THE FUTURE OF HEALTH AND WELLBEING IN THE WORKPLACE
These scenarios describing health and wellbeing in the workplace were developed by Forum for the Future in 2015.

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INTRODUCTION

The future of health and wellbeing in the workplace

In 2015-16, Forum for the Future explored the potential of business to improve the health and wellbeing of millions of people.

The following scenarios explore multiple possible futures for this important area in order to inspire, to generate and test robust interventions.

What might the future of health and wellbeing in the workplace look like by 2036?

We live in times of uncertainty and volatility, full of challenges and opportunities. The areas of work, health and wellbeing seem particularly poised for disruption by the rapid pace of change in technology and many other external drivers, such as demographics. We identified over fifty relevant such factors during the course of our project research. In order to explore how these could develop in a systemic and integrated way, we used these factors to create four scenarios for 2036.

These scenarios depict possibilities for the future of the workplace at a global level, as well as health, healthcare systems, and wider contextual factors. The scenarios are not intended to be predictions or visions of desired futures. Instead they explore how global trends may change our world, our health and our workplaces.

To create our scenarios, we used an ‘archetypes’ method to provide the basic narrative framework, and then developed and refined their content by means of extensive research and expert interviews. To develop the scenarios, we liaised with external experts to review and test them from multiple perspectives. The group explored 51 ‘change drivers’ that emerged from the futures research and prioritised the top 11 that they believe will have the biggest impact on the future of workplace health and wellbeing over the next 15 years. In order to bring the scenarios to life we have also created ‘personas’ - characters who might live in these future worlds – and illustrated how their lives might be in and shaped by each scenario.

The four scenarios are:

Business Monopoly – a world dominated by big business and vast technological efficiencies. Half the global workforce has been disrupted by automation and inequality is high. Individual consumption and the accumulation of wealth drives the economy; security is precarious for most in the absence of social or economic safety nets, and high levels of anxiety are the norm.

Service Transformation – a decentralised, entrepreneurial and fast moving world characterised by constant innovation and hi-tech focused on the green economy. Work and health networks are global and fluid in a world where workers need to be self-directed and flexible to thrive.

In the National Interest – a reactive world dealing with serious systemic crisis and trying to stave off collapse. Business and healthcare have been subordinated to the national interest as countries enforce strict policy reform to limit consumption and waste, and the value of work is measured according to its contribution to the nation’s survival.

Rede ining Progress - a world in transition to a new economic paradigm, triggered by a huge shift in mindsets that has strongly pressed governments to prioritise wellbeing and sustainability over growth and consumption. A focus on human connection and community life builds economic and social resilience, with corresponding restrictions on individual choice.
Futures scenarios are an invaluable tool for planning ahead. They help identify risks and opportunities, inform strategy development, and stimulate innovation.

Scenarios present alternative descriptions of possible, plausible future worlds in which we can explore the challenges and opportunities we are likely to face over the coming decades and identify the long term material issues around which to innovate potential solutions.

So what might they mean for your business, organisation or sector? The implications will vary for each. These scenarios, and the questions below, might be used as the basis for a workshop or other discussion, a springboard for ideas to explore possible challenges and opportunities, as basis for developing innovations, or as a stimulus for building partnership to change health and workplace systems to make them fit to meet the needs of the future.

This toolkit includes two versions of the scenarios. The summary version is designed for use in workshops and presentations; the information is punchy, giving readers the key aspects of each possible future world. The full scenarios are a detailed and in-depth exploration of each scenario; they provide the reader with enough information to allow immersion in, and a deeper understanding of, each future world. When creating scenarios, we often look for ‘signals’ that point towards the future world we are imagining. Each scenario includes several ‘Signals of change’, these can be thought of as seeds of future change - ideas, innovations or events that either potentially indicate new trajectories, or highlight the strengthening of existing trends. This toolkit also includes personas; these are useful tools for exploring the nuances of each scenario through the lives of fictional characters.

1. Think about future risks and opportunities

How successful would your current strategy be in each of the scenarios? Use the scenarios to identify the opportunities and threats presented in each one. How could the strategy change to make it more robust in 2036; how might you need to adapt to manage the risks and capitalise on the opportunities?

2. Innovate to meet the needs of the future

What kind of strategies or innovations could you develop to best serve the needs of these potential future worlds? Which innovations are most needed or effective across not just one, but multiple scenarios? Examine developing innovations within each scenario to identify its potential strengths and weaknesses, and develop ways to improve it. Identify which strategies are most likely to succeed across multiple scenarios – bear in mind that the future is likely to be a combination of all the scenarios in some form.

3. Build partnerships to change systems

Building a world that supports health and wellbeing through the workplace can only be achieved by many organisations working in partnership across multiple sectors. Use these scenarios to stimulate partnership working. What might be some common aims and challenges in the scenarios? Identify which ones you could address together, and ask what collaboration between partners could achieve? Look at what actions or innovations are common across the different scenarios as a way of prioritising and planning next steps.
Exploring the scenarios helps us see implications of our actions, strategies or of particular trends. The implications that emerge will depend on the questions you are asking within the scenarios, and process you use.

The challenges and opportunities listed below featured in the explorations by experts across many or all of the scenarios. Where possible, you may wish to consider all of the themes below when designing comprehensive health and wellbeing propositions.

**Challenges**

- Mental health and related challenges of loneliness, isolation, anxiety, stress, and depression
- Poor lifestyle habits: notably unhealthy diets and lack of opportunity and incentive to exercise were consistent issues
- Insecurity of employment and income featured in most scenarios (also linked with stress and anxiety)

**Opportunities**

**Making preventative care the norm**

- Building incentives and rewards for healthy behaviours and practices
- Building cultures and practices to grow mindfulness and manage stress
- Holding people accountable for their health and behaviours that impact on it

**Creating healthy workplaces and employment structures**

- Building structures to physically bring people together to interact
- Creating healthy buildings and environments for people to work and interact in
- Blending virtual and physical environments in ways that promote health

**Building supporting peer networks and community interaction**

- Giving support for families and for those with responsibilities (e.g. caring children and parents)
- Connecting people with peers to help them meet essential health related needs (e.g. buying healthy food, cooking, exercise)

**Developing human centred approaches and leadership**

- Differentiating what only humans can offer vs. what the non-human/robot can do “better”
- Focusing on developing human skills and meeting human needs, including through human centred leadership

**Using technology and big data**

- Employing technology for monitoring, sharing of health information and solutions
- Developing technology that supports learning, health tracking and peer networking

We strongly suggest you also use the scenarios to make your own explorations, coming to your own set of risks, opportunities and possible implications, based on your own clearly defined questions.
THE SCENARIOS

BUSINESS MONOPOLY

SERVICE TRANSFORMATION

NATIONAL INTEREST

REDEFINING PROGRESS

summaries
In this world, individual consumption and the accumulation of wealth drives the economy and there is a similar consumerist and individualist mind-set to the early 21st century. Technology has driven vast efficiencies across industry and agriculture, addressing the predicted scarcity crisis in food, water and energy. Carbon emissions are declining, driven mainly by decisive action from big business, and climate change has been declared ‘nearly solved’ despite ongoing impacts.

Nearly half the global workforce has been disrupted by automation, leading to a large and growing ‘precariat’ surviving on piecemeal work in both developed and developing countries. Inequality is high as the fortunate few in secure jobs enjoy attractive benefits while national safety nets are non-existent or threadbare. Many turn to the informal economy to supplement their income. The global middle class uses technology to access affordable but impersonal healthcare that tends to favour treatment of illness over prevention, while the rich are served by highly profitable personal health optimisation services. Daily life is ever more complex as companies continue to push risks onto individuals in order to cut costs. High levels of anxiety are common and many fear this world could be heading for collapse.

### World in detail

**What is the global outlook?** This is a multi-polar world held together by economic agreements and free trade; 60% of the population lives in dense cities and one third live in a slum; extreme poverty has fallen but median living standards are stagnant and civil unrest is common.

**What is the environmental and resource context?** Carbon emissions are falling but climate change has made several regions near-unliveable and migration is rising. Resource costs are soaring; water is expensive, supplied by desalination; geoenvironmenting is causing unintended impacts and liability issues; business maintain some ecosystem services.

**What is the state of the economy?** The economy is globalised, capitalist, and dominated by a few large corporations; risk is pushed down to individuals; the informal economy is huge and employs much of the global middle classes; new trading markets exploit personal tracking data.

**What is the role of government?** Governments have stepped back, allowing businesses to find efficient solutions to issues such as clean energy and resource efficiency; there is public distrust of the close government and business relationship; government investment is limited by chronically low public funds.

**How has infrastructure changed?** Infrastructure is centralised; energy comes from nuclear and renewables; transport remains car-based but fuels are low carbon; business is responsible for most key infrastructure which is run on a for-profit basis; users who cannot pay or live remotely are largely shut out.

**How has healthcare changed?** Private healthcare has increased and is the dominant global model; public health services are basic and mostly automated for efficiency; prevention is not high priority; ‘end of pipe’ solutions are promoted instead such as gastric bands; personalised medicine and self-augmentation is available for the wealthy.
What is the role and purpose of business in society? Big business is credited with ‘solving’ climate change and being the engine of growth; it is extremely powerful and regularly frames societal issues in a way that suits its interests; “philanthrocapitalism” is high and sets the aid agenda.

What is the business operating context? Business investment is driven by efficiency and short-term organisational gain; the supply of labour far exceeds demand making labour cheap; light regulation enables near carte-blanche control to big business; SMEs struggle to compete and are subject to arduous supply chain requirements.

How has the workplace changed? Work is a necessity for survival but conditions vary hugely; highly paid jobs have excellent benefits but are heavily monitored and high pressure; most workers are on short-term contracts and receive few benefits; remote working is common; the informal economy is the largest source of employment globally.
In ‘Service Transformation’, a clear steer towards clean tech and a ‘green economy’ drives high levels of innovation, transforming both business and society.

This is a world with a collaborative and entrepreneurial spirit, but also shaped by mistrust towards traditional institutions. Clear policy and market signals on climate change, waste and other key issues have sparked intense innovation, a surge in new business ideas, and an upwelling of emergent solutions from the grassroots. Scarcity of global resources is viewed as a stimulating design challenge and the sharing economy has responded to it with gusto.

Decentralised networks provide new forms of energy and water infrastructure and new distribution systems. Access trumps ownership when it comes to consumer goods, and the ‘digital native’ mind-set is now mainstream as the majority of the world population is younger than the internet. Technology is seen as a massive enabler for progress in this context. Though there has been a move away from traditional big business, there are high levels of business and social innovation and social entrepreneurship is booming. Global interconnectedness and the sharing of ideas is high in this fast-paced, high energy world.

World in detail

What is the global outlook? This is an open, highly interconnected and multipolar world with effective global governance - there is a sense that the world can pull together when it really counts; global trade is multilateral but regionalised.

What is the environmental and resource context? Energy, water, food and resource scarcity is being kept just at bay by constant innovation; there are citizen-led attempts to monitor and restore key ecosystems.

What is the state of the economy? The peer-to-peer sharing economy has reconfigured whole global sectors and distributed manufacturing is re-localising production; low-carbon innovation is driving growth across the world.

What is the role of government? Policy makers try to keep networks healthy and primed for innovation, but traditional government institutions are mistrusted, lag the pace of change and are often left to deal with those excluded from sharing systems.

How has infrastructure changed? Decentralisation and resource efficiency are the watchwords for new infrastructure and energy production is shifting rapidly to renewables and smart grid solutions.

How has technology affected this world? Virtual Reality (VR) has affected work, education and tourism; ubiquitous sensors feed data to the global commons, citizen networks access and act on it; digital fabrication is upending notions of production; biotech and synthetic biology is disrupting food processing and agriculture.

How has society changed? Access trumps ownership and the cost of living has stabilised due to sharing networks where trust is enabled via reputation systems; loyalties are easily shift-able and people’s sense of belonging is fragile; the distinction between virtual and physical reality is increasingly blurred.

What is the role of civil society and individuals? Networked civil society is powerful and has great influence on the direction of policy; civic groups enforce transparency on governments and business; innovative individuals are empowered and thriving.

What is the state of global health? NCDs remain a problem due to the growing global middle class and lifestyle factors; purposeful work boosts mental health for many, but the fast pace of life and ‘junk virtual worlds’ take their toll on others.

How has healthcare changed? Self-monitoring, big data and genetics have driven personalised healthcare and subscription wellbeing services; telmedicine has vastly increased access to healthcare; national healthcare focuses mainly on the elderly to maximise their years of health and activity.
What is the role and purpose of business in society? Business is seen as a source of innovation and a force for progress; it has an important ‘custodian’ role, taking care of quality and repairs in a post-ownership world; however, big business has a diminished role.

What is the business operating context? Most companies are now the co-ordinators of globalised networks rather than mass-employers; physical supply chains have regionalised; multinationals are finding it difficult to compete with agile, innovative SMEs.

How has the workplace changed? Work is flexible, self-directed but irregular and self-employment is the norm; most people belong to several work networks and virtual reality is used extensively for remote working.
This is a reactive world that is trying to cope with resource shortages and to stave off collapse. A convergence of crises in food, water and energy and the climate has sharply concentrated minds on urgent action to head-off a worst case scenario. The world is in danger of fracturing into protectionist blocs as issues like water and food security bite. Governments are doing everything possible to strengthen their countries and secure necessary resources for the long term. Forceful policy is enacted to produce quick behaviour change, such as meat taxes, carbon taxes, penalties for food and water wastage, and bans of the most wasteful consumer goods.

Business is subordinated to ‘the national interest’ and there is much heavier regulation of commercial activity. Patriotism is purposefully stoked by governments to build national unity and the purpose of work is to ‘do your bit’ for your country. Technology is heavily used for tracking, monitoring, and enabling efficiency in food, water, carbon and energy use. Healthcare is focused on providing the basics of physical health and prevention for all.
What is the business operating context? Multinationals have broken up into national components; consumer demand has fallen and there is a ‘make do and mend’ attitude; large workforces are strongly encouraged as mass layoffs can cause social unrest.

How has the workplace changed? Centralised, hierarchical structures are back; employee needs and concerns are secondary to energy, water and resource efficiency; ageing workers are expected to continue in employment.
This is a world in transition to a new economic paradigm, triggered by a huge shift in mind-set that strongly prioritises wellbeing and sustainability over growth and consumption. GDP is no longer the main measure of success, and new metrics that look at quality of life are preferred. Societies value economic and social resilience, but growth and innovation are low. Mature economies are very low growth, while emerging economies experiment with different routes to social wellbeing, with mixed results, and some social instability in places. The scarcity crisis in water and energy has been held back so far by scaling back Western consumption and increasing resource efficiency, but it is unclear how long this will continue to work as the global population continues to rise.

There is widespread recognition that people need purposeful work. Automation works in tandem with meaningful employment so that greater numbers of people are employed in professions that require a human touch. There is a large focus on life outside work, and job-sharing is common in many countries to reduce unemployment. Life is slower paced. Technology develops at a more gradual rate and is largely focused on connection, wellbeing and sustainability. There is a holistic focus on health and wellbeing, emphasising the human element in healthcare over technology.

**2006-2020**

The world is hit by another massive financial crisis in 2019 leading to a widespread global depression. Taxpayers refuse to bail out the existing system, leading to deep reforms such as a Tobin Tax on financial speculation.

**2020**

The Paris 2015 climate deal holds up despite the economic situation as the costs of renewables keep falling, Tobin tax proceeds are directed to mitigation and adaptation in developing countries.

**2022**

A widespread resurgence in spirituality, religion, and secular versions such as mindfulness puts renewed focus on common human values and practical community action; Sufism makes a comeback in the Islamic world and starts drawing support away from extremism.

**2026**

Increasing automation is linked to record unemployment worldwide; fears rise about ‘a generation without work’.

**2029**

Universal basic citizen income replaces benefits across the EU in 2028 and tax regimes are restructured to reduce both inequality and environmental impact; many US states follow suit but Texas breaks away in opposition.

**2018**

A ‘lost decade’ of stagnation in the US and Europe ensues as the costs of the crisis unravel; rates of depression and suicide skyrocket and national debates begin in earnest about quality of life.

**2021**

China and India grow only fitfully due to internal problems; many developing nations, mired in low growth and hit by increasing climate change, start to seek alternative routes to social progress.

**2023**

The near loss of US honeybees in 2023 coincides with European drought to cause major ecosystem shocks and a food crisis; the use of environmental full cost accounting rises in response and several pesticides are banned.

**2028**

Japan, now approaching its fourth ‘lost decade’ and facing a rapidly declining population, pioneers a new economic paradigm of low growth within planetary limits and prioritization of wellbeing over consumption, with impressive-seeming results. Scandinavia follows, and a massive world-wide movement builds, calling for a true wellbeing economy; political parties pivot to respond.

**What is the global outlook?** This is a multipolar and interconnected world in transition to a new economic paradigm; a few countries hold out as havens of ‘real capitalism’ but they are outside the mainstream. Global trade is becoming more regional.

**What is the environmental and resource context?** Resource scarcity is constantly on the horizon and is largely managed by decreased per capita Western consumption, and advances in efficiencies and recycling. Climate change impacts are hitting the poorest countries hard and sustainability is seen as one of the most pressing global issues.

**What is the state of the economy?** This is a low growth world with more regionalised economies due to a higher cost of transport and travel; wealth taxes discourage excessive accumulation and there is much less inequality.

**What is the role of government?** Governments prioritise resilience, wellbeing and sustainability and are more responsive and participatory; public services tend to be delivered locally in partnership with citizen volunteers.

**How has infrastructure changed?** There is a push towards decentralized, community based renewable energy; transport fuel is expensive; water is scarce and often allocated via needs-based systems; circular waste systems are developing.

**What is the role of civil society and individuals?** Civil society groups are strong and there is some blurring between them and local government; innovative individuals tend to respond to local issues and focus on developing sustainable solutions.

**What is the state of global health?** Health is regarded across the world as a key component of wellbeing; obesity levels are falling due to less sedentary lifestyles and the end of cheap food, but malnutrition remains a problem; mental health is improving as local communities strengthen.

**How has technology affected this world?** People use technology to connect and engage with one another; Virtual reality (VR) for empathy has increased a sense of interconnection and common humanity; technology is developing more slowly as more durable devices become common and the culture of mass consumption fades.

**How has society changed?** People mostly “work to live” and invest in their local communities; empathy is the dominant value and time with family and on creative or spiritual pursuits is highly valued. A counter-culture nostalgic for ‘unfettered capitalism’ creates a social discord in some countries where corruption is impeding the transition.

**How has healthcare changed?** Healthy citizens are a government priority and healthcare is more holistic; there is more access to mental health care; developed countries project soft power via medical and healthcare aid.
What is the role and purpose of business in society? Businesses have a key role as the providers of meaningful employment and the producers of low-impact goods and services; all businesses are expected to have a strong purpose apart from profit generation.

What is the business operating context? Businesses have had to shift their models to accommodate the new paradigm, tracking their externalities via full-cost accounting; shareholder relationships focus on long-term value; local context is much more important for products and services.

How has the workplace changed? Businesses build personal relationships with employees and focus on worker wellbeing. Workplaces are collaborative; most office workers work part-time and expect to work into their seventies; manufacturing is mostly automated and agriculture remains a key sector for workers in developing countries.
THE SCENARIOS

BUSINESS MONOPOLY

SERVICE TRANSFORMATION

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REDEFINING PROGRESS

full version
To get a deeper sense of what workplace health and wellbeing might be like in 2036, we developed five “personas”; fictional people who we might typically meet in that time, and explored what their lives might be like in each scenario. For each scenario, we asked:

**What work is this person doing and where?**

**What is their relationship with the organisation they work with?**

**What characterises their lifestyle?**

**How does the employer support the health and wellbeing of this worker?**

**What support do they need for health and wellbeing?**

**What are the impacts of their work on their health and wellbeing – positive and negative?**

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**JOHN**

John is a healthcare worker (40) living in the US. He’s single, lives alone, and likes playing basketball (he used to be a star player in his regional team).

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**RICHARD**

Richard is a 60 year old engineer in the UK. He is proud of his long track record of excellent work. He is a widower and showing early signs of dementia.

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**CLAIRE**

Claire is a 25 year old successful entrepreneur living in Europe. She loves art and funky interior design, and making homes beautiful.

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**SITA**

Sita, 35, lives in India and has 2 children in secondary school. She loves socialising and family gatherings.

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**JAHAR**

Jahar, 20 is a migrant worker in India. He came to the city from the countryside after his father’s cotton farm failed.
In this world, individual consumption and the accumulation of wealth drives the economy and there is a similar consumerist and individualist mind-set to the early 21st century. Technology has driven vast efficiencies across industry and agriculture, addressing the predicted scarcity crisis in food, water and energy. Carbon emissions are declining, driven mainly by decisive action from big business, and climate change has been declared ‘nearly solved’ despite ongoing impacts.

Nearly half the global workforce has been disrupted by automation, leading to a large and growing ‘precariat’ surviving on piecemeal work in both developed and developing countries. Inequality is high as the fortunate few in secure jobs enjoy attractive benefits while national safety nets are non-existent or threadbare. Many turn to the informal economy to supplement their income. The global middle class uses technology to access affordable but high resource costs to tip the world into a prolonged recession.

Resource costs are soaring due to increasing demand; water is very expensive due to the need for it to be recycled, desalinated and transported in support of huge urban centres and intensive agriculture. Massive schemes are necessary such as the energy agreement between Europe and North Africa where gigantic solar farms provide EU electricity and local desalinated water.

There have been mixed results from the first attempts at controversial large-scale geoengineering - Indian agriculture companies are threatening to sue the Chinese government for affecting the monsoon. Some ecosystem services have been recognised by big business and are being closely managed, such as the North Sea and Pacific fisheries and the Amazon and Boreal forests; in consequence the decline of core ecosystems has slowed but others are near collapse.

**Infrastructure and travel:**
Energy is centralised and increasingly renewable but many countries rely on nuclear generation and some carbon capture and storage (CCS) as fossil fuel based energy is being phased out. High resource costs have driven effective waste collection systems and waste has become a resource itself, demanding high prices and providing many jobs in the global informal economy.

Transport within the dense urban centres is electrified but often car-based and congestion is commonplace. Long-distance air travel is common for the wealthy but out of reach for everyone else. Supply chain transport has been optimised for efficiency. Private cities for the affluent with entirely separate infrastructure are increasingly common in Africa and Asia.

Governments rely on businesses to invest in key infrastructure areas such as water, resource recycling and energy. Public services have mostly been privatised, operate a ‘user pays’ system and are automated wherever possible – for example many postal services are delivered by drones.

Users who cannot pay for public services like energy and water are largely shut out and have to obtain what they need informally via unsafe solutions. Slums have become accepted permanent features of the global informal economy.

**Wider context**

**Global outlook and economy:**
The world is multi-polar and capitalist with regional blocs held together by ideological ties and free trade economic agreements; large corporations are dominant. Massive urban centres contain most of the world’s 8.5 billion people: 60% of the world’s population lives in cities and one in three people live in a slum. Many cities have pockets of well-planned urban design fringed by densely packed slums and informal camps.

All economies have been transformed by the automation of manufacturing, driving, agriculture and many knowledge economy jobs, and inequality has risen globally as millions of jobs have been replaced. Despite a fall in extreme poverty as developing economies have grown, unemployment is high worldwide and piecemeal employment is the norm – most jobs are task specific, short tenure and insecure; corporate risk has been pushed down to the individual level. As a result there is a growing underclass living alongside a precariously ‘global middle class’ employed in a mixture of formal and informal economy jobs mostly in hospitality, education, the knowledge economy and IT.

Most societies are two-tier, even in the developed world, and function within an unstable peace with regular civil unrest.

Governments have stepped back to allow businesses to find efficient solutions to issues such as clean energy and resource efficiency; government investment is limited by chronically low public funds caused by widespread tax-efficiency by business and the growing untaxed informal economy.

Once-public assets in the developed world have been privatised and there is public distrust of the close government and business relationship; the private sector plays a dominant role in providing services, especially in the developing world.

Personal debt is an essential component of most societies as wages are sporadic and rates of saving are low; high levels of debt support consumer demand; this is then monetised and highly leveraged by the international financial sector to generate more profits. Complex algorithms are trusted to manage risk levels and memories of the 2008 crash have faded.

**Environment and resources:**
Climate change is considered to be ‘solved’ due to falling emissions, but Sub-Saharan Africa and small island nations have been hit hard by ongoing impacts such as loss of arable land, chronic drought and sea-level rise, causing mass migration.
**Technology:**
Technology is integrated into all aspects of life and is ‘always-on’; it is affordable but also aspirational - there are devices for every market segment - and alongside water and food is seen by most people as a necessity for life. Virtual environments for meeting, working and entertainment are commonplace.

The biotech sector is hugely important – much food and medicine is brewed efficiently in vats, freeing up arable land; GM crops increase agricultural productivity; gene-editing technology is well-understood and is starting to be used on human babies via IVF.

Complex artificial intelligence (AI), automation and sophisticated algorithms are in widespread use, governing everything from urban traffic flow to business decisions, and new trading markets have emerged to exploit personal data. Monitoring and self-quantification technology is in vogue and the affluent use this to improve their employability; big data is used by business to drive efficiency and worker productivity.

Technology continues to co-exist with deprivation in many countries; slum-dwellers commonly have access to the internet, low cost consumer electronics and virtual entertainment despite lacking effective infrastructure for sanitation.

Wealthy expansionists are exploring frontiers in space and projects to test the feasibility of moon-mining are underway.

**Society and health:**

...are unequal. Societies are consumerist, materialist and success is defined by ownership of the latest consumer goods, low cost consumer electronics and meet ends. Fast fashion and fast technology churn rapid cycles of ‘must-have’ consumer goods that are obsolete within six months then recovered and recycled by big business. Leisure time is spent in hedonistic activity to counteract the stress of everyday life and people connect remotely, even within the same city, to reduce transport time and cost. Mental health problems are common in all parts of society, and ‘end of pipe’ healthcare solutions tend to be promoted such as gastric bands for obesity.

Entertainment is an extremely profitable global sector and nearly all societies are more permissive; virtual worlds focus on fulfilling fantasies and alcohol and synthetic stimulant use is high globally. Developing countries continue to follow the ‘Western’ model of development and their societies are increasingly individualist and consumerist and led by the desires of an aspirational middle class; the poor take on debt to invest in their children’s education and access to technology.

Virtual networks are strong, and remote and home working is commonplace; most traditional physical meeting places and institutions have been transformed and some obsolete.

The most affluent invest heavily in themselves, using the latest augmentation technology to improve their health, looks, cognitive function etc. There is some public discourse around the emergence of a ‘super class’. The elderly are encouraged to keep working, relying on technology to live productive lives and remain in work; retirement ages have been pushed back and pensions whittled down; social care is expensive and unequal; care is often provided by robot carers for those who can afford it.

Most individuals are exhausted by long working hours or enervated by prolonged unemployment;

Health:

Unhealthy lifestyles are widespread due to reliance on processed food and increased sedentary behaviour enabled by remote working; obesity and NCDs continue to rise, particularly in developing countries with a shrinking manual labour workforce.

Business and government pay lip-service to wellbeing but it is not high priority; individuals are held responsible for their own poor health and little attention is given to environmental factors.

Epidemic loneliness and high suicide rates are blamed on too little physical and social interaction; stress related health issues such as heart attack and stroke are high; rates of addiction are at record levels in many countries and alcoholism is becoming a societal problem in previously less-affected countries such as India.

The wealthy have good physical health but are not protected from mental health problems; anxiety and depression are pervasive at every level of society.

Healthcare:

Most public health services have been automated for efficiency with AI, and universal access to basic services has increased globally; private healthcare has increased strongly and is the dominant global model; private health cover for acute care is lucrative and has developed into big business; the underclass remains largely uncovered for anything outside basic public health services.

Prevention is not a priority and remains limited to areas such as vaccination; treating disease is seen as easier and more profitable; wellbeing remains on the fringe of health systems with interventions such as personalised health optimisation only affordable to the wealthy.

Self-augmentation and gene editing is available to the most affluent, allowing them to minimise risks of contracting some diseases, and select genetic traits for their children; the wealthy are able to considerably extend healthy lifespans and youthful appearance.

**Business and the workplace:**

... Big business, aided by light regulation by governments, has a strong influence on policy in most developing countries. Businesses employ a select few high-value individuals; everyone else is a short-term contractor as the supply of labour far exceeds demand making labour costs are cheap. Work is a necessity for survival but there are highly varied working conditions. Centralised physical workplaces are rare and remote working is common. The job market is constantly changing as technological efficiencies become mainstream, making it essential for workers to remain flexible. The informal economy is a large source of employment globally.

Business in society:

Big business is credited with ‘solving’ climate change and being the engine of growth; it is extremely powerful and regularly gets to frame societal issues in a way that suits its interests. Most people cannot really imagine an alternative ‘sustainable’ system although many would like to divert the power of the biggest companies.

“Philanthrocapitalism” is dominant and sets the aid agenda, and CSR is prominent; companies also provide for-profit solutions to society’s material problems which fit their business model or provide opportunities for competitive advantage.

The business context:

Business investment is driven by efficiency and organisational or personal gain; shareholders remain fixated on short-term value. Competition is high among SMEs, who struggle to compete with big business due to the need for efficiency; most are suppliers and subject to the ever-changing requirements of supply chains. Most small businesses that are innovative are quickly bought-out by large companies that take ideas to scale.

Automation is present in nearly all sectors; big business no longer needs to be located in countries with low cost labour, although manufacturing is often sited near key resource bases to maximise production efficiency.

Workplace:

Highly paid jobs provide excellent conditions and benefits but such workers are expected to be highly productive and are heavily monitored and assessed; competition for good jobs is extremely high and draws from talent across the world. The organisational structure of big companies has changed; there are a few, very powerful people at the top and fewer people are in middle management positions; the main workforce is largely ‘on tap’ at the convenience of business. Workforces are diverse, mixed in race and age in most parts of the world and businesses that have benefited from this, taking advantage of a range of experience and skills to grow their human capital in support of business aims.

Virtual matchmakers connecting needs for contractors and those offering services are essential, and membership of these organisations is competitive and an important definition of a person’s success and level of achievement.

Manual labour-based workplaces such as agriculture and apparel have been transformed by automation; people work alongside machines in these sectors and there are far fewer jobs.

Many people in developed countries work in the both the formal and informal economy, moonlighting to make ends meet. SMEs in developing countries are still mostly informal and serve the needs of local communities, particularly in slums. Those in the precarious, working in short term jobs, receive very little from their employers and rely on basic public services.
John works full time as a consultant in a high-end private hospital. He’s comfortably off and well paid, on a two-year contract; he also gets commissions from pharma companies. Though he has a relatively high disposable income he gets little opportunity to take time to enjoy spending it. He works long, unsociable hours, so has little leisure time and not much social life. John gets private health insurance as a benefit from his employer, and health care from a personalised health optimisation service. He enjoys his high status but the social isolation and lack of community contributes to depression; he’s putting on weight and his employers are beginning to express concern that the extra pounds will lower his ability to live up to the demands of the job. He is frustrated that he can’t make regular time outside of work to take part in a sports team.

Richard works remotely and on-site on for a private contractor on civil energy infrastructure projects. He’s a full-time contractor on a 6 month rolling contract. Richard has a small pension and feels he needs to work to at least 67; work fills his life. His employers are aware of his incipient dementia due to tracking software; he does not yet know that they are not going to renew his contract. He knows he is easily disposable; he is already very anxious about his future and wants advice and reassurance.

Claire runs a micro SME supplying a multinational retailer with designer homewares. She’s an independent contractor but entirely subject to the changing whims of the multinational’s buyers; their tough terms have locked her into accepting low margins. To keep on top of the business she works constantly with only occasional breaks to socialise or for exercise. She rarely has time to cook, and snacks irregularly on poor quality synthetically manufactured food which is the staple diet of most people.

Sita works as a call centre operator in customer service for a multinational company, overseeing automated responses and stepping in whenever a complex issue requires a human to solve it. She’s a full time contractor on a rolling 1 month contract. Her lifestyle is extremely busy, with long working hours and little family time. She often has to work unsocial shifts as the call centre is open 24 hours. She lives in a notified slum and works hard to afford a good quality education for her children, who she wants to escape the slum and become successful business directors one day. Sita wears a tracking wristband at work as part of company performance monitoring; a health tracker app is included on it which she is allowed to use for free, on condition that the data gathered by it can be sold on by the company; she is also given basic health insurance that covers herself and her children. She is stressed, anxious and chronically tired. Work pays reasonably well and she feels lucky compared to many others, but the lifestyle is very stressful and often leaves her exhausted and anxious about the future.

Jahar works at the docks doing manual labour. He is an informal worker, and though he works for a registered company he doesn’t receive any employee protections or benefits. Jahar came to the city to earn enough to pay off his family’s debt and intends to return to his village as soon as it is repaid. He lives in the cheapest housing he can find, sleeping in a derelict room with other workers in an unrecognised slum. His employer takes no responsibility at all for his health and wellbeing, and if there are health and safety standards they are not enforced. For example, though he needs basic protective equipment at work nothing is provided. If an accident happens to him at work he knows he will be blamed for it and have to pay any costs for treatment himself; and there is no one to help him if things go wrong. Jahar is given very few days off and knows they overwork him, but doesn’t dare complain; he is glad to have work of any kind. But he worries that he can’t earn enough to escape the growing interest on his family’s debt and he is beginning to feel trapped.

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More big businesses are pushing for policy frameworks to enable them to address global challenges as commercial opportunities; for example the “Business Manifesto” presented at Davos in 2015 called on governments to create ambitious new Sustainable Development Goals so that companies can help deliver them.

(source: The Guardian)

Research finds that a “robot revolution” is likely to transform the global economy over the next 20 years, cutting the costs of doing business but exacerbating social inequality as nearly 50% of US workers risk being displaced by technology.

(source: The Guardian)

Avasa is the first city in India that’s been conceived, executed and run entirely by a private company; aimed at the new middle classes, its creators see it as a blueprint for Indian ‘smart cities’ of the future.

(source: Futures Centre)
In ‘Service Transformation’, a clear steer towards clean tech and a ‘green economy’ drives high levels of innovation, transforming both business and society.

This is a world with a collaborative and entrepreneurial spirit, but also shaped by mistrust towards traditional institutions. Clear policy and market signals on climate change, waste and other key issues have sparked intense innovation, a surge in new business ideas, and an upwelling of emergent solutions from the grassroots. Scarcity of global resources is viewed as a stimulating design challenge and the sharing economy has responded to it with gusto.

Decentralised networks provide new forms of energy and water infrastructure and new distribution systems. Access trumps ownership when it comes to consumer goods, and the ‘digital native’ mind-set is now mainstream. The sharing economy has responded to it with gusto.

Inservice Transformation, a clear steer towards clean tech and a ‘green economy’ drives high levels of innovation, transforming both business and society. The world is currently on a trajectory for 2.5 degrees of warming by 2100. Myriad ‘carbon negative’ schemes to capture atmospheric carbon via processes like ocean pumps, seaweed farming and biochar are starting to scale up in a race to stay below 1.5 degrees warming.

Energy, water and resource scarcity is being kept only just at bay by constant innovation and climate change is affecting global agriculture yields. Innovation in food distribution, biotech and farming practices is bridging the gap but cannot do so indefinitely; all countries are investing heavily in agriculture and trying to reduce meat consumption.

Carbon emissions are coming down fast due to high carbon prices. The world is currently on a trajectory for 2.5 degrees of warming by 2100. Short VR holidays to exotic and fantastical places come into force in the EU despite resistance from the farm sector.

Myriad ‘carbon negative’ schemes to capture atmospheric carbon via ocean pumps, seaweed farming and biochar are starting to scale up in a race to stay below 1.5 degrees warming.

Ecosystems are heavily stressed; massive citizen-led campaigns monitor core areas such as the Amazon. Some key fisheries are well-managed and recovering due to growth in sustainable aquaculture; however others are close to collapse and the UN is trying to negotiate a global covenant to enable pervasive recovery where this is possible.

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factories are a thing of the past due to distributed manufacturing. Activity occurring outside them, enabled via virtual workplaces. Large physical workplaces are small and act more as a core hub, with most sectors by innovation. Most people belong to several work networks ...is seen as a source of innovation and a force for progress. Multinationals are finding it difficult to keep up with the pace of change and are generally mistrusted or considered ineffective; government is often left with the harder problems and those excluded from sharing systems. Networked civil society is powerful and has great influence on the direction of policy.

Health:
Many people in rich countries still eat too much meat; civil society across the world is campaigning to reduce meat consumption in order to kill three birds with one stone – NCD risks, rising food demand and climate change mitigation; some governments are trialling meat taxes. Mental health is a mixed picture; those with good networking abilities tend to have fulfilling work and a sense of community to draw on; however isolation and loneliness remains a big problem for many others; ‘junk virtual worlds’ full of vapid bots and mindless violence are blamed for causing new levels of social maladaptation and narcissism; family life feels more squeezed than ever between competing pressures. Mental health is increasingly recognised as an issue in developing countries as urbanisation, development and social disruption frays traditional support structures such as the extended family.

Healthcare:
Most public health services have been automated for efficiency with AI. Self-monitoring and advances in big data and genetics have led to a boom in personalised healthcare in the developed world. Subscription wellbeing services offer tailored diet and exercise packages to maximise prevention of NCDs and to optimise physical and mental health. National health systems have become more decentralised, and more focused around the needs of the elderly. More self-care and self-diagnosis is expected of the young and able-bodied – first aid is taught at school and sophisticated apps assist with diagnosis and treatment of common illnesses and minor injuries. Doctors are an expensive resource and are expected to be reserved for more serious problems. Telemedicine has massively increased access to healthcare in the developing world, as have self-care kits, although quality varies widely. VR is used for dementia therapy – calming interactive environments soothe and engage sufferers. Some workplaces use specialist VR environments to help employees with mild dementia stay working for longer.

Society:
Attitudes to ownership have changed across the world, giving priority to access; micro-rental and sharing systems for consumer goods are the norm. Status is tied to access levels, while ownership is increasingly associated with the hassle of full life-cycle costs. Technology enables trust via reputation systems. While peer-to-peer networks create a sense of community, they also fuel polarisation and self-segregation. Loyalties are easily shiftable and people’s sense of belonging is fragile. Peer-to-peer networks in developing countries tend to operate outside government control and many are based in the informal economy; this reduces business confidence and some forms of corruption, but can also cause problems with accountability.
Developing nation citizens are finding it easier to adjust to the entrepreneurship global economy and a great deal of innovation comes from countries like India and Kenya. Slums are increasingly renowned as sources of edgy new talent and innovative workers. Multinational companies are setting up innovation centres in some of them. Some developing countries are experiencing a demographic and gender dividend as the Millennial generation matures and uses its increasing empowerment to demand better quality from business and government. Others are subject to ‘virtual brain drain’ as their best graduates are diverted to projects that benefit only the wealthy or developed countries.
Co-housing is on the rise in the developed world as a way for families to share living costs and childcare duties; the elderly also increasingly use it as a way to stay socially connected and independent for longer.
Wellbeing is strongly linked to work; creative, fulfilling work that improves society is seen as the ideal and there is a premium on innovation and creativity; long-term unemployment is stigmatised and overwork is common as people over-identify with what they do.
There is blurred distinction between physical and virtual reality. The elderly are almost a counterculture; most use technology much less and emphasise the importance of physical reality to the younger generation.
Traditional government institutions (e.g. dealing with education) find it difficult to keep up with the pace of change and are generally mistrusted or considered ineffective; government is often left with the harder problems and those excluded from sharing systems. Networked civil society is powerful and has great influence on the direction of policy.

Business and the workplace...

...is seen as a source of innovation and a force for progress. Multinationals and big business in general are seen as slow moving compared to start-ups and have a diminished role due to the constant disruption of sectors by innovation. Most people belong to several work networks and companies have to work hard to keep the interest of the best. Physical workplaces are small and act more as a core hub, with most activity occurring outside them, enabled via virtual workplaces. Large factories are a thing of the past due to distributed manufacturing.

Business in society:
Companies that provide ingenious solutions to society’s needs attract plaudits and the best talent. The social enterprise/benefit corporation model has taken off and there is a widespread realisation that the most attractive solutions come from start-ups and SMEs. There is a growing crisis in large-scale R&D as a consequence.
Subscription and service models to everything from clothing to transport with accountability.

The business context:
Supply chains have regionalised with trade patterns; workforces have become more virtual and globalised. Many companies have shifted to become the co-ordinators of networks rather than mass-employers.
Demand for physical consumer goods has been semi-disrupted by the sharing economy and is now being further disrupted by digital fabrica-
John works as a self-employed consultant on a telemedicine health network 3 days a week and takes private patients two days a week. He spends a lot of time in virtual environments for work. He gets regular health screening for conditions flagged on his genetic profile through a medical wellbeing network made available through his employer. But his sedentary lifestyle exacerbates his depression and his weight is impacting his fitness. Even for leisure, he’s got into the habit of playing virtual sports with others in his professional network rather than going to the gym. He likes his work, and being self-directed; the virtual environments can both help and hinder his depression, and he struggles at times to manage it to stay competitive.

Richard runs a small energy consultancy with 2 other colleagues. He is monitoring 3 decentralised energy networks remotely and pitching for a 4th. While he likes the challenge, he craves a long holiday; he hasn’t taken more than a week off at a time for years. He tracks his own health and has noticed the signs of early dementia; he is currently self-managing and hasn’t told his colleagues. He feels isolated and in need of advice, but doesn’t know who to turn to; he knows he can’t afford to retire yet and with his son working overseas has no safety net for when he’s no longer able to support himself.

Claire runs a national sharing/rental service for designer homewares, furniture and home decor. Self-employed and self-directed, she works long hours and most days, even weekends, to respond to the needs of her business. Like everyone, she uses sharing and rental services for everything from clothing to transport and gets her food ready-cooked from a meals network. Claire belongs to a health network that tracks her data and makes diet and exercise recommendations; when she can get time she takes part in virtual exercise coaching sessions. She spends most of her time on her own in virtual working with distant colleagues. Occasionally she talks remotely with her parents who live far away. Most of the time she feels purposeful and in control; however the uncertainty causes anxiety sometimes, and it’s in those moments that she most misses the face-to-face contact with colleagues or community that would help her feel less vulnerable and alone.

Sita is working as a freelancer remotely performing discreet ‘human intelligence tasks’ routed to her via her networks; the tasks are optimised to her particular skill-set and educational background. She is self-employed, currently working for 4 clients. She works from the local tech hub that was built when their slum got upgraded. She tries to fit work around her family commitments; however work is very variable and her income is unpredictable. She manages her own healthcare via a women’s wellbeing network that she accesses from the tech hub where she works; she also accesses family health services and basic health insurance. Sita finds it difficult to switch off and is often anxious about maintaining the ‘right level’ of work that fits with her family responsibilities whilst providing enough income. She also worries about her children spending so much time engaged in a virtual world while she’s away. Her work feels self-directed and empowering and she often appreciates the flexibility; however it feels insecure in the long term and she hopes her children will have more secure livelihoods.

Jahar works informally at the docks doing manual labour. He has joined a local ‘guild’ of informal dock workers that pool savings to support each other in times of crisis and monitor employers to make sure that basic health and safety standards are enforced. He has come to the city to earn money to help pay for his education so he can start his own business. He lives in a cheap slum for the moment to keep his costs down. His employer enforces basic health and safety standards after being embarrassed by action taken by his ‘guild’ of fellow workers. If an accident happens at work, Jahar knows that his ‘guild’ will press strongly for the company to cover the medical costs. Still, Jahar is chronically overworked and given very few days off; he is determined to leave as soon as he has saved enough money. Although work is hard and demanding, he feels empowered by his guild and that he may have better prospects in the future.
Signals of change

Peer-to-peer lending is surging in the US; in 2015 analysts warned that the sector’s growth could hurt traditional lenders.
(source: Business Insider)

The Paris climate deal is expected to ignite a $90 trillion clean energy revolution; China and India in particular submitted ambitious climate pledges that could trigger a rapid transition in the global energy system towards decentralised renewables.
(source: The Telegraph)

A recent study found that eighty percent of 13-25 year olds want to work for a ‘purposeful’ company that cares about its impacts; Millennials are thought to be reshaping the values of the business world.
(source: Brand Channel)
This is a reactive world that is trying to cope with resource shortages and to stave off collapse.

A convergence of crises in food, water and energy and the climate has sharply concentrated minds on urgent action to head-off a worst case scenario. The world is in danger of fracturing into protectionist blocs as issues like water and food security bite. Governments are doing everything possible to strengthen their countries and secure necessary resources for the long term. Forceful policy is enacted to produce quick behaviour change, such as meat taxes, carbon taxes, penalties for food and water wastage, and bans of the most wasteful consumer goods.

Business is subordinated to ‘the national interest’ and there is much heavier regulation of commercial activity. Patriotism is purposely stoked by governments to build national unity and the purpose of work is to ‘do your bit’ for your country. Technology is heavily used for tracking, monitoring, and enabling efficiency in food, water, carbon and energy use. Healthcare is focused on providing the basics of physical health and prevention for all.

Global outlook and economy:
The world is in crisis and globalisation is breaking down. There is a zero-sum mind-set, a growing sense that national gain is only possible via another’s loss, but governments are also keenly aware that the challenges are too great to tackle alone.

Regional groupings try to act together and there is also a late worldwide attempt to act on climate change after a spate of shocking disasters and crises; countries that refuse to do so are isolated and punished with sanctions.

Bilateral trade predominates; there is a high and ongoing risk of protectionism, particularly with regards to food. Countries constantly manoeuvre for access to key energy and water resources, some of which are becoming dangerous flash points.

Most economies are strongly directed by governments ‘in the national interest’ and growth is mainly driven by government investment programmes. GDP is low everywhere and living standards are falling; no one has enough energy and efficiency is key. Automation is mainly used for energy efficiency; most governments have purposefully limited its impact on jobs as full employment is felt necessary for national cohesion.

The internet has fractured into linked regional networks that serve US/Europe, Asia/Oceania, Africa/ Middle East and South and Central America; these are tightly monitored and controlled by local governments; links between networks are often severed without notice.

Many urban areas in middle-income countries are becoming new slums as individual incomes and government spending fall; as a result the black economy is strongly resurgent in many countries, particularly those where rationing is in place.

Public services are generally delivered by government agencies or under their close supervision; profiting from public service delivery is not socially acceptable in much of the world – there are however ongoing problems with corruption in many countries.

Environment and resources:
Energy, water and resource scarcity is being kept only just at bay by climate change impacts are a massive problem, causing a regular global shortfall in food; severe flooding affects many cities and climate refugees are common. The world is currently on a trajectory for 6 degrees of global warming by 2100, an apocalyptic prospect that governments are trying to reverse.

Water crises are common across the world and are affecting agriculture in particular. Some regions are doing better than others – Russia has plenty of energy and fertile farmland; US has enough domestic resources – especially coal with jerry-rigged CCS. China risks serious shortages and is projecting might to gain access to enough food, water and energy; many emerging economies are struggling and trying to retain control over local resources.

Ecosystems are collapsing; the few remaining fisheries are patrolled by gulling and trying to retain control over local resources.

Infrastructure and travel:
The dominant energy model remains of centralised infrastructure; nuclear power is newly resurgent, as is carbon capture technology; gas predominates in North America. The EU has a mix of renewables, fossil, nuclear and is now scrambling to phase out gas via forced energy cutbacks, phased industry and even phased internet availability. Emerging countries are using local energy resources – generally renewables and coal with jerry-rigged CCS.

Water is expensive across the world; water-saving infrastructure is prioritised by industrialised countries; many developing countries endure severe shortages.

Forceful policy on energy and carbon has led to a rapid fall in petrol vehicles worldwide; public transport is now the norm in most countries as personal cars are too expensive; informal transport networks dominate in developing countries and the cycle rickshaw is making a comeback in many cities.

Technology:
Many manufacturing jobs have come back ‘on-shore’ as supply chains have shortened, digital production methods have cut costs and governments have incentivised local employment. However digital fabrication has been discouraged at the local community level – it is reserved for the large companies that can afford to pay for the equipment.

Sophisticated monitoring systems in many OECD nations track individu-
als’ energy and resource footprints in real-time, even down to the foods they eat. ‘Credits’ are earned for staying within prescribed limits, which can be gradually accumulated and put towards high footprint activities such as long-distance holidays or having children.

Most technology is now developed for government and business use; consumer technology is very slow moving and focuses on durability and energy efficiency as disposable incomes are low and energy use is circumscribed. All new consumer electronic devices are mandated to have a ‘back-door’ accessible by government agencies for monitoring.

Black and grey market technology is common across the developing world as the poor seek access to cheap technology; black market ‘citizen credits’ command high prices and incentivise hackers across the world; innovation is markedly stronger in the black market than the mainstream.

Society and health

...are nationally focused. Societies are generally more closed and conformist, localism is rising as travel falls and people feel greater connection to their local regions, although a counter-culture resists and tries to maintain global links. Efficiency is lauded and rewarded, and monitoring technology has been normalised and socially accepted as a necessary evil to ensure compliance with efficiency measures. There has been an unwelcome increase in malnutrition in developing countries as food costs have risen. Public healthcare focuses on the basics and prevention is highly prioritised in most countries. People with ‘lifestyle’ diseases are expected to pay towards the cost of their care.

Society:

Governments are very directive and interventionist and policies such as rationing and meat and sugar taxes are common; this is generally accepted due to the severe nature of the challenges that this world faces. A patriotic ‘war mind-set’ is invoked in many countries to tackle climate change, food and energy problems; living standards have fallen across much of the world and migrants are not welcomed. Citizenship has shrunk but is an essential counter-weight to government in many countries to ensure accountability; their relationship is adversarial.

Regional cultures and dialects are strengthening and provide some counterpoint to the more artificial nationalism promoted by governments. Inequality has fallen as the rich have been heavily taxed; many sections of society feel that life is fairer now, but others feel that too much freedom has been relinquished. There is increased community spirit at local level, a sense of collective purpose and the need to pull together. People share skills such as horticulture and midwifery in local networks.

Many slum communities in countries such as India are surprisingly resilient during this time of crisis due to strong informal networks; however migrant workers without family or government support in the lowest ‘tier’ of slums are hit hard by the poor economy and are desperate for jobs.

The web is used to track the energy usage of every individual in industrialised countries, and much else besides. Freedom of expression feels stifled by the constant sense being watched and escapism is highly sought after; many governments encourage virtual reality (VR) as an outlet – VR centres (centralised for energy efficiency) are the new cinemas. Individuals are expected to subordinate their needs to those of their community; national service has returned across most of the world and volunteer corps are encouraged.

Health and wellbeing is a matter of patriotic duty and is framed mainly in terms of physical health; sport is exalted as a virtuous and low energy activity; the overweight are shamed as gluttons in a time of food crisis; meat is rationed or taxed heavily in many countries.

The elderly are encouraged to keep on contributing to their countries’ economies; retirement ages have been pushed back or in some cases abolished. Social care policy for the very old often requires forced sale of property to pay for it.

Health:

Forcible government policy is having an effect on NCDS – high meat and sugar taxes, and in some cases, rationing of basic foodstuffs; also the decline in living standards has led to less sedentary lifestyles as car use has dropped across the world. However there is increasing malnutrition and many families keep vegetable gardens to supplement their diet, even in cities; governments are fortifying flour and bread.

The mental health picture is complex; many people respond well to the new sense of national purpose; however the endless news of crises and ecosystem collapse is causing big increases in anxiety; the loss of freedom, although mostly accepted by the young, grates on older generations who remember life in previous decades.

Dementia is increasingly common due to ageing populations; community care schemes are encouraged as an affordable way of dealing with the problem.

Healthcare:

Health policy often forcefully encourages physical health – for example the unfit are assigned to energetic ‘community duty’ such as digging, and the overweight are obliged to join diet clubs. Refuseniks and persistent offenders lose their ‘citizen credits’ or are fined.

Private healthcare is accessible through insurance and workplace schemes; some countries have nationalised private healthcare in order to extend public provision and reduce inequality.

Self-care and self-monitoring is encouraged - a lot of diagnosis is done by AI - you have to pay for the ‘personal touch’. ‘Frivolous use’ of emergency services such as ambulances is fined heavily and culprits are often publicly shamed. Telemedicine of very variable quality is the norm in developing countries.

‘Big Pharma’ has been cowed by compulsory licensing in most countries, even OECD nations, which circumvents patents to permit cheap generics of socially important medicines. As a consequence, most pharmaceutical R&D spending has fallen outside the US and is now largely funded by the public sector.

Business and the workplace

...is increasingly local. Business are expected to fully contribute to society by providing local employment and paying full national taxes. People on unemployment benefit are required to do community service or voluntary work to ‘earn’ it. Consumer demand has fallen and there is a ‘make do and mend’ attitude. Work is exalted as an end in itself that strengthens the nation.

Business in society:

Business is subordinated to the ‘national interest’, similar to in time of war, and is expected to do its patriotic duty as employer and tax payer; international businesses are increasingly mistrusted. Local and national businesses are increasingly important for their role in building identity and morale.

Work is a patriotic duty for the individual; everyone is expected to pull their weight and contribute to the national economy. Subscription and service models to everything from clothing to transport are the dominant business model in many sectors. As a result, business has an important ‘custodian’ role for consumers, taking care of quality and repairs, and the full environmental life-cycle costs of item creation, recycling and disposal.

There is little distinction between the private and public sectors in many countries; public service providers rely on a variety of funding and ownership models (depending on risk etc.) and the private sector is often involved in delivery.

The business context:

This is a very difficult environment for multinationalis – most have broken up into national components and are multinational in name only.

Tax avoidance of any kind is not tolerated by societies – all business is expected to pay their full share and boycotts quickly spring up against companies that are thought not to; punitive action by the government often follows, and is popular.

 Employers are strongly encouraged to have large workforces; mass layoffs can cause social unrest; as a counterpart, health and safety legislation and similar employee protection laws are less strictly enforced in many countries.

Workplace:

Centralised, hierarchical command and control structures have returned in a more subtle and pervasive form, enabled by ubiquitous monitoring; business and other employers feel entitled to track employees near-continuously to improve efficiency, even noting sleep habits.

Workplaces are managed for energy, water and resource efficiency – this generics of socially important medicines. As a consequence, most pharmaceutical R&D spending has fallen outside the US and is now largely funded by the public sector.

Companies are expected to accommodate ageing workers to allow them to continue in employment for as long as possible.
**JOHN**

John is employed full time at the main city hospital on a permanent contract. His work keeps him busy, and he’s an important figure in the local community. He misses the global interaction that he used to have through meeting with medical colleagues from around the world—all conferences are virtual now and sharing is highly controlled and monitored. He lives near the hospital, a short cycle ride away. As a high value employee his health is constantly monitored. He enjoys his high status; but the stress of the job and the external sense of crisis tends to worsen his depression.

**RICHARD**

Richard works directly for the government on civil energy infrastructure as a full-time employee on a permanent contract. National health monitoring flagged his dementia, and the government gives him access to support to help him stay economically active for longer. He likes feeling useful and is anxious about his dementia affecting his contribution. Richard feels supported but wishes he could work less as he grows older and spend more time with his grandchildren.

**CLAIRE**

Claire runs a local repair, recycling and reuse service for homewares and furniture. The service is government funded, and she has to ensure it meets strict requirements which are strictly monitored. She still lives with her parents, which helps her to save money and gains them credits for efficient energy use at home. Her health data is monitored by the local doctor’s surgery who sends constant health advice remotely to make sure her fitness meets national guidelines. She enjoys feeling useful in the community but finds the responsibility stressful at times and misses a creative outlet. She wishes she could have more training and tailored support with the demands of running a busy local service, and wonders when she’ll manage to save enough resources to get a home of her own.

**SITA**

Sita works as a centre operator for an Indian company, dealing with domestic customer service. She’s a full time employee and works long days; she never feels like she has enough time for her family and is lucky that her sister is able to help out at home and with the children. Having help was especially important when her youngest got ill recently, as Sita still had to go to work. Like all employees she’s given access to diet and exercise plans for healthy living; health insurance is provided for ‘non-lifestyle conditions’ such as communicable diseases and accidents. Her work is sedentary and she struggles to make time for exercise to keep fit, but manages a class once or twice a week: she risks being fined if she doesn’t meet a certain standard of health and fitness. The work environment is inflexible and authoritarian, and the need to balance expectations with the needs of her children can make her feel isolated and anxious.

**JAHAR**

Jahar works informally at the docks doing manual labour. He doesn’t receive employee protections or benefits, though his employer enforces basic health and safety standards, otherwise it faces punitive fines from the local government. He lives in the cheapest housing he can find, in an unrecognised slum, so he can pay off the family debt and return to his village as soon as possible. Once back home, he knows he can work on the government run farm, but the pay would be much lower there. Jahar is chronically overworked and is given very few days off. He is glad to have a job but is desperate to get one that pays even more so that he can pay off the debt quicker, and he is anxious that his situation may not improve in the long term.
Forceful state water policy in California forced steep usage cuts in 2015 as the drought entered its fourth year, with unprecedented restrictions for both farmers and urban dwellers. (source: The Guardian)

Melting sea ice in the Arctic is currently increasing global methane emissions, risking a vicious cycle that exacerbates climate change further and in turn releases more methane from warming tundra. (source: UPI)

Sweden is currently actively considering a ‘meat tax’ to address the environmental impact of meat consumption and drive changes in farming and diet. (source: Futures Centre)
This is a world in transition to a new economic paradigm, triggered by a huge shift in mind-set that strongly prioritises wellbeing and sustainability over growth and consumption. GDP is no longer the main measure of success, and new metrics that look at quality of life are preferred. Societies value economic and social resilience, but growth and innovation are low. Mature economies are very low growth, while emerging economies experiment with different routes to social wellbeing, with mixed results, and where financial instability is in places. The scarcity crisis in water and energy has been held back so far by scaling back Western consumption and increasing resource efficiency, but it is unclear how long this will continue to work as the global population continues to rise.

There is widespread recognition that people need purposeful work. Automation works in tandem with meaningful employment so that greater numbers of people are employed in professions that require a human touch. There is a large focus on life outside work, and job-sharing is common in many countries to reduce unemployment. Life is slower paced. Technology develops at a more gradual rate and is largely focused on connection, wellbeing and sustainability. There is a holistic focus on health and wellbeing, emphasising the human element in healthcare over technology.

Global outlook and economy: This is a multi-polar world where global governance was boosted by the robust and lasting climate deal; although wrangles at the UN continue, there is a sense that the world can pull together when it really counts.

China is a near-mature economy levelling up as Europe and North America level down and consume smaller shares of global resources. Global trade is multilateral but has become more regionalised due to high transportation costs and the rise of distributed manufacturing; there continues to be a thriving international trade in designs and ideas. The rapid growth of the sharing economy has reconfigured whole sectors in the industrialised world, including banking, retail, energy and transport. Peer to peer (p2p) processes are mainstream and easy to use, with a focus on maximising resource efficiency and social benefit. Many generate a financial return for their members. There is a mix of profit and non-profit ownership structures.

Distributed manufacturing and digital fabrication are disrupting manufacturing worldwide and re-localising production.

Low carbon innovation is driving growth across the world, particularly in developing countries. The informal economy is particularly innovative in the face of scarcity. ‘Solidarity entrepreneurialism’ (like a peer to peer guild system) is boosting SMEs in the informal sector in emerging economies.

The global knowledge economy has become much more distributed and graduates in well-connected developing countries such as India take advantage of virtual platforms to work globally on multiple projects. Network effects are now better understood by policy-makers and many governments now see their role as keeping networks healthy. This includes preventing large peer to peer providers becoming quasi-monopolies. The marketplace is seen as a platform that should not be monopolised or this stifles innovation; priority is also put on providing fertile conditions for entrepreneurs, SMEs, and community initiatives.

Environment and Resources:

Energy, water and resource scarcity is being kept only just at bay by Energy has shifted to a decentralised system much more rapidly than expected, driven by the falling costs of solar panels and the expense of fossil fuels; there is massive emphasis on microgeneration and efficiency. Energy is not abundant everywhere, but ingenious sharing and trading solutions and demand-side management ensure that there is just about enough. Decentralisation is the watchword for new infrastructure, especially in developing countries where ad-hoc networks quickly spring up around multiple small-scale solutions for energy, water purification etc.

Water is similarly prized due to scarcity pressures; there is much greater emphasis on water reuse, grey water and microbiome products are reducing water use for personal care.

Transport is focused on energy efficient and low carbon solutions and sales of petrol cars have plummeted. Rentable electric driverless car systems are mainstream in many world cities, as are bike and electric scooter hire; ad-hoc informal transport networks in the developing world are digitally-enabled and often powered by cheaper local energy like solar and wind. Sugar, such as biodiesel and biogas. Long–distance rail is strongly resilient as air-travel becomes more expensive.

Technology: Societies are generally optimistic about technology but there is a growing ‘unplugged’ counter-movement fed by concerns about health and degradation of nature and physical reality.

Monitoring and self-quantification technology is solidly mainstream and a great deal of anonymised big data from these sources is available to the creative commons. Concerns about privacy have dissipated as concerns about health and degradation of nature and physical reality.

Virtual reality (VR) has massively taken off in entertainment, work and education in industrialised nations. Immersive VR has displaced cinema and traditional gaming. Short VR holidays to exotic and fantastical worlds are everywhere and citizen networks access and act on their data.

Processes like ocean pumps, seaweed farming and biochar are starting to scale up in a race to stay below 1.5 degrees warming. Ecosystems are heavily stressed; massive citizen-led campaigns monitor core areas such as the Amazon. Some key fisheries are well-managed due to growing consumer desire for sustainable aquaculture; however others are close to collapse and the UN is trying to negotiate a global accord to enable pervasive recovery where this is possible.

Holistic, human-centred, slow growth, purposeful, community focused
Society and health

...are empowered. Societies are split between those who thrive in this entrepreneurial world and others who find it exhausting. This can be a destabilising world for the elderly and families, but it’s well suited to young adults. Despite high food prices, the cost of living has stabilised for those prepared to engage fully with the sharing economy. Life feels insecure and isolated for those excluded from sharing systems, but in networks remain a massive problem due to the growing global middle class and associated lifestyle factors. National health systems are delivered by a mix of public and private providers.

Society

Attitudes to ownership have changed across the world, giving priority to access; micro- and sharing systems for consumer goods are the norm. Status is tied to access levels, while ownership is increasingly associated with the hassle of full lifecycle costs. Technology enables trust via reputation systems. While peer-to-peer networks create a sense of community, they also fuel polarisation and self-segregation. Loyalties are easily shiftable and peoples’ sense of belonging is fragile. Peer-to-peer networks in developing countries tend to operate outside government control and many are based in the informal economy; this reduces bureaucracy and some forms of corruption, but can also cause problems with accountability.

Developing nation citizens are finding it easier to adjust to the entrepreneurial world and a great deal of innovation comes from countries like India and Kenya. Slums are increasingly renowned as sources of educated, creative and resilient workers and in India pioneering companies are setting up innovation centres in some of them. Some developing countries are experiencing a demographic and gender dividend as the Millennial generation matures and uses its increasing empowerment to force more accountability from business and government. Others are subject to ‘virtual brain drain’ as their best graduates are attracted to projects that benefit only the wealthy or developed countries.

Co-housing is on the rise in the developed world as a way for families to share living costs and childcare duties; the elderly also increasingly use it as a way to stay socially connected and independent for longer. Wellbeing is strongly linked to work; creative, fulfilling work that improves society is seen as the ideal and there is a premium on innovation and creativity; long-term unemployment is stigmatised and overwork feels more squeezed than ever between competing pressures. VR workplaces have replaced large offices – the major health benefits of physical workplaces are small and act more as a core hub, with most activity arriving via virtual reality. The eldery are almost a counterculture; most use technology much less and emphasise the importance of physical reality to the younger generation.

Traditional government institutions (e.g. dealing with education) find it difficult to keep up with the pace of change and are generally mistrusted or considered ineffective; government is often left with the harder problems and those excluded from sharing systems. Networked civil society is powerful and has great influence on the direction of policy.

Health

Many people in rich countries still eat too much meat; civil society across many countries is campaigning for meat consumption to be banned in order to kill three birds with one stone – NCD risks, rising food demand and climate change mitigation; some governments are trialling meat taxes.

Mental health is a mixed picture; those with good networking abilities tend to have fulfilling work and a sense of community to draw on; however isolation and loneliness remains a big problem for many others; ‘junk virtual worlds’ full of vapid bots and mindless violence are blamed for causing new levels of social maladaptation and narcissism; family life feels much more isolated than ever between competing pressures.

Mental health is increasingly recognised as an issue in developing countries as urbanisation, development and social disruption strains traditional support structures such as the extended family.

Healthcare

Self-monitoring and advances in big data and genetics have led to a boom in personalised healthcare in the developed world. Subscription wellbeing services offer tailored diet and exercise packages to maximise physical performance and to optimise physical and mental health.

National health systems have become more decentralised, and more focused around the needs of the elderly. More self-care and self-diagnosis is expected of the young and able-bodied – first aid is taught at school and sophisticated apps assist with diagnosis and treatment of common problems and minor injuries. Doctors are an expensive resource and are expected to be reserved for more serious problems.

Telemedicine has massively increased access to healthcare in the developing world, as have self-care kits, although quality varies widely. VR is used for dementia therapy – calming interactive environments soothe and engage sufferers. Some workplaces use specialist VR environments to help employees with mild dementia stay working for longer.

Business and the workplace

...is seen as a source of innovation and a force for progress. Multinationals and big business in general are seen as slow moving compared to companies in the sharing economy and is now being further disrupted by digital fabrication and 3D printing. The sector is small but growing, particularly in developing countries and the explosion of informal maker-space entrepreneurs in developing countries. Successful companies sell access, info and services rather than physical goods. The rapidly shifting business environment favours agile, innovative companies; multinationals are finding it difficult to compete with swarms of enabled SMEs.

Workplace

Businesses have more personal relationships with their employees and focus on worker wellbeing and purposeful work; psychological wellbeing is prioritised.

Overall productivity gains due to automation mean people have to work less to produce the same; most office workers work part-time and jobs, manufacturing is mostly automated and requires a few highly skilled workers.

Group work is highly valued and workplaces are more face-to-face and collaborative; there is a shift away from remote work; physical presence is prioritised but ‘presenteeism’ is looked down on as a waste of time and many developed countries have caps on working hours.

Most people expect to continue working into their seventies as pension returns are low and universal incomes are set at survival levels; workplaces focus on being inclusive and supportive of older workers to make best use of their experience, and the old often job share with the young.

Worker health and safety and skill development are priorities in developing countries and companies work closely with rural smallholders to improve agricultural practices; multinationals are expected to provide systemic benefits to communities, especially in the areas of food security and medical care.

The informal sector remains large and unregulated in the Global South; a few countries such as India are attempting formalisation via inclusion of representatives in local government and staged extension and enforcement of regulation.
**John**

John is employed 4 days a week for the local health co-op, on a permanent contract. He is well-known and liked in the local community; in his leisure time he volunteers with the local sports team and offers basketball coaching to youth. The health co-op gives him a quarterly check-up for preventative health and psychological wellbeing, which helps him manage his tendency to depression. He enjoys feeling useful but sometimes feels frustrated at the limited scope to progress his career.

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**Claire**

Claire runs creative workshops teaching people how to upcycle old homewares and furniture. Self-employed, she has developed partnerships with other organisations such as community centres and colleges and has a full portfolio of courses. She lives in a creative community with a communal kitchen and shared workshop and studio space; they encourage each other to develop their own art and to share it at local exhibitions. Community members with children help each other out with childcare, so everyone can participate in community events and festivals. Her work is very varied and she loves taking part in community projects. She has a free annual health check at her local doctor’s surgery; she takes part in regular mindfulness sessions at her local community centre. She enjoys working creatively with other people but is frustrated by the limited options for expanding her business.

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**Sita**

Sita is a customer service executive at a local social enterprise; she often makes visits to customers’ homes and likes it. She enjoys feeling useful but sometimes feels frustrated at the limited scope to progress her career. The company-provided workers’ adviser has given her advice about how to set up a farm and run it from home. She lives in a vibrant community with a communal kitchen and shared workshop and studio space. They encourage each other to develop their own art and to share it at local exhibitions. Community members with children help each other out with childcare, so everyone can participate in community events and festivals. Her work is very varied and she loves taking part in community projects. She has a free annual health check at her local doctor’s surgery; she takes part in regular mindfulness sessions at her local community centre. She enjoys working creatively with other people but is frustrated by the limited options for expanding her business.

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**Richard**

Richard maintains the local combined heat and power (CHP) network. He’s a part-time employee working 3 days a week and is busy training new engineers. He enjoys working with the young, though he has a lower income than he was previously used to. Health checks flagged dementia early, which is helping him to delay the onset and stay in the workplace longer. He gets practical help to manage the dementia, both from the community and family who support him. This makes him feel supported, but it also makes him anxious about being a burden on his community in the long term.

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**Jahar**

Jahar works informally at the docks doing manual labour. He doesn’t have a contract, but basic health and safety standards are respected. There is a company-provided workers’ adviser who helps with savings accounts and setting up a pension. Jahar lives in a city to get out of the city. He is a company-provided workers’ adviser who helps with savings accounts and setting up a pension. Jahar has come to the city to earn more money to help pay for his and his family’s education. The workers’ adviser has shown him how to register at the local clinic so that he can access low-cost healthcare when he needs it. Work is hard and demanding, and he is determined to leave as soon as he has saved enough money. Jahar feels his situation is temporary and that he is saving money for a good purpose.

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**Rebecca**

Rebecca works at a local hospital as a physiotherapist. She often sees patients with physical injuries and likes it. She enjoys feeling useful but sometimes feels frustrated at the limited scope to progress her career. The hospital provides Rebecca with regular health checks and advice on how to stay healthy. She has a free annual health check at her local doctor’s surgery; she takes part in regular mindfulness sessions at her local community centre. She enjoys working creatively with other people but is frustrated by the limited options for expanding her business.

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**John**

John is employed 4 days a week for the local health co-op, on a permanent contract. He is well-known and liked in the local community; in his leisure time he volunteers with the local sports team and offers basketball coaching to youth. The health co-op gives him a quarterly check-up for preventative health and psychological wellbeing, which helps him manage his tendency to depression. He enjoys feeling useful but sometimes feels frustrated at the limited scope to progress his career.
An immersive journalism project aims to boost empathy with Syrian refugees through the use of virtual reality (VR). Participants can ‘experience’ the war via elements like a realistic rocket attack and a refugee camp.
(source: Futures Centre)

Several Dutch cities are experimenting with unconditional basic income payments; Utrecht and Tilburg are testing the policy and six other cities are considering pilot projects. In addition, a rural India pilot of an unconditional basic income scheme has recently been deemed a success that ‘transformed lives’ by improving welfare and emancipation and boosting local economic activity.
(source: The Guardian)

Sweden is shifting to a 6 hour workday; companies and organisations from both private and public sectors have trialled the practice and reported positive results.
(source: FastCo Exist)