Standards - Your Innovation Bridge

Standardization and Industrial Leadership
a bridge between research, innovation and the market

Standardization is increasingly seen as a bridge between research, innovation, and the market. Standards have a central role to play in supporting innovation as a means of capturing and disseminating knowledge. Innovation, and the capacity to bring innovative goods and services to market, has been identified in countless policy statements as being vital for boosting European competitiveness. Standards provide an important basis for developing solutions and ensuring wide dissemination of research results and innovation. CEN and CENELEC see a real opportunity to engage with research and innovation activities under Horizon 2020 to ensure that European researchers and innovators use standardization to bring new products and services to the market.

ADVANCED MANUFACTURING
The FP7 project ReStaR is looking into the accuracy, precision and reproducibility of the current European Standards on testing for refractories (heat-resistant materials that are used in linings of high-temperature furnaces and reactors) with the aim to enhance their relevance, especially to the specific needs of SMEs. The project will generate up-to-date testing standards as guidance for the producers and thus increase the competitiveness of European SME refractory producers. A close cooperation with CEN/TC 187 “Refractory products and materials” is in place to achieve the objectives of the project.

TRANSPORT
The success of the FP7 project TrioTRAIN lies in the integration of project outputs into the European regulatory framework. The TrioTRAIN concept comprises 3 related projects: AeroTRAIN (aerodynamics), DynoTRAIN (railways dynamics and track interaction) and PantoTRAIN (pantograph and catenary interaction).

The projects aim to ensure that the main deliverables are understood, endorsed and eventually accepted by national safety authorities and the European Railway Agency. New methodology and standards to reduce certification costs are presented to CEN and CENELEC to be taken into account in the corresponding standards. PantoTrain contributed to CLC/SC9XC and EN 50367 was extended to address different catenary systems by numerical simulation. AeroTRAIN contributed to CEN/TC 256 and the 2013 edition of EN 14067-4 Requirements and test procedures for aerodynamics on open track DynoTRAIN contributed to CEN/TC 256 and prEN 14363 on the testing of running characteristics of railway vehicles.


Standards play an important role for innovation. By codifying information on the state of the art of a particular technology, they enable dissemination of knowledge, interoperability between new products and services and provide a platform for further innovation.

INNOVATIVE SMEs

The FP7 project StaCast aimed to promote the transformation of the European aluminium alloys foundry industry into a quality/efficiency-driven and integration-oriented sector. The industry comprises more than 2000 European companies, mostly SMEs. This will be achieved thanks to the development and introduction of two new, advanced standards covering aspects not currently addressed: Casting Defects Classification and Aluminium Foundry Alloys Mechanical Properties. The transfer of the StaCast research results into standardization happened through close collaboration with CEN/TC 132 ‘Aluminium and aluminium alloys’. Work on developing a first CEN Technical Report has already started entitled “Aluminium and aluminium alloys - Classification of Defects and Imperfections in High Pressure, Low Pressure and Gravity Die Cast Products”.

ADVANCED MATERIALS

The FP6 project ENCASIT coordinated developments in the semiconductor industry, so these could be purchased and integrated more easily and efficiently, allowing the industry to operate on a more competitive basis. The need for new and improved standards relating to semiconductor product information was identified during the project. ENCASIT contributed to the proposal and development of standards at both European and International levels, including the series IEC 62258 ‘Semiconductor die products: requirements for procurement and use’. By publishing the results in a standard, the projects have a lasting legacy that will continue to ensure the semiconductor industry can work together in the development and delivery of world-leading products.

INFORMATION AND COMMUNICATION TECHNOLOGIES

The FP7 project inTime aimed at generating additional value through adding a business layer on top of the then existing myOpenFactory communication infrastructure. The myOpenFactory specification, standardized in DIN PAS 1074 (2007), helps small and medium sized enterprises (SME) communicate with business partners using one interface, from the used ERP (enterprise resource planning) system to myOpenFactory.

The key objective of inTime was to improve delivery reliability in each customer-supplier relationship balancing production in the overall network. To codify this approach and shorten access to market, inTime triggered the development of CWA 16504 ‘Simplified multilateral EDI - Secure electronic data interchange in non-hierarchical networks’.

http://www.stacast-project.org/
197441834

http://data.fir.de/projektseiten/intime/

In addition, the following specific actions shall be supported: ... dissemination to policy makers, including standardization bodies, to promote the use of policy relevant results by the appropriate bodies at international, Union, national and regional level.

Regulation (EU) No 1291/2013 establishing Horizon 2020, Article 28 Information, communication, exploitation and dissemination

www.cencenelec.eu/research