Constructing Social Futures

- Sustainability, Responsibility and Power



Dr Michael Jackson, Shaping Tomorrow, 12–13 June 2019 in Turku, Finland

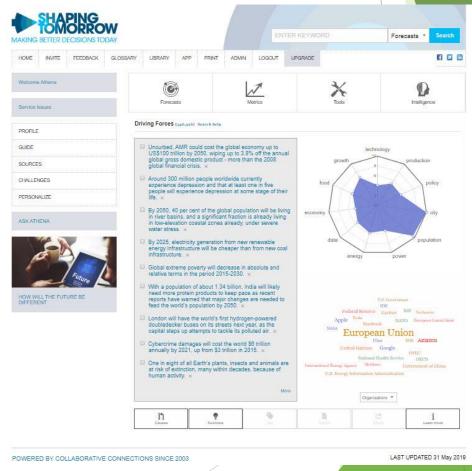
Constructing Social Futures - the process

1. Conference survey results



Fully human-produced with summation by a text analyser

2. Digital foresight from our robot



Almost fully robot-produced except for the bulleted summaries

Summary conclusions



Conference Survey

- Climate Change is top concern
- Privacy is also a high concern
- Societal education is key
- Promote foresight far more
- IT is seen as an enabler of change
- Kindness needs to top hostility
- Accent the good, minimise the bad
- Use less, recycle, repair more
- Encourage long-term value generation
- Action now!

Robot's Findings

- Increasing societal demands for action
- Accelerate push for global sustainability through greater societal education
- Need for common societal vision, values and goals
- Concentrate on creating sharing economies, improving cities and their organizations with the use of better intelligence and reducing consumption
- Engage with Generation Alpha
- Action now!

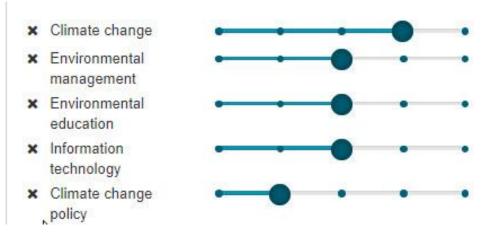
Conference results

Key messages

- Educating people and business is key
- Climate change is where to start
- Use technology to spread the message and improve lives
- ▶ Be kind, accent the good, use less



How will the future be different?

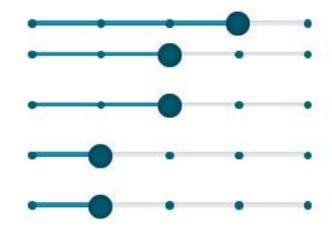


Climate change and IT stand out



Why is this important?

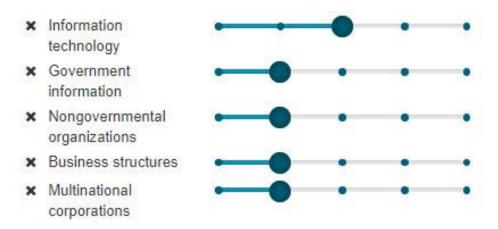
- Climate change
- Ecological sustainability
- Information technology
- Employment interviews
- Multicultural education



Climate change and IT again stand out as well as education



Who will shape our future?



Focus on IT!



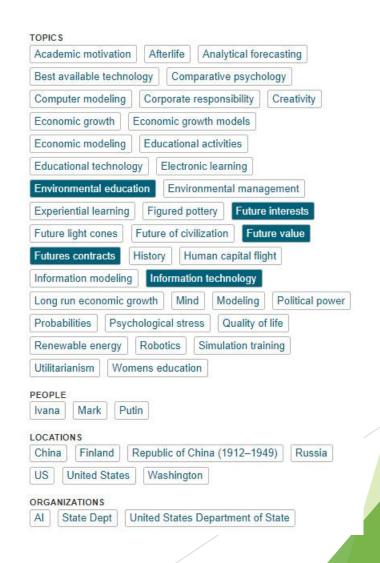
What might we do about it?

Environmental education
Information technology
Futures contracts
Future interests
Future value

Educate people using IT

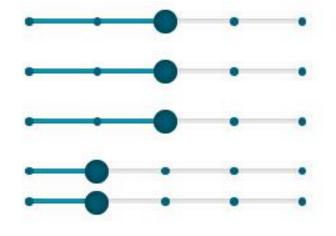
When?

Overwhelmingly now!



Where should we focus?

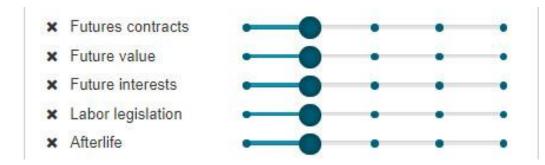
- Information technology
- Environmental management
- Environmental education
- × Renewable energy
- Experiential learning



Educate people using IT



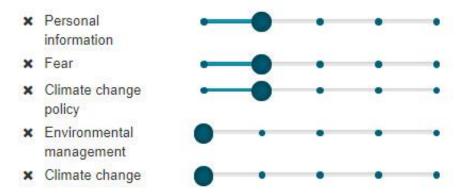
What's in it for you?



Value generation!



What threatens you?



Privacy and climate change dominate



Robot's findings



Driving Forces

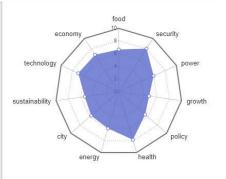
What is changing?

- "In 2019, consumers, businesses and governments will no longer simply seek meaningful change, they will have to actively take responsibility for it."
- "The European Union (GDPR) initiative taps in to a global debate about when or whether companies should put ethical concerns before business interests, and how tough a line regulators can afford to take on new projects without risking killing off innovation."
- "While the UN PRI is a voluntarily regime, local regulators are beginning to implement their own ESG frameworks. Responsible investment is gaining ground in China after a slow start."



- Researchers suggested that global consumption of red meat and sugar will need to decrease by more than 50% by 2050. x
- ☐ Government directives the world over are striving for nearly zero-energy buildings by the end of next year, and for net zero carbon buildings by 2030, meaning they will have to be 100% sustainable as far as heating, hot water, ventilation and cooling requirements are concerned. ★
- Global climate change and decarbonization is perhaps the most important issue SRP will face over the next several decades, impacting operations, customer demands for sustainable energy options, water availability, and forest health. *
- Freshwater has reduced by 60 percent in the last four decades in the MENA region and is expected to fall a further 50 percent by 2050. *
- WWF recently estimated that land use and sustainable agriculture could provide up to 30% of the solutions needed by 2030 to tackle the global climate crisis.
- The FAO says agriculture, including forestry, fisheries and livestock, generates around a fifth of the world's greenhouse gas emissions; a figure that will need to fall if global warming is to be kept at 1.5 C by 2030, as leading climate scientists advise. *
- There will be a specific focus on drought and agricultural risk and the cascading impacts that can ensue. x
- According to DNV GL, the global energy consumption will peak in 2035 - and afterwards, decline
- If the natural environment continues to be degraded and unsustainable pressures put on global water resources, 45 per cent of the global gross domestic product, 52 per cent of the world's population and 40 per cent of global grain pro- duction will be put at risk by 2050. **

More





Organizations *

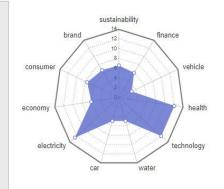
Causes



Who and what are causing these changes:

- From global school strikes led by Swedish 16-year-old Greta Thunberg to the Green New Deal, led by the youth-based Sunrise Movement and 29-year-old Rep. Alexandria Ocasio-Cortez, young people across the globe are making it clear they will not accept inaction."
- "The environmental crisis has sharply accelerated and economic development is not happening for too many people while inequality has reached dramatic levels, putting basic human rights at threat."

- ☐ Lithium-ion batteries are predicted to be the key technology of the next decade, the world's next biggest commodity and an essential factor in the widespread market adoption of EVs. ×
- Climate change is expected to cause approximately 250,000 additional deaths per year between 2030 and 2050.
- G-20 leaders could make a significant contribution to providing the impetus toward advancing systemic sustainability by creating a G-20 Global Sustainable Development Council charged with pulling together the national statistical indicators and implementing benchmarks on the SDGs in G-20 countries
- There are thousands of workers' lives at risk across Australia from accelerated silicosis and other OLDs. *
- All basmatl rice sold under the world's largest rice brand will be sourced under a sustainability platform to address human rights issues in supply chains and improve the environmental impact of farming practices. x
- ☐ Tiny plastic particles washed off products such as synthetic clothes and car tyres could contribute up to 30% of the 'plastic soup' polluting the world's oceans and are a bigger source of marine plastic pollution than plastic waste. ×
- At least two thirds of the world's population will face 'water stress' by 2025 and the number of people affected by floods could increase by a factor of three by 2100. *
- More than 90% of consumers around the world today will move to brands associated with a good cause. *
- Groundwater depletion threatens the sustainability of the Colorado River. *



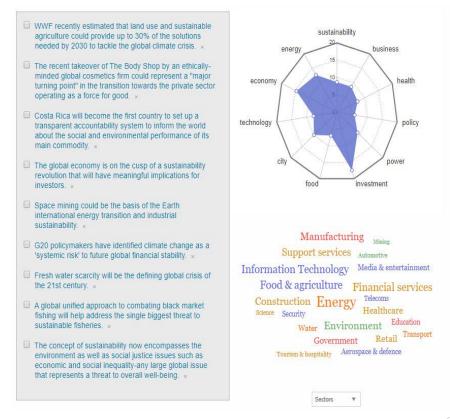


Sources

Potential solutions



- Solutions emerge through many future crises
- Demise of traditional right/left politics
- Rise of populism, liberalism and greens
- Focus on sustainability education
- Rise of business/investment for good?
- Rise of well-being initiatives
- Rise of proactive vs reactive responses



New technologies e.g. big data, robots, drones sensors, renewables solutions, 3D printing, 5G

Cloud



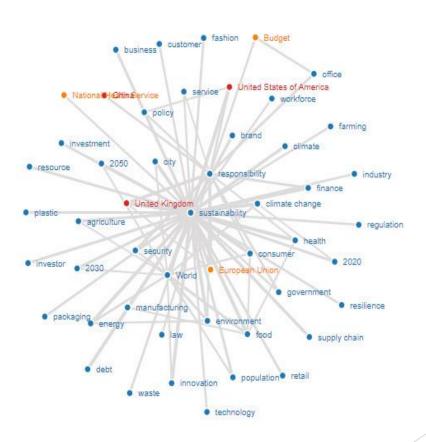
- The key debates on how to reach global sustainability through constructing social futures revolve around the future of water, business, health, the economy, consumption, energy, technology, cities, food and population growth.
- But the Cloud also shows the myriad of other topics that need addressing to optimize Sustainability, Responsibility and Power e.g. climate change, conflict, immigration and security.



System map



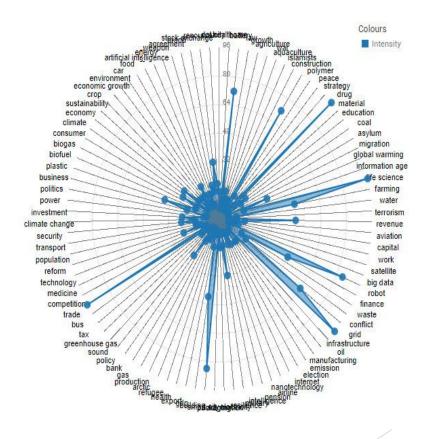
- Mapping these onto a systems map, shows that the prime responsibility for achieving sustainability rests with consumers, business and city/regional governments.
- The complexity of achieving sustainability will require everyone to work to a common vision, values and goals and for communications and education to be consistent in their message.
- The question is how with different parts of the world moving at different speeds, needs and future interests?



Radar chart



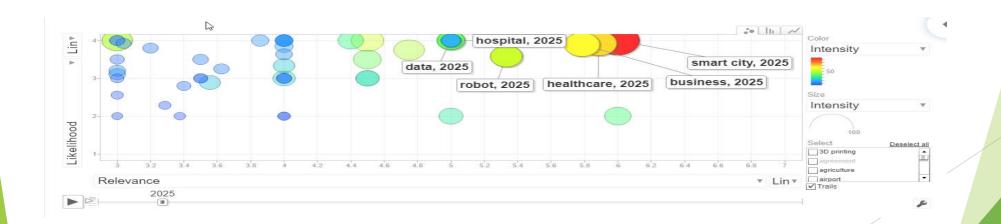
- On a topic basis, achieving social futures will rely on massive changes to trade, infrastructure, cities, batteries and energy grids as well as the need for new drugs, life science development and the use of many more robots.
- This will not be achieved without focused, determined and constant investment around the world.



Graph-It



- ▶ By 2025, we can expect to see smart cities, health organizations and business significantly embracing social futures.
- ► They'll be assisted by an exponential explosion in data analysis and robotics to help begin solving many of today's existing challenges.



Spline chart



- In the past three years the two presented Trend Wave charts show there has been a significant raising of awareness about the need to embrace social futures with many experiments underway.
- ▶ We are currently likely to see efforts reach a peak in 2024 but it is entirely possible that new solutions might see the peak arrive around 2040.
- Failure will likely produce mounting rage, particularly among young people.

Today

120 80 40 2018 2020 2022 2024 2026 2082 2030 2032 2034 2036 2038 2040 2042 2044 2046 2048 2050 2052 2054 2056 2058 2060 2062 2064 2066 2068 2070

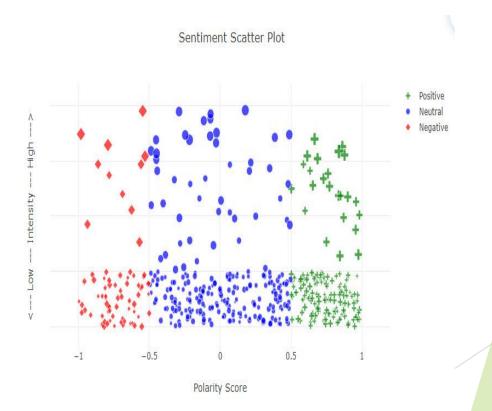
Three years ago



Sentiment

- Overall sentiment is relatively balanced. Positive sentiment is being expressed by pundits and the public towards efforts to increase resiliency, better energy use and associated emissions reduction.
- But, while there is also a hope for peace, negative sentiments revolve around the threats of continued terrorism, new and existing crises that could lead to war,
- These include North Korea, Ukraine, US/China/Russia conflict and a Middle East conflagration involving Iran, Israel, Hezbollah, Syria, Turkey et al and threats to global supply and productivity through escalating trade wars.





Pie charts



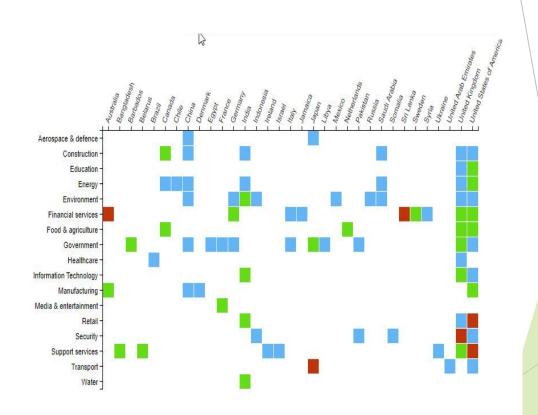
- Achieving sustainability is likely to take the rest of this century but it's a prize worth having in terms of the billions and trillions of dollars that experts attach to delivering social futures worldwide.
- However, most initiatives are still at early stage (65%) with almost all the remainder still evolving or gaining traction.
- Much more needs to be done for the world to accept a new social future compact by the estimated tipping point of 2036.



Heat Map



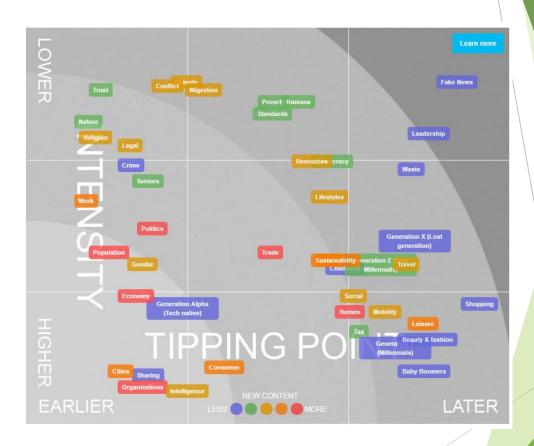
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Emergent drivers



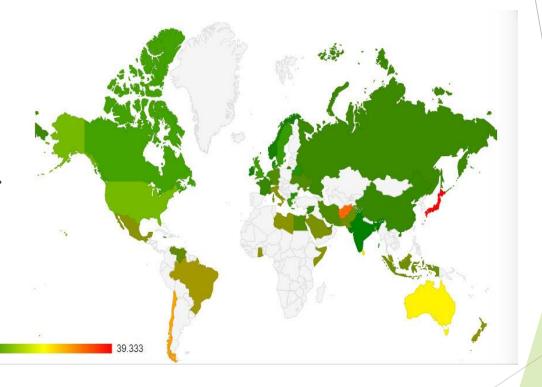
- As a starting place the emergent drivers chart shows experts suggesting that the initial focus for now should concentrate on creating sharing economies, improving cities and their organizations with the use of better intelligence and reducing consumption.
- And, very importantly, engaging with Generation Alpha, the first generation born entirely within the 21st century (e.g., Greta Thunberg), to create the future world they want to live in, today.



Geography



- ► Two countries are leading the charge: Japan and Australia.
- But efforts elsewhere are low by comparison to what needs to be achieved in the next two decades.



Leader board



► The Leader board also shows the paucity of global leaders pushing for global sustainability but also the EU taking a longer term and welcome positive approach to be the leading, sustainable region.

Topics	
sustainability	730
economy	139
environment	130
energy	129
city	125
food	107
technology	106
government	98
consumer	96
resource	92
Organizations	
European Union	69
National Health Service	26
United Nations	16
CSR	16
IMF	8
Walmart	6
International Energy Agency	6
Bank of England	5
Mintel	5
ISIS	5

United States of America	114
United Kingdom	95
China	62
India	26
Australia	21
Iran	14
Canada	13
France	13
Russia	11
Japan	10
Actors	
Donald Trump	3
Wang Yi	1
Elon Musk	1
Emmanuel Macron	1
Michael Carlos	1
George Osborne	1
Carney, Mark	1
Philip Hammond	1
Xi Jinping	1

SWOT



- Given the above it is not surprising that opportunities for improvement considerably outweigh the threats associated with delivering social futures.
- Come on in, the water's warm!



Discussion

Next steps?



Sources

- Athena used these sources as the top ones to create this report and determined which embedded forecasts are included in this Trend Alert.
- She found 6,648 forecasts in seconds on 23rd May 2019 to allow us to publish the full report in less than two hours and produce this presentation in under one hour from a standing start!
- Copies of the full report are available on request from

mike.jackson@shapingtomorrow.com

