



CLUSTRAT

BOOSTING INNOVATION THROUGH NEW
CLUSTER CONCEPTS IN SUPPORT OF
EMERGING ISSUES AND CROSS-SECTORAL
THEMES



Outline:

- Cross clustering network of mechatronic, ICT and security modules for development the human-machine systems



Human Machine Interface (HMI)

- **Project group:**
 - Manuel Brunner – Mechatronic Cluster (project group)
 - Christoph Reiß-Schmidt – Clusterland Upper Austria (project group)
 - Ulrich Bobe – TÜV Rheinland Academy (project Group)
 - Michael Pal – ICM Saxony (mechanical engineering) (project group)
 - Vladimir Benc – Cluster AT+R (project group)
 - Vladimir Cop – Cluster AT+R (project group)
 - Frantisek Durovsky – Cluster AT+R (project group)
- **Project Partners:**
 - Helmut Nöhmayer – Profactor (interdisciplinary production technology development) (external expert)
 - Gerhard Michlbauer – WIFI Linz (external expert)
 - Hubert Gattringer – University of Linz (external expert)
 - Burkhard Stadlmann – University of Applied Sciences (external expert)
 - Franz Auinger – University of Applied Sciences (external expert)
 - Peter Blaimschein – University of Applied Sciences (external expert)



Human Machine Interface (HMI)

- **Overall Objective:**

- Is to set up a transnational training program for knowledge exchange between experts in a specific field (train the trainers)
- This objective was chosen due to the fact that the field of **HMI, Robotics** and **Mechatronics** is fast growing and rise experts with core competences in specific fields but they are scattered around Europe.
- We want to achieve the set up of an “course book” which enables experts, to find their counterpart in an specific field for knowledge exchange and training. The training should offer the space for subject-specific discussions and input in an appropriate manner.



Human Machine Interface (HMI)

- **The way so far:**

- **1st Workshop – Start and get together:**

- Presentation of the organization of the project partners. Visit at the site of potential partners who can support know how in the mentioned trainings. The aim was to become acquainted to each other and getting an overview of the different point of views from the project partners. **We visited: WIFI Linz (adult education institution) especially the robotics laboratory, University of Linz - Faculty of robotics and automation and Profactor (private research company) there the automation division.** Within an intensive **workshop** we connected the needs and requests with the existing possibilities. We were able to finalize a road map and set up a time line with activities to build up the mentioned trainings.



Human Machine Interface (HMI)

- The way so far:

- 2nd Workshop – Start and get together:

- We decided to split the topics into two divisions named “NC-MEC” and “ROBOTIC-MEC”. This separation was necessary due to the broad field of mechatronics and the potential upcoming volume. **NC-MEC** is the core competence of Saxony (Topic: **SINUMERIC and SIMATIC programming for NC-machines and Advanced manufacturing with NC-machines**) especially of TÜV Rheinland and **ROBOTIC-MEC** the Core Competence of Upper Austria especially **Clusterland (KUKA-Robot control, simulation program for automation technology)**. We choose two topics for each division for test purpose and specified the content, the goal and the target group for a training course. We achieved our aim to set up a training and will test it in a preliminary model in the end of June.

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- **Next steps:**

- **Activity 1 – Preliminary test and evaluation:**

- Test workshop in Linz (end of June 2014) with Slovakian and Austrian experts for knowledge exchange (high level robot programming). After the training , we evaluate the design and adapt it.

- **Activity 2 – roll out for other topics:**

- Invite other experts to participate and enlarge the „course book“.



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- **Next steps:**
 - **Activity 3 – Joint EU Project: “European Initiative on the dissemination, exploitation and technology Assessment of mechatronics related Factories of the Future (FoF) PPP Project results”**
 - disseminate state-of-the-art research results of FoF PPP projects through a widespread European cooperation of clusters (incl. mapping of EU-28 capabilities (manufacturing, robotics, IT, production processes))
 - Integrating the identified actors and needs into the „course book“ (see Activity 2)



Catch the ball and raise your questions!



Contact & Information

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