

# \*What is foresight? \*Why is foresight important? \*Types of foresight \*Who can benefit from foresight? \*Foresight methods \*Foresight resources

## DG RTD unit L2 - "Social sciences and humanities - Foresight"

- Promote a European Foresight Area
  - + Interconnect and support TF activities at European, national and regional level, in close co-operation with all related actors in Europe
- Internal think tank activities
  - Provide input to EU research and innovation (RTDI) policy development
- Implement projects in support of RTDI policy & foresight development
- Promote foresight co-operation in support of the European Research Area

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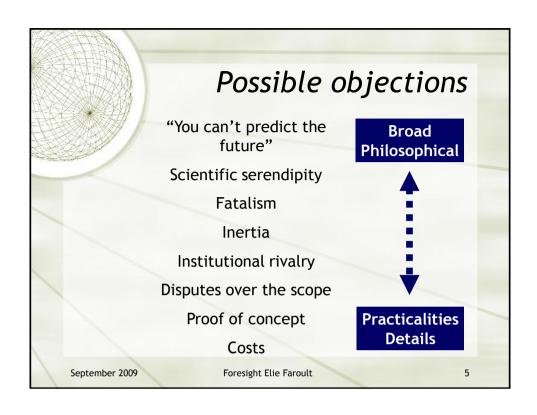
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### Foresight in Europe

- National Foresight
  - Interconnect and support TF activities at European, national and regional level in Europe
- Regional Foresight
  - + Sub-national foresight (Catalonia, Uusimaa, West Midlands, Grand Lyon, Mecklenburg-Vorpommern, etc)
- Intergovernmental Foresight
  - → FOR-Society, COST 22
- Foresight by individual public or private organisations
  - DaimlerChrysler, ..
  - SEFIC...
- European Commission
  - + JRC-IPTS
  - + DG INFSO, DG ENV, DG TREN
  - + DG Research: FP 6; Foresight Knowledge Sharing Platform (unit L2)
  - FP 7

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# What we are trying to promote?

- Develop strategic knowledge and capacity in Europe, and contribute to global institutional landscape
- Increase synergies: develop and use platforms and networks to disseminate and integrate results from different levels and sectors
- Develop technical tools and societal processes for efficient use and improved policy impacts
- Create forward thinking culture in society as a whole, adapt education & training, improve awareness building
- Develop joint / complementary activities on topics of commoninterest

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### Our tools (1): Research projects

- DFFN Design For Future Needs (www.dffn.org)
- eForesee Exchange of Foresight relevant experiences for small Candidate Countries (www.eforesee.info)
- EUROPOLIS Scenarios for the evolution of European S&T policies (<u>www.obs-ost.fr/fr/projet\_europolis.php</u>)
- FoMoFo Four Motors Foresight initiative (www.foresight.it)
- · FOREN Foresight for Regional Development network (foren.jrc.es)
- FORETECH Technology & Innovation Foresight for Bulgaria and Romania
- ITSAFE Integrating Technological and Social Aspects of Foresight in Europe (www.supra.ed.ac.uk/Publications/ITSAFE\_FINAL\_REPORT.pdf)
- TAMI Technology Assessment in Europe; between Method and Impact (www.europaeische-akademie-aw.de)

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### Our tools (2): Research projects

In FP: 9 projects

- **FARHORIZON**
- + IKNOW
- + INFU
- + SESTI
- + SANDERA
- + CIVISTI
- + AUGUR
- + MEDPRO
- ◆ EFP

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### Our tools (2): Expert Groups

- The European dimension of S&T foresight
- Mobilising regional Foresight actors for an enlarged EU
- + Higher Education
- → Converging Technologies
- + Blueprints for foresight actions in the regions
- + Key technologies
- + Key (research system) actors
- + The World in 2025

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### (Science & Technology) Foresight

- Thinking the future
  - + Identifying possible futures
  - + Imagining desirable futures
- Debating the future
- + A participative process involving many and different stakeholders (public authorities, industry, research organisations, NGOs, etc.)
- Shaping the future
  - + Identifying today's RTDI priorities on the basis of scenarios of future developments in science & technology, society & economy
  - Defining strategies
  - Results feed into collective decision-making AND
  - + help participants to develop or adjust their individual strategies

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### Hindsight on Foresight

- Discovery of the future; Classical political economy
- pre WW2 social & technological trends
- post WW2: military & business forecasting in US, European "3rd way" - "futurology", "futures studies"
- + 1960s boom: dominance of technological (extrapolation, delphi, or highly technicised forecasts (ecometric, demographic, modelling) on one hand, expert opinion on the other; influential viewpoints (e.g. PIS, ecodoom).
- + 1980s: technological revolutions (infosoc)
- 1990s boom (21st century studies and especially Foresight: forecasting >forecasts)

Source: Ian Miles, Brussels 19-20 September 2002

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### Foresight - why?

- Provides guidance to public & private decisionmakers & stakeholders
- Links activities markets, public policy, research organisations, etc
- Pushes horizon of strategic planning: bird's eye's view of possible futures
- Strengthens corporate identity both inwards & outwards provides a communication tool
- Creates readiness for change & adaptability

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# What foresight does

- Foresight contributes to the democratic process:
- Provides people with a social (general) vision to people
- > help understanding the dimension of time
- > allow holistic examination of changes and their impact on a given place
- develop a personal and collective philosophy of action

Source: Philippe Destatte, TRANSVISION blueprint, Brussels 23/9 2004

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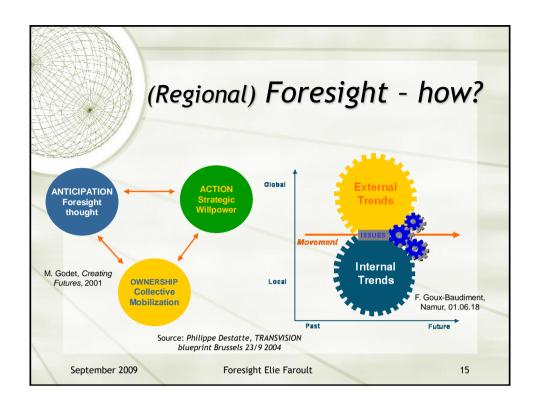
### Who needs foresight?

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WHO is the target?	WHY is there a problem?	HOW will foresight gain access?	WHAT will be the benefits?
Institutions	Resistance to change and poor contribution to economy / society	Via public projects, (strategic futures) and expert task groups	Reduced bureaucracy, informed decisions and efficient services.
Industry	Severe weaknesses in industrial structures & access to knowledge	Via sector or cluster activity and capacity building with SMEs	More small firms with outward focus and knowledge utilisation
Individuals	Low appreciation of the value of innovation and wealth creation	Via schools activity, vocational courses & life-long learning	Positive attitudes to science, business and entrepreneurship

Source: Gordon Ollivere, UPGRADE blueprint, Brussels, 23/9, 2004

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## Foresight - how?

- Activities need to transcend horizontal & vertical boundaries
- Be part of a wider strategic context
- · Focus on questions that foresight can influence
- Mobilisation be "sold in" to key stakeholders
- Balanced participation (experts, public, private, NGO, citizens, ...)
- Not in isolation => linked to other initiatives
- Concrete & tangible results
- Built in evaluation
- Continuity

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### Foresight - when?

- Activities that have direct impact
- Actors that have direct impact
- Autonomy / influence required
- Focus on foresight for change
- If it cannot be tied to action =>



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### Types of foresights

Strategic Foresight

Improved consultation/public satisfaction Better intelligence/information systems Flexible and forward looking policies

Scientific Foresight

Better knowledge of future markets Improved targeting of R&D funding Better exploitation of research results

**Industrial Foresight** 

Improved profits in existing industry Better rates of new business start-up Greater engagement in new technologies

**Educational Foresight** 

Industry satisfaction with workforce Individual interest in life long learning Greater propensity to innovate

Social Foresight

Improved quality of life indicators Better infrastructure and utilities Improved response to emergencies

Source: Gordon Ollivere, UPGRADE blueprint, Brussels, 23/9, 2004

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### 20 key questions

Clarity &	Knowledge &	Foresight	Practical	Programme
Commitment	Resources	Methodology	Applications	Management
Step 1 What is the 'policy-makers' vision for the future of the region?	Step 5 What size & scope of foresight project do we wish to have?	Step 9 What experience & lessons can we gain from outside?	Step 13 Which actions for the upgrade of industry sectors & companies?	Step 17 How can we select & support the central focal point for foresight?
Step 2 How promote the value of foresight to enrich this vision?	Step 6 Where can we find the specialist knowledge in the local context?	Step 10 What tools/skills do we need to develop in the local context?	Step 14 Which actions for the upgrade of the science and knowledge base?	Step 18 How build a network of partners to help deliver foresight?
Step 3	Step 7	Step 11	Step 15	Step 19
What are the critical	How can we widen the	What methods	Which actions for	How should the
areas for application	context to take	will we use to	the upgrade of	regional programme
of foresight	account of global	explore future	education and	be managed and
methods?	issues?	possibilities?	skills?	marketed?
Step 4	Step 8	Step 12	Step 16	Step 20
How secure	What funding, human	What process will	Which actions to	How will we measure
commitment from	and material	we use to decide	feedback and	success and ensure
the sponsors/	resources are	on the detailed	inform regional	long term
stakeholders?	available?	plan?	strategy?	sustainability?

Source: Gordon Ollivere, UPGRADE blueprint, Brussels, 23/9, 2004

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### **Desired Outcomes**

### + Rationales

- → What are the problems / challenges?
- → How can foresight help?
- + Relates to foresight's 'theory of action'

### + Objectives

- + Refers to higher and specific goals
- + Their achievement should be verifiable

### Expected Outcomes

- + Outlined in rationales and objectives
- + How will we know these have been realised?
- + When can these be expected to materialise?

Source: Michael Keenan, Brussels September 2002

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### Target Audience

- Those actors expected to act 'in' & 'as a result of' an exercise
- → Dependent upon the starting point & desired outcomes of an exercise
- Typically include:
  - + Scientists and technologists (public & private)
  - + Policy makers
  - + Business decision makers

Source: Michael Keenan, Brussels September 2002

+ Citizens and societal groups

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### Policy Milieu

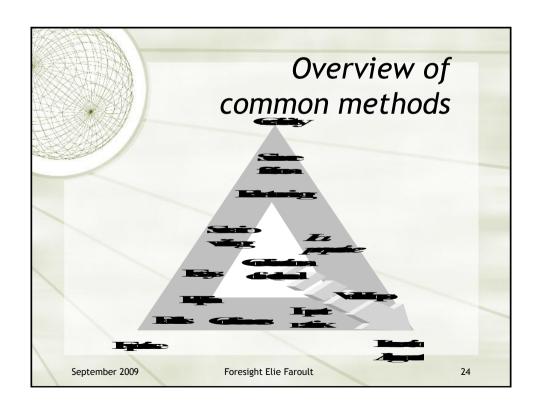
- Are policy and socio-economic practices open to foresight-type activities?
- → Policy space and time
- Review existing arrangements:
  - + What activities already exist in this area?
  - + Who are the main players?
  - + What value-added could Foresight provide?
  - + How might Foresight 'mesh' with existing policies and programmes?
  - + Could Foresight 'threaten' the continuation of certain activities in this area? Good/Bad??

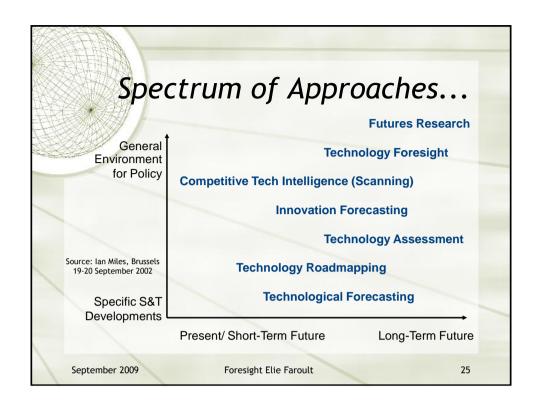
Source: Michael Keenan, Brussels September 2002 + Do you anticipate resistance and/or support?

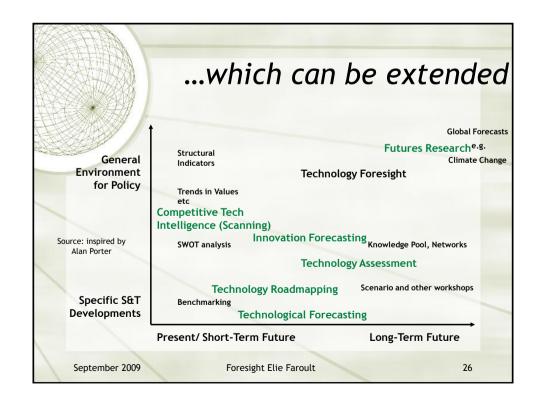
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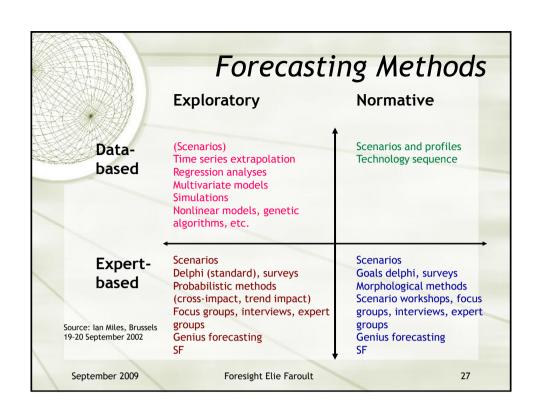
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# Time horizon Typically between 5-30 years Should be beyond normal planning horizons Will be dependent upon things like the issues to be considered, and the needs of strategy and decision making Source: Michael Keenan, Brussels September 2002 September 2009 Foresight Elie Faroult 23









# Most important tools

		Which of the following tools and techniques should your foresight programme be adopting?	Score
12	1	Scenario building workshops and events	27
	2	Setting up of sector panels or futures groups	23
	3	Regular consultation events on thematic issues	19
	4	Seminars in specific thematic areas	18
	5	Intensive work with individual organisations/companies	17
	6	Small scale training events and courses	16
	7	Organisation and participation in conferences	12
	8	Circulation of foresight news and information	10
	9	Supply of funds to SME pilot projects	8
		Total (10 questionnaires, 5 given to most important tool, 4 to 2nd, etc)	150

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### Sources of information

- European Commission- DG Research Science & Technology Foresight unit http://www.cordis.lu/foresight/home.html
- Futuribles http://www.futuribles.com LIPSOR http://www.3ie.org/lipsor/ Global Management Forum
- Global Business Network http://www.gbn.org
- Institut Jules-d'Estree http://www.destree.org
- Institut Prospectiker (Espagne) http://www.prospektiker.es Institute for Prospective Technological Studies http://www.jrc.es/welcome.html
- Institute for the Future http://www.iftf.org
- Millennium Project http://millennium-project.org
- Observatoire International de Prospective Régionale
- http://www.reperes-oipr.com
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- The Rand Corporation http://www.rand.org
- The World Future Society <a href="http://www.wfs.org">http://www.wfs.org</a>
  UK Strategic Planning Society <a href="http://www.sps.org.uk">http://www.sps.org.uk</a>
  Technology forecasts from Batelle <a href="http://www.battelle.org/forecasts/default.stm">http://www.battelle.org/forecasts/default.stm</a>
- Corporate Foresight Network <a href="http://www.corporateforesight.net/">http://www.corporateforesight.net/</a>

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