
SMART SPECIALISATION
COOPERATION IN CENTRAL EUROPE
WORKSHOP on INDUSTRY 4.0

ManuFuture European Technology Platform

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Fraunhofer Project Center for Production Management and Informatics

A joint initiative of Fraunhofer and MTA SZTAKI

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MANUFACTURING --- MATTERS!*

- EUREKA -- Factory Umbrella (DE, UK, Italy: Prof. Fr. Jovane)
- EC → EU -- ETPs
 - Compulsory actions: VISION -> SRA -> Roadmap
 - Bi-yearly EU-wide congress
- 13 years of strong commitment,: EU – DG partner-status
- Reshaping the portfolio : possible directions
- Weight- by numbers: 2.3 M enterpr., 33M jobs, 23 Sectors, 6.032Bill.Turnover, 1.594 Bill ValueAdded
- Vision for Manufacturing 2030. ,

- ! CONSTANT EVOLUTION for the NEXT GENERATION OF MANUFACTURING: from the early 3rd Ind. Revolution!!!!

ANSWER 1: **Deployment of IND4.1 across EUROPE: from the beginning!**

* Obama, Junker, Merkel, Orban, ...



MISSION

The mission of the European Technology Platform *Manufuture* is **to propose, develop and implement a strategy based on Research and Innovation, capable of speeding up the rate of industrial transformation** to high-added-value products, processes and services, securing high-skills employment and winning a major share of world Manufacturing output in the future knowledge-driven economy.

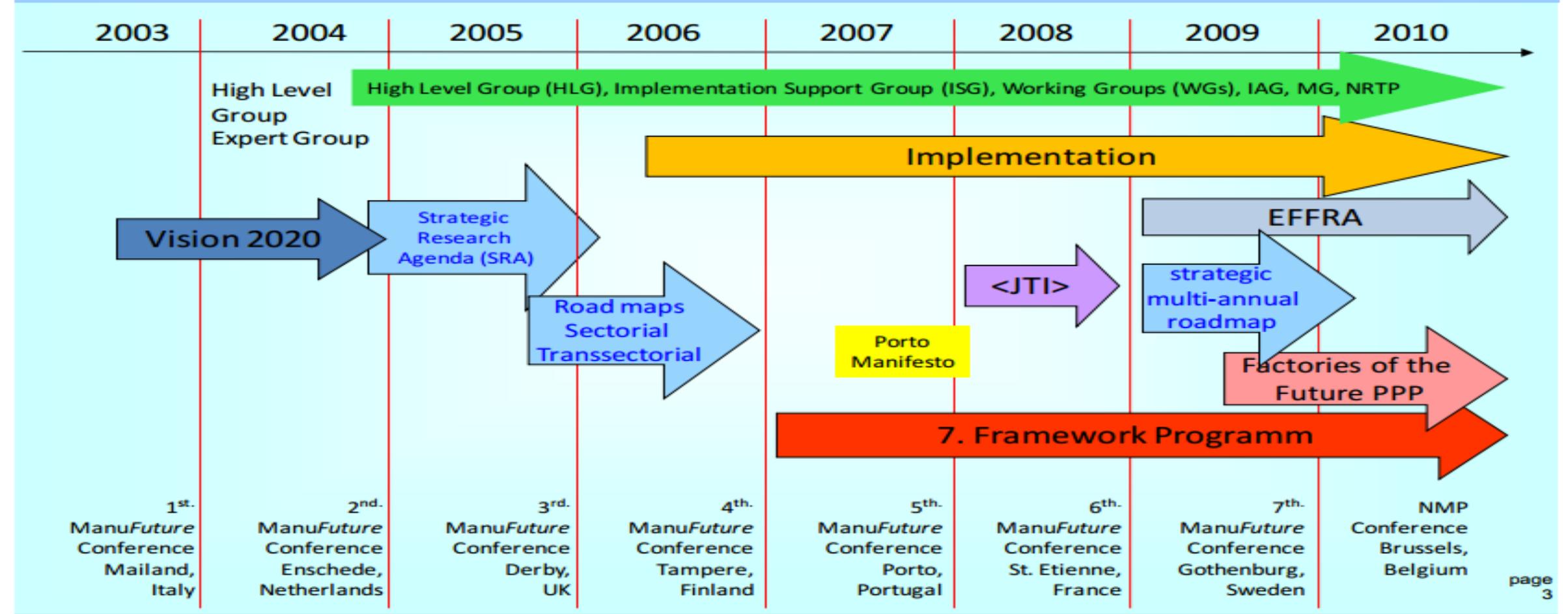


High-level objectives

- Competitiveness in manufacturing industries,
- Leadership in manufacturing technologies,
- Eco-efficient products and manufacturing,
- Leadership in products and processes, as well as in cultural, ethical and social values



the MANUFUTURE story



presentation „ManuFuture 2009“, NMP conference, Brussels 2010

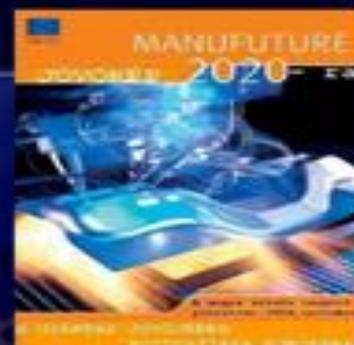
Hungarian NATIONAL ManuFuture P.



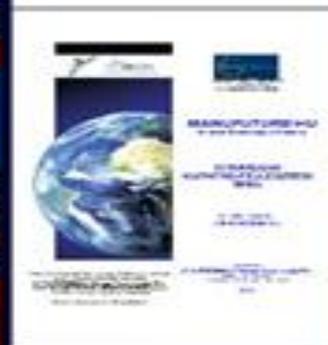
- Heritage: GKFT – GYKFT: Vision and SRA, (Roadmap cancelled by HISTORY)
- NKTH- sponsored nation-wide build-up
- GTE as host: Scientific-Technical Society for Mechanical Engineers
- 2016 -> Founding member of IPAR4.0



Manufuture Vision 2020
MANUFUTURE "JÖVŐKÉP"



Manufuture „Strategic Research Agenda“
MANUFUTURE "STRATÉGIAI KUTATÁSI TERV"



Roadmaps and
Implementation Plans
MANUFUTURE "MEGVALÓSÍTÁSI TERV"



| Munkaanyag | 2008 | | | | 2009 | | | | 2010 | | | | 2011 | | | | 2012 | | | |
|--------------|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Munkaanyag 1 | | | | | | | | | | | | | | | | | | | | |
| Munkaanyag 2 | | | | | | | | | | | | | | | | | | | | |
| Munkaanyag 3 | | | | | | | | | | | | | | | | | | | | |
| Munkaanyag 4 | | | | | | | | | | | | | | | | | | | | |
| Munkaanyag 5 | | | | | | | | | | | | | | | | | | | | |
| Munkaanyag 6 | | | | | | | | | | | | | | | | | | | | |
| Munkaanyag 7 | | | | | | | | | | | | | | | | | | | | |
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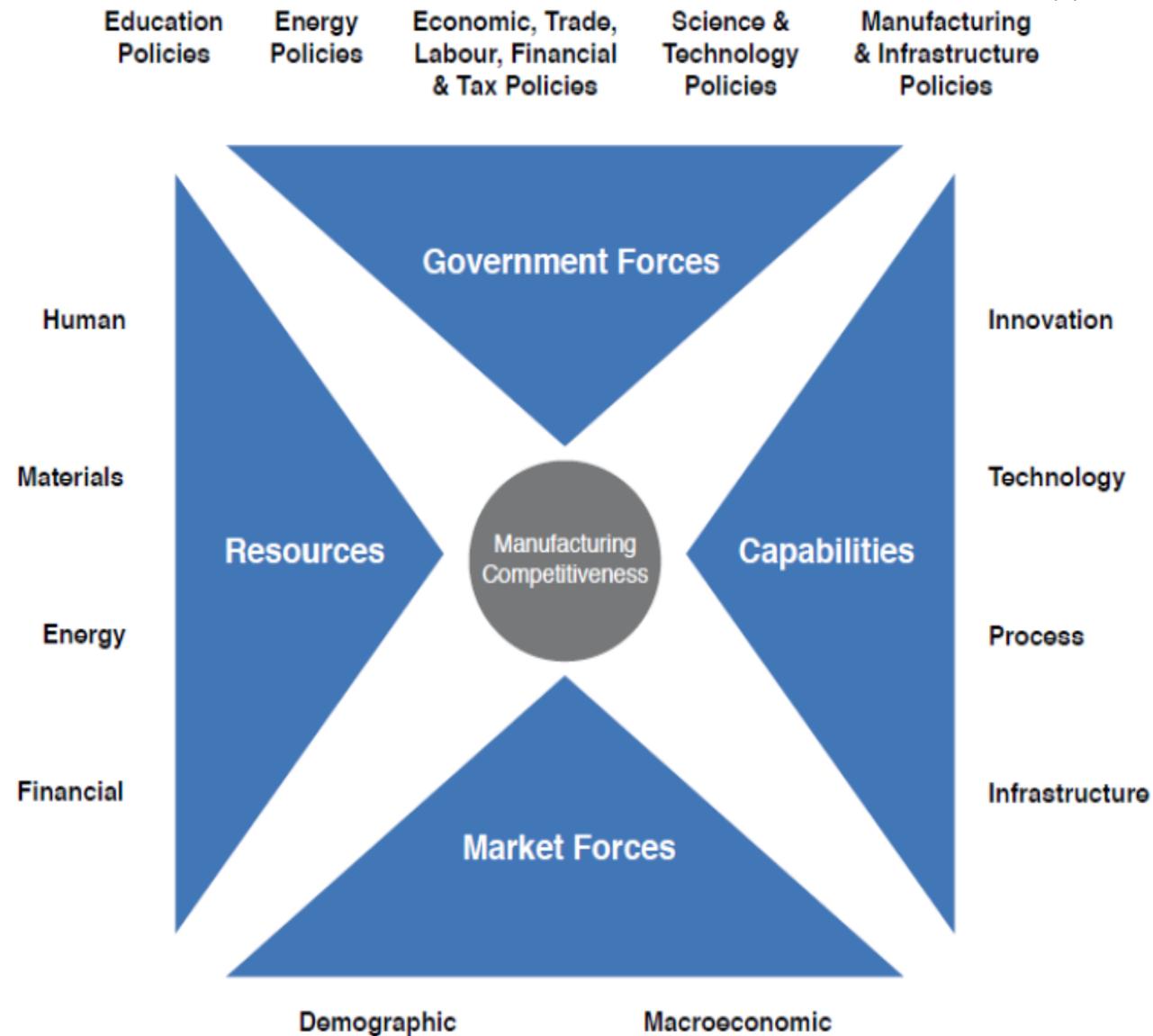


Manu*FUTURE* 2017

WORK PLAN

- Coordination among Sub-Platrforms
- Success of MANUFUTURE 2017 Conference (Tallin)
- White paper-Vision document –Manufacturing 2030
- KIC, DIHs, CPS-CoEs
- Org. Stucture: ISG, HLG, NRTPs (24), SUB-PLATFORMs

ManuFUTURE 2030 VISION DOCUMENT





EFFRA – European Factories-of-the-Future Association

- Legal entity
- Factories-of-the-Future Workplan document, Calls preparation,
- Definition for: Factory 4.0
 - Video presentation



Hungarian Supporting Channels

- IPAR4.0 Platform , ---- e.g. ORIGO event in October
- GTE Scientific-Technical Society, Spring Conference Manufacturing'18.
- EUREKA project for the Introduction of IND.4.0 (INTRO4.0)
-
- International events, ... Tallin- October, HLG: Portugal - November
- .. ,
- Bulgarian 2nd International IND4.0 December 2017. Borovets



Key Messages

- Manufacturing has a critical enabling role for the production of goods and international trade, and is the key to high added value and wealth.
- On every commercial product, you can put the sticker “manufacturing inside”
- A strong industry base or re-industrialization is necessary for all nations looking to permanently free themselves of the debt trap. Since making money without substance is mere illusion and not sustainable.
- Manufacturing is knowledge-intensive and need to be backed through scientific and applied research.
- Horizon 2020 is a unique opportunity to strengthen the European manufacturing base.

manufacturing
inside



Manu*FUTURE*

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THANK YOU

**Assuring the future of a competitive and
sustainable manufacturing in Europe**

www.manufuture.org/

