



NUCLEI FINAL NEWSLETTER

Report on Past Events

THE FINAL CONFERENCE

The Final Conference for NUCLEI was held in Wels, Austria at the University of Applied Science on the 23rd of May 2019. The event was held in parallel with the Research and Education in Mechatronics (REM) 2019 Conference, and more than 70 experts from the mechatronic field were in attendance. During the event, attendees listened to presentations by NUCLEI project coordinator Andrea Ceci (CRIT) and other consortium members, which reported on the main results of the project. Mr. Ceci remarked, *“I am very happy because I really believe in the aim of the project all of the partners are competitive and are working in their region. It’s very important to have a large companies, but most of all SMEs to go beyond the region, and to have transnational collaboration competitiveness is not local, but it’s global.”*

The final conference also featured a video message from Annalisa Tessarolo of the [European Commission DG GROW](#), which spoke about the importance of the European Cluster Strategy for Growth, and commended the NUCLEI project on its successes in reaching these objectives. In Part 2 of the Final Conference, other speakers contributed input from their respective domains of Security, Robotics, Modelling & Simulation, and Distributed Control Architecture. Building on the work that has been accomplished. Moreover, Elmar Paireder, consortium member and representative from [BIZ-UP](#), was instrumental in organising the final event in Wels. Reflecting on the impact of the NUCLEI project, he stated, *“The project was important for us as a mechatronics cluster because we were able to focus on relevant and future topics, especially for SMEs. We were able to*

offer really beneficial input for our partner companies. On the same hand, we were able to build up an international network with other partners, and clusters and institutions with innovation management. I’m looking forward to setting up new col-



© NUCLEI: Consortium at Final Conference 2019 Wels



© NUCLEI: Final Conference Participants

© NUCLEI: Andrea Ceci (CRIT)

laborative projects, because I think collaboration is very important for clusters and for companies. And we as a cluster can be a kind of facilitator and multiplier for SMEs to bring science and business together.”

All public project results can be found on the [NUCLEI website](#).

The 4th Open Seminar on Machine Measurement

The 4th Open Seminar took place at the Faculty of Mechanical Engineering in Prague on the 25th





© NUCLEI: Welcome & Introduction by Christian Altmann

NUCLEI PROJECT HANDBOOK

Table of contents	
1	Introduction to the NUCLEI project
	Short Description of the project
2	The innovation management in Central Europe - challenges ahead
	The starting point
	Competences needed in a global context
	Key Success Factor for "Technology Transfer"
3	A generic model of business services for innovation and tech transfer in Central Europe
	Technology transfer services
	Business Model Canvas
	Business Model Canvas
	Business Model Canvas
	Figure 1 - Innovation Management
	Figure 2 - Design methodologies and approaches
	Figure 3 - Tech-Technologies and solutions
	APP Performance Goals
	Open Innovation Model
4	Case studies to illustrate the need of standardisation and cooperation of central Europe industries
	Strategies for standardisation
	Description of the 3 case studies
	Case Study 1 - Environmental sustainability
	Case Study 2 - IoT
	Case Study 3 - Cyber security
5	Activities developed by the NUCLEI approach across Central Europe
	A policy framework to support technology transfer
	Techniques for a systematic search of knowledge
6	Index



April 2019. It was organised by [RCMT](#) within the NUCLEI project. It was said: high level and professional seminar, interesting and valuable topics, beneficial by specific examples.

More than 70 participants from manufacturers and users of machine tools took part in a seminar focused on the issue of in-process measurement in relation to machine tool and machining. TOS Varnsdorf together with [RCMT](#) presented the possibility of using a heavy horizontal boring machine as a coordinate measuring machine. John Kerry - [Renishaw UK](#) - presented Renishaw's software system offerings and software to improve the quality of the manufacturing process, respectively, the final workpiece.

Upcoming Events

NUCLEI Makeathon. Make, create, have fun!

On 21.06.2019, NUCLEI organises its first [SMART MAKEATHON](#) in collaboration with [ITQ GmbH](#) in Erlangen, Germany. Therefore, we'd like to invite you to participate in this special event focused on Smart Mobility, Smart Farming, IoT and Connected Systems. Make, simulate and create new ideas regarding this special topics in about 9 hours. Compete in interdisciplinary teams against each other - with each other! The event addresses developers, engineers, start-ups, students, schools and individual participants are welcome to create and make with us. Be ready for this innovative challenge and join our [SMART MAKEATHON!](#)

Download the flyer [here](#)

NUCLEI handbook – online!

This month the NUCLEI consortium lunched the project [handbook](#). Within the [handbook](#) you will find out how the NUCLEI project brought to a transnational level activities and ideas that were only implemented at local level before. The 10 partners involved in the project all have similar background and activities. They all have connections with large, medium and small enterprises and offer to them services to support their innovation process. Furthermore, you will find out how each partner contributed with his best practices and transfer them to the others. By reading through the [handbook](#) you will also understand how cross-borders collaboration can be work and how stakeholders from different countries can be involved and acquired on an international scale. All together this project demonstrated that it is possible to create a super-network of local EU clusters generating new opportunities for all the enterprises connected to that network.

Technology Digital Periscope

As a main result of the NUCLEI project the [Technology Digital Periscope](#) (TDP) is a tool to support and speed-up the access to the existing state-of-the-art R&D results and products by their systematisation and exportability. Results included in the Periscope are from the field of advanced manufacturing and processing industry. Results cover highly important KET (Key Enable Technologies) such as Robots, production processes, ICT, Electronics and Modelling & Visualisation.

