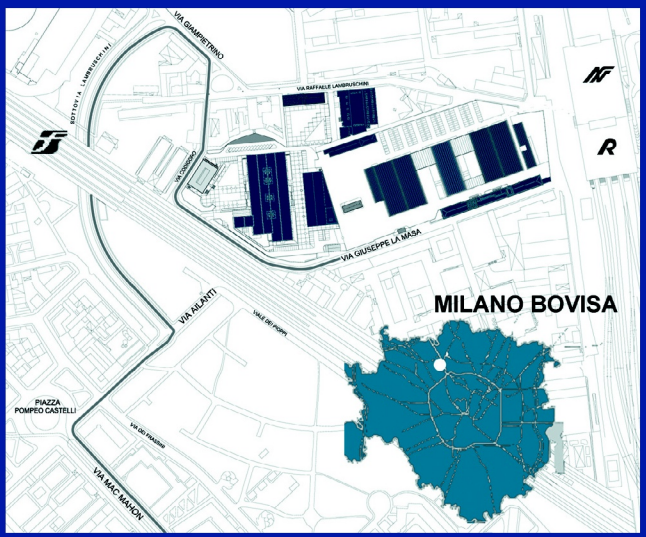
ANTASME

Advanced Modelling Techniques for Aerospace SMEs



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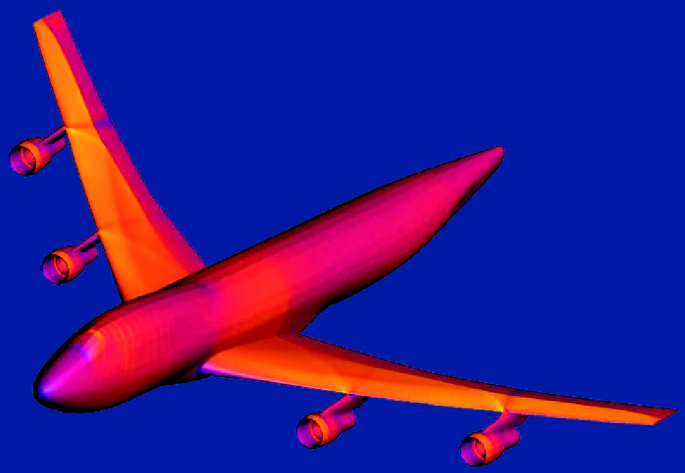

For informations, write to antasme@aero.polimi.it

Antasme subproject website:
http://www.aero.polimi.it/Antasme

Mateo project website:
http://mateoproject.org

Graphic Design: Laura Daizini - 09/Id 2007

ANTASME, a MATEO subproject, aims at transferring a large spectrum of state of the art modelling capabilities to aerospace SMEs, to enhance their knowledge of the tools needed to support front end technologies and competition. Affected technologies are attitude and orbit control, aero (servo) elasticity and adaptive control, thermal control, multidisciplinary optimization, real time simulation, space borne payloads, large space telescopes, small satellites in LEO and GEO and aircraft structures.

The project is carried out in collaboration with partners in Italy (Politecnico di Milano, Università di Bergamo, Carlo Gavazzi Space and A.D.S. International), the Netherlands (Technische Universiteit Eindhoven) and Spain (Centre Internacional de Métodes Numérics en Enginyeria, COMPASS Ingeniería y Sistemas and QUANTECH ATZ).

The research will focus on a varied set of aerospace problems using a wide range of existing modelling tools.
Adapting existing, however advanced, technology to SMEs needs will allow then to bridge the gap between research in academia and industrial applications, thus effectively increasing the competitivity of the participating SMEs.

During May the 21st ANTASME meeting in Milan, it will be possible to share,with all the possibly interested parties, the knowledge and know-how gained during the project.

Technical presentations will be focused on the following ANTASME workpackages:

- Automatic differentiation techniques
- Innovative finite element methods for unsteady aeroelastic analysis
- Advanced evolutionary algorithms for transonic drag reduction and high lift of 3D configuration using unstructured FEM
- Simulation of massively controlled space telescopes
- Object-oriented modelling of mechatronic electrohydraulic systems
- Object-oriented modelling of spacecraft dynamics
- SINDA/FLUINT simulation of the LHP prototype
- Lumped and distributed analysis of the a by-pass valvee

Attendance is free, but you are required to register in advance.

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MATEO is an Interreg IIIc Project.

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INTERREG IIIC

PROJECT PART-FINANCED BY THE EUROPEAN UNION

MATEO

May 21st 2007, h. 10.00
Sala Riunioni, Galleria del Vento
Dipartimento di Ingegneria Aerospaziale
Politecnico di Milano - Bovisa
Via La Masa, 34 - 20158 Milano