ICHSS
International Conference on Hydrogen Safety
9-11 September 2013, Brussels

JRC - role and activities on hydrogen safety
JRC’s Mission and Role

... is to provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle

Direct research:
JRC is the European Commission's in-house science service and the only DG executing direct research; providing science advice to EU policy

Serving society, **stimulating innovation**, supporting legislation
Science-based input to EU legislation and standardisation

JRC

Scientific-based Support

EU Legislation Standardisation

Innovation Jobs & Growth

Sustainability Competitiveness

2010-2020
JRC in HORIZON 2020

*Industrial leadership priority:* JRC will contribute to innovation and competitiveness:

- support to the standardisation process and standards with pre-normative research, development of reference materials and measurements, and harmonization of methodologies in five focal areas (energy; transport;..).

- carrying out safety assessments of new technologies in areas such as energy and transport

- contribution to the strategic orientation and science agenda of public-private partnerships

*(COM(2011) 809, 811)*
PNR at JRC: facilitate, implement, use the results

1. Partner with EU industry and research institutions

2. Harmonise internationally
Regulation (EU) No 1025/2012 on European Standardisation

Art. 9: Cooperation with research facilities: JRC shall provide European standardisation organisations with scientific input, to ensure that European standards take into account economic competitiveness and societal needs such as environmental sustainability and safety and security concerns.

JRC Activities:

- Fast filling and permeation of type 4 tanks
- Performance characterisation of H2 safety sensors
- CFD modelling of H2 safety issues
- Hydrogen purity requirements for automotive stacks
- Performance characterisation of fuel cells
Joint Research Centre (JRC)

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Serving society
Stimulating innovation
Supporting legislation