

FAMOUS

Future **A**dvanced **M**anufacturing **O**ver **U**biquitous **S**ystem

- Call : NMP-2007-4.3.1-1, « *Beyond lean manufacturing –new industrial models for product and process life cycle* »
- Funding scheme: Large Scale Integrating projects
- Budget : ~ 12 millions EUR
- Participants : 20 EU, 10 other regions
- Duration : 3-4 years (2008-2011)

Contact point: Van Khai Nguyen (Ing. EPFL)
Vknguyen@cadcamation.ch
Tel : 004179 2053041

Presentation by patrick.marchand@cetim.fr

Needs & Challenges for european manufacturing competitiveness

- **Large company** to meet **globalisation** (*horizontal*)
 - « **Global Best** » brand-name for highest levels of quality and performance
 - **OEM integrator** capable to **CTO** (configure-to-order) according to customer requirements.
 - **Adaptive & Interoperable SCM** (supply chain model).
- **SMEs** to meet **customisation** (*vertical*)
 - « **Local best** »: **customer-centric, Innovative & Flexible** supplier, capable to **BTO** (build-to-order)
 - **Coop-petition** (with/against emerging countries)
 - Enabling **knowledge & ICT** integration

FAMOUS Project Rationale & Philosophy

A successfully innovating and competitive European manufacturing industry must be

digital, knowledge-based, adaptive, networked

In compliance with the future manufacturing paradigm

« Design anywhere, Build anywhere, Support anywhere »

enabled by

Ubiquitous Networks

The two expected issues...

- **Standardized & full representation**
 - towards a ubiquitous manufacturing database.

- **STEP-NC
feature-based
machining
system
towards a
smart
machining
workcell**

Expressed interests

- **Industries (including SMEs & software dev):**
Airbus, Volvo, Daimler Chrysler, MCM, FIDIA, OSAI, TTS, CADCAMation, Cybelec, Missler, LSC group, ACSE spa, ...
- **Research and universities :**
EPFL, EIG, ENS-Cachan, Bath university, EC-Nantes, Politechnico-Milano, SUPSI, WZL, KTH, CETIM, VTT, ...
- **Expected partners:**
Large CADCAM and CNC suppliers, SME's
- **Expected International partners (IMS regions & China)**
 - Korea : Postech, automotive builder,...
 - Japan : Manufacturing Engineering Research
 - USA : BOEING, Step-tools
 - China : CNIS