



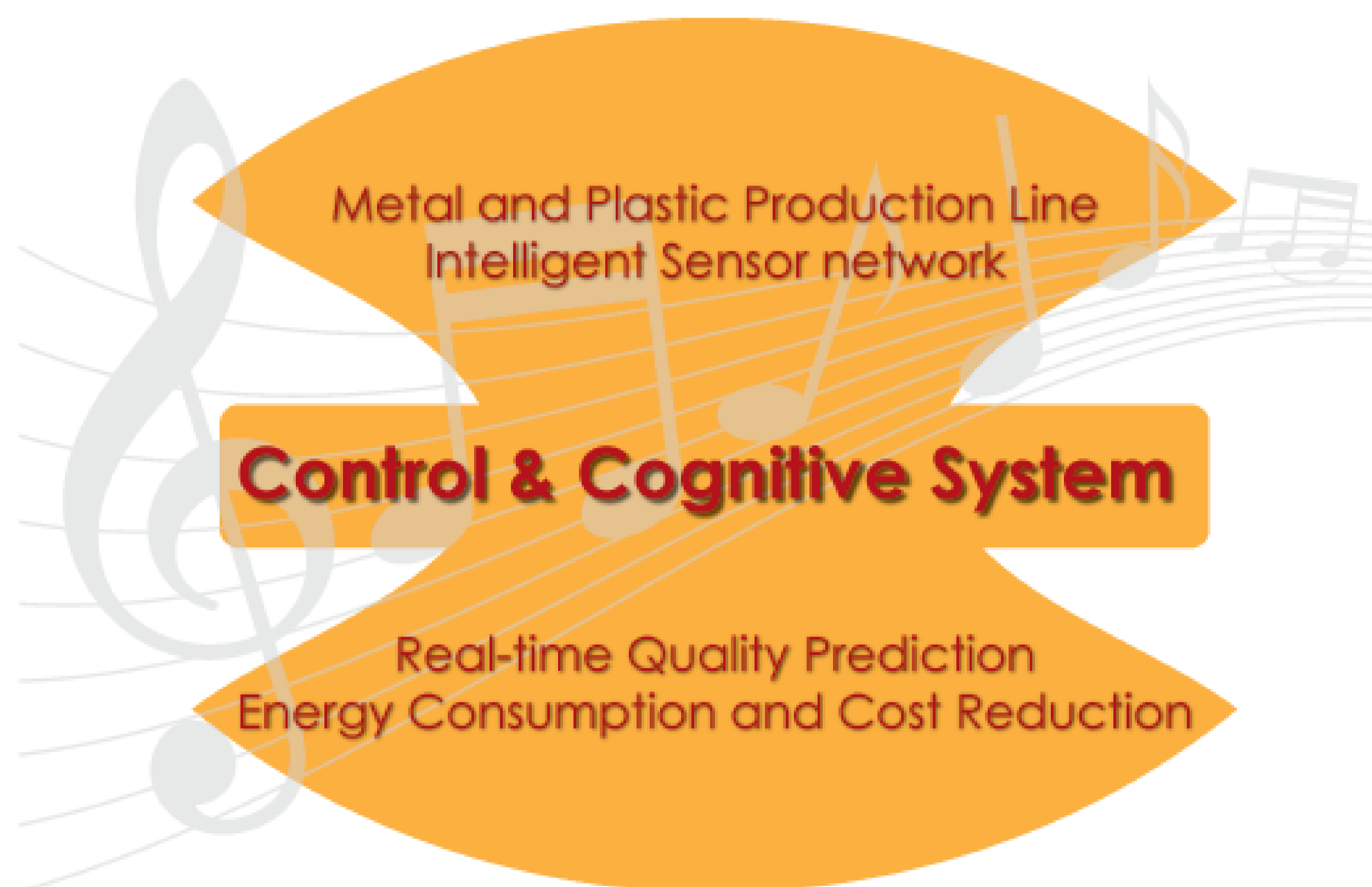
MULTI-layers control & cognitive System to drive metal and plastic production line for Injected Components

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

PROJECT DETAILS:

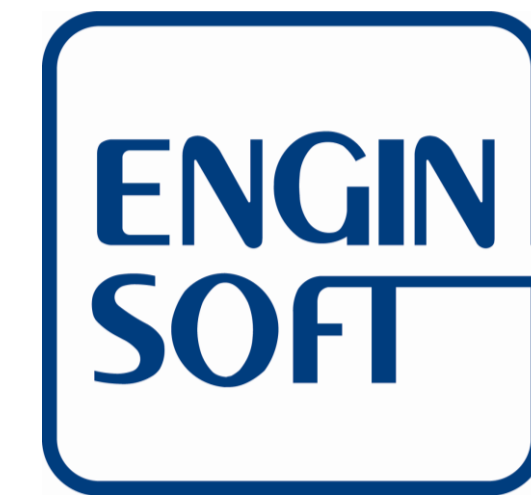
Coordinator: EnginSoft
Starting date: 1st Sept 2012
Duration: 48 months
Total costs: 9.302.073,00 €
EC funding: 6.135.000,00 €

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