AGREGATION

## Contrôle commande sûr pour les moyens d'essais

ON GOING PROJECT

The chain of aerospace subcontracting is reorganized around the the major actors who take the responsibility to provide systems incorporating multiple subcontractors to aircraft manufacturers. One such organization is conceived in a fashion design based on a complete model of aircraft components. If the major manufacturers have fully integrated the benefits to be derived from the model-based approach, the chain of subcontracting progressing too slowly in that direction. For several reasons: lack of financial resources, lack of trained staff, work habits, leaving the R & D at the client. The project AGREGATION positions on this issue to provide tools to demonstrate the good fit between the products developed and modeling.

TECHNOLOGICAL OR SCIENTIFIC INNOVATIONS

The technological innovations are focused on three main subjects:

◗ Parallelization of control command over a distributed heterogeneous architecture of computers connected by a deterministic synchronous network.

◗ Coordination between a numerical modeling of phenomena and analog controls.

◗ Integration of multiphysical models in mechatronic problems.

The project is link to open source software.
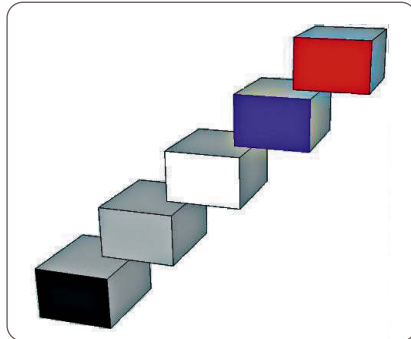
STATUS - MAIN PROJECT OUTCOMES

◗ The main project outcome is the PFCC (PlatForm for Control Command), which is integrated in the product line COBRA.

◗ The COBRA product line allows to the aero suppliers to test the full compliance between specification and final product.

CONTACT

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PROJECT DATA

Coordinator:
SDI

Co-label:
ASTECH

Call:
FUI 10

Start date:
February 2011

Duration:
30 months

Global budget (M€):
1.9

Funding (M€):
0.9

Related Sytematic project(s):
LAMBDA