

Manufuture 2013

EFFRA Roadmap & Horizon 2020



Speaker:

Massimo Mattucci
EFFRA Co-Chairman



EFFRA Roadmap & Horizon 2020

FoF PPP background

- Positive experience of FoF PPP since 2009:
 - development of **strategic research roadmap** in FP7
 - 4 calls with **150** projects launched; first results now available
 - over **1000** organisations
 - total value of projects over €1200 Mill
- Commitment of industry to European RD&I: **PPP Declaration (Aarhus)**
- **Broad consultation** (stakeholder & public) for new roadmap 2014-2020

new strategic research roadmap
'Factories of the Future 2020'



EFFRA Roadmap & Horizon 2020

FoF PPP Assessment (by independent experts)

- Added-value of action at Union level
- Scale of impact on industrial competitiveness, sustainable growth and socio-economic issues
- Long-term commitment from all partners based on a shared vision and clearly defined objectives
- Scale of the resources involved and the ability to leverage additional investments in research and innovation
- Clear definition of roles for each of the partners and agreed key performance indicators over the period chosen

Factories of the Future PPP
shall continue under Horizon 2020

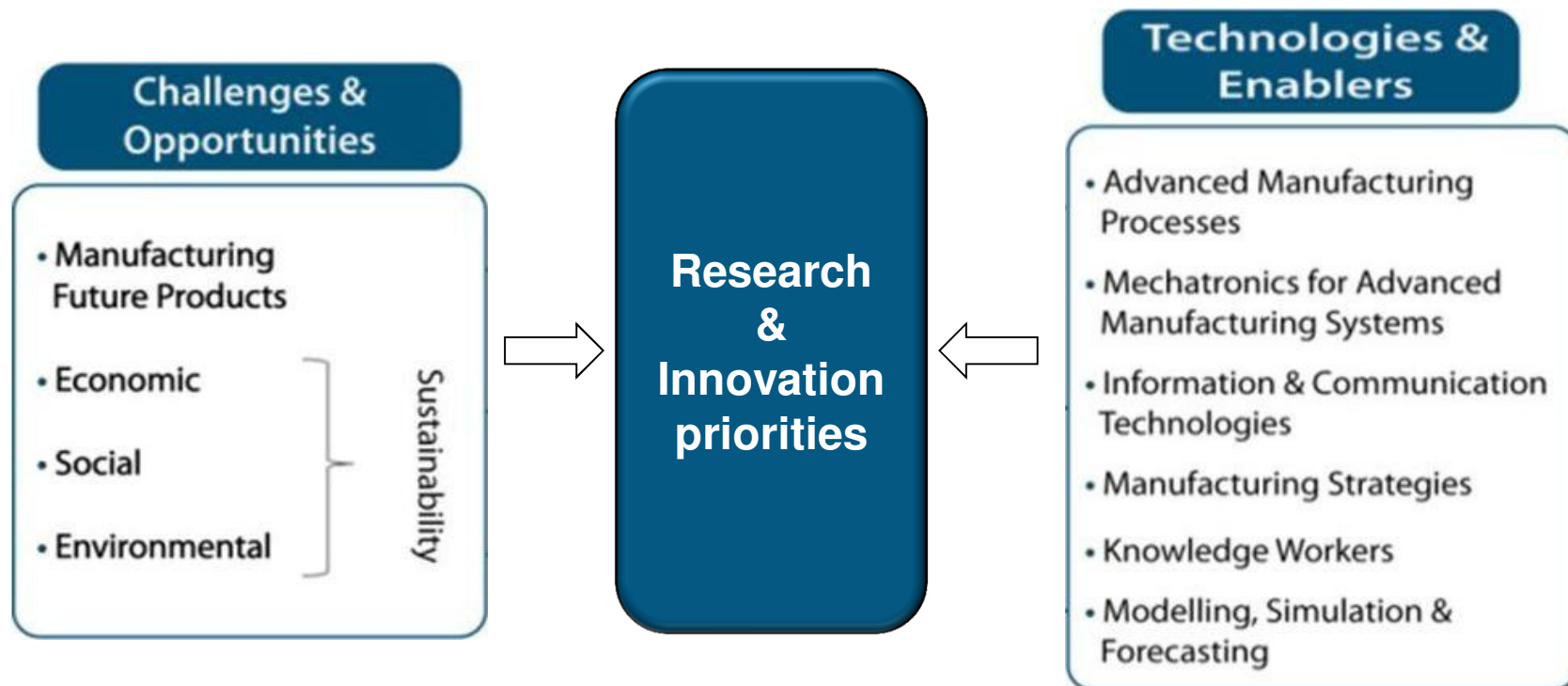
EFFRA Roadmap & Horizon 2020

Expectations

- Reach **Europe 2020** & **Horizon 2020** targets by addressing both societal challenges & industrial competitiveness:
 - creating competitiveness, sustainability & employment
 - creating sustainable, safe & attractive workplaces
 - fostering creation of advanced technology based companies
 - reducing impact on environment
(doing more with less, reducing consumption)
 - strengthen research & innovation potential of Europe
- Reach EU Industrial Policy targets:
 - sustainable growth of EU manufacturing
 - increase value added by manufacturing
- Underpin EU Trade & Investment Policy
 - contribute to retention of EU as world's leading trade region

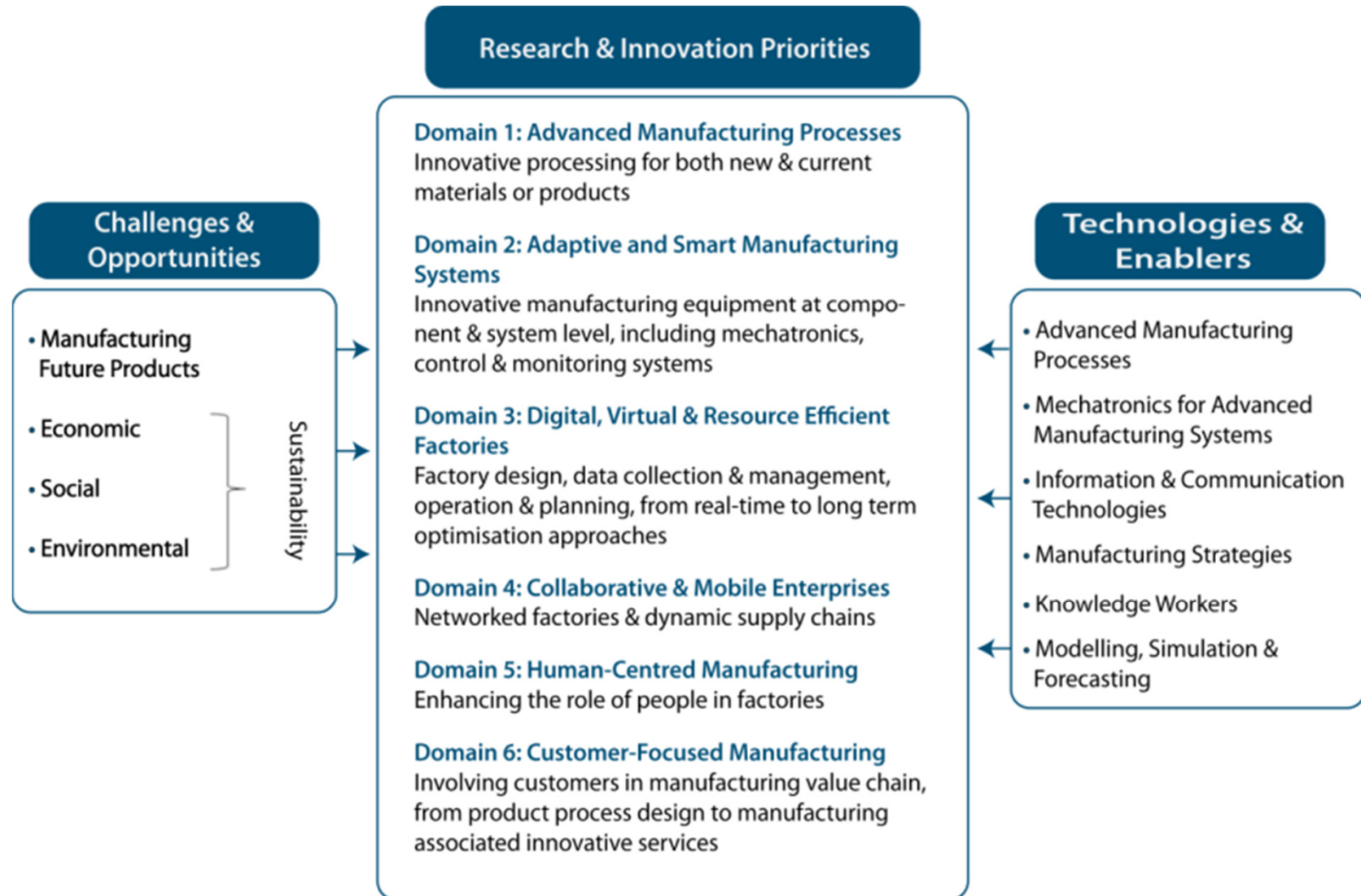
EFFRA Roadmap & Horizon 2020

Identifying R&I Priorities

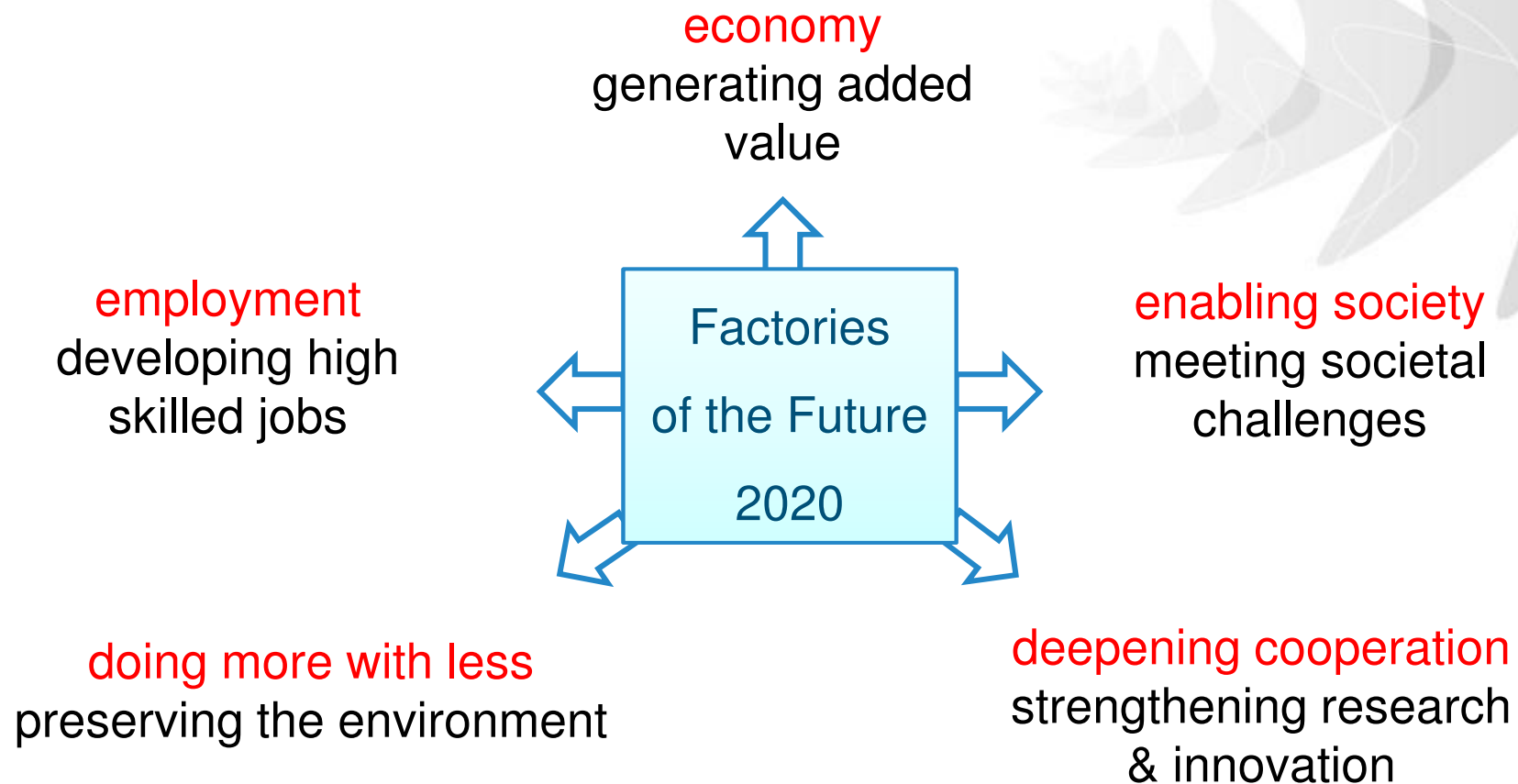


Identify priorities by understanding challenges, determining technologies & enablers required to meet challenges and measuring the (potential) impact of technologies

Research & Innovation Priorities



Foreseen Impact



EFFRA Roadmap & Horizon 2020

Towards Contractual PPP (cPPP)

- Establish stable but dynamic **industry-led** roadmap (base reference for the cPPP within H2020)
- **Commitment** from private side (matching funds, fostering participation and uptake, stimulation of technology transfer)
- Definition of **whole H2020 budget** for continuity
- **Formalisation** of public & private roles

EFFRA's actions

- Coordinate **implementation** of Factories of the Future 2020
- Collaborate closely with **Manufuture ETP** (overall vision)
- Support initiatives like 'Smart Specialisation' & **Added Value Manufacturing KIC**
- Promote direct participation of manufacturing industry including SMEs
- Expand FoF **projects database**

EFFRA Roadmap & Horizon 2020

Monitoring & KPI

- EFFRA has developed unique [projects database](#)
- Database enables projects to be mapped on priorities, challenges & technologies/enablers
- Domains enable identification of [expected impact](#) , monitoring of impact during and after project conclusion

Key Performance Indicators

- Economic impact assessment
- Societal impact assessment
- Monitoring innovation capacity
- Monitoring impact using S&T performance indicators on project level (in a dedicated database)
- Environmental impact assessment

EFFRA Roadmap & Horizon 2020

Clustering & Networking

- Establish links and cooperation between projects
- Identify opportunities of **clustering** projects results for wider “**demo**” activities with larger industry participation
- EFFRA annual workshops:
 - exchange of expertise & strengthening of network
 - external experts for market uptake, venture capital

EFFRA's Role

- Further **develop FoF network** & links with manufacturing-related initiatives across DGs (RTD, CNECT, ENTR, ENV, ENER, MOVE, EAC, REGIO)
- Strengthen links with **fellow cPPPs** (SPIRE, EeB, EGVI, Robotics, Photonics, 5G Infrastructure)
- Monitor national & regional activities (via Manufuture NRTPs) within “**Smart Specialization**”

EFFRA Roadmap & Horizon 2020

KETs Integration & Pilot Activities

- Multi-sector approach:
 - under FP7 projects have **integrated KETs**
 - Factories of the Future 2020 **incorporates KETs**
- All FoF projects have included elements of **demonstration**
- Factories of the Future network has experience through **demo** & **pilot** activities for projects results validation and diffusion
- EFFRA involved directly in **KET High Level Group (HLG)**
- Need for '**add-on**' **initiative** to support larger **pilot-lines**, to avoid negative impact on successful continuation of PPPs & distract resources
- Possibility to combine EU, national & regional funding (within "**Smart Specialisation**") to enable pilot lines (up to TRL8)

EFFRA Roadmap & Horizon 2020

Next Steps

- Contractual PPP:
 - fine-tune [memorandum of understanding](#) (MoU)
 - expected [signature](#) in December
- Work to ensure an [efficient](#) and [industry-relevant](#) Added-Value Manufacturing KIC
- Strengthen alignment with EU [Industrial Policy](#)
- Preparatory work for [FoF 2014 & 2015 Calls](#) within AIAG:
 - priorities, budget, demo content, SME focus
 - expected launch at PPP [Info-Day in December](#)
- Interaction with other PPPs roadmaps and related initiatives to avoid overlapping and wasting of resources

Stakeholders waiting for “good news”

“Without a strong industrial base, Europe's economy cannot prosper”

EC Competitiveness Reports 2013

- Progress ongoing, but **Challenges remain**: improved innovation vs high unemployment, ongoing low investment & high energy costs
- **Recovery & Growth**
 - important not to underestimate Industrial Policy target of 20% GDP
- **Vital Part of Economy**
 - manufacturing represents large share of Europe's economy & key to its competitiveness
- **Sustainable Growth**
 - retains and creates highly skilled jobs
- **Support for SMEs**
 - manufacturing industry represented by EFFRA is mainly composed of SMEs who need strong support

Thank You

massimo.mattucci@comau.com
info@effra.eu



EFFRA.EU



@EFFRA_Live



EFFRA.Live