

ETPIS: the Cross-ETP Initiative on Industrial Safety

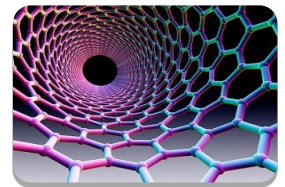
ETPIS addresses safety of industrial installations and production systems from various industry sectors: manufacturing, chemical including pharmaceutical, oil and gas, buildings, transport systems and related structural components.

ETPIS deals with occupational health and safety of the workers in industry, environmental safety, and the prevention of major accidents with off-site consequences.

ETPIS works on 3 lines:

- **Conventional risks**, improving the safety performance in all industry sectors and reducing the impact of accidents taking into account technical, human, organisational and cultural aspects, and the current 'state-of-the-art methods' for safety management.
- **Emerging risks**, accompanying the innovative industry to reduce the time to the EU market and reach public acceptance of new technologies and products by implementing e.g. the [CEN Workshop Agreement CWA 16649:2013 'Managing emerging technology-related risks' adopted on June 26, 2013](#)
- **Safety technologies, products and services**, guaranteeing the leadership of the EU safety industry on personal protective equipment, safety systems, inspection and control...

Improvement of industrial safety is important not only in human terms, to reduce workers' pain and suffering, death toll and environmental & societal impact in case of major accidents, but it is also a way of ensuring that enterprises are successful and sustainable in economic terms.



CONTRIBUTION TO THE EU 2020 STRATEGY

ETPIS through its activities and initiatives provides a significant contribution to the EU2020 Strategy, in particular to the sustainability and competitiveness targets, while implementing the ETPIS long term Vision adopted in 2005. This Vision is still up-to-date and very much aligned with the EU 2020 Strategy.

BY 2020...

ETPIS VISION

... a **new safety paradigm** will have been widely adopted in European industry. Safety is seen as a key factor for **successful business** and an inherent element of business performance. As a result, industrial safety performance will have progressively and measurably improved in terms of reduction of reportable accidents at work, occupational diseases, environmental incidents and accident-related production losses. It is expected that an "incident elimination" and "learning from failures" culture will develop where safety is embedded in design, maintenance, operation at all levels in enterprises. This will be identifiable as an output from this Technology Platform meeting its quantified objectives.

... there will be **structured self-regulated safety programmes** in all major industry sectors in all European Countries. These will have firm, measurable performance targets for accident elimination and will meet the annual reduction rate stated in the Technology Platform objectives.

... **accident free mind set workplaces** will become the norm in Europe.

This will contribute in a major way to **sustainable growth for all industry sectors** in Europe and improvement of **social welfare**.

What is ETPIS?

PROFILE

ETPIS is an open cross ETP initiative focusing on industrial safety. It facilitates cooperation and enables constructive exchanges between industry, regulators in charge of health, safety and environmental protection, NGOs, trade unions and other social partners, and the research and innovation community. In the case of industrial safety, the research and innovation community comes from various disciplines ranging from engineering sciences, human sciences, law, economics. It is active in various fields of application such as manufacturing, chemicals, energy, construction, materials, mines, and transport.

VISION

With its SafeFuture initiative “Safety for sustainable and competitive future”, ETPIS has adapted its operational structure to better address the societal challenges. With SafeFuture, ETPIS intends to develop the solutions (technological and non technological – regulatory, public acceptance, cultural) that the industry needs to operate a sustainable business based on innovation (new products, new technologies with adequate management of residual risks).

MISSIONS

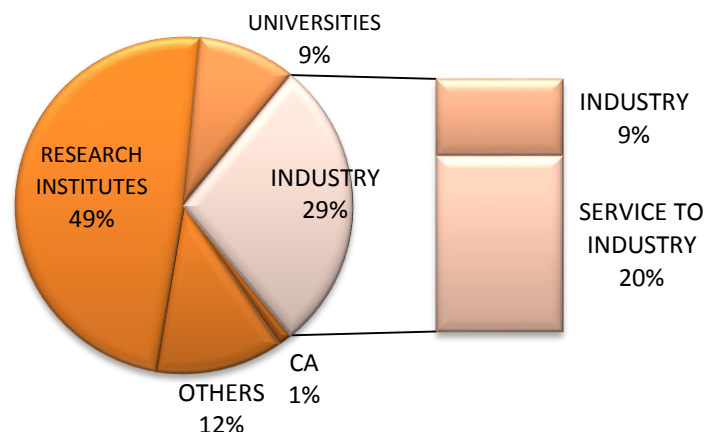
Strategy	From the Strategic Research Agenda the SafeFuture Initiative has been developed to address Societal Challenges. In relation with the ERA-NET SAFÉRA it provides the structure for research and implementation planning.
Mobilization	The open forum offered by ETPIS enables the members and stakeholders to meet and develop solutions to current and future safety challenges using various funding schemes, mainly at EU level with e.g. the EU Research Framework Programme.
Dissemination	Newsletters, technical workshops, and other events organized on a regular basis contribute to keep the community up-to-date with legal requirements and the new knowledge gained through research and innovation.

ETPIS COMMUNITY

ETPIS gathers a community of about 750 registered stakeholders who are coming from all Member States and from various disciplines and industry sectors.

ETPIS operates according to the five principles of good governance references in the “White Paper - Governance in the European Union”:

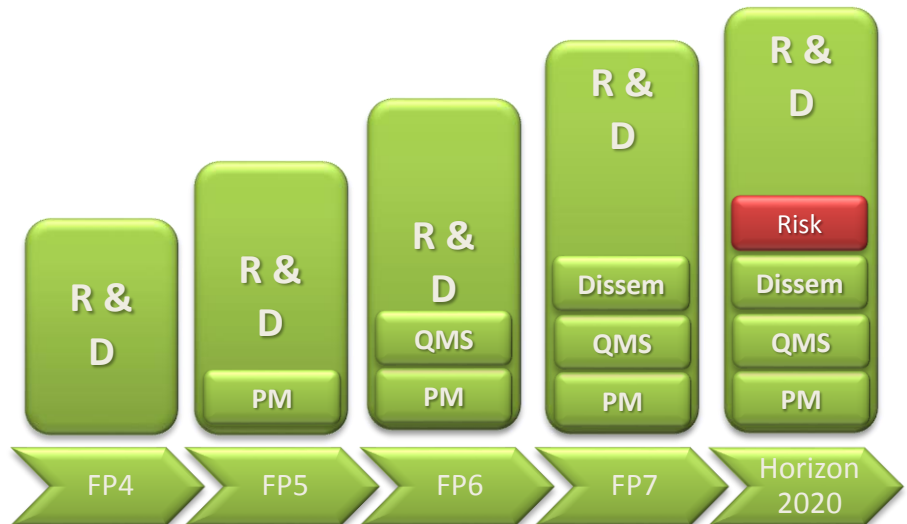
- **Openness:** ETPIS is open to any interested organization, the only requirement being active participation in the groups of interest. Interested parties can join ETPIS or become a registered stakeholder to be informed of and involved in the activities about ETPIS.
- **Participation:** All organizations wishing to be associated with ETPIS must participate actively in the events and groups of its interest.
- **Accountability:** Roles and responsibilities of the High Level Group, the Executive Board, and the Mirror Group are defined in the Terms of Reference available on the ETPIS Website.
- **Effectiveness:** The activities of ETPIS are presented among the members and stakeholders every year during the General Assemblies and Stakeholder Meetings. The impact of the different activities is reviewed and discussed with the participants.
- **Coherence:** Actions and initiatives are aligned with, and cascaded from, the initial Vision 2020 and the objectives of the Strategic Research Agenda, and now from the SafeFuture Initiative.



ETPIS IN HORIZON 2020

Solutions for a safer future: embedded safety in all innovative projects

Along the implementation of the European Framework programmes, in order to guarantee the implementation of the research results, the projects have included successively: project management (PM), quality assurance (QMS), dissemination incl. standardization (Dissem). In Horizon 2020, all innovative projects will include a risk management strategy (Risk Mngt) to address at an early stage the risk of new products or new technologies, to minimize harms on the users or on the environment and reach the acceptance by the public.



SafeFuture - Safe innovation for a competitive and sustainable future

Industrial safety constitutes a transversal field of knowledge which provides an important added value in all European industry sectors, especially with the aim to develop sustainable technologies and products.

Safety and security have been artificially separated in many research and innovation programs – there will not be one without the other in the future: this integration requires the shift to a new paradigm with more integration of the concepts (methods) and the implementation (technologies).

Sustainability refers to both safety and security of workers, consumers, the environment with a short and long term perspective and it includes the economic performance. Often the safe option is the most efficient economically if the investment in safety is considered in a long term perspective. This becomes more and more obvious in our risk adverse society.

Safety performance is an enabling factor for a sustainable future. The SafeFuture Initiative is designed to input the European Innovation Union Initiatives and partnerships as part of the implementation of the EU 2020 Strategy, in order to bring together the expertise related to industrial safety, security and sustainability.

SafeFuture is organized around 4 pillars that bring innovative and sustainable solutions to the [European Grand Challenges](#) (Health, demographic change and wellbeing; Food security, sustainable agriculture, marine and maritime research, and the bio-economy; Secure, clean and efficient energy; Smart, green and integrated transport; Inclusive, innovative and secure societies; Climate action, resource efficiency and raw materials):



- **Safe Infrastructure (including ageing)**
- **Safe Energy**
- **Safe Products and Production**
- **Transversal issues**

ETPIS planned activities in Horizon 2020

ETPIS organizes a series of activities to promote industrial safety and risk management research & innovation, and dissemination of good practices in Horizon 2020:

- **Technical working groups (thematic working groups / sector working group)**
- **Brokerage events**
- **Joint programming via the SAFÉRA project (ERA-NET)**
- **Dissemination events (stakeholder meetings, webinar)**
- **Newsletters**

SAFETY PROJECTS

This list presents projects funded under the FP7 NMP Programme based on ETPIS Strategic Research Agenda.

NMP-2007. 3.1-3 Integrated risk management in industrial systems

- **iNTeg-Risk**: Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related Risks (13.7 M€ EC Funding)
- **IRIS**: Integrated European Industrial Risk Reduction System (8.5 M€ EC Funding)

NMP-2008-4.0-9 Reducing the risk of injury in complex systems through advanced personal protective equipment

- **i-Protect**: Intelligent PPE system for personnel in high-risk and complex environments (ca. 3 M€ EC Funding)
- **Safe@Sea**: Protective clothing for improved safety performance in the fisheries (ca. 3 M€ EC Funding)
- **SafeProtex**: High Protective Clothing for Complex Emergency Operations (ca. 3 M€ EC Funding)
- **ProsPie**: Protective Responsive Outer Shell for People in Industrial Environments
- **PROSYS-LASER**: Intelligent personal protective clothing for the use with high-power hand-held laser processing devices
- **PROFITEX**: Providing fire fighters with technology for excellent work safety
- **NO BUG**: Novel release system and Bio-based Utilities for insect repellent textiles and Garments

NMP.2011.4.0-7: ERA-NET on Industrial Safety

- **SAFÉRA**: ERANET on Industrial Safety towards Smart and Sustainable Growth (1.5 M€ EC Funding)

NMP.2012.3.0-2: Total Safety Management for industrial organizations

- **TOSCA**: Total Operation management for Safety Critical Activities (3.15 M€ EC Funding)

NMP.2013.4.0-6 Safe Life Extension management of aged infrastructures networks and industrial plants

- **SafeLife-X**: Safe Life Extension management of aged infrastructures networks and industrial plants (1 M€ EC Funding)

CONTACTS

ETPIS Executive Board:

- **Rosa Nomen** (IQS): involvement of SMEs
- **Javier J. Larrañeta** (Tecnalia Corp.): Link with National TPIS
- **Valerio Cozzani** (Univ. Bologna): Support for scientific coordination and societal challenges
- **Aleksandar Jovanovic** (R-Tech, EU-VRi): Scientific Coordination
- **Jan Meulenbrugge** (TNO): Financial issues and attractiveness for industry
- **Jürgen Lexow** (BAM): Mirror Group and link with the ERA-NET SAFÉRA
- **Olivier Salvi** (INEDEV, EU-VRi): Secretary General

Members of the HLG:

- **Hans-Peter Neumann** BASF SE, Vice President and Director HSE
- **Didier Larrauri** EDF, Head of Industrial Risk Management Department in EDF R&D
- **Antonio Moreno** Iberdrola S.A., Director HSE
- **Fernando Lopes** DELPHI, EH&S Manager EMEA Region
- **Tim Tregenza** European Agency for Safety and Health at Work, Network Manager
- **Reto Schneider** Swiss Re, Director and Head of Risk Engineering Services

- **Oliver Polanz** Hochtief AG, Head of Occupational Safety Health and Environmental Protection Center
- **Eusebio Gainza Lafuente** Praxis Pharmaceutical, Scientific Director
- **Tom Schalenbourg** Toyota Material Handling Europe, Sustainable Development Director
- **David S.W. Tjong**, Ideal Standard International, Global Director HSE
- **Reyes Gonzalez**, Heineken N.V., Global Safety Manager

Main contact: info@industrialsafety-tp.org – <http://www.industrialsafety-tp.org/>