predict behaviour or identify individuals of potential interest may be of limited effectiveness, because such an approach fails to recognise the diversity of identities. Nevertheless, technological advances can assist in tracking people online and verifying that they are who they claim to be, as a method of crime prevention, through improved verification techniques such as facial recognition technology, tracking digital ‘footprints’ created by regular patterns of using pathways and networks, and greater sophistication in identifying irregularities in behaviour that could indicate potential criminal behaviour or victimisation. Textual analysis can similarly be used to reveal irregularities in style and content that may indicate that the individual is committing a crime, or being victimised. In theory, in future it will be possible to identify an individual merely by their actions. It seems likely that some aspects of online criminal behaviour could in future become harder to hide. However, there is also the potential for mistaken association, where innocent behaviour is tagged as potentially criminal, or ‘trial by algorithm’.

The ability of law enforcement to adapt and respond to changing identities and technologies will be important in leveraging what advantage can be gained in crime prevention and detection. The increasing loss of anonymity online, as facial recognition technology, ‘big data’ and social media together begin to connect information about individuals, might be useful for the purposes of crime investigation. However, image recognition technology can be countered by use of prosthetic make-up, for example in some high-profile crimes such as armed robberies where criminals have taken steps to avoid being recognisable on CCTV.
Hyper-connectivity and the speed of information processing will mean that the authorities could find it more difficult to keep control over data and operations. For example, opportunities to detect crime in progress may be reduced as the time to complete transactions is reduced, meaning identity fraudsters only need to maintain credibility for a very short period of time.

‘Open source’ intelligence gathering will become a crucial part of crime investigation and prevention, but the amount of data online will far exceed the ability of the authorities to analyse it. Finding the relevant information will become more challenging, and the risk of missing something important is also comparatively higher. Moreover, some organisations may lack the technical skills and IT systems which would enable them to make best use of the data available. Consequently, the availability of the appropriate skills and investment in data gathering and analysis will become critical to making best use of these opportunities.

Over the next 10 years, themes such as social plurality, facilitated by hyper-connectivity, may lead to more social protests. Such protests will likely use new technologies to organise and communicate in real time from mobile devices. The response of the police will need to be nuanced and based on a clear understanding of the issues and alliances in each specific situation. Policy makers should therefore consider carefully how to mitigate the potential impact of perceived Black or Muslim alienation and ensure policies such as ‘stop and search’ are applied fairly to all, and are perceived as such, in this more fluid context.

Criminal justice

The foundation of English law is a liberal society, where social identity is, as far as possible, a personally defined and freely chosen individual possession. The rights and duties of ‘British citizenship’, may be defined by the state, but otherwise an individual is considered the rightful author of their identity. However, there are trends which potentially impinge on this principle and how it is understood in practice, ranging from new technologies to surveillance techniques and the use of personal data. The challenge for the criminal justice system is, therefore, to ensure the autonomy and security of personal, social, and online identities in the future. For example, the law could consider an individual’s rights to their digital identities, especially after death, when their archived digital inheritance could become open to control by others, and potentially taken over in order to create fake identities to facilitate crime.

Surveillance is a key area where tensions can arise between the interests of crime prevention and law enforcement, and protecting privacy and individual liberty. Surveillance may be experienced very differently by different parts of a society, depending on class, ethnicity, religion, gender, or sexual orientation. For less powerful or marginalised communities, surveillance can increase fear and anxiety, undermining social integration as individuals feel unfairly targeted by group profiling. The use of surveillance technologies should be developed in ways that do not restrict freedom of speech or legitimate forms of behaviour which fall outside what might be considered normal.

Over the next decade, violations of identity and privacy in the online environment are likely to become an area for greater public concern; for example, the unauthorised publication of what a participant had assumed was private sexual activity could become more frequent. There may also be an increasing frequency of online identities being taken over by others for inappropriate ‘virtual’ acts, which some people consider analogous with similar abuse in the physical world. It is likely that governments will be increasingly embroiled in the legal consequences of online identity and how transgressions are policed. It is also possible that there will be emerging issues over human versus machine agency, bringing into question issues of responsibility and ownership in relation to the use and potential abuse of identity.
There will continue to be a need for the legal system to seek to balance the rights of individuals to liberty and freedom of expression (both online and offline), while protecting their privacy and their data. Law enforcement now occurs within a globalised environment, where legal jurisdiction can create limitations. It will be increasingly challenging to keep up with the pace of change in new technology and the myriad ways in which it interacts with people’s identities and behaviours. For example, those drafting laws should expect that legal definitions relating to identity theft and property may be quickly outdated in view of the speed of evolution of new technologies, online platforms, and the transnational nature of the internet. There will also be a need for careful management of public expectations, greater public awareness of rights and responsibilities, and appropriate training for criminal justice agencies including the police, prosecution, courts, and the legal profession.

4.3 Conclusion

Over the next decade, identities in the UK are likely to undergo important changes, and will be increasingly dynamic or volatile. Simple categorisations based on traditional notions of identities are likely to become less meaningful. This will affect society and influence the way that people live their lives. In future, the UK needs to be considered as much a part of the virtual world as a real place. Increasingly, its citizens will be globally networked, hyper-connected individuals, and this has substantial implications for what is meant by communities and by social integration.

The increasing speed and connectivity of information technology systems offers opportunities for monitoring what is happening in real time, and assessing the effectiveness of specific policies. For policy makers, understanding the changing nature of identity in the UK will be increasingly important for effective policy making and implementation. Failure to do so may lead to missed opportunities to, for example, strengthen social integration, reduce exclusion, enhance open policy making, and make effective use of identities as a resource. Government would also benefit from drawing upon a deeper scientific understanding of people’s evolving identities when developing, implementing and testing policies, for example in initiatives such as ‘Test, Learn, Adapt’. Policy making across many different areas will need to be more iterative, adaptive, nuanced and agile, taking into consideration the multifaceted nature of people’s identities and how policies might affect different groups, or individuals, at different times and places.
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Project lead expert group:

Prof Chris Hankin (Chair) Professor of Computing Science, Director of the Institute for Security Science and Technology, Imperial College London
Dr Aaron Cooper Defence Science and Technology Laboratory
Dr Maureen Fordham Enterprise Fellow Principal Lecturer in Disaster Management, Department of Geography, University of Northumbria
Prof Anthony Heath, FBA Professor of Sociology at the Institute for Social Change, University of Manchester and Emeritus Professor of Sociology, University of Oxford.
Prof Michael Hulme Founder Director and Senior Centre Director, Social Futures Observatory
Prof Nick Jennings Professor of Computer Science, School of Electronics and Computer Science, University of Southampton
Prof Adam Joinson Professor of Behavioural Change, University of the West of England (UWE Bristol)
Prof Mark Levine Professor of Social Psychology, Department of Psychology, University of Exeter
Prof Ann Phoenix Professor, Co-Director of Thomas Coram Research Unit, Institute of Education, University of London
Prof Nigel Rapport Professor of Anthropological and Philosophical Studies, School of Philosophical, Anthropological and Film Studies, Director of the St. Andrews Centre for Cosmopolitan Studies, University of St Andrews

Final report peer reviewers:

Mr Dave Coplin Chief Envisioning Officer, Microsoft
Prof Colin Crouch Emeritus Professor, External Scientific member of the Max-Planck-Institute for Social Research at Cologne, University of Warwick
Prof Ian Loader Professor of Criminology and Professorial Fellow, Faculty of Law, University of Oxford
Prof Margaret Wetherell Emeritus Professor and half-time Chair in the Psychology Department, University of Auckland, New Zealand
Prof Brian Wynne Professor of Science Studies, Centre for the Study of Environmental Change, Lancaster University, Professor at ESRC Centre for Economic and Social Aspects of Genomics
Acknowledgements

Authors and contributors:

Prof Dominic Abrams  Director, Centre for the Study of Group Processes, University of Kent
Prof Neil Adger  Professor of Geography, College of Life and Environmental Sciences, University of Exeter
Ms Sundas Ali  Doctoral Student in Sociology, University of Oxford
Prof Sara Arber  Professor of Sociology and Co-Director, Centre for Research on Ageing and Gender, University of Surrey
Dr Kirstie Ball  Reader in Surveillance and Organisation, Centre for People and Organisations, Open University
Dr Michael Biggs  Lecturer, Department of Sociology, University of Oxford
Dr Scott Blinder  Acting Director, Migration Observatory, University of Oxford
Prof Pam Briggs  Chair in Applied Psychology, Department of Psychology, Northumbria University
Dr Ian Brown  Associate Director and Senior Research Fellow, Cyber Security Centre, University of Oxford
Dr Alberto Corsin Jimenez  Senior Scientist, Centro de Ciencias Humanas y Sociales, Spain
Prof John Curtice  Professor of Politics, University of Strathclyde
Dr Neli Demireva  Leverhulme Postdoctoral Research Fellow, Nuffield College Research Fellow, University of Oxford
Prof John Dixon  Professor of Social Psychology, Department of Psychology, Open University
Prof Danny Dorling  Professor of Human Geography, Department of Geography, University of Sheffield
Associate Prof Nicole Ellison  Director of Graduate Studies, Department of Telecommunication, Information Studies, and Media, Michigan State University
Dr Robert Ford  Lecturer in Politics, School of Social Sciences, University of Manchester
Dr Matthew Goodwin  Associate Professor of Politics, School of Politics and International Relations, University of Nottingham
Prof David Gordon  Professorial Research Fellow in Social Justice, School for Policy Studies, University of Bristol
Dr Maria Teresa Grasso  Lecturer in Politics, Department of Politics, University of Sheffield
Prof Sarah Harper  Director of the Oxford Institute of Population Ageing, University of Oxford
Prof Penelope Harvey  Director of CRESC and Professor of Social Anthropology, School of Social Sciences, University of Manchester
Prof Bernadette Hayes  Chair in Sociology, Department of Sociology, University of Aberdeen
Prof Anthony Heath, FBA  Professor of Sociology at the Institute for Social Change, University of Manchester and Emeritus Professor of Sociology, University of Oxford.
Prof Karen Henwood  Professor in the Cardiff School of Social Sciences, Cardiff University
Dr Eric Hirsch  Head of Department, Social Anthropology, Brunel University
Prof Mikael Hjerm  Department of Sociology, Umeå University, Sweden
Dr Nick Hopkins  Senior Lecturer, School of Psychology, University of Dundee
Prof Matt Jones  Head, Department of Computer Science, Swansea University
Prof Sinisa Malesevic  Professor of Sociology, Head, UCD School of Sociology, University College Dublin
Prof Rahsaan Maxwell  Assistant Professor of Political Science, Department of Political Science, University of Massachusetts, Amherst
Prof Daniel Miller  Professor of Material Culture, Department of Social Anthropology, University College London
Dr Anja Neundorf  Postdoctoral Prize Research Fellow, Nuffield College, University of Oxford
Dr Michael O’Connell  Senior Lecturer; School of Psychology, University College Dublin
Dr David Owen  Principal Research Fellow, School of Health and Social Studies, University of Warwick
Prof Zizi Papacharissi  Head, Department of Communication, University of Illinois at Chicago
Prof Ceri Peach  Emeritus Professor of Social Geography, School of Geography and the Environment, University of Oxford
Prof Edmund Penning-Rowsell  Head, Flood Hazard Research Centre, Professor of Geography, Health and Social Sciences, Middlesex University
Dr Mark Perry  Senior Lecturer; Director of the People and Interactivity Research Centre, Department of Information Systems and Computing, Brunel University
Prof Nick Pidgeon  Professor of Environmental Psychology, Director, Understanding Risk Research Group, Cardiff University
Prof Lucinda Platt  Professor of Sociology, Director and Principal Investigator of the Millennium Cohort Study, Department of Quantitative Social Science, Institute of Education
Dr John Postill  Senior Research Fellow, School of Media and Communication, RMIT University, Australia
Prof Stephen Reicher  Professor of Social Psychology, School of Psychology and Neuroscience, University of St Andrews
Dr Tracey Rihll  Lecturer in Ancient History, Department of History and Classics, Swansea University
Dr Evelyn Ruppert  Senior Research Fellow, Centre for Research on Socio-Cultural Change, Open University
Prof Angela Sasse  Director of the Science of Cyber Security Research Institute, Director of the Academic Centre of Excellence for Cyber Security Research, Head of Information Security Research, University College London
Prof Peter Schmidt  Professor of Politics, University of Gießen, Germany
Prof Jacqueline Scott  Professor of Empirical Sociology, Faculty of Politics, Psychology, Sociology and International Studies, University of Cambridge
Prof Lucy Suchman  Professor of Sociology, Co-Director of Centre for Science Studies, Lancaster University
Dr Graham Taylor  Associate Professor in Sociology, Department of Health and Life Sciences, University of the West of England, Bristol
Prof Peter Taylor-Gooby, FBA  Professor of Social Policy, School of Social Policy, Sociology and Social Research, University of Kent
Dr John Twigg  Honorary Senior Research Fellow, Department of Earth Sciences, Principal Research Associate, Department of Civil, Environment and Geomatic Engineering, University College London
Dr Clare Twigger-Ross  Technical Director, Collingwood Environmental Planning
Dr Milica Vasiljevic  Lecturer in Psychology, School of Psychology, University of Kent
Prof David Voas  Professor of Population Studies, Institute for Social and Economic Research, University of Essex
Prof Alan Walker  Professor of Social Policy and Social Gerontology, Department of Sociological Studies, The University of Sheffield
Prof David Wall  Professor of Criminology, Head of School of Applied Social Sciences, Durham University
Dr Andrew Weyman  Senior Lecturer, Department of Psychology, University of Bath
Dr Matthew Williams  Senior Lecturer in Criminology, Social Sciences, Cardiff University
Prof David Wood  Canada Research Chair (Tier II) in Surveillance Studies, Department of Sociology, Queen’s University, Canada
Prof Linda Woodhead  Professor of Sociology of Religion, Department of Politics, Philosophy and Religion, Lancaster University
Prof Richard Wyn-Jones  Director of the Wales Governance Centre, Cardiff University

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**Foresight Project team:**

Prof Sandy Thomas  Head of Foresight
Dr Lucy Mason  Joint Deputy Head of Foresight
Jennifer Smookler  Joint Deputy Head of Foresight
Eleri Jones  Project Leader
Alex Salvoni  Foresight Horizon Scanning Centre
Oliver Grant  Foresight Horizon Scanning Centre
Jay Amin  Project Manager
Esther Horner  Project Manager
Gary Cook  Project Manager
Farhana Quasem  Project Co-ordinator
Sejal Mahida  Project Team
James Clements  Horizon Scanning Centre Intern
Driver Reviews:

All driver reviews have been commissioned by the Foresight Project: The Future of Identity and have passed a double-blind peer review process.

The views expressed in these papers are the views of the authors and neither represent the views of the Government Office for Science nor the policy of the UK Government.

Project reports and papers are freely available to download at: http://www.bis.gov.uk/foresight

16 Heath, A. and Ali, S. (2013) To what extent are on-going changes in national and supranational identities based on ethnic or civic conceptions of the nation, and what are the behavioural consequences of these different conceptions? London: Government Office for Science.
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Other references:


136 Further information available at [online]: http://www.occupytogether.org/


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