

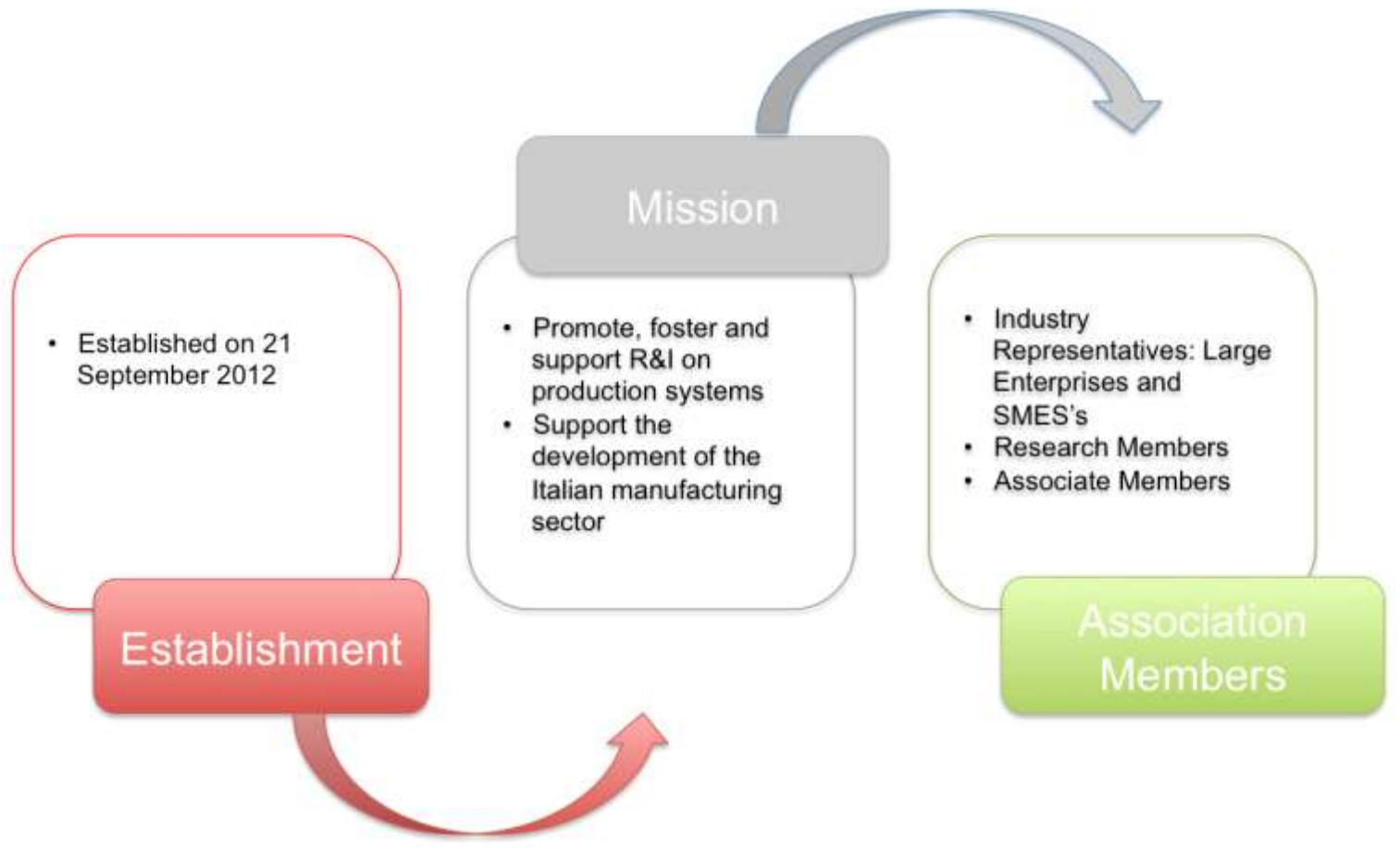
Gianluigi Viscardi

President of the Cluster Intelligent Factory

The Italian Technological Cluster Intelligent Factory (CFI)

**Conference Smart Factory- Smart People
Milan, 19 October 2016**

CFI: What is CFI?



CFI in numbers

7

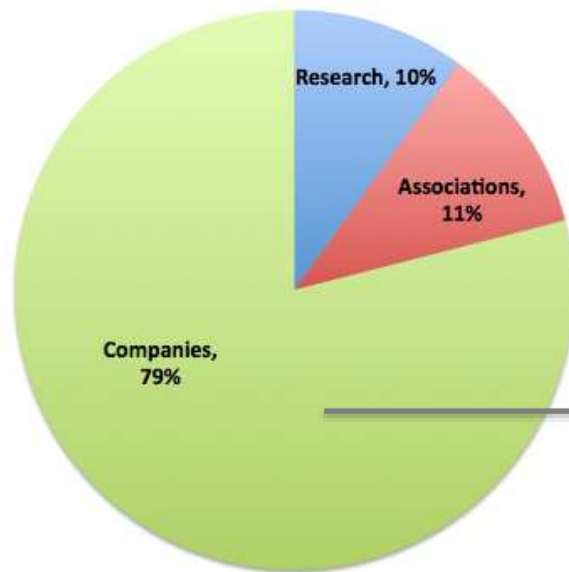
Regions

387

Participants

306

Industrial Participants



27% LEs
73% SMEs



CFI: The on-going Projects

Project 1: SUSTAINABLE MANUFACTURING
(CTN01_00163_148175)

Project 2: ADAPTIVE MANUFACTURING
(CTN01_00163_216730)

Project 3: SMART MANUFACTURING 2020
(CTN01_00163_216744)

Project 4: HIGH PERFORMANCE MANUFACTURING
(CTN01_00163_216758)

Project 1: SUSTAINABLE MANUFACTURING

Scientific Manager:
Tullio A. M. Tolio- ITIA
CNR Milano

Enterprises Manager:
Meccanica FINNORD

Nr. of Partners:
27

Budget:
11,1 MEuro



Project 2: ADAPTIVE MANUFACTURING

Scientific Manager:

Cesare Fantuzzi –
Università di Modena e
Reggio Emilia
Fabio Previdi –
Università di Bergamo

Enterprises Manager:

SCM Group

Nr. of Partners:

14

Budget:

10,2 MEuro



Project 3: SMART MANUFACTURING 2020

Scientific Manager:

Maria Giuseppina Uccelli
–Siemens SpA, Genova
Marco Taisch –
Politecnico di Milano

Enterprises Manager:

Siemens SpA, Genova

Nr. of Partners:

20

Budget:

12 MEuro



Project 4:

HIGH PERFORMANCE MANUFACTURING

Scientific Manager:

Michele Monno –
Politecnico di Milano e
Consorzio MUSP
Renato Bozio –
Università di Padova

Enterprises Manager:

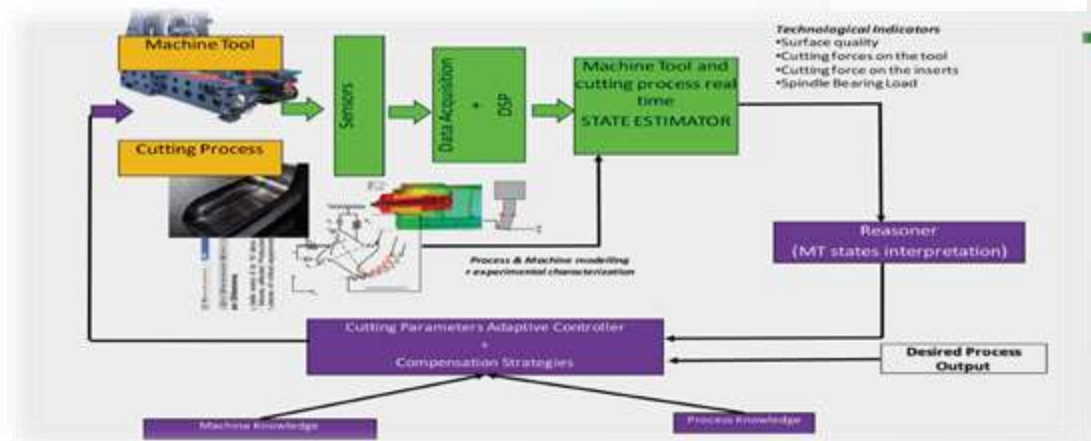
MCM SpA, Vigolzone
(PC)

Nr. of Partners:

15

Budget:

11,1 MEuro



CFI: The Added Value



CFI: The task in the National Innovation Policies



The Roadmap: a Strategic Paper



Looking at the future: The challenges for the manufacturing sector

NEW EMERGING MARKETS



DEMOGRAPHIC CHANGE



MEGATRENDS vs CHALLENGES

SCARCITY OF RESOURCES



CLIMATE CHANGE



TECHNOLOGICAL ACCELERATION



Looking at the future: An Analysis

- Analysis of other European initiatives
- Analysis of the peculiarities of Italian productive sector
- Analysis of regional Smart Specialization Strategies

The Enabling Technologies

Industria 4.0



10

11

12

13

14

15

16

Photonics

Machine for Micro and nano

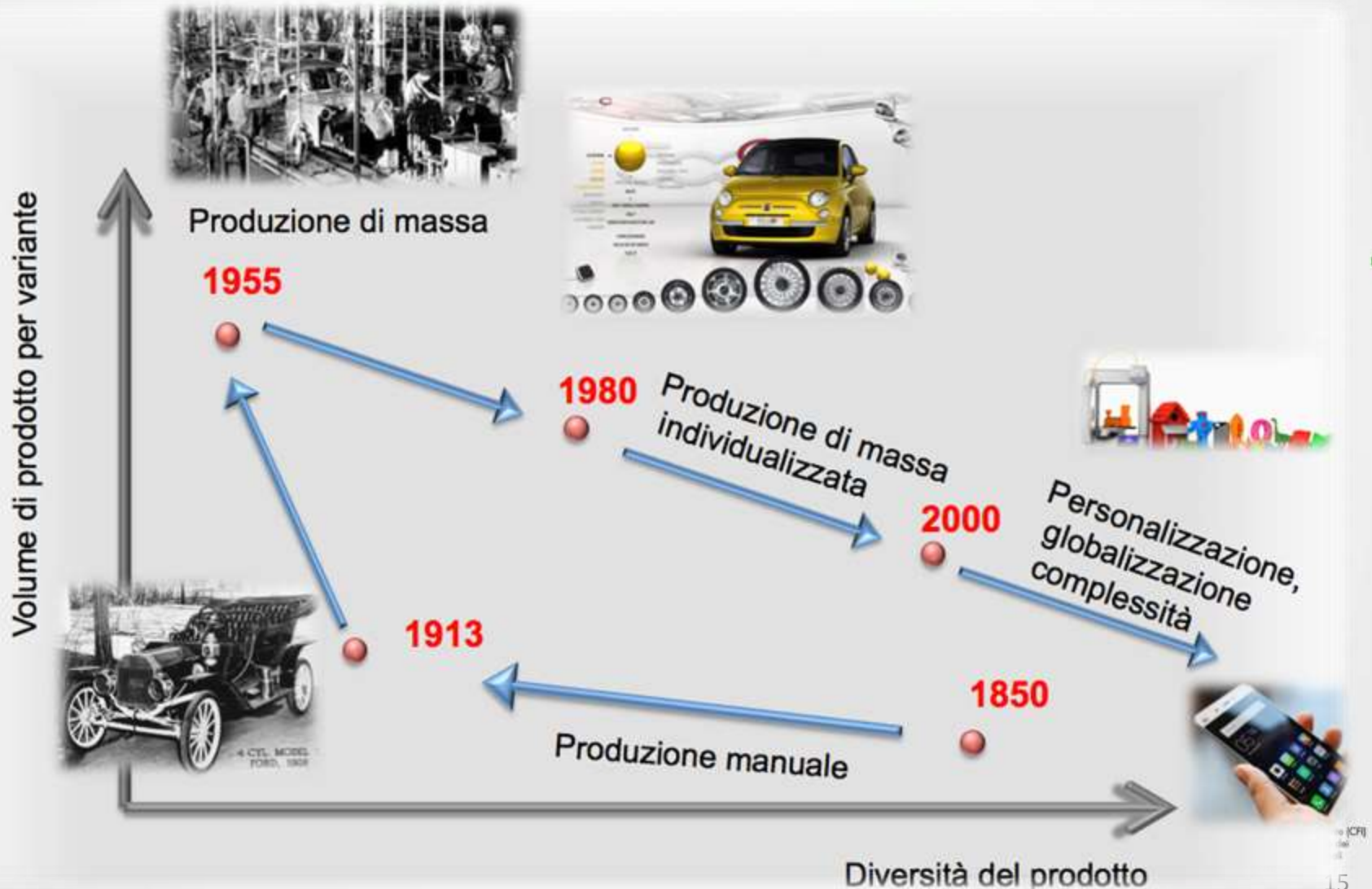
Hybrid Machines

Advanced control systems

Advanced models for production systems

...

Focus on Manufacturing: The market requirements



Focus on Manufacturing: The companies

Companies should:

- be **Flexible**
- be **Reconfigurable**
- Value e improve the **Know-how**

That is

- *“ready to produce one piece less than what is sold”*

A question...

Is **Italy** able to accept and win this challenge?



The Roadmap:

The Strategic Action Lines

- LI1: Systems for personalised production
- LI2: Strategies, methods and tools for industrial sustainability
- LI3: Factories for humans
- LI4: High-efficiency production systems
- LI5: Innovative production processes
- LI6: Evolutive and adaptive production systems
- LI7: Strategies and management for next-generation production systems



Roadmap per la ricerca
e l'innovazione
Research and
Innovation Roadmap

 fabbrica
intelligente

From the Roadmap... To the Working groups



WHAT'S
NEXT?

R-0456-D1016-CI-E


Ministero dell'Istruzione,
Università e Ricerca

 Il Cluster Fabbrica Intelligente (CFI)
è parte del sistema italiano dei
Cluster Tecnologici Nazionali

***Thank you for your
attention!***