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CHALLENGES FOR EUROPEAN INDUSTRIAL POLICIES



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CHALLENGES FOR THE NEXT PERIOD

- Maintain Manufacturing Industry and Production Technologies as a political priority
 - Shape the next FP: PPP's; KET; etc. (Horizon 2020).
- Improve the “system’s output”
 - More exploitation/utilization of research results + better European coverage (pilots; demonstration; dissemination)
- Push for a better innovation cycle coverage
 - At European level; at national/regional level; alignment and coordination is needed
- Address other complementary areas
 - Education and training; IPR system; Fiscal framework, standards and regulation, etc.

SETTING THE PRIORITIES

Success factors

- Industry needs to define its research and innovation priorities (short, medium and long term):
 - Aligned with a business strategy (sectorial)
 - Relevant for a vast community of stakeholders (wide consultation and support)

- Industry needs to channel the priorities to the political level:
 - Quality of the research agenda
 - Strong support from the stakeholders (industrial companies + associations + research organizations)

SETTING THE PRIORITIES

Success factors

- **From a business strategy to a research agenda:**
 - “MANUFUTURE - A VISION FOR 2020” – 2004
 - “MANUFUTURE SRA” – 2005
 - “MANUFUTURE ROADMAP” – 2006/2007 (FP7 input)
 - “PPP Factories of the Future Multi-annual Strategic Roadmap” – 2009 (PPP FoF input)
- **Wide participation and open process:**
 - MANUFUTURE PLATFORM Community (including its 26 National and Regional Platforms)
 - EFFRA members
 - Other ETP's (14)

SETTING THE PRIORITIES

Success factors

- **Channel the message to the political level:**

- MANUFUTURE Industrial Advisory Group meeting with President Barroso (2006)

- Meeting with President Barroso to deliver the MANUFUTURE Porto Manifesto (outcomes of the 2007 Conference) (2008)



- Creation of the AIAG, to support the EC with the definition of the topic calls for the PPP FoF (2009)

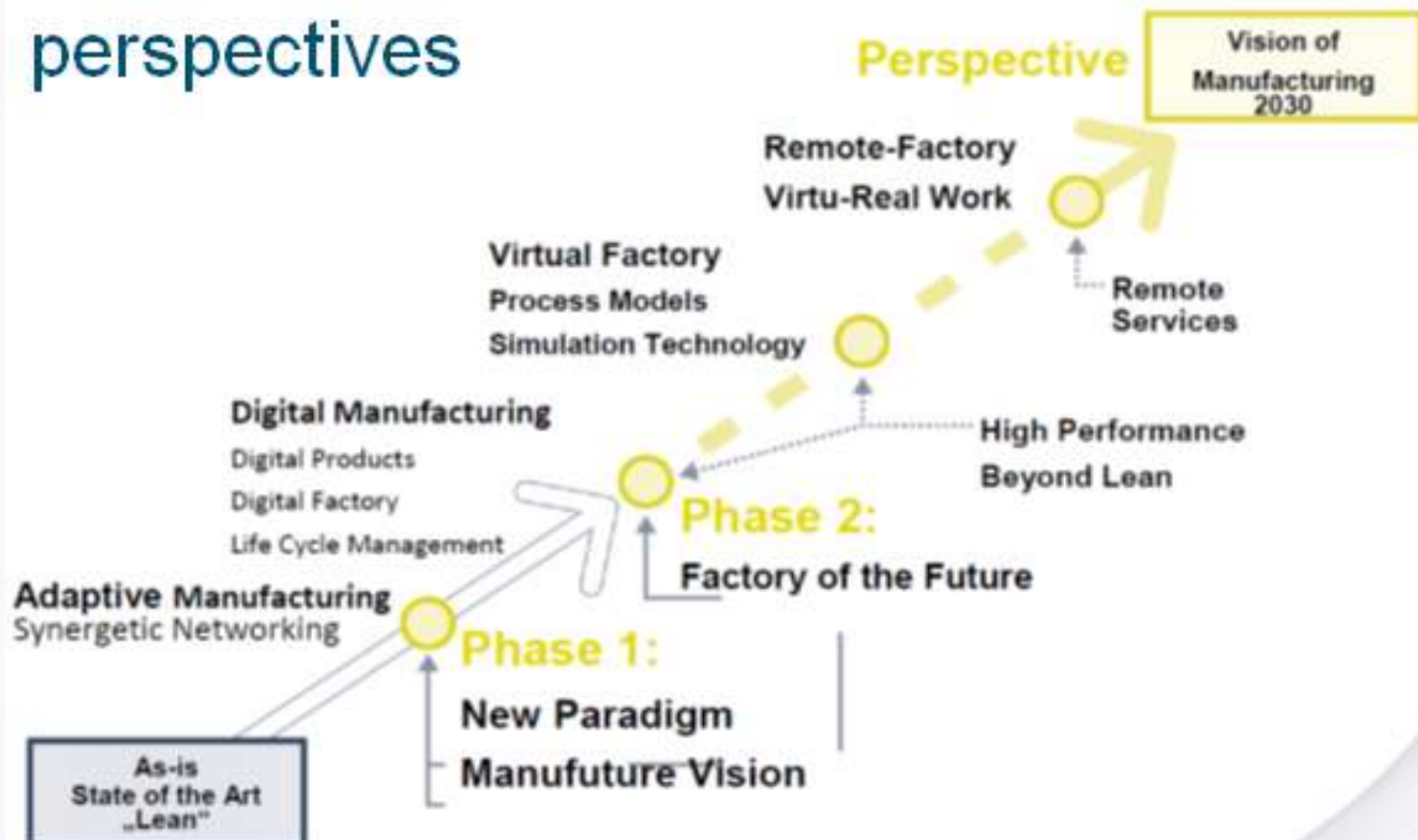
- Meeting at the European Parliament, with ITRE committee representatives (2010 + 2011)

SETTING THE PRIORITIES

Ongoing Work: MANUFUTURE ETP

Manufuture vision

2010-2030 Manufacturing perspectives



SETTING THE PRIORITIES

Ongoing Work: EFFRA

Factories of the Future PPP for Horizon 2020

RD&I roadmap 2014-2020

- roadmap will cover R&D and innovation activities
- guiding principles: industry competitiveness, from research to industrial application and market uptake
- ambition: key impact on industrial application fields
- ongoing comprehensive multi-sector consultation process



- PPP is only a small part of the research programmes framework, that also includes:
 - The rest of the Cooperation Programme: namely NMP (nanosciences, nanotechnologies, materials and new production technologies) and ICT (information and communication technologies) programmes
 - Competitiveness and Innovation Programme (CIP): focus on innovation related topics
 - Trans-national and regional programmes: like ERANET (MANUNET) and EUREKA (MANUFUTURE INDUSTRY EUREKA CLUSTER, PRO-FACTORY) Programmes
 - National and regional programmes: existing in many European countries and regions

INNOVATION CYCLE COVERAGE

Generating business value

Basic Research

7FP COOPERATION

Applied Research

Experimental Development (PCP)

Test & Validation (PCP)

Dissemination & Demonstration (PCP)

Tech/Know Transfer & Training (new knowledge)

IPR and exploitation management

Design and Planning (PP)

Production (Development / Integration)

Test & Validation (PP)

Dissemination & Demonstration (PP)

Marketing and sales / Deployment

Training & Consultancy (users)

Maintenance and support (setting-up)

NR PROGRAMMES / PRIVATE

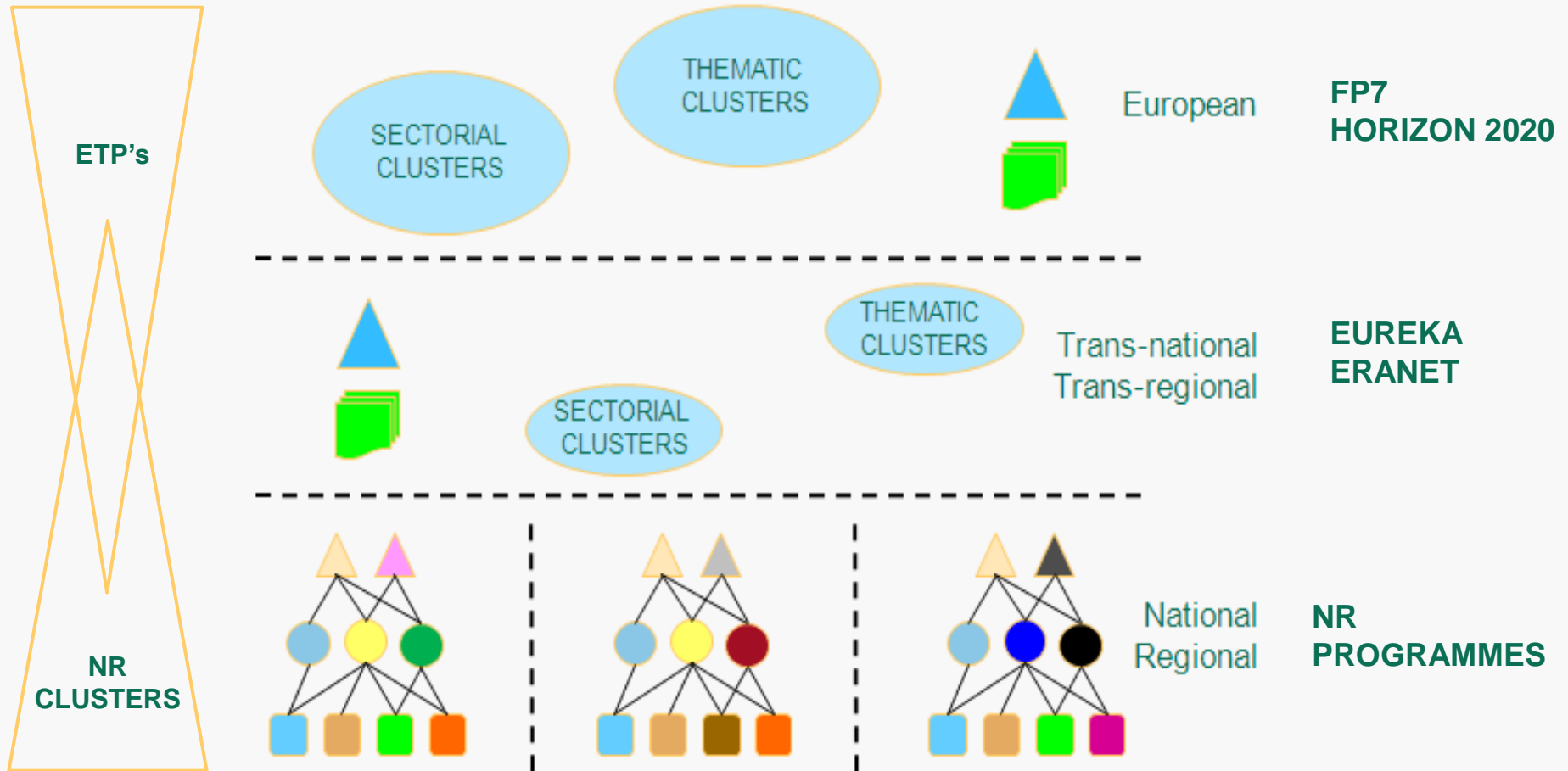
MORE SPECIFIC, COMPETITION, MONEY

LESS HORIZONTAL, PUBLIC INTEREST, RISK

DIFFERENT DYNAMICS, FUNDING RATES

INNOVATION CYCLE COVERAGE

Multi-level System



- Data collection among MANUFUTURE NRTP's
- 18 Contributions (out of 26) / only main cases
 - + 27 Clusters and other initiatives
 - 40 research and innovation supporting programmes (+3.720 M€)
 - 26 projects / 200M€ budget
- There is a huge potential for a more effective and efficient EMIRA.

CONCLUSIONS

Relevant drivers and success factors (i)

- Strategy and Roadmapping
 - From a business vision to a relevant R&D agenda (Multi-level)
- Innovation cycle coverage
 - From research to exploitation
- Funding model(s)
 - Combine and align resources + get more value from money
- Knowledge access and dissemination
 - Spreading and re-utilization
- IPR protection and management
 - Paving the way for effective cooperation
- Standards
 - Integrating the components

CONCLUSIONS

Relevant drivers and success factors (ii)

- Active involvement from Industry (sectors)
- Dynamics and organization at national/regional level
- All relevant stakeholders should be involved: industry (technology producers and users + research and education, organizations + technology centres, associations + public bodies, etc.)
- A clear strategy and an action plan, at national/regional level, aligned with the European level
- The existence of complementary initiatives and funds, at national/regional level, capable of supporting the projects and other activities.