

Challenges

Biodiversity loss

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



Challenges



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Challenges

Extreme weather events

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



Challenges



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Challenges

Hybrid warfare

The combination of conventional and non-conventional warfare, such as mixing military power, fake news and cyber attacks.



Challenges



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Challenges

Democracy disillusionment

Loss of faith
in democracy.



Challenges



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Challenges

Mental health emergency

The apparent rise in
mental health problems.



Challenges



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Challenges

Food and water insecurity

Unstable or inconsistent supply of food and water.



Challenges

Air pollution

Harmful substances
in the air from sources
such as vehicles' exhausts
or factory smokestacks.



Challenges



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Challenges

Africa's youth bulge

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



Challenges



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Polarisation

Societies becoming increasingly divided.



Challenges



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Challenges

Ageing populations

The health, social
and economic
consequences
of the population
getting older.



Challenges



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Challenges

Urbanisation

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



Challenges



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Challenges

Climate migration

People moving within or between countries in response to climate change.



Challenges



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Big tech oligopoly

The digital sector being dominated by a handful of companies.



Challenges



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Challenges

Automation

The consequences
for employment
of more tasks being
done by machines.



Challenges



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Challenges

Post-growth economy

How to build
an economy that
doesn't grow yet fulfills
the needs of citizens.



Challenges



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Data privacy

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



Challenges



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Challenges

Pandemics

The worldwide spread of a dangerous infectious disease.



Challenges



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Misinformation

The dissemination
of lies for malicious
or chaotic ends.



Challenges



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Rising inequality

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



Challenges



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Challenges

Energy transition

Shifting the global energy system from fossil fuels to zero carbon through major changes in supply, markets, infrastructure and technology.



Challenges



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Antimicrobial resistance

New superbugs that have become resistant to existing medicines.



Challenges



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Challenges

Surveillance society

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



Challenges



Our Futures

Challenges

Title

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Challenges



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Challenges



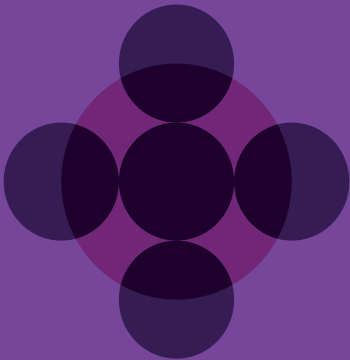
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Holograms

Projected images that appear in three-dimensional space.



Technologies



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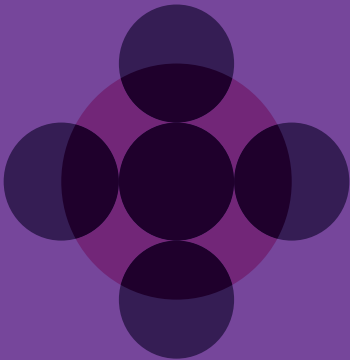
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Smart tattoo

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



Technologies



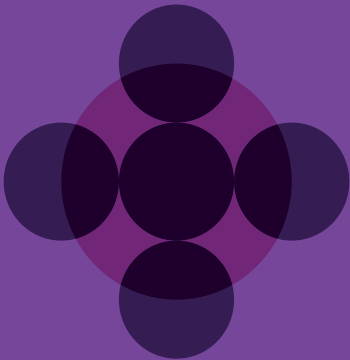
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Gene editing

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



Technologies



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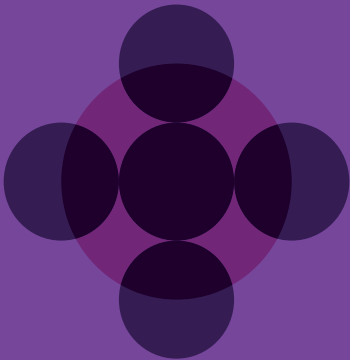
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Behavioural biometrics

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



Technologies



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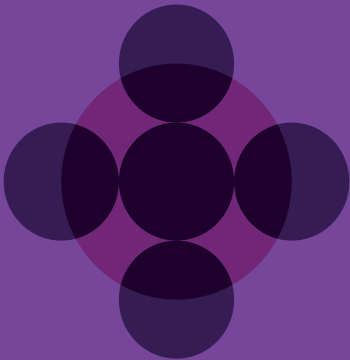
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DNA bots

Living machines made of nanotechnology and frog DNA, designed for the highly targeted treatment of tumours.



Technologies



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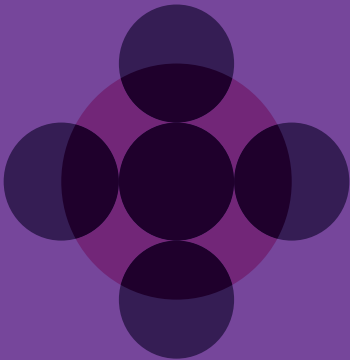
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Face recognition

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



Technologies



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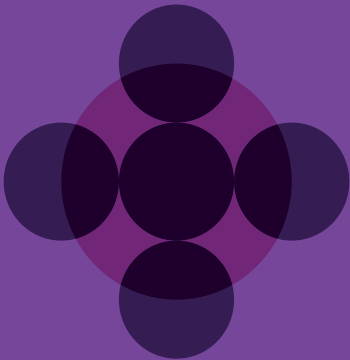
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Artificial intelligence

Computers that perform cognitive tasks usually associated with human minds, particularly learning and problem solving.



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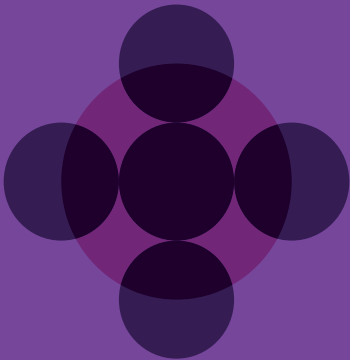
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Drone swarms

Multiple unmanned
drones capable
of coordinating their
actions to accomplish
shared objectives.



Technologies



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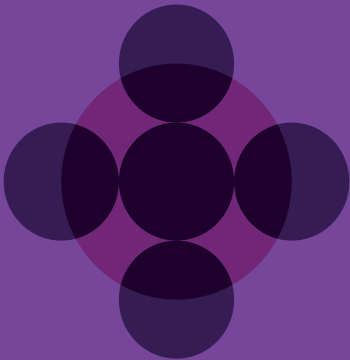
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Mind-machine interfaces

Allowing people
to communicate
with machines
by thought alone.



Technologies



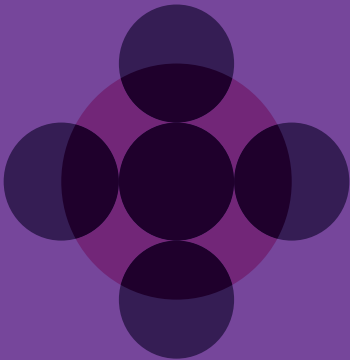
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Digital twins

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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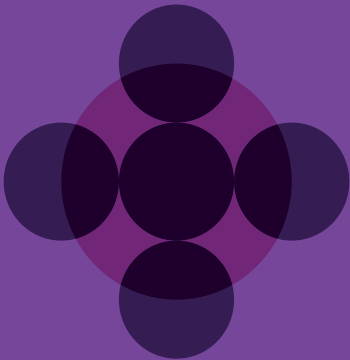
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Privacy enhancing technologies

Technologies that
can mitigate security
and privacy risks.



Technologies



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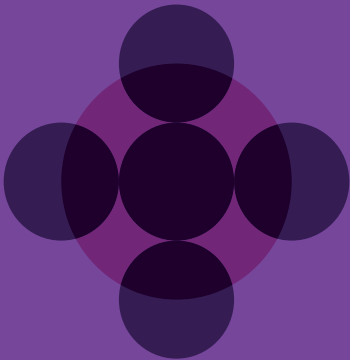
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Lab grown food

Food grown in a laboratory rather than through traditional agriculture.



Technologies



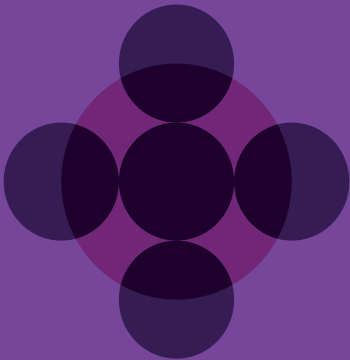
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4D printing

3D printing with materials that can change their properties over time such as when exposed to heat or water.



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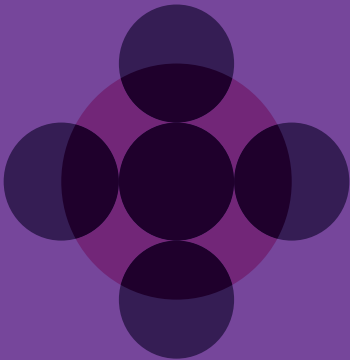
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Digital assistants

A computer programme that helps people e.g. by answering questions or assisting with certain tasks.



Technologies



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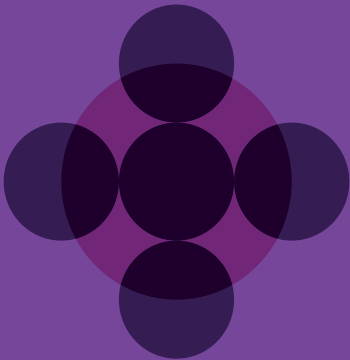
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Ubiquitous computing

The wireless
communication and
networking technologies
behind Smart Homes
and the Internet of Things.



Technologies



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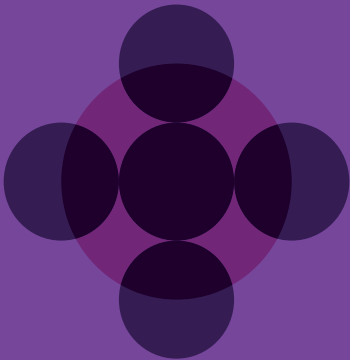
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Wearable devices

Wearable tech like smartwatches and activity trackers.



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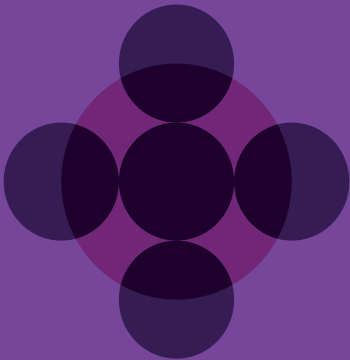
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Internet of Things

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



Technologies



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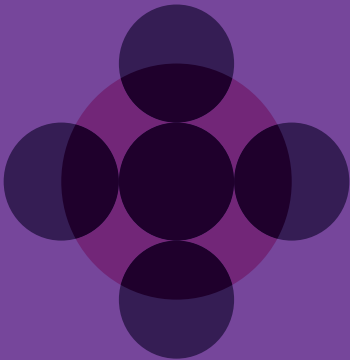
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Mixed reality

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



Technologies



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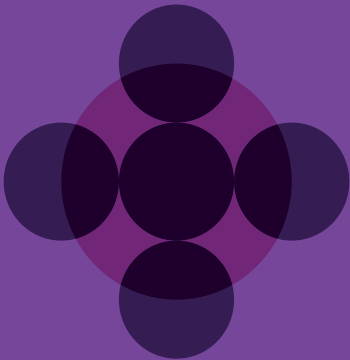
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360 degree video

Immersive or “spherical” videos that allow the viewer to look in all directions when watching them.



Technologies



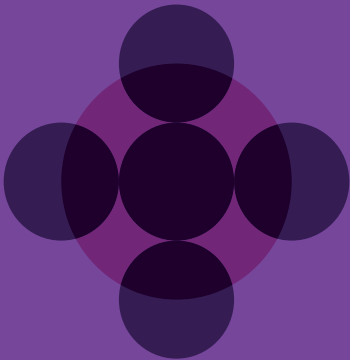
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Multi-agent systems

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



Technologies



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Technologies

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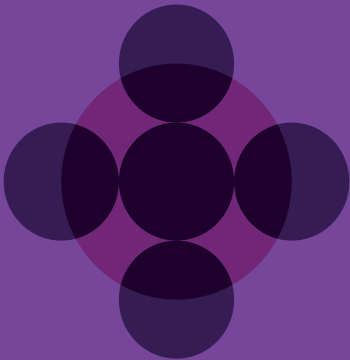
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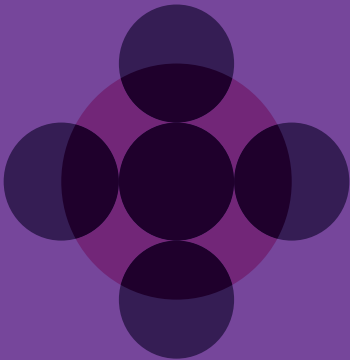
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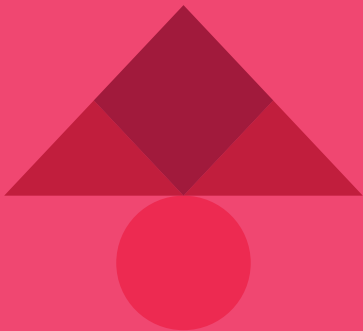
Guiding metaphor

**“Live for
the day”**

Thinking about the present
rather than the future.



Guiding metaphor



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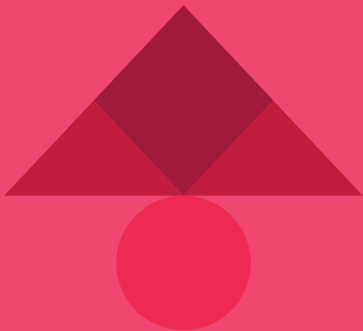
Guiding metaphor

“Slow and steady wins the race”

Consistency might be slower than haste but is more effective.



Guiding metaphor



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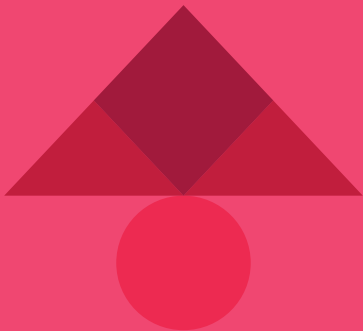
Guiding metaphor

“We can move mountains”

We can make big changes if we wish.



Guiding metaphor



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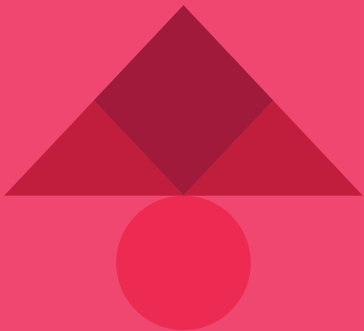
Guiding metaphor

“Not in my backyard”

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



Guiding metaphor



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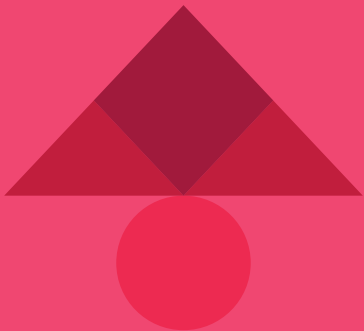
Guiding metaphor

“Resistance is futile”

Refusing to accept what is happening is pointless.



Guiding metaphor



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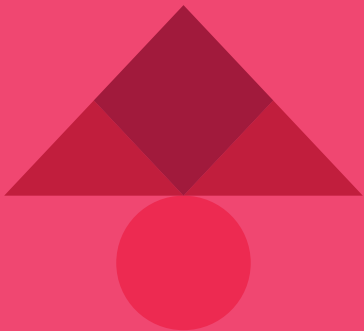
Guiding metaphor

**“It takes
a village”**

An entire community is
needed to do something.



Guiding metaphor



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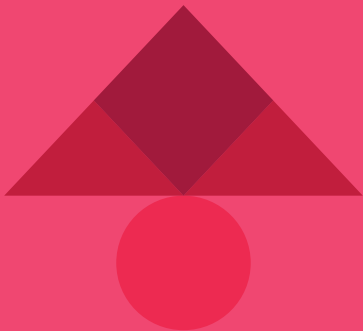
Guiding metaphor

**“Glass is
half full”**

Looking at things
in a positive way.



Guiding metaphor



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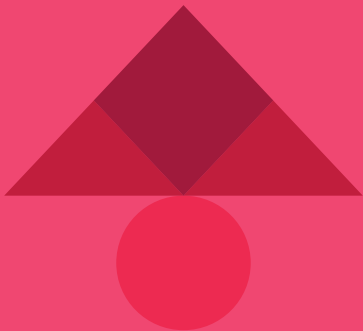
Guiding metaphor

**“Glass is
half empty”**

Looking at things
in a negative way.



Guiding metaphor



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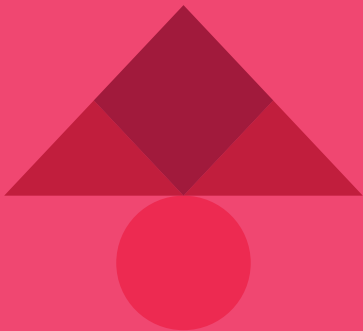
Guiding metaphor

**“Out of my cold
dead hands”**

I will never concede.



Guiding metaphor



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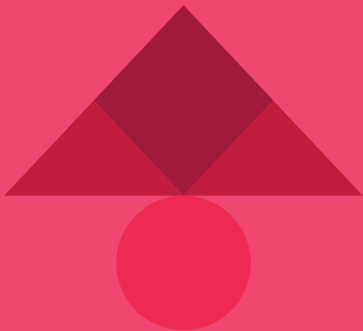
Guiding metaphor

**“The end
is nigh”**

A sense of apocalypse
or doom.



Guiding metaphor



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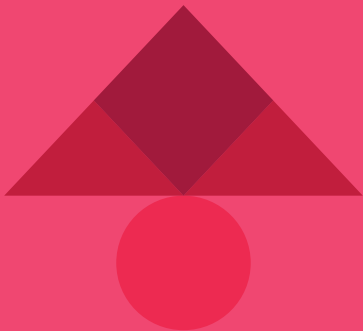
Guiding metaphor

“Turkeys voting for Christmas”

People supporting something that is not in their best interests.



Guiding metaphor



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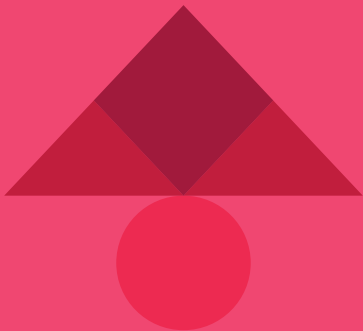
Guiding metaphor

“Jumping the shark”

When something that was once popular seeks publicity that only demonstrates its irrelevance.



Guiding metaphor



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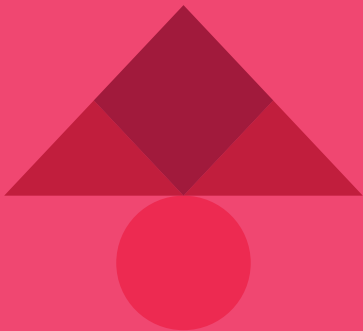
Guiding metaphor

“All hands on deck”

When all members of a team need to get involved.



Guiding metaphor



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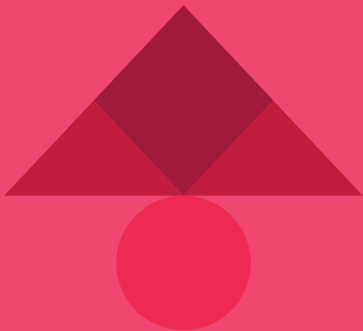
Guiding metaphor

**“Over egg
the pudding”**

Going too far when
doing a task.



Guiding metaphor



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Guiding metaphor

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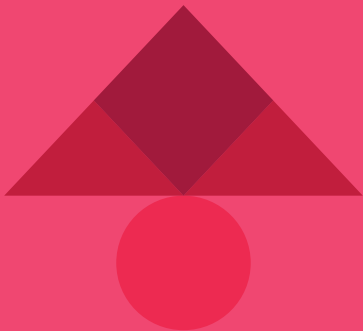
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Guiding metaphor



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Guiding metaphor

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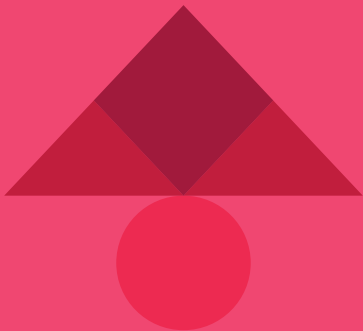
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Guiding metaphor



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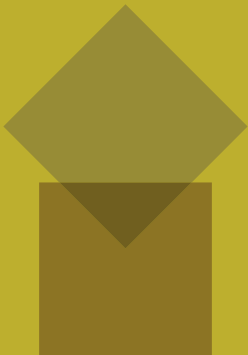
Design variables

Individual impact

Where the primary impact is on the thought or action of individual people.



Design variables



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Design variables

Community impact

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



Design variables



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Design variables

Organisational impact

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



Design variables



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Design variables

In-person engagement

Engagement
face to face.



Design variables



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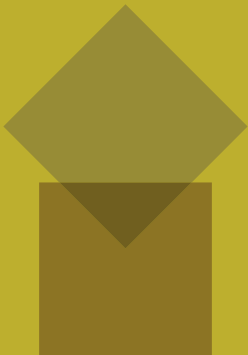
Design variables

Online engagement

Engagement using
digital technologies.



Design variables



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Design variables

Hybrid engagement

Engagement using
a combination of digital
technologies and face
to face interactions.



Design variables



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Design variables

Near-term focus

In the next 5-10 years.



Design variables



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Design variables

Medium-term focus

In the next 10–30 years.



Design variables



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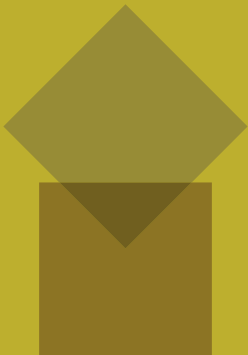
Design variables

Long-term focus

In the next 30 years plus.



Design variables



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Design variables

Explicit image of the future

The future is clearly outlined such as a scenario of a possible future.



Design variables



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Design variables

Implicit image of the future

The future is implied but few specific details given e.g. a world dealing with climate change.



Design variables



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Design variables

Curated participation

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



Design variables



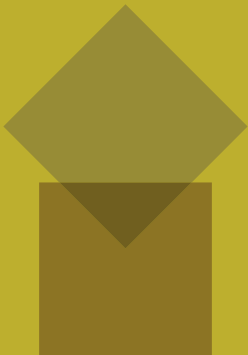
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Contributory participation

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



Design variables



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Interactive participation

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



Design variables



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Design variables

Facilitated participation

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



Design variables



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Constitutive participation

In the activity,
participants initiate
and run the engagement
in the way they want.



Design variables



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Design variables

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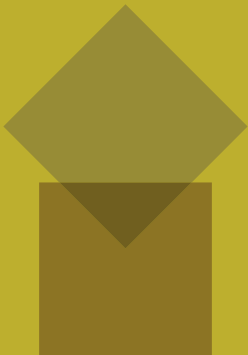
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Design variables



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Design variables



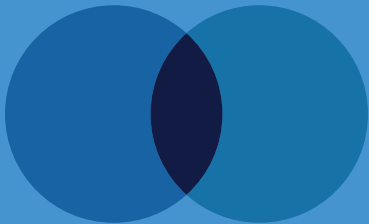
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Partners

International charity



Partners



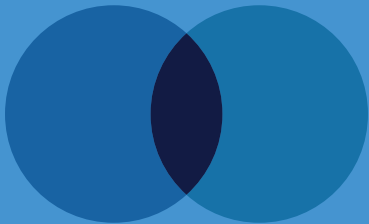
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Partners

Prime Minister's Office



Partners



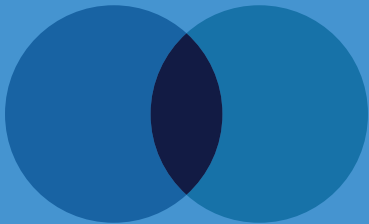
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City government



Partners



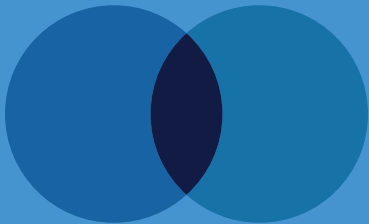
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Reddit trolls



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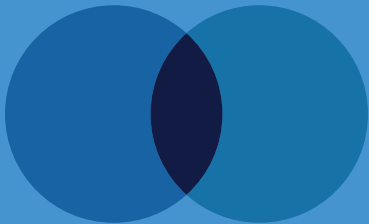
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Conservative seniors



Partners



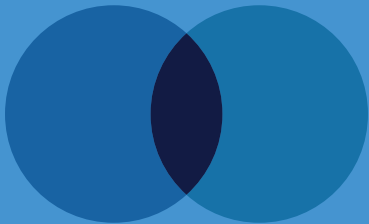
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Indigenous communities



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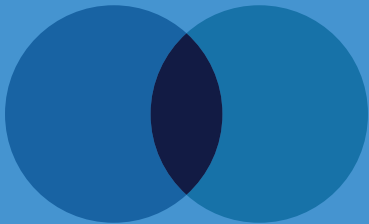
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Artist collective



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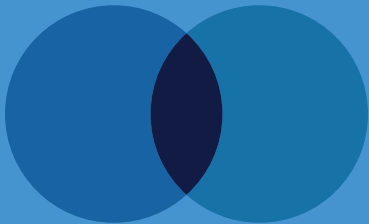
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Primary school children



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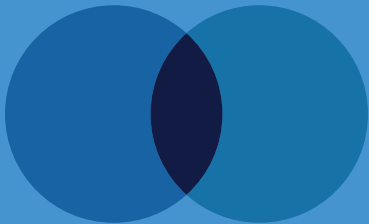
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Tech billionaires



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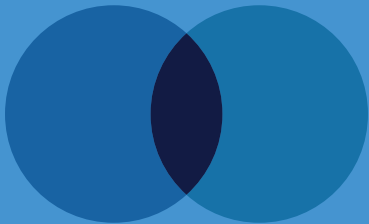
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Migrant workers



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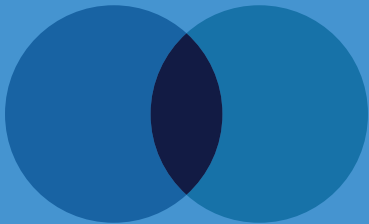
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Sci-fi writers



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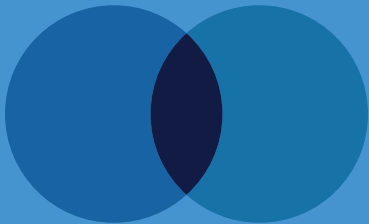
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International space station crew



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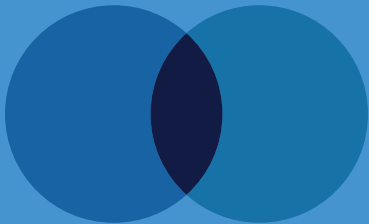
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Youth leaders



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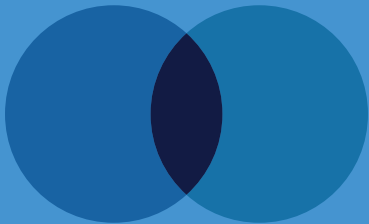
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Rural community council



Partners



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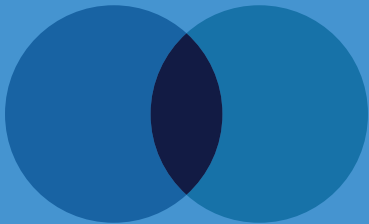
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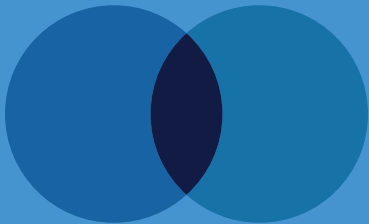
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Our Futures