



# Strategic Foresight for the Post-2015 Development Agenda

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- Printing, gunpowder and the compass have changed the whole face and state of things throughout the world... (Francis Bacon, 1620).
- Improvements in machinery go hand in hand with the division of labor, and very pretty machines ... facilitate and quicken production... (Adam Smith, 1776).
- The bourgeoisie cannot exist without constantly revolutionizing the means of production! (Karl Marx, 1848).
- Knowledge is the chief engine of progress in the economy (Alfred Marshall, 1897).
- The entrepreneur and his search for new combinations is the driving force in all economic development... (Joseph Schumpeter, 1911).
- Science and basic research are incredibly powerful sources of future economic and societal development... (Vannevar Bush, 1945).





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- The existence of human on the earth surface: The act of anticipation as an unavoidable human characteristic
- 1950s: The principles of trend extrapolation and social indicators, and the methods of expert analysis (e.g. Delphi & cross-impact). First computer simulations become well-known
- '60s: Narrowly focused technology-oriented forecasting activities

   the probabilistic assessment of what is likely to happen in the
   future
- **'70s:** Change in the understanding of forecasting due to increasing complexity and uncertainty of societies and economies (e.g. unpredicted oil shocks in the '70s)
- '80s: Multiple futures thinking, participatory activities, where both processes (i.e. networks, tacit outcomes) and products (i.e. codified outputs) were given emphasis





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- Foresight for S&T policy making by government, industry and other organisations
- The key elements of Foresight in the 1990s:
  - S&T is central focus
  - Systematic process
  - Longer timeframe than in existing S&T planning
  - S&T in relation to economic and social developments
- "Foresight is the process involved in systematically attempting to look into the longer term future of science, technology, the economy, and society with the aim of identifying areas of strategic research and the emerging new technologies likely to yield the greatest economic and social benefits" (Martin, 1995).



## Foresight – 2000s

- Change in the S&T dominated appearance with increasing concerns on social aspects due to:
  - The increasing importance of innovation (both technological and organisational)
  - The development of service economies. Considerable portions of economic activity, employment and output have started taking place in service sectors of the economy

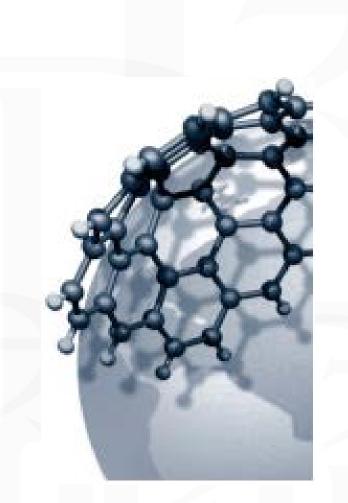
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- Other developments including globalisation, changes in demographic structures and in cultural practices, and environmental affairs
- Recognition of the close relationship between S&T and society



# Foresight

- "the application of
  - 'systematic',
  - 'participatory',
  - 'future-intelligencegathering and medium-tolong-term vision building process' to
  - *informing present-day decisions* and *mobilising joint actions*"

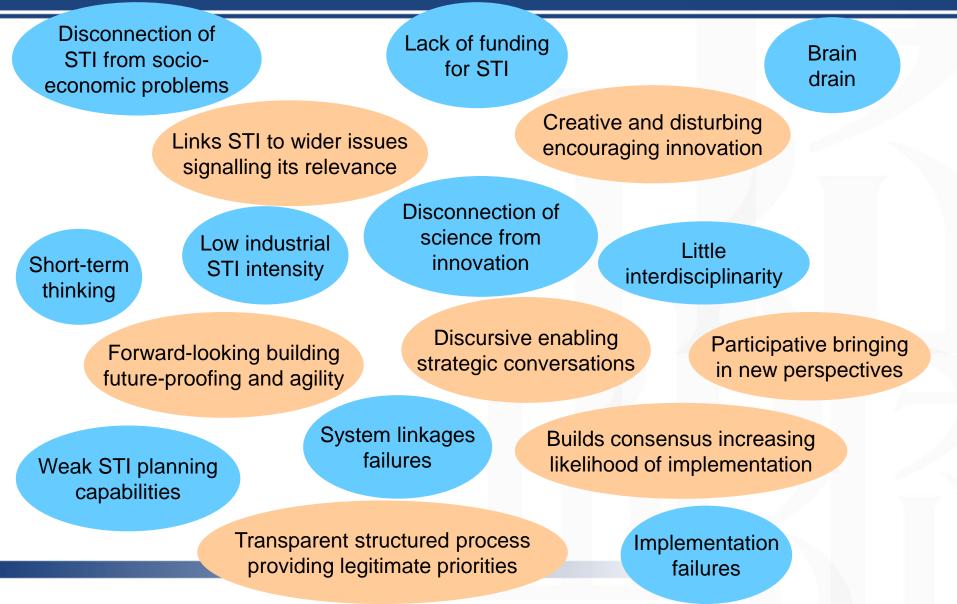


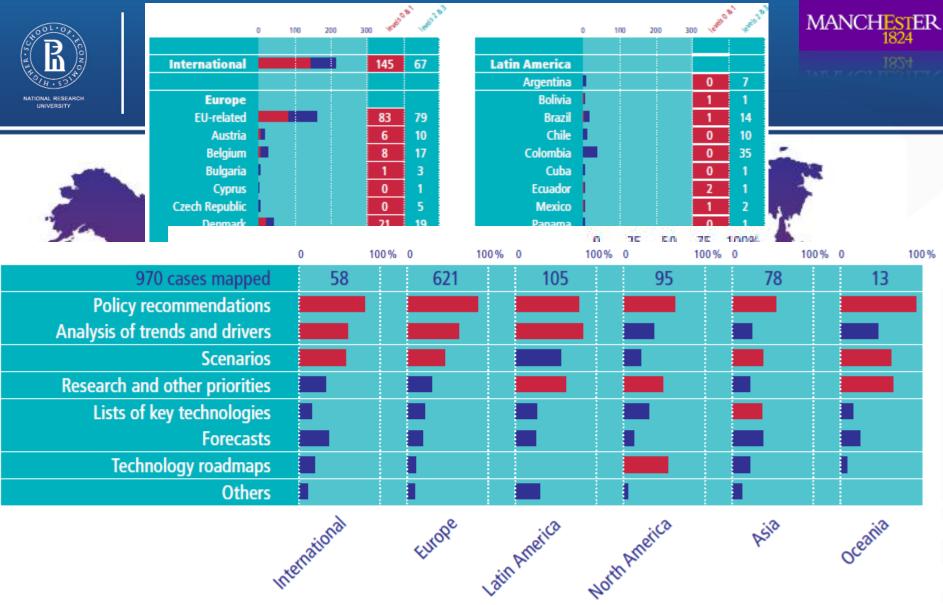
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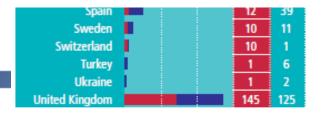
# Policy problems and how Foresight might help

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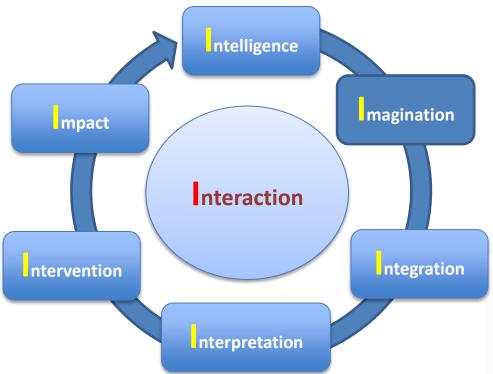








#### Foresight process

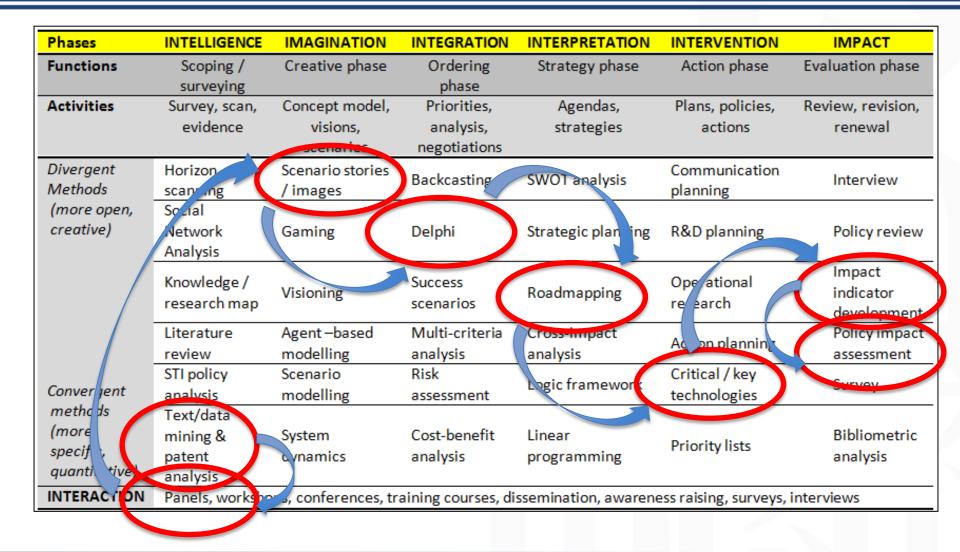


- **1.** *Intelligence:* Creates shared understanding and mutual appreciation of issues by scanning
- 2. Imagination: The input from scanning is synthesised into conceptual models of alternative futures
- **3.** *Integration:* Analyses the alternative models of the future and 'prioritises' them
- Interpretation: Translates future visions into long-, medium-, and short-term actions for a successful change programme
- **5.** *Intervention*: Creates plans to inform present day decisions for immediate change to provide structural and behavioural transformations
- 6. Impact: Evaluates the results and impacts of Foresight exercise, learns from experience and provides input for next round
- Interaction: Mutual learning and collective visioning through intensive negotiations among system actors and stakeholders

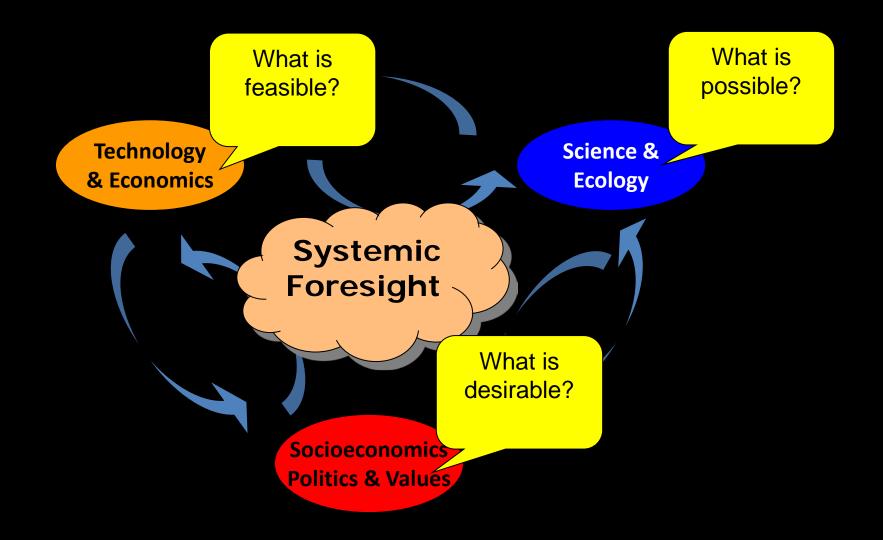
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## Foresight methods



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# Thank you for your attention!

"Designing scientifically possible, technologically feasible & socially desirable futures"

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