



Preparation of an
EU Technology Platform
***Safety for Sustainable European
Industry Growth***

General Presentation





Why technology platforms?

Criteria for establishment are:

- **potential strategic importance of the sector** in terms of major economic, technological or societal challenges
- the **EU dimension**
- **importance of the role of RTD** in fully achieving the potential benefits

Main drivers could be the need:

- to **maintain (or regain) global leadership** through new RTD
- to develop and assimilate new scientific knowledge and technologies **to evolve towards paradigm shift**
- to renew, revive or restructure ailing industry sectors
- to **support development of new technology based public good services** with high entry barriers, uncertain profitability but high economic/social potential (poverty related diseases)





Technology platforms - the concept

Technology platforms could

- be important in all areas where RTD plays a vital role in **addressing major economic, technological and societal challenges**
- generate **sustainable competitiveness** of the EU, stimulate increased and **more effective investment in RTD**, **accelerate innovation** and **eliminate barriers** to the deployment and growth of new technologies.

Technology platforms should

- **bring together all stakeholders** (research, industry, regulators, policy makers) **to develop a long term vision** for the deployment and growth of new technologies, including the downstream regulatory environment in which technologies are developed and marketed
- **create a coherent strategy and action plan** to deliver agreed programs of activities and optimise the benefits of all
- elaborate and follow-up a **strategic research agenda**





Technology platform - key elements

- Need to bring together disparate actors to achieve common objectives
- Inclusiveness: Research and industry is basis of TP, but synergies and interactions between them and public authorities, regulators, users and consumers necessary
- Independence and transparency: no lobbying group for particular actor; develop common approach above the (sometimes narrow) viewpoints and interests of specific groups
- develop comprehensive understanding of challenges and opportunities with a view of achieving widespread consensus on long-term vision and strategy
- TP can be seen as a new form of governance within knowledge based economy





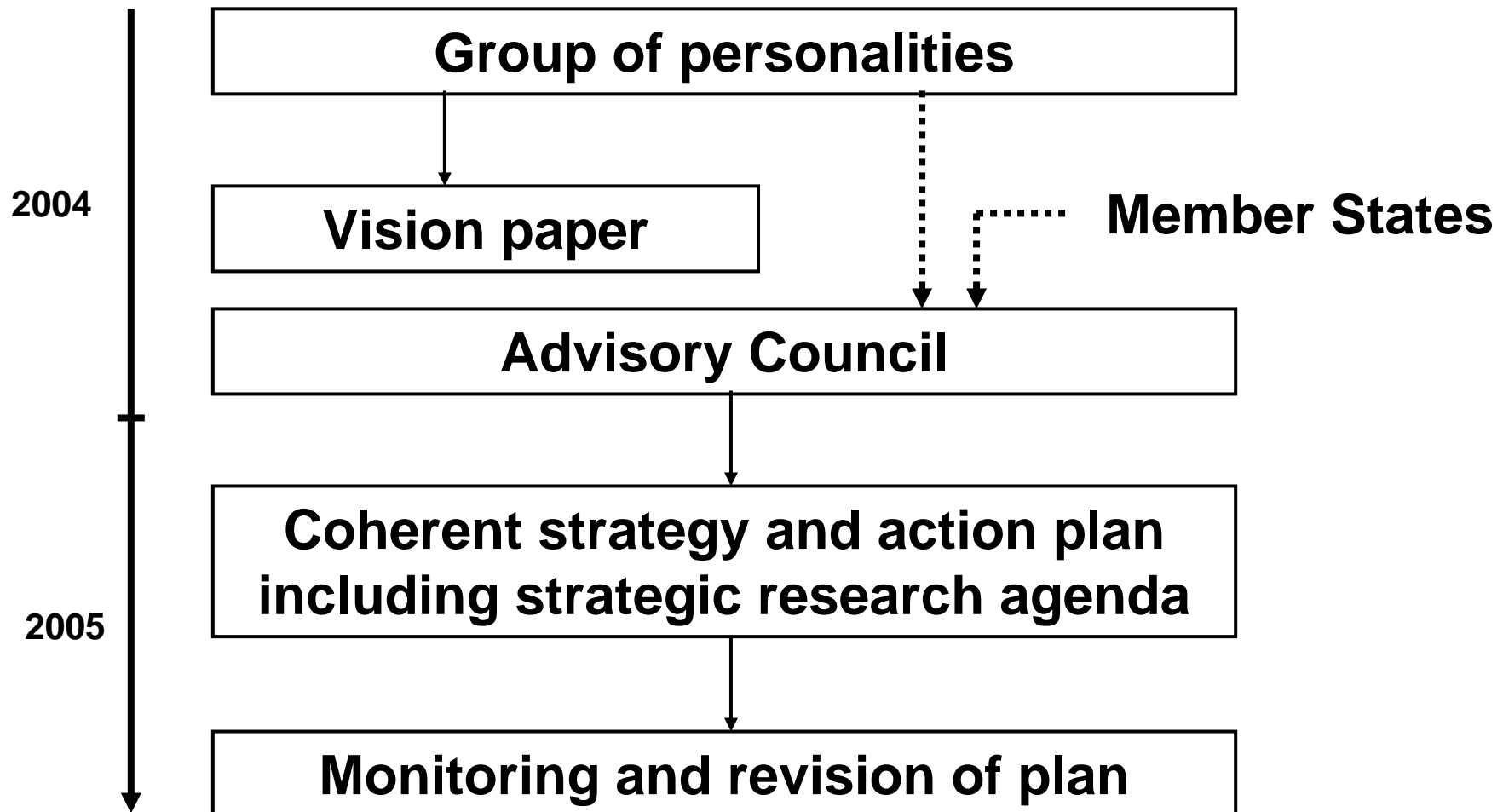
Industrial Safety

- ... is a key issue for a number of current and emerging industrial sectors in Europe
 - chemical, petrochemical, process industry
 - oil industry
 - paper industry
 - manufacturing
 - nanotechnologies
 - ... etc.
- ... will support the emergence and adoption of new technologies (e.g. hydrogen technologies and fuel cells, nanotechnology, multi-scale installations...), therefore the competitiveness of the European Industry,
- ... can address a number of societal and economical challenges





Technology Platform Industrial Safety





Preparation of common vision and goals

- Scope of industrial safety
- Research
- Networking
- Integration
- Education
- Taking SMEs on board, transfer
- Standardisation and regulations
- Communication





Industrial Safety

- Occupational health and safety of the workers in industry
- Environmental safety
 - prevention of major accidents with off-site consequences
 - protection of the environment

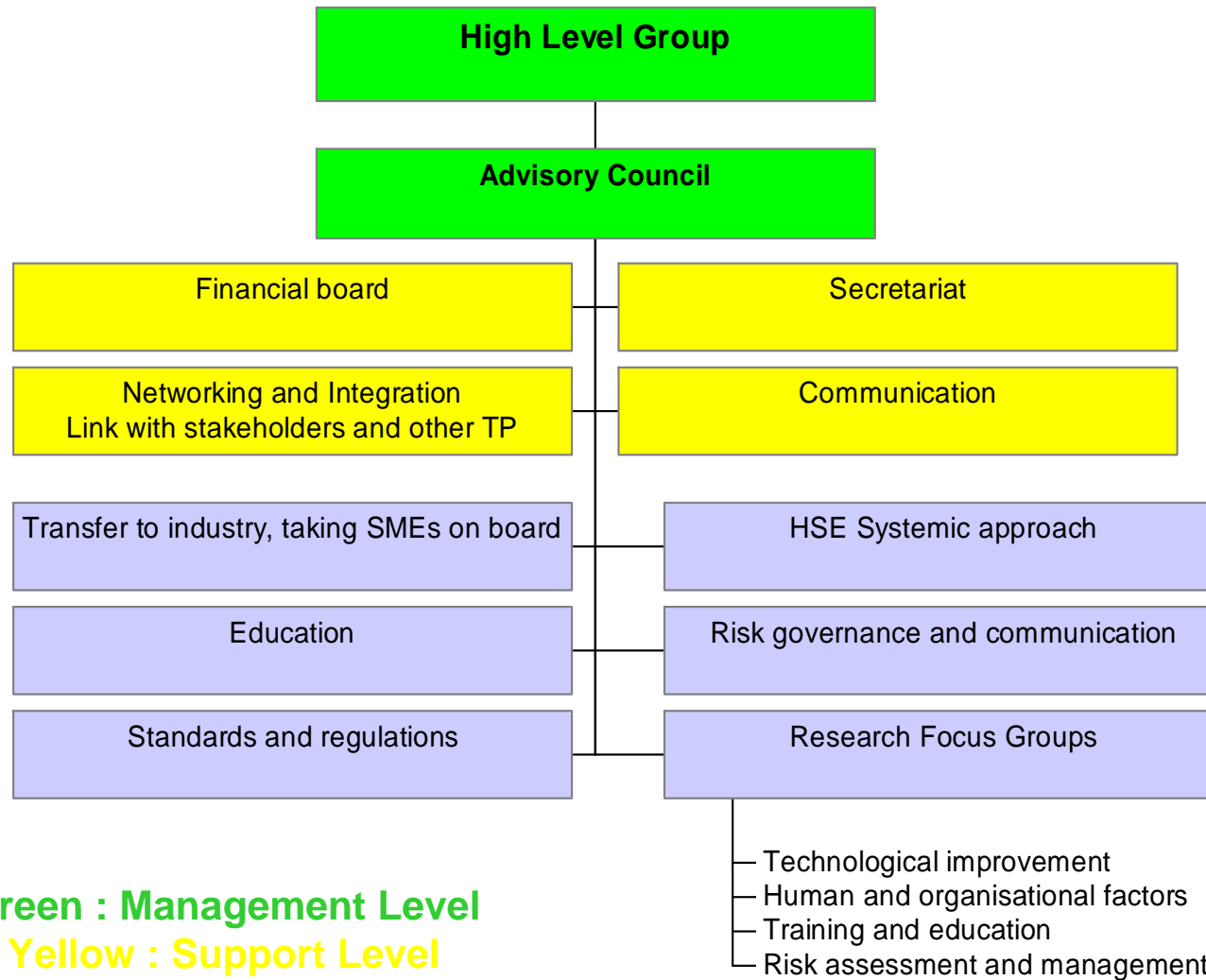
MISSION ORIENTED

***Safety for Sustainable European
Industry Growth***





Structure of the TP Safety for Sustainable European Industry Growth



Green : Management Level
Yellow : Support Level
Blue : Operational Level





Financial Board

- Establish a sustainable funding of the platform by working with
 - industry
 - banks
 - insurance
 - Member states
- Create a permanent team to operate the TP ?





Networking, link with other TP

- Establish links between relevant stakeholders : industry, R&D community, policy makers, competent authorities, public and communities
- Relations with other TP
- Gather a critical mass : public-private partnership





Communication

- Promote the TP with a adequate strategy
- Public Relation with high level personalities
- Make the initiative visible to politicians, public, authorities, industry...





Integration, HSE systemic approach

- Develop joint programme of activities
- Exchange personels
- Carry out Joint Technological Initiatives (article 171 of the Treaty)
- Build a common structure for funding





Education

- Improve education and training programmes to increase industrial safety, at various levels of education
- Introduce risk information and sensitisation in education system for young people





Taking SMEs on board and transfer

- Collect expectations and analyse barriers that hamper the improvement of safety among SMEs
- Transfer knowledge to SMEs
- Make them proactive





Standardisation and regulations

- Identify the needs in terms of standardisation and regulations
- Draft new relevant standards
- Move from prescriptive standards to goal-oriented ones





Risk governance and Communication

- Build a strategy to improve risk governance
- Make the initiative visible from outside : politicians, public, authorities, industry... (e.g. create safety indicators to communicate to the public and authorities)





Schedule

- July 04 :
First meeting, drafting group
- September 04 :
Draft document (vision paper)
- 20 October 04 :
Workshop for orientation and creation of the Advisory Council and preparation of the strategy and action plan
- November / December 04 :
Communication of the vision during the SRA Europe annual Meeting in Paris and during the Manufuture Conference in Enschede
- January 05 :
Communication of a coherent strategy and action plan including strategic research agenda





Research objectives

Breakthrough for progress in Industrial EH&S risk
via a co-ordinated, focused research and
implementation process





Research objectives

- Develop integrated solutions with improvement of :
 - Relevance
 - Quality
 - Applicability
 - Use





Research objectives

- Improvement of Relevance
 - A support process which ensures that research addresses the 'real needs'
 - Definition of 'real needs' is not controlled by a 'vested interest' or vocal minority
 - Benefit (Societal, Environmental or Financial) / Cost





Research objectives

- Improvement of Quality:
 - Audit of Research proposals
 - Approval process
 - Ongoing review process
 - Use-ability concept
 - Live testing and feedback judgements from stakeholders





Research objectives

- Improvement of Applicability:
 - Should Proposals be authenticated by potential users (e.g. Competent Authorities and/or Operators) before funding approval?
 - Meeting the Relevance test





Research objectives

- Improvement of Use:
 - Did the project deliver its promises
 - Are people using it?
 - Publicise list of 'users' / beneficiaries
 - Simple benefit judgement
 - Reward success





Research content

For occupational health and safety of the workers and environmental safety (prevention of major accidents and protection of the environment) :

- technological improvement : inherently safer design, process intensification, flexible plants, chemical parks, nano-production...
- risk assessment and management : safety barriers approaches, quantitative risk assessment, performance of safety equipments, cost-benefice analysis...
- human factors : human-machine interaction, organisational safety, organisational learning...
- knowledge transfer and dissemination...

