



European Research Area

An open space
for knowledge and growth

VERA – Forward Visions on ERA

Brussels final conference, 21-22 January 2015

Domenico Rossetti, European Commission, DG RTD*

* Personally speaking

Research and
Innovation



*L'avenir ne se prévoit pas,
il se prépare*

Maurice Blondel



Global Europe 2050



Research and Innovation on SUSTAINABLE URBAN DYNAMICS



European Union Research in Foresight



Research and
Innovation

World and European Energy and Environment Transition Outlook

WETO-T



Research & Innovation / Socio-economic Sciences
and Humanities

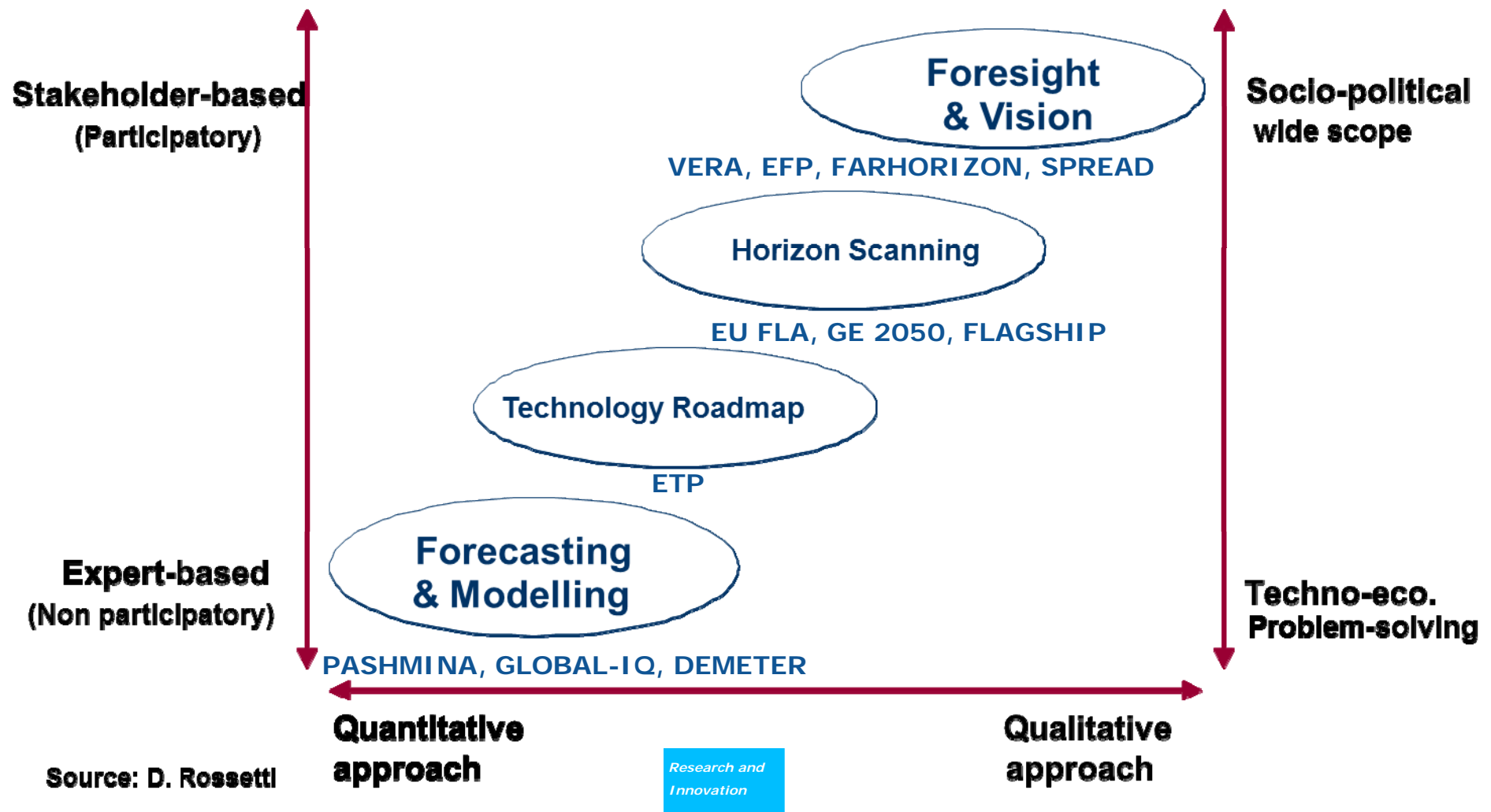
European forward-looking activities:

Building the future of 'Innovation Union' and ERA



STUDIES AND REPORTS

Methods: Qualitative and Quantitative





Foresight Research in FP7

- **In the "Socio-economic Sciences and Humanities" (SSH) programme**
- **Foresight Research in four main items:**
 - ❑ **Visions and trends on ERA, science, technology and innovation**
 - ❑ **The future of globalisation, Europe and neighbouring countries**
 - ❑ **Modelling, accounting frameworks and forward-looking policies**
 - ❑ **Transitions towards a responsible socio-ecological Europe**



Visions and trends on ERA, science, technology and innovation

VERA	Forward visions on the European Research Area
EFP	European Foresight Platform - Supporting forward looking decision-making
FARHORIZON	Use of foresight to align research with longer term policy needs in Europe
CIVISTI	Citizen visions on sciences, technology and innovation
SESTI	Scanning for emerging science and technology issues
IKNOW	Interconnecting knowledge for the early identification of issues, events and developments shaping and shaking the future of STI in the ERA
INFU	Innovation futures in Europe: a foresight exercise on emerging patterns of innovation -Visions, scenarios and implications for policy and practice
SANDERA	The future impact of security & defence policies on ERA



The future of globalisation, Europe and neighbouring countries

GLOBAL EUROPE 2050	The world and Europe up to 2030/2050 - EU policies and research priorities
FLAGSHIP	Forward looking analysis of grand societal challenges and innovative policies
AUGUR	Challenges for Europe in the world of 2030
THE WORLD IN 2025	The World in 2025
GREEN	Global re-ordering: Evolution through European networks
URBACHINA	Sustainable urbanisation in China: Historical and comparative perspectives, mega-trends towards 2025
MEDPRO	Prospective analysis for the Mediterranean region
EUROMED-2030	Forward looking in the long-term challenges for the Mediterranean area



Modelling, accounting frameworks and forward-looking policies

SIMPATIC	Social impact policy analysis of technological innovation challenges
GLOBAL-IQ	Impacts quantification of global changes
DEMETER	Development of methods and tools for evaluation of research
E-FRAME	European framework for measuring progress
NEUJOBS	Employment 2025: How will multiple transitions affect the European labour market
FOODSECURE	Exploring the future of global food and nutrition security
POLINARES	Policy for natural resources
MILESECURE-2050	Multidimensional impact of the low-carbon European strategy on energy security



Transitions towards a responsible socio-ecological Europe

WWWFOR EUROPE	Welfare, wealth and work for Europe
EU-INNOVATE	Sustainable lifestyles 2.0: End user integration, innovation and entrepreneurship
GLAMURS	Green lifestyles, alternative models and upscaling Regional Sustainability
POCACITO	Post-carbon cities of tomorrow – foresight for sustainable pathways towards liveable, affordable and prospering cities in a world context
PACT	Pathways for carbon transitions
PASHMINA	Paradigm shifts modelling and innovative approaches
SUSTAINCITY	Microsimulation for the prospective of sustainable cities in EU
SPREAD	Social platform on sustainable lifestyles



Foresight in HORIZON 2020

Detailed priority setting during the implementation of Horizon 2020 will entail a strategic approach to programming of research, using modes of governance aligning closely with policy development yet cutting across the boundaries of traditional sectoral policies. This will be based on sound evidence, analysis and *foresight* (...)



EU research in Foresight

Topics open in 2015

- **ICT-10-2015: Collective Awareness Platforms for Sustainability and Social Innovation**
- **BG-2-2015: Forecasting and anticipating effects of climate change on fisheries and aquaculture**
- **LCE-21-2015: Modelling and analysing the energy system, its transformation and impacts**
- **MG-9.1-2015: Transport societal drivers**
- **EURO-5-2015: ERA-NET on Smart Urban Futures**
- **DRS-1-2015: Potential of current and new measures and technologies to respond to extreme weather and climate events**
- **ISSI-4-2015: On-line mechanisms for knowledge-based policy advice**



EU research and innovation in 30 years

- R&I from a piece of industrial policy to a genuine EU policy
- E. Davignon: *FP has shown the vanity of national borders*
- A key EU policy for several President Juncker priorities: growth and jobs, digital single market, Energy Union, strengthened industrial base
- For 2014-2020 (MFF): €280 Billion for R&I (Structural and Investment Funds and Horizon 2020)
- ERC, Joint Programming, EIT, ERA
- But still a lot to do if Europe wants to be a global R&I leader

ERA five priorities



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And more and more: International cooperation



VERA Scenarios

- 1. Private knowledge – Global markets**
- 2. Societal challenges – Joint action**
- 3. Solutions apart – Local is beautiful**
- 4. Times of crises – Experts at the wheel**



Issues for policy considerations

- **Boosting research and innovation synergies**
- **Strengthening the global influence of ERA**
- **Promoting a smart R&I evaluation**
- **Consolidating the EU R&I system governance**
- **Fostering science-society engagement**
- **Developing attractive and impactful research careers**
- **Underpinning knowledge sharing and co-creation**
- **Achieving gender equality and diversity in research**
- **Reinforcing ERA regional and local outreach**



Let's start the discussion *inspired* by
Foresight