



**Workshop**  
**The MANUFUTURE Platform**  
Milan, October 20th, 2004



**“Key elements of the MANUFUTURE Platform”**

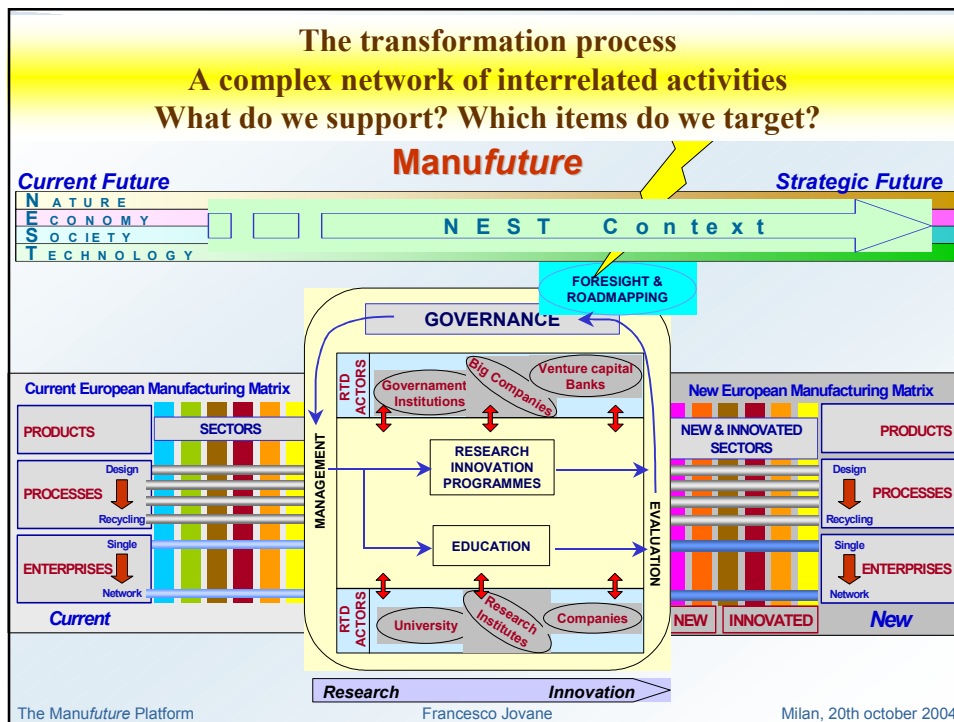
Francesco Jovane  
ITIA-CNR

*Milan, Palazzo Affari dei Giuriconsulti, 20th October 2004*



**TRANSFORMING EUROPE  
WITH A  
NEW MANUFACTURING INDUSTRY:**

- new products**
  - new processes, sustaining *products' life-cycle***
  - new enterprises**
- within a new Research-Development-Innovation  
Infrastructure**





**The MANUFUTURE PLATFORM**  
should deliver  
a **Framework** for a:

- strategic
- investment promoting
- long term

**RESEARCH AGENDA**  
*(Targetting Manufacturing processes?)*

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## Manufacture platform: what would it do?

**Manufacture Platform (new governance for RTDI):**

- brings together the main stakeholders in European Manufacturing.
- identifies common RTD goals of industrially productive processes
- develops foresight and roadmaps to achieve these goals.
- addresses technology & non-technology barriers
- Involves stakeholders including industry, academia and the investors in collaborative research; public and/or private
- Commits stakeholders to supporting financially the roadmap
- Allows to monitor progress implementation

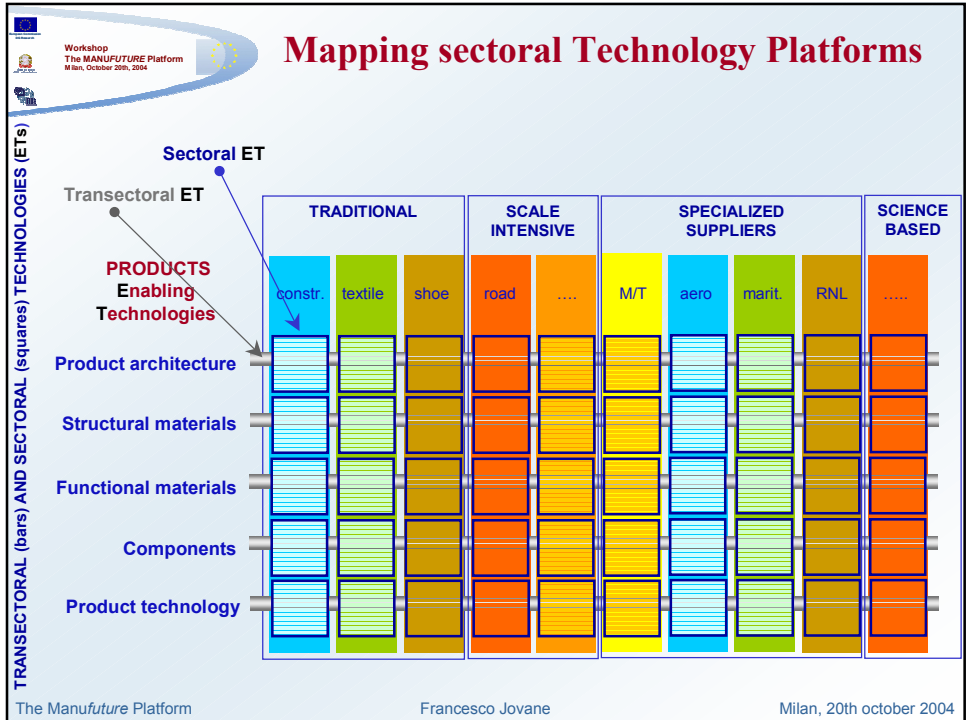
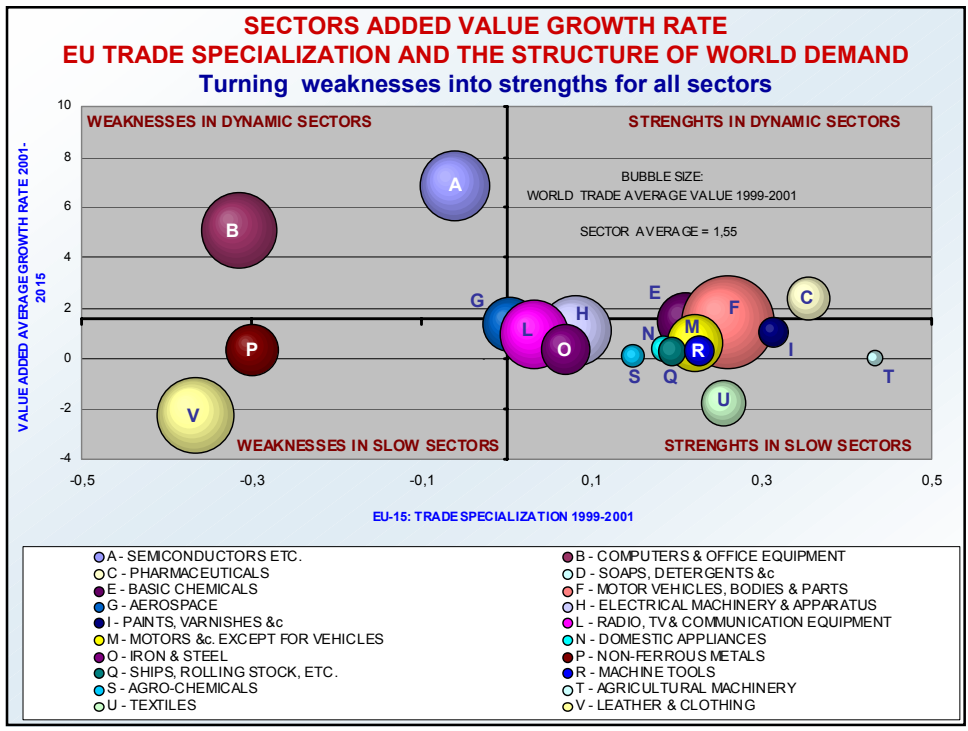
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## EUROPEAN MANUFACTURING SECTORS

**The transformation challenge  
In a global economy  
*towards the (Manu) future*  
(Eliminate all competitiveness drawbacks through technological innovation)**

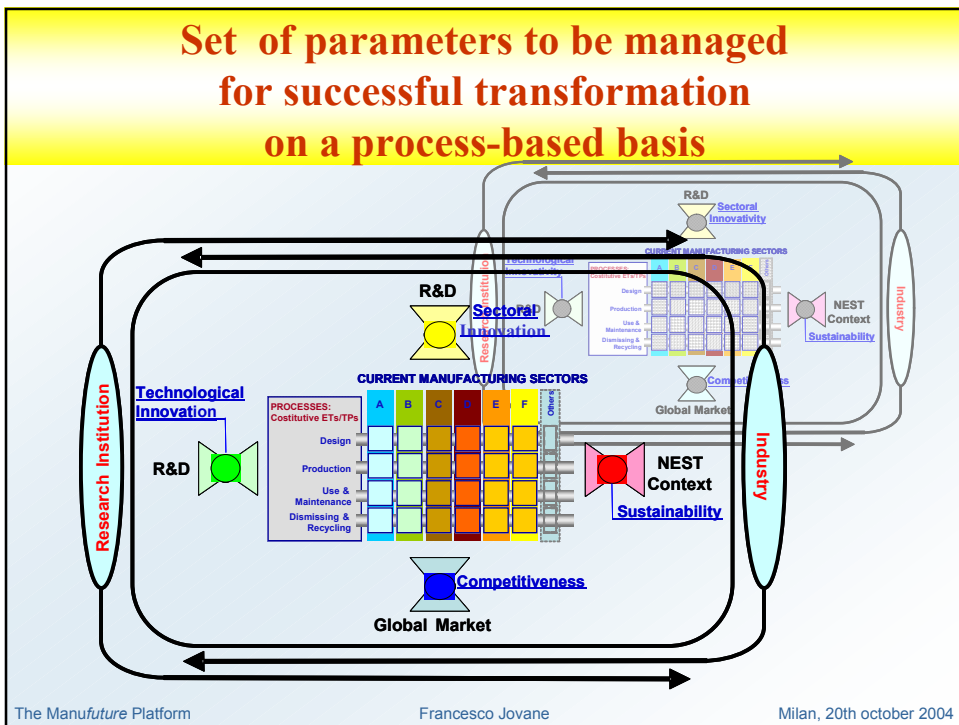
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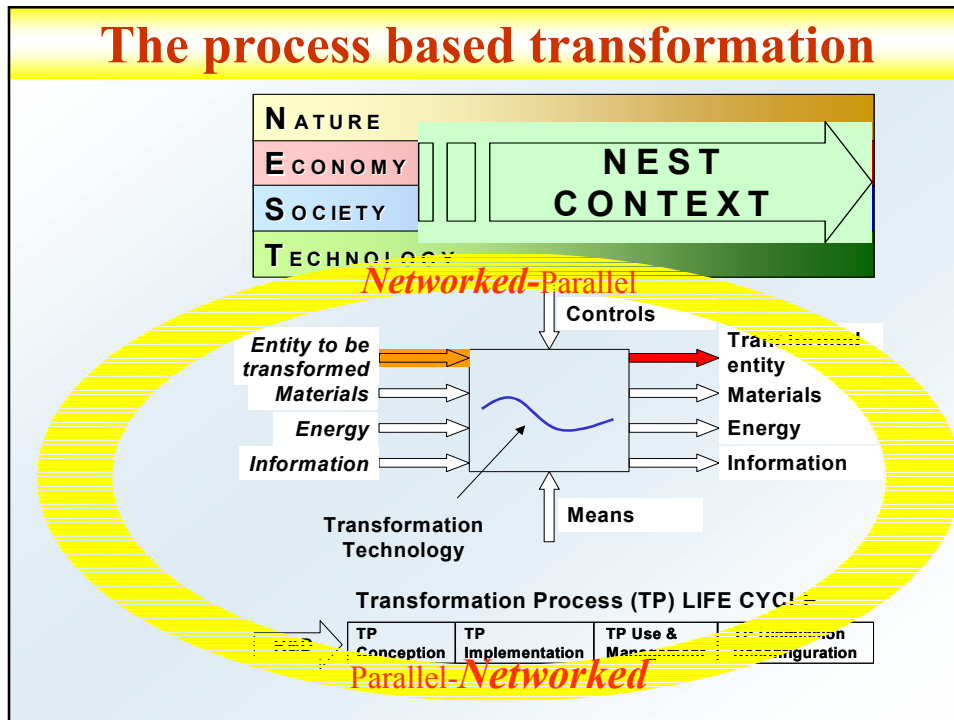
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# PROCESSES *sustaining* PRODUCTS' LIFE-CYCLES

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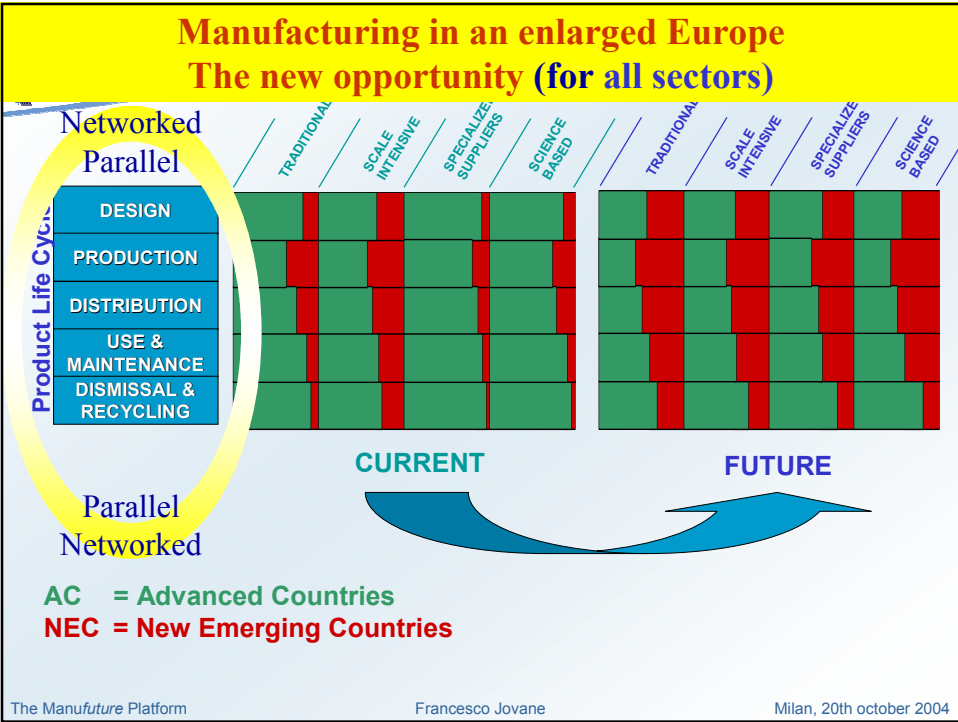
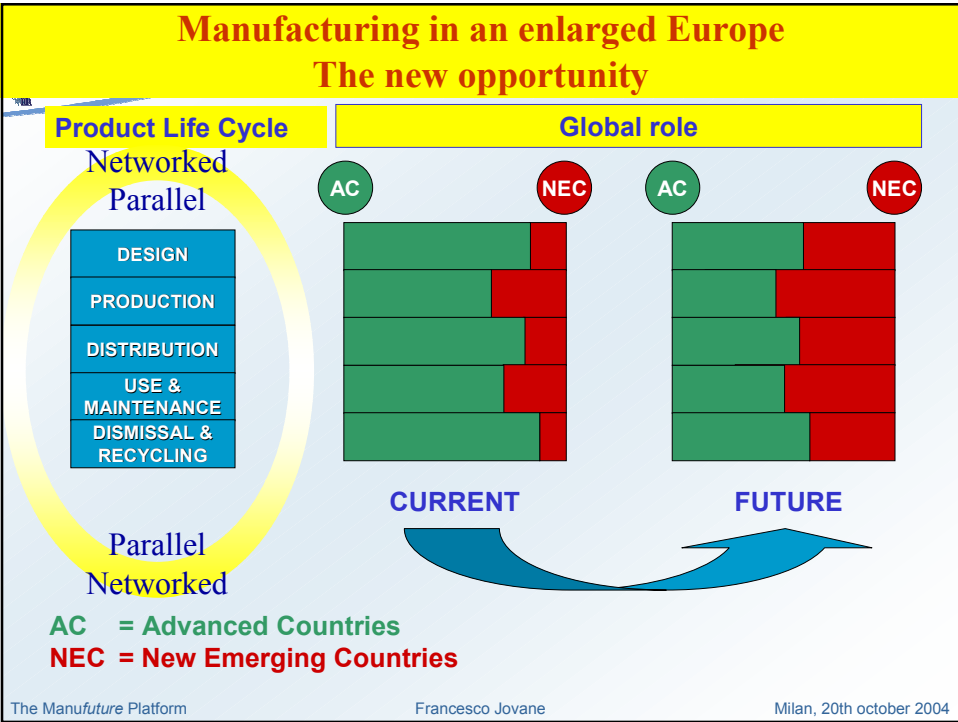
## The process based transformation

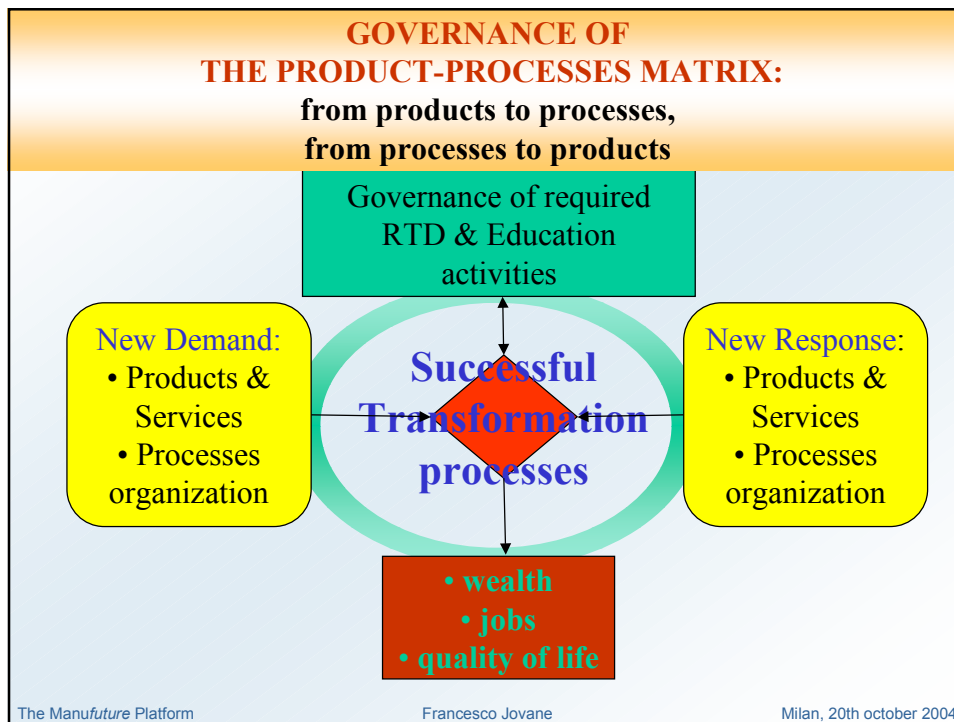



## Manufuture ETP Critical R&D Areas for Manufacturing

The following R&D areas have been selected at the ManuFuture Dortmund Workshop (July 2004)

- Adaptive Manufacturing
- Digital Manufacturing
- Manufacturing in Networks
- Knowledge Based Manufacturing







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**Manufacturing ETP**  
from the Minute HLG 22 June 04

**...Outcome of discussions**  
**Outlining a vision leading possibly to the preparation of a Technology Platform (TP) for Manufacturing was feasible.**

**Invitation to the participants to consider whether:**

- a TP is necessary
- and if so, should it take the form of an umbrella Platform
- covering manufacturing as a generic topic,
- treat the subject in terms of sector-specific issues, or
- take a 'horizontal' view focusing on the underlying enabling technologies?

**A number of suggestions emerged from the discussions:....**


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## Drivers for M-F platform-Summary

- Process focus for effective and continuous management of the knowledge generation (research), transfer and absorption process;
- Process focus for maximum efficiency of investment;
  - *Parallel development of new technologies, processes, industrial operations with the design of new products (sectoral platforms) will maximise economic benefit of respective investments*
- Process focus for an increasingly competitive RTD services supply environment;
- Process focus for accelerating new technology up-take (embedding) into new products and associated services;
- Process focus for distinguishing between the needs of global companies and SME;



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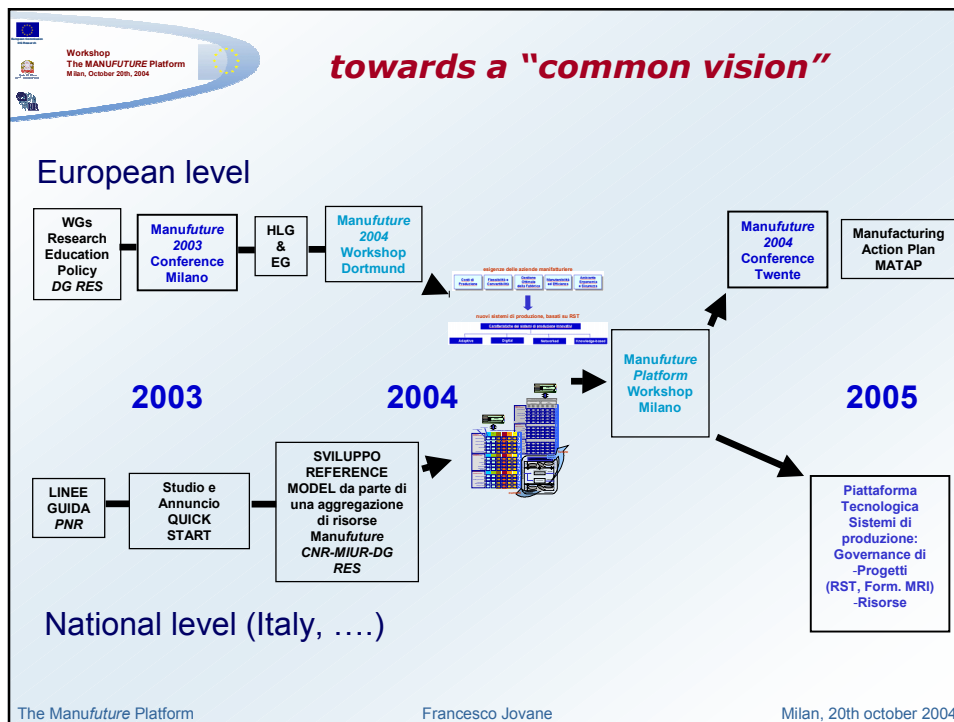
## M-F platform characteristics Summary

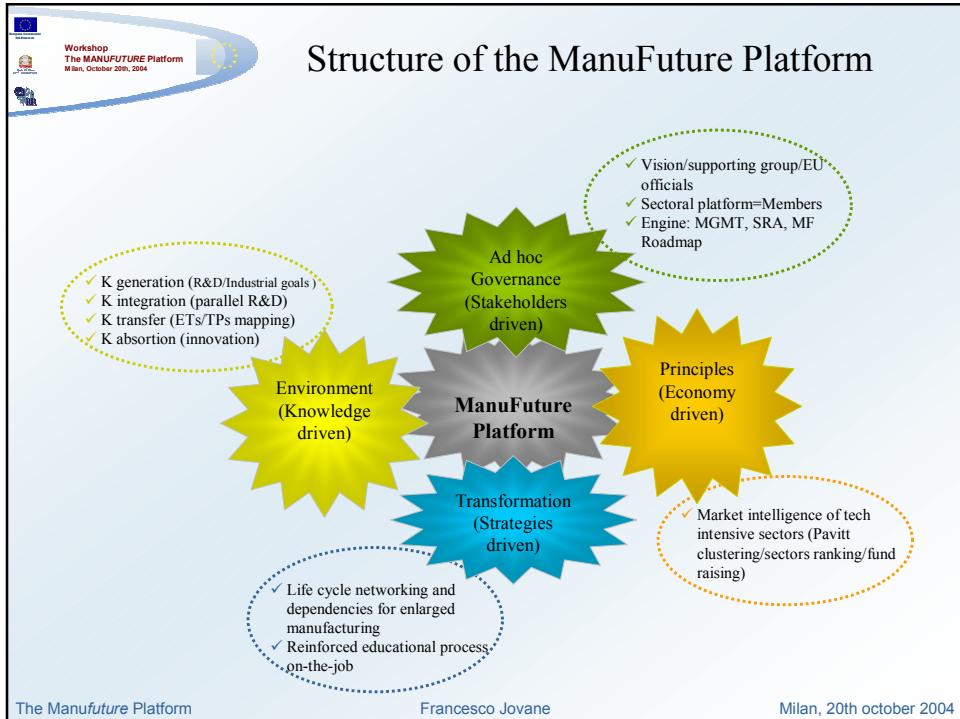
- **Support for a self-sustaining and innovating manufacturing environment;**
- **Strategic focus with medium, long term time horizon**
- **Trans-sectoral, multidisciplinary, process oriented;**
- **Targeting industrial transformation paradigms of great economic significance**
- **Unifying the new tools and human resources that are needed to bridge the gap between problem solving (ST-product development) and strategic (LT-manufacturing transformation) aims;**

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# Thank you for your attention

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