

Robot designers and smart factory developers at the Industry 4.0 workshop in Budapest

Jointly organised by the National Research, Development and Innovation Office with DG for Regional and Urban Policy and DG for Research and Innovation of the Commission, a two-day conference and workshop started on 20 September in Budapest to promote cooperation, consortium building and matchmaking in Industry 4.0 type projects between SMEs, industrial companies and research centres from the Visegrád countries.

The event titled Central European Cooperation for Industry 4.0 attracted participants from 14 countries and covered various intriguing topics from human-robot cooperation to the data management and process planning of smart factories.

The Budapest muster of development projects resulting in innovative industrial production methods through the increased convergence of information technology and industrial automation was aimed at encouraging participation and increasing the success rate in international funding programmes.

Domestic businesses and research centres can only stay competitive if they can strengthen their regional and global relationships in the area of industrial production systems and technologies relating to high-added value industrial production – **József Pálincás**, President of the NRD Office stressed in the opening ceremony of the event.

Keynote speakers of the conference included **István Lepsényi**, State Secretary for Economic Development and Regulation of the Ministry for National Economy, and **Vittoria Alliata di Villafranca**, Head of the Directorate-General for Regional and Urban Policy of the European Commission responsible for structural funds.



The President of the NRD Office drew attention to the fact that in 2017–18, during the Hungarian Presidency of the Visegrád Group, the promotion of joint projects and consortia of businesses and research centres from V4 countries are one of the most important priorities, and Hungary wishes to move in this direction in the area of industry 4.0 as well. József Pálincás added: the Budapest event is a networking platform aimed at contributing to the successful participation of businesses and research centres from the countries of the region in international funding programmes. This ambition of the NRD Office was confirmed by a report published this summer on Horizon 2020, the innovation framework programme of the European Commission, which stated that only 8.5% of participants in funded projects come from EU13 countries, winning only 4.4% of the total available budget.

At the event John Cleuren, senior expert responsible for production technology programmes at DG Research & Innovation delivers a speech on future H2020 calls for the 2018–2020 period **expected to be announced in autumn 2017 with a planned total budget of EUR 1.6 billion.**

The consortium-building event is attended by around 100 organisations, showing an equal distribution between innovative businesses and research institutions, which are planning new projects in the fields of smart production systems, smart quality assurance systems, virtual reality based simulation technologies, cyber security and cloud services. In addition to raising awareness to funding and networking opportunities, the event is also a place for Central European businesses and research institutions to present specific project ideas and build consortia.



József Pálincás, president of the National Research, Development and Innovation Office



Monika Schönerkle-Grasser, Head of Evaluation and Monitoring Unit, Interreg Central Europe Joint Secretariat



Industry 4.0 workshop



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Vittoria Alliata di Villafranca, Head of the Directorate-General for Regional and Urban Policy of the European Commission responsible for structural funds

PROGRAMME OF THE EVENT

20 September 2017, Wednesday

- 9:30-10:00 Registration
- 10:00-10:30 Official opening of the event: **Prof. József Pálinkás**, president of National Research, Development and Innovation Office (NRDI Office)
Addressing the event: **István Lepsényi**, state secretary, Ministry for National Economy
Smart specialization cooperation in Central Europe initiative, **Vittoria Alliata di Villafranca**, Director, EU Commission; Directorate General for Regional and Urban Policy (DG REGIO)
- 10:30-10:50 [INTERREG CENTRAL EUROPE third call for proposals: Thematic focus on regional smart specialisation strategies](#) PDF (612 KB)
Monika Schönerklee-Grasser, Head of Evaluation and Monitoring Unit, Interreg Central Europe Joint Secretariat

10:50-
12:30 **Presentation of relevant funding opportunities of Horizon 2020 and other funding programmes**

[Horizon 2020, "Nanotechnologies, Advanced materials, Advanced manufacturing and processing, and Biotechnology" programme in 2018-2020](#) PDF (1 253 KB)

John Cleuren, European Commission, DG Research & Innovation, Senior Expert, NMBP Call Coordinator

Presentation of other funding programmes (H2020 ICT, EUREKA, EUROSTARS, ECSEL)

NRDI Office speakers

- [Information and Communication Technologies Horizon 2020](#) PDF (3 471 KB)
Edina Németh, ICT, FET, Horizon 2020 Programme Committee Member (PC) National Contact Point (NCP)
- [ECSEL](#) PDF (564 KB)
Ágnes Divinyi, National Research, Development and Innovation Office (NRDI Office)
- [EUREKA & EUROSTARS - Helping SMEs to innovate across borders](#) PDF (924 KB)
Gergely Mészáros, EUREKA/EUROSTARS National Project Coordinator (NPC), National Research, Development and Innovation Office (NRDI Office)

Q & A

12:30-
13:30 Buffet Lunch

13:30-
18:50 **Industry 4.0 – in practice:**

Keynote panel on future trends, thematic sessions with industry representatives and introduction of project ideas in advanced manufacturing

13:30-
15:30 **Future trends of Industry 4.0 - Panel discussion with keynote speakers**

Moderator: Prof. László Monostori

[Introduction – Industry 4.0: New rooms for cooperation](#) PDF (1 651 KB)

Prof. László Monostori, , director of Institute for Computer Science and Control, Hungarian Academy of Sciences; & Budapest University of Technology and Economics

[Strategies for reindustrialization of European industries](#) PDF (693 KB)

Prof. em. Engelbert Westkämper, University of Stuttgart & Fraunhofer Institute for Manufacturing Engineering and Automation IPA

[Industry 4.0: An industrial view](#) PDF (3 154 KB)

Mr. Joerg Bauer, President of General Electric Hungary

[Demanufacturing and Remanufacturing Systems for Circular Economy](#) PDF (5 388 KB)

Prof. Tullio Tolio: director of Institute for Industrial Technologies and Automation –National Research Council of Italy (ITIA–CNR) & University of Polytechnic, Milano

[Human centred cyber-physical assembly](#) PDF (930 KB)

Prof. Sebastian Schlund, Technical University, Wien;

[Cognitive Assistance Systems in Manufacturing](#) PDF (1 700 KB)

Mr. Lukas Merkel, Fraunhofer Research Institution for Casting, Composite and Processing Technology – IGCV

15:30-
15:50 Coffee break

15:50-
17:30 **Thematic sessions** (in two separate rooms)

1. Human-robot cooperation - from sensors to standards

moderator: **József Váncza**, Institute for Computer Science and Control, Hungarian Academy of Sciences (SZTAKI)

- [Hepenix Kft.](#) PDF (2 892 KB) – **József Tóth**, director
- [KUKA Robotics Hungary Kft.](#) PDF (1 643 KB) – **Gábor Perity**, sales manager
- [OptoForce Kft.](#) PDF (639 KB) – **Ákos Dömötör**, managing director
- [PROFACTOR GmbH](#) PDF (5 396 KB) – **Christian Wögerer**, Msc
- [SZTAKI](#) PDF (1 521 KB) – **Gábor Erdős**, senior research associate

Panel discussion, including Q & A

2. **Smart Factory**: processing of production data, maintenance forecasting, manufacturing platforms, industrial internet, cyber-physical systems, High-Performance Manufacturing

Moderator: Prof. **Charaf Hassan**, Budapest University of Technology and Economics

Participants:

- [Bosch Rexroth Kft.](#) PDF (1 062 KB) – **Dániel Prekel**, head of system engineering
- [Ericsson Hungary Kft.](#) PDF (806 KB) – **Vilmos Beskid**, head of R&D
- [Innomine Kft.](#) PDF (1 334 KB) – **Gábor Vicze**, CEO
- [IBM Commercial S&D Segment](#) PDF (959 KB) – **Alexander Habinski**, leader CEE
- [IFKA](#) PDF (382 KB) – **Krisztina Bárdos**, director
- [OpenLimit AG](#) PDF (566 KB) – **Maik Pogoda**, CEO
- [SAP Hungary Kft.](#) PDF (7 975KB) – **Johannes Tulusan**, Head of IoT & Digital Supply Chain
- [Siemens Zrt.](#) PDF (2 032 KB), Digital Factory – **Tamás Jeránek**, head of division

Panel discussion, including Q & A

17:30-
18:50

Presentation of project ideas by the participants (3 minutes / presentation)

- [Bayern Innovativ: Cluster-Work-Group](#) PDF (640 KB) – **Borris Haupt**
- [Opolskie Centre for Economy Development](#) PDF (400 KB) – **Marcin Staniszewski**
- [Virconsol: Trusted ways](#) PDF (336 KB) – **Tamás Damján**
- [Seacon Europe: I4Log Industrial Module](#) PDF (1 603 KB) – **Zsolt Viniczay**
- [Régens: Coded for your success](#) PDF (570 KB) – **Andrea Kajzinger Szarka**
- [Kaposvár University: In vitro Production of Roseroot](#) PDF (867 KB) – **Iman Mirmazloun**
- [Sapientia: COST action proposal](#) PDF (979 KB) – **László Bakó**
- [Novitech: I3D - VR/AR for industrial use](#) PDF (580 KB) – **Dominik Demeter**
- [Bay Zoltan Ltd.: Industry 4.0 Oriented Modeling](#) PDF (310 KB) – **Richárd Ladányi**
- [NearSoft: Manufacturing Operations Management](#) PDF (1 806 KB) – **Vladimir Filipov**
- [evosoft: Industry 4.0 demonstrator](#) PDF (865 KB) – **Tobias Manger**
- [OpenLimit: Secure Communication Gateway](#) PDF 350 KB) – **Maik Pogoda**
- [SZTAKI: HUROCCA](#) PDF (358 KB) – **Csaba Kardos**
- [SZTAKI: Smart DaViDiM](#) PDF (590 KB) – **Gianfranco Pedone**
- [Technical University of Kosice: Project ideas](#) PDF (703 KB) – **Peter Papcun**
- [TECOS Slovenian Tool and Die Development Centre](#) PDF (1 913 KB) – **Aleš Hancič**

18:50- **Watify Campaign** and opportunities for collaboration and partnerships development – Eleonora Zoboli, Watify,
19:00 Technopolis Group

- [Watify](#) PDF (737 KB) – **Eleonora Zoboli**

19:00-
22:00 Networking Buffet Dinner

21 September 2017, Thursday

- 8:30-9:00 Arrival
- 9:00-9:15 **Wrap up from day one** - Brief summary of main conclusions from the Industry 4.0 project generating workshop
Jack Engwegen – senior advisor DG REGIO, Pierre Padilla – IDEA Consult
- 9:15-10:15 **Presentation of platforms** – examples of existing cooperation; Panel discussion
Moderator: **Vincent Duchene** – IDEA consult

- [European Institute of Innovation & Technology \(EIT\) & EIT Digital Knowledge and Innovation Community \(KIC\)](#) PDF (18 438 KB) – **Zoltán Horváth**, director of EIT Digital KIC & Dean of the Faculty of Informatics at the University ELTE
- [Thematic Smart Specialisation Platform for Industrial Modernisation \(TSSP– IM\)](#) PDF (659 KB) - **Pierre Padilla**, IDEA Consult
- [Hungarian Industry 4.0 platform](#) PDF (1 509 KB) – **József Váncza**, Head of the Research Laboratory on Engineering and Management Intelligence; Institute for Computer Science and Control, Hungarian Academy of Sciences (SZTAKI)
- [European Technology Platform ManuFuture](#) PDF (1 102 KB) – **Géza Haidegger**, Institute for Computer Science and Control, Hungarian Academy of Sciences (SZTAKI)
- [EUREKA SMART Cluster, advanced manufacturing programme](#) PDF (1 854 KB) – **Joseba Bilbatua**, senior coordinator

10:15-10:35 Coffee break

10:35-10:50 **Introduction to Industry 4.0 matchmaking session** – **Eleonora Zoboli**, Watify, Technopolis Group
Presentation of the Watify campaign and practical information on upcoming sessions, setting the scene for the multilateral working group meetings.

10:50-11:50 **Multilateral Working group meetings** driven by Watify

Group 1: **Human-robot cooperation** from sensors to standards

Moderator: **Dr József Váncza**, Institute for Computer Science and Control, Hungarian Academy of Sciences (SZTAKI);

Group 2: Smart Factory: processing of production data, maintenance forecasting, manufacturing platforms, industrial internet, cyber-physical systems, High-Performance Manufacturing

Moderator: **Eleonora Zoboli**, Watify, Technopolis Group

11:50-13:00 **Matchmaking session** driven by Watify – **Eleonora Zoboli**, Watify, Technopolis Group
Pre-arranged exploratory one-to-one meetings – based on a personalised agenda (max 30 min / meeting) with participants from Austria, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Italy, Poland, Slovakia, Slovenia, Spain.

13:00-14:00 Buffet Lunch