Digitising European industry

Next steps relevant for the Process Industries

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#DigitiseEU
To reinforce the EU's competitiveness in digital technologies and to ensure that any industry in Europe – big or small, wherever situated, whatever sector – can fully benefit from digital innovations to upgrade its products, improve its processes and adapt its business models to the digital transition.

The platform: our added value at EU level

- Coherence, collective steer, co-ordination
- Monitoring actions at all levels: EU, MSs, regional and industrial
- Diffusion of Best Practices
- Pool investments
Digitising European Industry initiative

Broadly disseminate digital innovations **for all:**

Setting up a **pan-European network of Digital Innovation Hubs**

A **regulatory framework** adapted to the digitisation of industry

Data: flow, access, exploitation safety, responsibility (liability)

Strengthen **competitiveness** by developing **partnerships and platforms**

**Standardisation**

**HPC/cloud**

**A framework for the coordination of national and European initiatives**

Prepare **Europeans for the digital age**

Training, education, new work environment
Focus Area 2018-20: Digitising and transforming European Industry and Services

- Focus Area - Total: ~ 1.6B€ (tentative):
  Digital Innovation Hubs and Platforms in ICT: +-600 M€

- No direct calls under ICT in the context of the SPIRE PPP

- Calls with special relevance for SPIRE:
  - I4MS Phase 4 - Digital Innovation Hubs
  - Digital Manufacturing Platforms for Connected Smart Factories
    (Broadly phrased: "connected smart production facilities"

- More outside Focus Area:
  - e.g. Lighthouse Initiative in ECSEL: ECSEL4.0
  - Security and resilience in for collaborative manufacturing (R&I 2019)
  - AI in collaborative manufacturing
Digital Innovation Hubs (DIH)

I4MS Phase 4 – 2020 (>60M€ - planned):

Uptake of digital game changers and digital manufacturing platforms
- IoT and CPS
- Human-robot cooperation
- Analytics, simulation, AI
- Additive manufacturing/3DP
- Uptake of emerging platforms

Requirements for DIHs:
1. rooted locally
2. critical mass of experiments through cascading funds
3. sustainability + business plan
4. collaboration in the network

- 145M € of EU funding - 16 large projects
- 125 DIHs/competence centres
- 450 experiments: 80% cross-border dimension
- 560 contractors. Out of which 406 industrial:
  - 84% SMEs and mid-caps, 50% users,
  - 65% new in EU R&I Programmes
- 29 Members States and Ass. Countries

Interactive map
http://i4ms.eu/regional_hubs/map.php
Digital Innovation Hubs Catalogue – Query on the chemical sector

Work in progress
Currently 50 entries
Aligning investments and federating R&I efforts from all players (industry, national initiatives and EU) on common interests around the platform economy based on European interests and values

**Digital Manufacturing Platforms:**
- total funding 95M€ over 2 years
- proposals up to 16 M€ considered appropriate

**2018:**
- Agile Value Networks
- Excellence – zero-defect

**2019:**
- Human factor
- Sustainable value networks – circular economy
• Where would you in your sector expect major disruptions or transformation in the near future – similarly to what is happening in automotive right now?

• What can we do in R&I on digital game changers that helps European industry to master these changes?