



# *European Workshop on* **Safe-Infrastructures**

Technology Park of Biscay (Zamudio)  
**Bilbao, Spain, 14-15 November 2011**

A revision of the R&D Roadmap for this SafeFuture pillar



## ***SafeFuture***

***SAFETY – SECURITY - SUSTAINABILITY***

*Safety as a trade-mark of the technology “made in EU”*

*Safe innovation for sustainable future*

*An initiative from*

***European Technology Platform Industrial Safety***

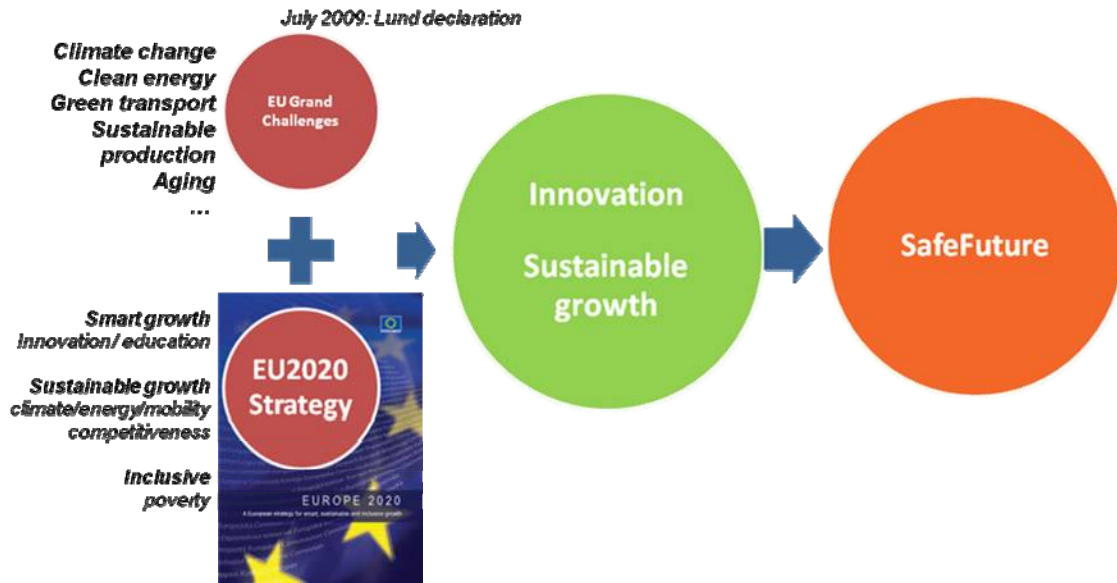
[www.industrialsafety-tp.org](http://www.industrialsafety-tp.org)

Supported by: **PESI**, Spanish Technology Platform on Industrial Safety

[www.pesi-seguridadindustrial.es](http://www.pesi-seguridadindustrial.es)

# SafeFuture: A European Partnership for industrial safety, security and sustainability

The overall objective of the SafeFuture initiative is to support the EU2020 Strategy, in particular the sustainability targets, while implementing the ETPIS long term vision.



ETPIS Long Term vision has been adopted in 2005 and is summarized as follows:

By 2020 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” cultures 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.

By 2020 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.

By 2020, **accident free mind set workplaces** will become the norm in Europe.

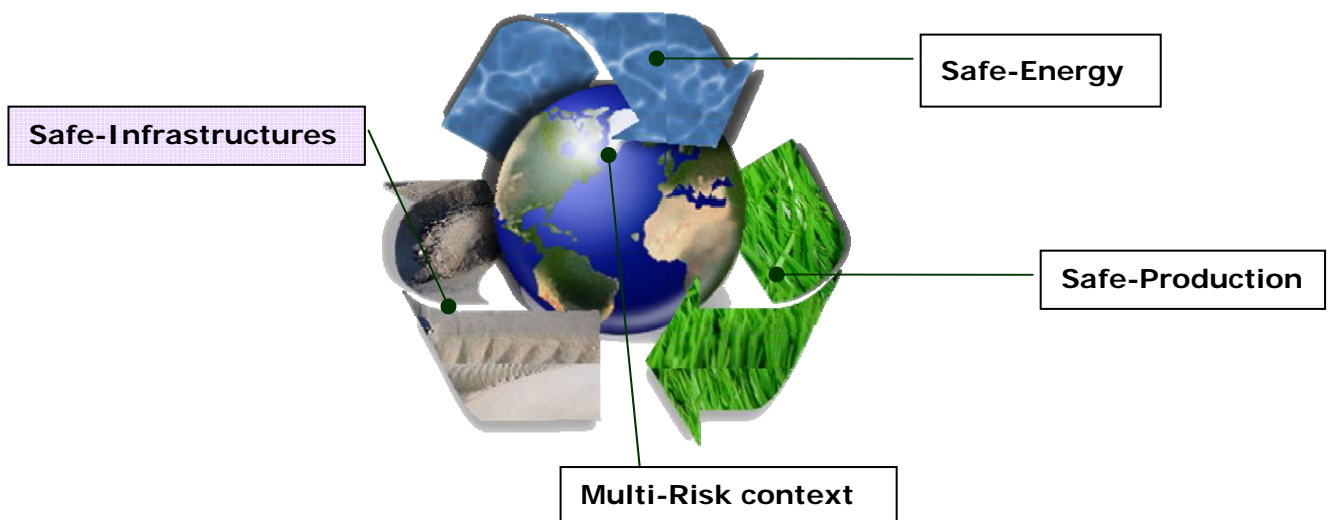
This will contribute in a major way to sustainable growth for all industry sectors in Europe and improvement of social welfare.

The concept of the initiative is based on a pragmatic approach: integrated safety and security, implemented at an early stage when dealing with emerging technologies, improve industry competitiveness and social welfare. Prevention is more effective than mitigation or emergency, with a long term perspective. This has been demonstrated by cost benefit analysis both for occupational health and safety and for major accident hazards prevention.

SafeFuture is aimed at **structuring and coordinating the research investment on safety and security** to support the **sustainability objective of the EU2020 Strategy** in the context of intensive innovation.

**SafeFuture** is organized as a **European Partnership for safety, security and sustainability** with the ambition to implement the initiative on a PPP model, since safety is beneficial for both public and private sectors.

**SafeFuture** initiative has being built around **4 pillars**: Safe Infrastructures, Safe Products & Production, Safe Energy and Transversal issues.



### SafeFuture Pillars:

- **Safe Infrastructure**, to address e.g.: life extension of process plants, transport infrastructures, power plants, off-shore platforms...; intensification of Natural catastrophes due to climate change; design and monitoring for long term operation for Carbon Capture and Storage; protection and security of critical infrastructures...
- **Safe Energy**, to address e.g.: safety of the use of new energy carriers for vehicles (FEV, fuel cells, CNG, biofuels...); safety for the green energy technologies (wind mills, photovoltaic panels...); making the underground transport infrastructure compatible with the new energy carriers...
- **Safe Products and Production**, to address e.g.: development of the European Factory of the Future, by managing emerging risks through new integrated solutions (safety systems, advanced personal protective equipments, new organizational models, ergonomics, etc.); enabling higher productivity under better workplaces; safety for the green jobs; safe production and use of nanomaterials...
- **Transversal issues**, to solve existing challenges for sustainable integration, interaction and risk governance such as: difficulties in putting together different risk mitigation policies and ensuring their compatibility (Risk-Risk trade-offs), Multi-risk and interdependencies of risks in a global competitive market...

### Safe-Infrastructures: R&D roadmap scheme

- Industry and Infrastructure needs related to Ageing, Safety & Reliability (main sectors: Energy, Chemical, Production, Construction, Transport Infrastructures)
- New materials and Engineering Techniques for redesign, repair and maintenance
- ICT: SW systems, simulations, sensors, Health Monitoring Systems
- New advanced Inspection Technologies
- Security (Critical Infrastructures Protection): convergence

Sunday 13 November	
19:00 - 20:00	Guided visit to Guggenheim Museum: permanent collection
21:00	Wellcome dinner offered by PESI to Workshop Speakers and ETPIS HLG & EB (Restaurant at Bilbao city center)
Monday 14 November	
9:30 - 10:30	Registration and documentation to Delegates
10:30	<b>Opening Welcome Session:</b>
10:30 - 10:40	Welcome adressed by TECNALIA General Management Representative
10:40 - 10:50	Welcome adressed by Spanish Ministry of Science and Innovation representative
10:50 - 11:00	Welcome adressed by PESI Chairman
11:00 - 11:20	Coffee-break
10:30	<b>Opening Keynote Speakers Session:</b>
11:20 - 11:40	Keynote Speaker: ETPIS Secretary General: SafeFuture Initiative and Safe-Infrastructures pillar
11:40 - 12:00	Keynote Speakers: European Commission's perspective:
	DG Research and Innovation and DG Enterprise & Industry representatives
12:00	<b>Technical Sessions</b>
12:00 - 13:30	Technical Session -1: Round table: Industry and User needs on Ageing, Safety & Reliability.
	Sectors: Energy, Chemical, Production, Construction & Infrastructures -Road & Rail Networks-
13:30 - 15:00	Lunch
15:00 - 16:30	Technical Session - 2: Safe-Infrastructures pillar: R&D Roadmap and priorities: ICT and Inspection Technologies
16:30 - 17:00	Coffee-break
17:00 - 18:00	Technical Session - 3: Security (Critical Infrastructures Protection)
18:00 - 19:30	<b>ETPIS High-Level Group: general meeting (EC representatives invited)</b>
18:00 - 19:30	<b>NTPIS: Annual Meeting</b>
21:00	Workshop Dinner (optional) at Guggenheim Museum Restaurant
Tuesday 15 November	
09:00 - 10:00	Technical Session - 4: Safe-Infrastructures pillar: R&D Roadmap and priorities: new materials
10:00 - 11:00	Technical Session - 5: Safe-Infrastructures pillar: R&D Roadmap and priorities: Repair & Engineering Techniques
11:00 - 11:30	Coffee-break
11:30 - 12:30	Technical Session - 6: Contributions from ETPs (ManuFuture, Construction, EU-Mat & Steel, Euratom)
12:30 - 13:30	Final Session: Workshop conclusions presented by the Technical Sessions Raporteurs
13:30	<b>Workshop Cloussure</b>
13:45 - 15:00	Networking Lunch for all participants
<b>Fees:</b> Workshop fee: free for PESI partners, Guest experts & Speakers Workshop attendants (includes materials, coffe-breaks & lunch): 60€ (one day), 90€ (two days) Dinner ar Guggeneim Museum: Menu at official cost	
<b>More info:</b> PESI Technical Secretariat, Ms. Adelaida Bergareche (secretaria@pesi-seguridadindustrial.org) <b>Coordination:</b> Mr. Javier Larrañeta (javier.larraneta@tecnalia.com); mobile phone: +34 629 274 037	

**Venue:** Tecnalia R&I, Technology Park of Biscay (Zamudio, Spain) building #700

**Distances:** from Bilbao Airport (5 min. by car); from City center (15 min. by car)