**Challenges**

# Biodiversity loss

Decline in the variety of life as species become extinct locally or globally.

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**Challenges**

# Extreme weather events

Devastating weather such as floods, hurricanes and heatwaves, sometimes unexpected or unseasonal.

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# Hybrid warfare

The combination

of conventional and non-conventional warfare, such as mixing military power, fake

news and cyber attacks.

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# Democracy disillusionment

Loss of faith

in democracy.

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# Mental health emergency

The apparent rise in mental health problems.

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# Food and water insecurity

Unstable or inconsistent supply of food and water.

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# Air pollution

Harmful substances

in the air from sources such as vehicles’ exhausts or factory smokestacks.

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# Africa’s youth bulge

The consequences of Africa having so many young people, such as whether they can find work.

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# Polarisation

Societies becoming increasingly divided.

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# Ageing populations

The health, social and economic consequences

of the population getting older.

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# Urbanisation

The growth of cities and what that means for the way we live.

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**Challenges**

# Climate migration

People moving within or between

countries in response to climate change.

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# Big tech oligopoly

The digital sector being dominated by a handful of companies.

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# Automation

The consequences for employment

of more tasks being done by machines.

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# Post-growth economy

How to build

an economy that doesn’t grow yet fulfills the needs of citizens.

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# Data privacy

The need to keep data private when digital technologies can make it less so.

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# Pandemics

The worldwide

spread of a dangerous infectious disease.

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# Misinformation

The dissemination of lies for malicious or chaotic ends.

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# Rising inequality

The growing difference between the wealth and incomes of the rich and poor.

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# Energy transition

Shifting the global energy system from fossil fuels to zero carbon through major changes in supply,

markets, infrastructure and technology.

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# Antimicrobial resistance

New superbugs that have become resistant to existing medicines.

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# Surveillance society

Digital technologies allowing people to be watched by governments and corporations more than ever before.

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**Technologies**

# Holograms

Projected images that appear in three- dimensional space.



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# Smart tattoo

Tattoos with built in digital technologies for purposes like monitoring health or storing personal data.



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# Gene editing

Editing DNA sequences, for example to eradicate diseases or enhance other characteristics.



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# Behavioural biometrics

Identifying people by how they do things such as the way they walk.



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# DNA bots

Living machines made of nanotechnology and frog DNA, designed

for the highly targeted treatment of tumours.



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# Face recognition

Digital technologies that recognise people’s faces often using artificial intelligence.



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# Artificial intelligence

Computers that perform cognitive

tasks usually associated with human minds, particularly learning and problem solving.



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# Drone swarms

Multiple unmanned drones capable

of coordinating their actions to accomplish shared objectives.



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# Mind-machine interfaces

Allowing people to communicate with machines by thought alone.



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# Digital twins

A virtual version of

a living thing or object that might be used to

understand how it works or to make predictions about its behaviour.



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# Privacy enhancing technologies

Technologies that can mitigate security and privacy risks.



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# Lab grown food

Food grown in a laboratory rather than through traditional agriculture.



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# 4D printing

3D printing with materials that can change their properties over time such as when exposed

to heat or water.



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# Digital assistants

A computer programme that helps people

e.g. by answering questions or assisting with certain tasks.



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# Ubiquitous computing

The wireless communication and networking technologies behind Smart Homes

and the Internet of Things.



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# Wearable devices

Wearable tech like smartwatches and activity trackers.



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# Internet of Things

An interconnected online network of machines, devices and appliances with built-in computers.



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# Mixed reality

The merging of real and virtual worlds to produce new environments.



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# 360 degree video

Immersive or “spherical” videos that allow

the viewer to look

in all directions when watching them.



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# Multi-agent systems

A computer system composed of many interacting intelligent agents that can solve problems other sorts of computers cannot.



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**Guiding metaphor**

# “ Live for the day”

Thinking about the present rather than the future.



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**Guiding metaphor**

# “ Slow and steady wins the race”

Consistency might be slower than haste but is more effective.



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**Guiding metaphor**

# “ We can move mountains”

We can make big changes if we wish.



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**Guiding metaphor**

# “ Not in my backyard”

When people don’t want something that might benefit everyone located near them.



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**Guiding metaphor**

# “Resistance is futile”

Refusing to accept what is happening is pointless.



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**Guiding metaphor**

# “It takes

**a village”**

An entire community is needed to do something.



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# “Glass is half full”

Looking at things in a positive way.



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**Guiding metaphor**

# “Glass is half empty”

Looking at things in a negative way.



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**Guiding metaphor**

# “Out of my cold dead hands”

I will never concede.



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# “The end is nigh”

A sense of apocalypse or doom.



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# “Turkeys voting for Christmas”

People supporting something that is not in their best interests.



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# “Jumping the shark”

When something

that was once popular seeks publicity that only demonstrates

its irrelevance.



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**Guiding metaphor**

# “All hands on deck”

When all members of a team need

to get involved.



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**Guiding metaphor**

# “Over egg

**the pudding”**

Going too far when doing a task.



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**Design variables**

# Individual impact

Where the primary impact is on the thought or action

of individual people.



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# Community impact

Where the primary impact should be felt across a particular community.



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# Organisational impact

Where the primary impact is on the actions of an organisation.



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# In-person engagement

Engagement face to face.



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# Online engagement

Engagement using digital technologies.



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# Hybrid engagement

Engagement using

a combination of digital technologies and face to face interactions.



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# Near-term focus

In the next 5-10 years.



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# Medium-term focus

In the next 10-30 years.



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# Long-term focus

In the next 30 years plus.



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# Explicit image of the future

The future is clearly outlined such as a scenario

of a possible future.



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# Implicit image of the future

The future is implied but few specific details given

e.g. a world dealing with climate change.   
  
  


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# Curated participation

In the activity participants do not interact with each other and the experience is fixed.



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# Contributory participation

In the activity, participants contribute ideas, but the experience is fixed and they do not interact with each other.



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# Interactive participation

In the activity, participants can make contributions and interact with others.



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# Facilitated participation

In the activity, participants can contribute and interact substantially, even altering the course of the engagement.



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# Constitutive participation

In the activity, participants initiate

and run the engagement in the way they want.



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**Partners**

# International charity



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**Partners**

# Prime Minister’s Office



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**Partners**

# City government



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# Reddit trolls



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# Conservative seniors



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# Indigenous communities



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**Partners**

# Artist collective



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**Partners**

# Primary

**school children**



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# Tech billionaires



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**Partners**

# Migrant workers



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**Partners**

# Sci-fi writers



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**Partners**

# International space station crew



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# Youth leaders



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# Rural community council



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