



- Standardization, Research and Innovation
- European Standards as tool for innovation, using research results

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Standardization, Research and Innovation

*European Standards as tool for innovation,
using research results*



- European tools in the treaties and programmes
- Diffusion of research results to the markets
- Relationship research & standardization
- Pre- and co-normative research
- Integrated approach
- CEN-STAR
- Quality management for research
- Standardization in ETP and JTI
- Concluding remarks

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*European tools in the treaties and
programmes*



- Single Act Treaty of 1986 Art 163
- Research Technology Development and Demonstration Activities in Europe
 - COST, EUREKA
 - ESF, ESA, EMBO...
 - R&DT framework programmes
- FP 7
- Others Tools
 - European Institute of Technology

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Diffusion of research results to the markets



→ Scientific Publications

- In chemistry 1 000 000 scientific articles in 2006 published in 15 000 per-reviewed journals
 - **Very little effect and/or diffusion to the market**

→ Patents

- Too expensive for scientists and researchers
 - **Weak link to producers (licensing)**

→ Standards

- Efficient for the market
- Good diffusion of state of the art
- Cheap and easy to reach for SME
 - **Not enough using scientific expertise**

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Relationship research & standardization (1)



→ ART 163 (Nice Treaty)

1. The Community shall have the objective of strengthening the scientific and technological bases of Community industry and encouraging it to become more competitive at international level, while promoting all the research activities deemed necessary by virtue of other Chapters of this Treaty.
2. For this purpose the Community shall, throughout the Community, encourage undertakings, including small and medium-sized undertakings, research centres and universities in their research and technological development activities of high quality; it shall support their efforts to cooperate with one another, aiming, notably, at enabling undertakings to exploit the internal market potential to the full, in particular through the opening-up of national public contracts, the definition of common standards and the removal of legal and fiscal obstacles to that cooperation.

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Relationship research & standardization (2)



- Pre and Co Normative Research in FP7
 - *Defined as generic and horizontal activities for the different programmes*
- Cooperation in 9 areas of technology
 1. Health
 2. Food Agriculture and Biotechnology
 3. Information and Communication Technologies
 4. Nanosciences, Nanotechnologies, Materials and New production Technologies
 5. Energy
 6. Environment (including Climate Change)
 7. Transport (including Aeronautics)
 8. Socio-economic Sciences and Humanities
 9. Security and Space
- Call for proposals, projects, networking

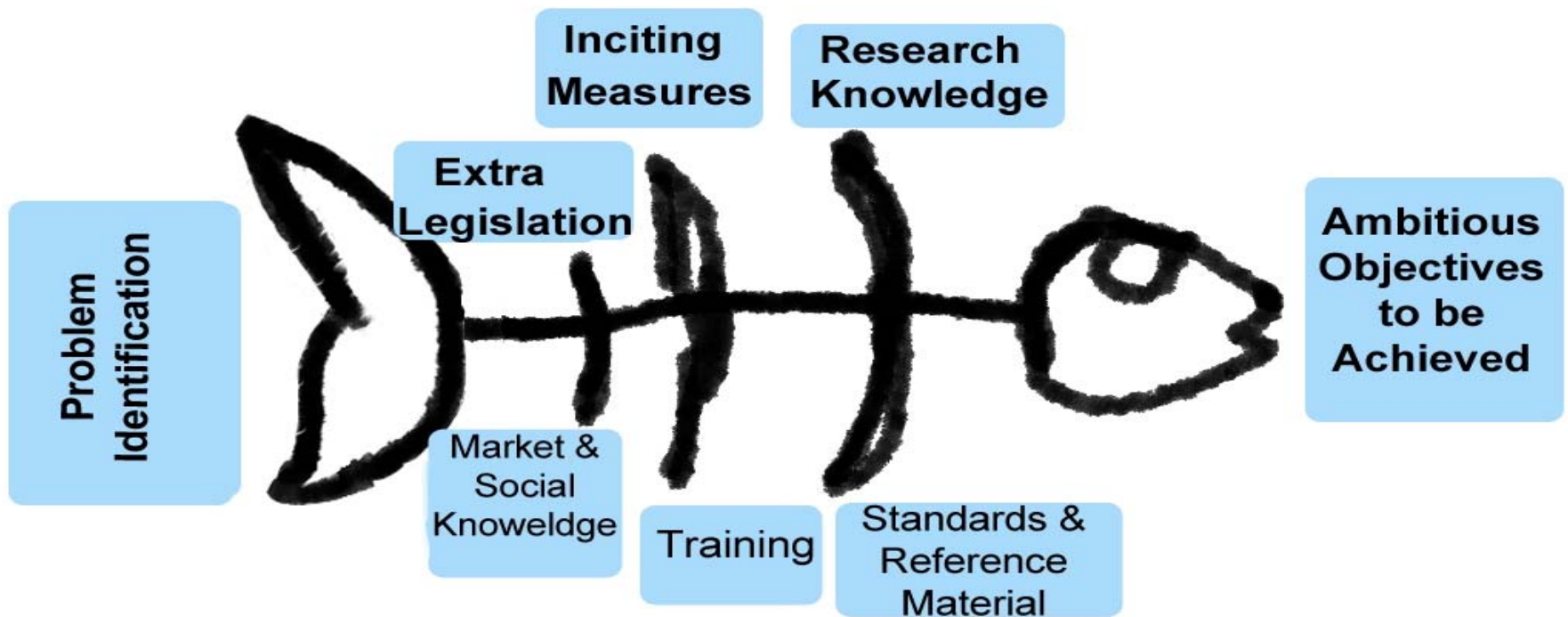
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Pre and Co Normative Research in FP7



- Pre-normative research (PNR).
RDT likely to support future trends in standardization
– i.e. work anticipating future standards (such as CWA)
- Co-normative research (CNR).
RDT in direct interaction with ongoing and/or planned
standardisation activities, usually proposed by TC
to progress items in their agreed work programme.
- *From ‘Exploiting Research Through Standardization: a best
practice guide’*

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Integrated approach



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CEN-STAR



→ CEN/BT/WG 70

- Advisory Committee to CEN where STAR means 'Standardization and Research'
- Scope and objectives to develop links between researchers and standardizers
- Since 1992

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CEN STAR INSTRUMENTS



- Analyses CNR & PNR
- Trend Analysis Workshops
- Fish Bone Analysis
- Best practice guide for researchers
- COPRAS Nano and COPRAS Env.
- Guide for data collections for Technical Committees and links to scientific expertise
- Support to European Technology Platforms
- Support to Joint Technology Initiatives
- Promote Research quality Management ISO 9001:2000
- Links to JRC, COST EUREKA, ESF, DG Research, other Commission's DGs

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Quality management for research



- ISO 9001:2000 for researchers and university laboratories
- Training for quality research managers
- Certification of universities and research centres units
- References for tests and measurement
- Promotion of scientific expertises for innovation and standardization

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Standardization in ETP and JTI (1)



- 31 European Technological Platforms
- Strategic Research Agenda for long term vision
- Horizontal and Generic activities for several platforms as a way to define call for tenders for research programmes in EU
- 6 Joint Technology Initiatives (in progress)

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Standardization in ETP and JTI (2)



- National Mirror Groups to implement Strategic Research Agendas
- Pre and Co normative needs
- Responsibility of National Standardisation Bodies
- New standardisation activities towards innovativ products and services for new markets and opportunities in Europa

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Concluding remarks



- Scientific community is ready to respond to challenges for new markets opportunities
- Standardizers have to request proper expertises and results from scientists
- Reliable data collections for application of new standards (quality management) are a must for all Technical Committees in Standardization

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↳ Standardization and research

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- Thank you for your attention
- Merci de votre attention
- Danke für Ihre Aufmerksamkeit

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