



UNINA-DIAS

*Policy Forum of INKINET Project  
Palazzo Vidoni - Roma  
September , 19-20 2007*



# *Aerospace Research Networking Experiences In Campania Region*

*Prof. Ing. Leonardo Lecce  
Department of Aerospace Engineering (DIAS)  
University of Napoli "Federico II"*





UNINA-DIAS

## CAMPANIA AEROSPACE RESEARCH NETWORK



In 2001 with the personal involvement of Prof. L. Nicolais, Campania Region Minister for Research and University , now Minister for Innovation in Italian Government, the idea to organize sinergically the research resources available in the Campania region in order to face present and future challenges in the aerospace fields, was started.

After two years of preparation work, the CAMPANIA AEROSPACE RESEARCH NETWORK (CARN) was established ed many activities and project were carried-out.

### Main Objectives

- 4 Virtual network joins intellectual, scientific and business resources for the coordination of the Regional Research Plan.
- 4 Directly involves enterprises in the planning and implementation process and fosters the establishment of knowledge-based companies
- 4 Integrates pre-competitive research activities focusing on development, and provide high quality training activities in conjunction with other training institutions.





UNINA-DIAS

# CAMPANIA AEROSPACE RESEARCH NETWORK



## Main Results of the CARN activities

### Educational and Training Projects

1. Master in “Aerospace R&D Project Coordination”: 24 Graduation;
2. Master in “System Engineering” with the financial support of Boeing and UMR & UNINA collaboration in the teaching activities (12 Students of CARN partners and AMI – on going)
3. Exchange students program with the Quebec Aerospace Research Consortium (CRIAQ)

**Strong support and collaboration with other Networking Regional Initiatives**

**IMAST**  
Technological District on  
Polymeric and Composite Materials  
Engineering and Structures



### Large National and International Research Projects

#### ARCA

Coordinator: IMAST  
Almost All CARN partners  
Project Budget: 7 Million €  
On going



Coordinators: Alenia & Boeing  
Almost All CARN partners +  
Toray from Japan  
Project Budget: 20 Million €  
On going

### New CARN and its enlargement





UNINA-DIAS

## FUTURE LARGE "EUROPEAN" RESEARCH PROJECTS



### "CLEAN SKY" Aeronautics & Air Transport JTI

Regional Aircraft Platform  
Led by Alenia Aeronautica



The Green Regional Aircraft Platform will substantially contribute to a greener environment reducing emissions and noise with technological solutions specifically tailored to regional aircraft (low weight low noise configurations).

**Starting from CARN experiences and collaboration two Associate Member Consortium have been formed in support of ALENIA: one led by CIRA and the other by UNINA-DIAS (in collaboration with POLI-TO). Estimated budget of the two consortium : 16 million €**







UNINA-DIAS

## EUROPEAN MAGNETOSTRICTIVE RESEARCH NETWORKING



### Unique experience of a very successful European networking



#### Magnetoelastic Energy Systems for Even More Electric Aircraft



A Project funded by the European Community under the Sixth Framework Programme for Research and Technological Development

- è Start date: 2004-01-01 - End date: 2006-12-31
- è Programme: 6th FP SPECIFIC TARGETED RESEARCH PROJECT - EC funding: 5.474.162 €
- è Thematic area: Aeronautics and Space
- è Coordinator: University of Naples, Dept. of Aeronautical Engineering
- è 18 Partners from 8 countries
- è End Users: Alenia Aeronautica S.p.A., EADS CRC Deutschland GmbH, ZF-Luftfahrttech; EUROCOPTER DEUTSCHLAND GmbH, Mecel AB
- è Universities: Univ. of Naples -Dept. of Aeronautical Engineering (I), II Univ. of Naples – Dept. of Information Engineering (I), Univ. of Saarland (D), KTH (S), Chalmers University (S)

©The MESEMA consortium, 2004

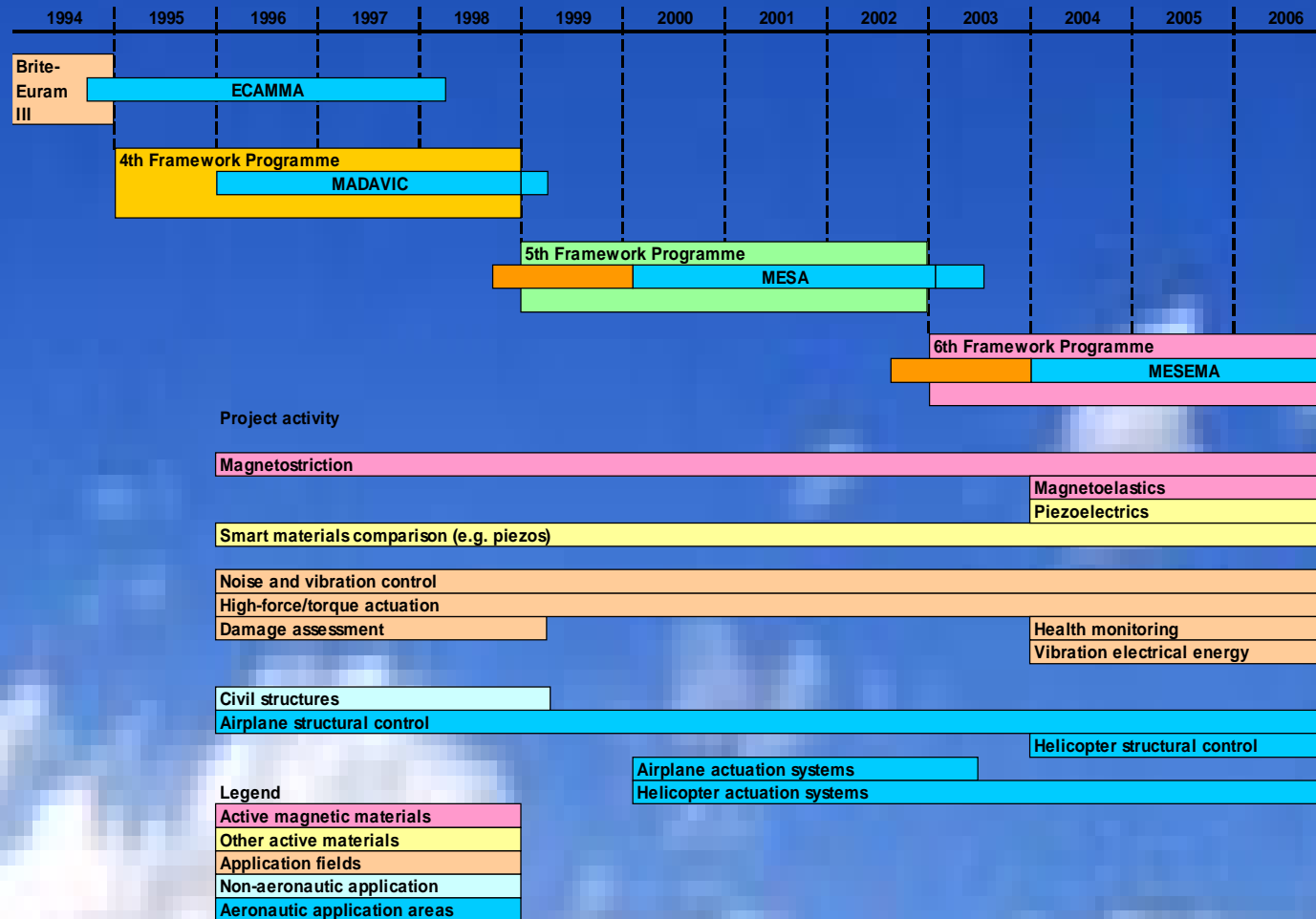


UNINA-DIAS

# EUROPEAN MAGNETOSTRICTIVE RESEARCH NETWORKING



## Unique experience of a very successful European networking





UNINA-DIAS

## EUROPEAN MAGNETOSTRICTIVE RESEARCH NETWORKING



### **Unique experience of a very successful European networking**

Extracted from an e-mail received Sept. 18 – 2007 from a partner of MESEMA project

*“Being part of the MESEMA consortium, carrying out innovative and challenging research work in an international environment, cooperating with partners from all over Europe and getting personal contacts with people from many different countries and learn about their mentality was a pleasure and an important personal experience in my business career which I don't want to miss. My special thanks goes to .....*”

# *Thanks for your attention*

Prof. Ing. Leonardo Lecce  
Department of Aerospace Engineering  
University of Napoli "Federico II"

Via Claudio, 21 – Napoli- Italy

Tel. +39 81 7683327

Fax +39 81 7683622

[leonardo@unina.it](mailto:leonardo@unina.it)