

The role and practicalities of standardization in Horizon 2020

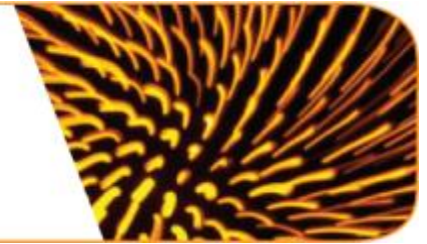
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Content



- The context
 - European Policy
 - CEN-CENELEC Policy: the “Integrated Approach”
- H2020 calls and standardization
- Which value do standards offer?
- Bringing the Integrated Approach to practice
 - Our deliverables; examples of standards following FP7 projects; project liaisons with TCs; a standardization WP?; etc
 - Our Research Helpdesk and Members network

Policy Context



The Innovation Union (COM(2010) 546 final): “**Standards play an important role for innovation**”

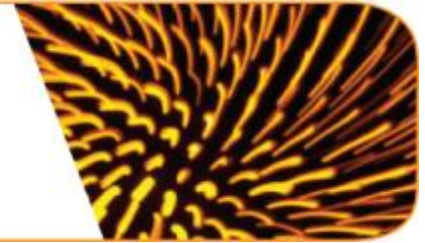
The Standardization Regulation, 1025/2012: “Standards can help to **bridge the gap** between research and marketable products or services”

Commissioner Quinn at Innovation Summit 10/2012 “[...] key framework conditions that influence our innovation performance. **The first is standardisation.** This can seem a dry, technical issue, but it is of immense strategic importance.”

Horizon 2020 (COM/2011/0809 final) “Contribute to European competitiveness through support to the standardisation process and standards”



CEN-CENELEC Policy on research and standardization



- Creation of the Working Group STAIR (**S**Tandardization, **I**nnovation and **R**esearch) in 2010
- Promotion of the so-called “Integrated Approach”
- Direct participation of our Members, not of CEN or CENELEC as organizations nor of CCMC staff

Horizon 2020 and standardization



In COM/2011/0808 final “Horizon 2020 - The Framework Programme for Research and Innovation”:

- “Stronger support will be given to the market take-up of innovation, including by the public sector. This will include more proof-of-concept, piloting and demonstration. It will involve a better use of the potential of research infrastructures, **as well as setting technical standards**, pre-commercial procurement and strengthened loan and equity financing.”

On Participants Portal:

Other Help Services

You can contact specific helpdesks for **ethical issues**, **intellectual property rights (IPR)** and **standardisation** or get advice and networking opportunities from the IGLO group of R&D liaison offices.

For any IT-related problems on the Participant Portal, please contact our [IT Helpdesk](#).

Ethics Helpdesk

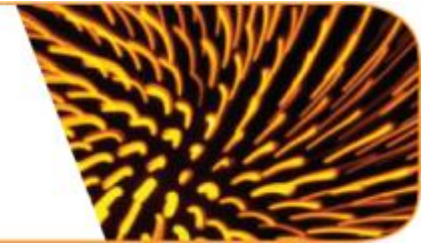
European IPR Helpdesk

European Committee for Standardisation (CEN-CENELEC)

IGLO - Informal Group of RTD Liaison Offices

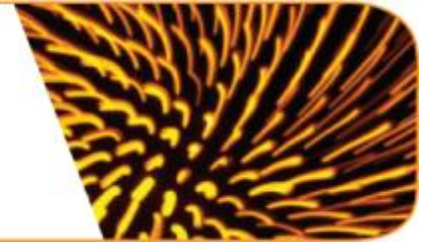
National R&D and Innovation Information

Horizon 2020 – calls extracts (2013/12)



<p><u>SPIRE-04-2014: Methodologies, tools and indicators for cross-sectorial sustainability assessment of energy and resource efficient solutions in the process industry</u></p>	<p><u>Scope:</u> Strategies should be proposed to work with value chain partners, public authorities and final users, in particular to meet expectations in terms of relevant sustainability assessment (e.g. standards, labelling), and create a broad range of options to raise awareness levels and understanding of sustainability.</p> <p>Collaboration with standardisation bodies should be addressed.</p>
<p><u>BG-06-2014: Delivering the sub-sea technologies for new services at sea</u></p>	<p><u>Scope:</u> Where relevant, activities should cover the development of European standards.</p>
<p><u>EeB-01-2014: Materials for building envelope</u></p>	<p><u>Scope:</u> Standardisation aspects can be considered particularly in relation with the work carried out in CEN/TC 350.</p>
<p><u>NMP-06-2015: Novel nanomaterials and nanocapsules</u></p>	<p><u>Scope:</u> Safety considerations and contribution to standardization should be an integral part of the projects.</p> <p><u>Expected impact:</u> Identification of gaps in standards, paving the way for future pre-normative activities in the field.</p>

Standards in Horizon 2020 Calls



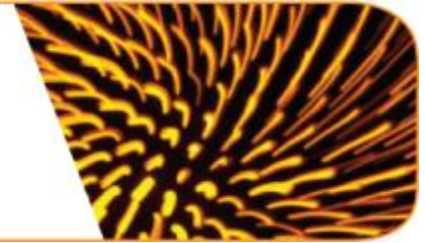
Screening of the December 2013 calls for proposals identified standardization in +/- **165 topics** as follows:

- Mapping of relevant standards
- Standardization gap analysis
- Development of new standards
- Development and implementation of standardization roadmaps (*may include international cooperation*)
- Etc



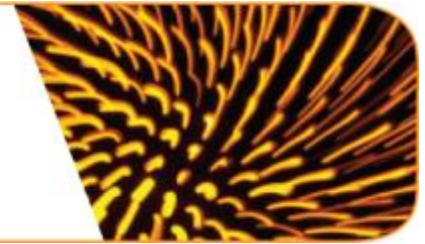
Even if not specifically mentioned in the call **standards can be identified** by project proposers. Standardization bodies can be **included in the consortium**. This should be addressed at proposal stage.

What can standardization bring to a R&I project?



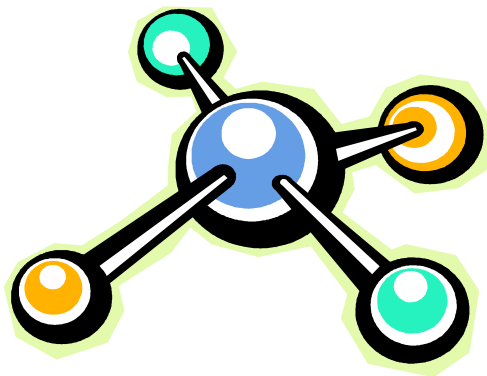
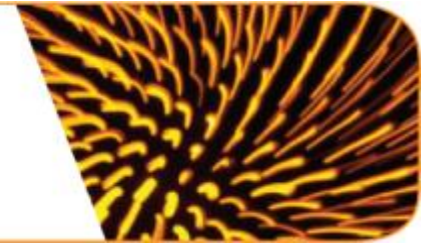
- Give you access to the state of the art
- Ensure comparability of your results with what is already on the market
- Help you comply with health and safety legislation or other regulatory requirements
- Support you in making your results available to a wide range of companies and research organizations
- Give you access to discuss and promote your project outcomes with stakeholders and potential customers
- Ensure that the project results are used by the market well beyond the duration of your project

Some examples of standardization outputs

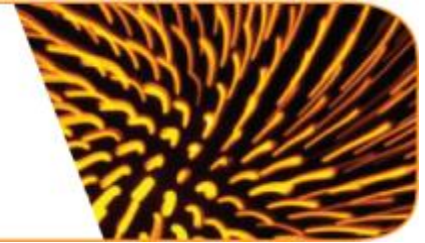


- FprCEN/**TR** 16748 “Aluminium and aluminium alloys - Mechanical potential of Al-Si alloys for high Pressure, low pressure and gravity die casting” from **STACAST** project (2012-10 till 2014-03)
- NWIP for a CEN/**TS** “Plastics - Recycled plastics - Determination of marker compounds in food grade recycled PET” in CEN/TC 249 from **SuperCleanQ** project (2011-11 till 2014-10)
- **CWA** 16768:2014 “Framework for Sustainable Value Creation in Manufacturing Network” from **SustainValue** project (2011-04 till 2014-03); by WS72: KO 2 July 2013
- **CWA** 16799:2014 “Validation of computational solid mechanics models” from **Vanessa** project (2013-02 till 2014-07); by WS71, KO: 12 June 2013

Armoury of standardization 'tools'



How can link with standardization be ensured?



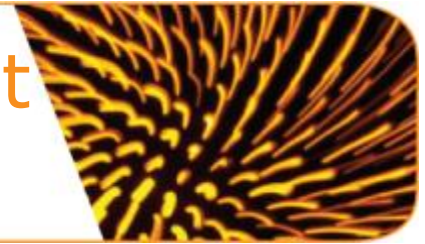
➤ Don't's

- Only our Members can join a consortium (see CEN-CENELEC Participation policy), as a project partner or as a subcontractor
- Project Advisory Board: never CCMC, but possible is TC chair, TC secretary or a TC expert; funding?

➤ Do's

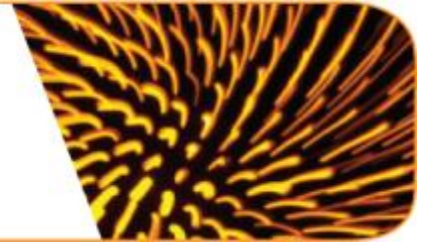
- A work package leading to a standardization deliverable
- A project liaison with a TC (CEN-CLC Guide 25)
- Partners to join the TC's national mirror group
- Make contact with a NSB/NC at earliest possible stage

Include standardization in a project proposal



- Think about it at proposal stage
- Screen existing standards
- Contribute to ongoing standardization activities (project liaison)
- Develop new standardization activities (a CWA, TS, ...)
- Involve a NSB/NC

A work package in the proposal to produce a standardization deliverable?

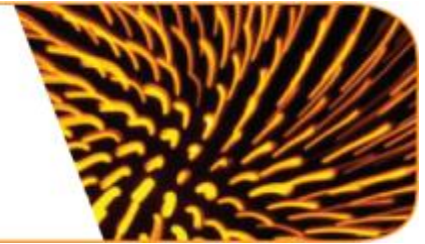


The support a CEN or CENELEC member gives to the standardization process as part of a research project can be broken down into:

- ✓ Step 1 – **Analysis** of standardization potential (state of the art, overview etc)
- ✓ Step 2 – Identification of **gaps** and proposal for new standardization work (input to existing work, new standards, roadmaps etc)
- ✓ Step 3 – **Links** with ongoing standardization (Liaison Organization if applicable)
- ✓ Step 4 – Guidance on the **general** standardization process
- ✓ Step 5 – **Publication** of the final deliverable (*note: CEN-CENELEC keep copyright!*)

Note: the Research Project needs to ensure the necessary funding (e.g. for a Workshop secretariat; a liaison) is included in the budget (in addition to person-days)

Standardisation funding



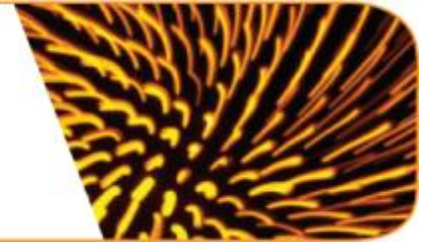
Support can go to participation in the Technical Committee working on an existing European standard with the goal of injecting innovative elements in the standard

Funding can be provided to finance preparatory and accompanying work for developing new standards, or project experts' participation in a technical committee's work

A “Liaison” can be financed as part of the project allowing for a representative of the project to participate in meetings of the relevant Technical Committee and contribute to the work

The preparatory and accompanying work for developing a CWA

Influencing Standardization

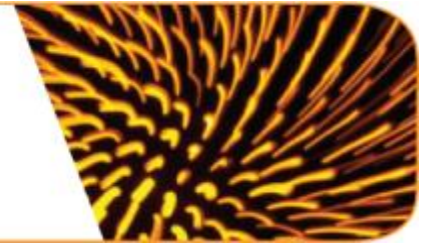


- Project funded under FP7 responding to FP7-SST-2008-RTD-1 call:
PantoTRAIN: Pantograph and Catenary Interaction

- Research:
 - proposal to **extend EN 50367** pantograph homologation procedure to different catenary systems by numerical simulation has been made
 - proposal to extend TSI HS ENE (*) procedure by the use of simulation for pantograph characteristics has been made

(*) Technical specification for interoperability relating to the 'energy' sub-system of the trans-European high-speed rail system

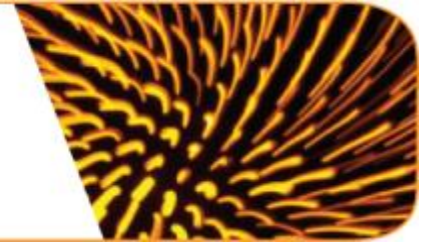
Driving Standardization



- Project funded under FP7 **SustainValue**: Sustainable Value Creation in Manufacturing Networks
- Research on new industrial models for a sustainable and efficient production.

Standardization: The project developed a **Workshop Agreement** covering good-practices for developing business models, governance models, sustainable solutions and performance management for existing and new sustainable production and service networks (“CWA 16768:2014”).

Promoting Globalization



- Project funded under FP7 [ENCASIT](#) (The European Network for Coordination of Advanced System Integration)
 - Contributed to development of International Standard: IEC* 62258 - 'semiconductor die products: requirements for procurement and use'
- Following the FP7 [STALLION](#) (Safety Testing Approaches for Large Lithium-Ion battery systems) project, a new standardization project was approved in IEC/SC21 to deliver (by 2015-12?) [IEC 62897 Ed. 1.0](#) "Stationary Energy Storage Systems with Lithium Batteries - Safety Requirements"

European Conference – 30 October 2014



**STANDARDS:
YOUR INNOVATION BRIDGE**

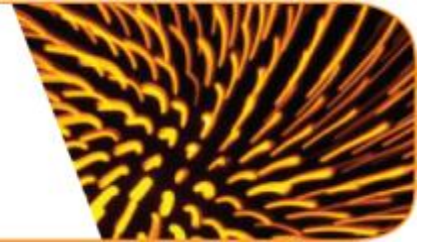
European Conference

Save the date: **30 October 2014**

Brussels

[register online](#)





Thank you for your attention!

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