MUSIC

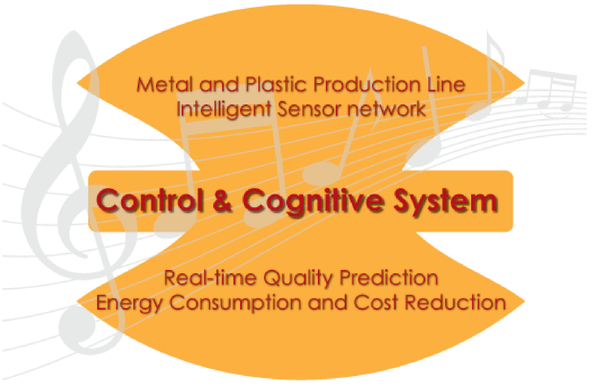
MUlti-layers control&cognitive **S**ystem to drive metal and plastic production line for **I**njected **C**omponents

Proposal n.314145 – Collaborative IP Prj – Call ID: FOF-ICT-2011.7.1

CONCEPT:

High Pressure Die Casting (HPDC) of light alloys and **Plastic Injection Moulding** (PIM) are two of the most representative large-scale production-line in manufacturing field, which are strategic for the EU-industry largely dominated by SMEs.

Due to the high number of process variables involved and to the non-synchronisation of the process control units, HPDC and PIM are most "defect-generating" and "energy-consumption" processes in EU industry showing less flexibility to any changes in products and in process evolution. In both, sustainability issue imposes that machines/systems are able to efficiently and ecologically support the production with higher quality, faster delivery times, and shorter times between successive generations of products.



MUSIC : A collaborative Project on HPDC/PIM manufacturing and six main challenges to be faced

CHALLENGES:

The main challenges of the MUSIC Project are:

1. Leading HPDC/PIM to a "zero defect environment"
2. Introducing real-time tools for process control
3. Monitoring and correlating all the main process variables
4. Making the process set up and cost optimization a knowledge-based issue
5. Involving to multi-disciplinary R&D activities
6. Impacting on EU HPDC foundries, by tailored training, dissemination and standardization activities

CONSORTIUM:

Coordinator:

ENGINSOFT

Partners:

ELECTRONICS

Hochschule Aalen

MAGMA

dtg

ascamm technology centre

IK4 TEKNIKER Research Alliance

FRECH

toolcast

MAIER

Audi

rds moulding technology

MOTUL TECH Baraldi

REGLOPLAS MASTER OF TEMPERATURE CONTROL

Fraunhofer IFAM

ASSOMET Associazione Nazionale Industrie Metalli non Ferrosi

Co-funded by:

COOPERATION

PROJECT DETAILS:

Coordinator:	EnginSoft
Starting date:	1st Sept 2012
Duration:	48 months
Total costs:	9.302.073,00 €
EC funding:	6.135.000,00 €

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