

The Emerging Economy 2030: Some initial explorations

Public Service Foresight Network 22 July 2016







THE HORIZONS FORESIGHT METHOD

The Horizons Foresight
Method is a rigorous and
systematic approach that
allows us to test
assumptions against a
range of plausible
futures and identify
policy challenges and
opportunities

FRAMING

ASSUMPTIONS

SCANNING

SYSTEM MAPPING

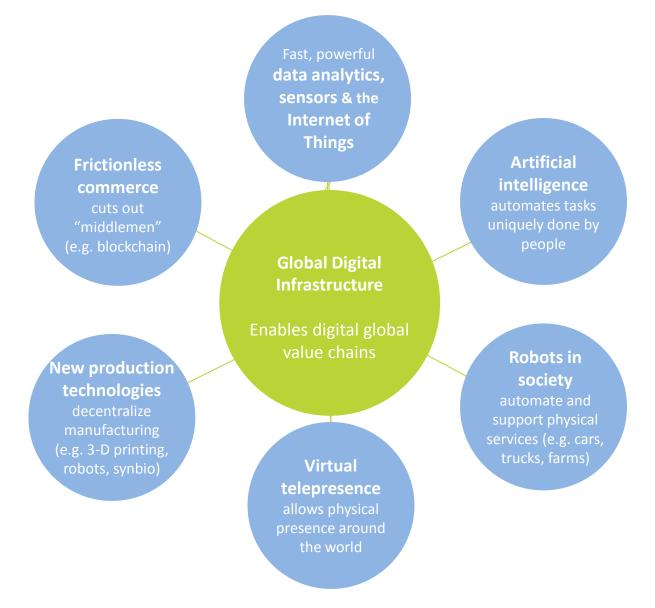
CHANGE DRIVERS

SCENARIOS

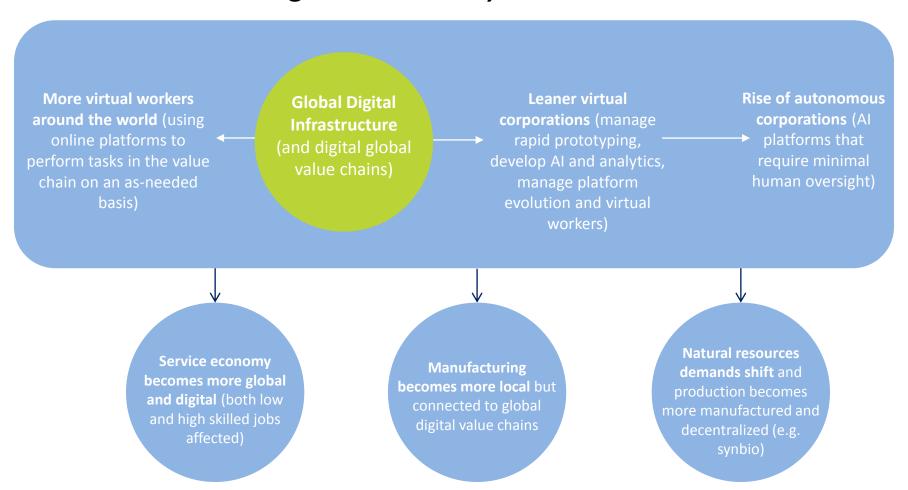
RESULTS

- Identify the issue or problem of interest
- Consider the larger system(s) shaping the issue
- Prepare a simple domain diagram of what is "in" or "out" as a guide.
 Allow it to evolve over the study.
- Identify "current assumptions" buried in public dialogue and policy documents
- Identify key trends people assume are true
- Summarize key assumptions as a description of the expected future.
- Scan for weak signals of potentially disruptive changes
- Conduct interviews and facilitate dialogue to understand the system and develop insights
- Identify key elements or nodes in the system
- Describe key relationships
- Use a system map to identify where change could occur and direct further scanning for weak signals as needed
- Use insights from scanning to identify change drivers shaping the system
- Do influence maps to see 2nd to 5th order consequences
- Develop scenarios to explore a range of futures
- Identify potential challenges and discontinuities
- Test robustness of current assumptions and strategies
- Explore policy challenges and opportunities
- Identify credible assumptions and robust strategies
- Identify key uncertainties, surprises and emerging issues
- Better understand how the system or issue could evolve

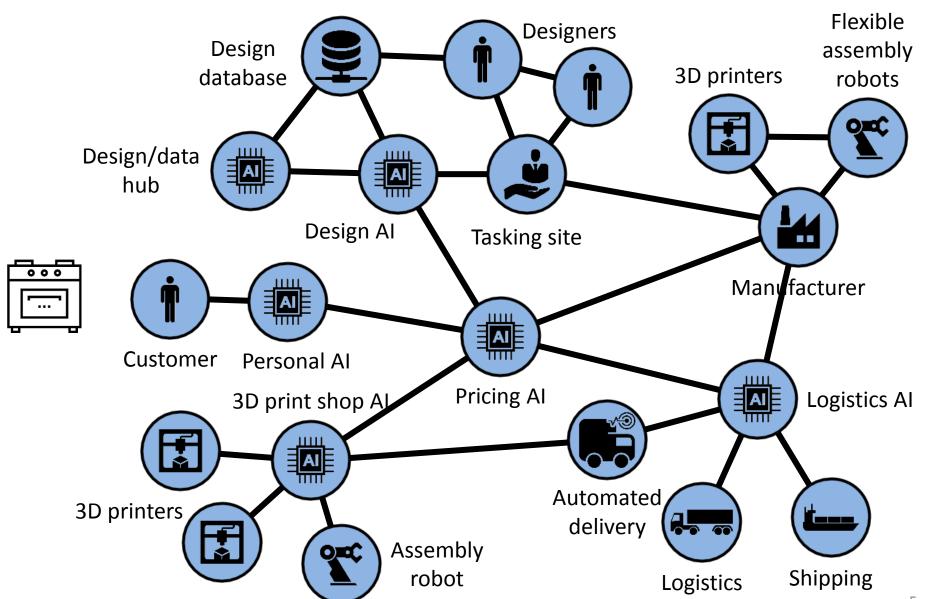
A new global digital infrastructure is emerging...



... that could transform global economic, labour, energy, and governance systems...



... Into a digitally intermediated mesh economy (DIME)...



DIGITAL DISRUPTION DRIVES GLOBAL ECONOMIC CHANGE

What is driving change?

What is changing?

What are the emerging challenges/opportunities?

Evolving digital technologies

Decentralized Autonomous Organizations

Virtual workers on digital platforms

Collaborative economy

Many economic sectors decline or transform. Period of turbulence and opportunity.

As a result of new technologies, a growing portion of the economy is shaped by zero marginal cost.

A wide variety of goods and services become cheap or free, increasing consumer welfare.

A period of near-zero GDP growth due to potentially falling prices, wages, and profits.

Need to support adaptation and innovation that best advance consumer welfare.

Digital trade becomes truly free.

Taxation and other instruments
may be less effective in the
emerging digital era.

VIRTUAL WORK COULD TRANSFORM GLOBAL LABOUR MARKETS

What are the emerging What is driving change? What is changing? challenges/opportunities? Global convergence of wages in a Job growing number of occupations unbundling **Automation** As automation erodes Increase in non-standard and traditional jobs, billions of insecure work **Evolving** skilled workers move into digital the global digital services technologies market, accelerating the Challenge to social safety nets, tax expansion of global virtual revenues, social cohesion work Collaborative economy Potential backlash from those left behind or moving at different speeds

...all of which could create a range of plausible futures...

SCENARIOS 2030

	Muddling Through - As we react to problems	Slow Decline - In a world experiencing a long period of deflation	Gradual improvement - As we embrace new technologies	Transformation - As we proactively address complex issues
Economy	Half the economy is digital. Expanding use of artificial intelligence and robotics leaves many firms uncompetitive and unprepared.	Successful firms deliver digital services globally with new technologies and fewer workers. Many firms fold in a long period of falling prices and deflation.	Virtual corporations manage digital value chains that allow workers to be anywhere.	Standard of living disconnects from wages as new technologies provide free and higher value goods at zero marginal cost.
Work	Rising technologically driven unemployment. More precarious work. Traditional policy responses fail to improve job security.	Declining wages and tax revenues. Piecemeal national response fails to stem an international "decent to the bottom".	Traditional jobs sharply erode. Many workers and SMEs use technologies to invent new virtual work opportunities in global digital value chains.	Coordinated multi-stakeholder response helps workers thrive in virtual work. Work is flexible, with portable benefits.
Energy	Vested interests resist change as cheaper renewable energy challenges the fossil fuelbased status quo.	Many energy firms fold in face of falling demand and low prices. Fossil fuels loose ground to cheaper renewables.	Significant transition to renewables underway but uneven across the globe.	Renewables dominate the energy mix. Significant fossil fuel reserves left unexploited as price approaches zero.
Geopolitics	West vs. Asia. Asia builds effective regional economic institutions.	More fragmented international system. US is fiscally challenged and leadership is more narrowly targeted.	Growing cooperation to address cross-boundary issues (e.g. digital work conditions, minimum wage).	Technologies allow growing subsidiarity and a more integrated international governance system.
Governance	Lack of trust. Continued data breaches. Trusted firms deliver some public goods digitally.	Longstanding government solutions begin to fray. Coop, non-profit and public-private partnership solutions expand.	Technologies enable new customizable solutions to help citizens.	New relationships with citizens. Trust in government grows through direct digital access and co-creation.





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QUESTIONS?