

AVIATION

HEALTHCARE

MOBILITY

# NEXTGEN TRAINING TECHNOLOGIES

KNOWLEDGE  
MANAGEMENT

DATA DRIVEN COMPETENCE-BASED  
TRAINING & ASSESSMENT

AIR TRAFFIC  
CONTROL

INDUSTRIAL  
PRODUCTION

INVITATION TO PARTICIPATE  
Hybrid Industrial Conference - 13.06. / 14.06. - Vienna

# NEXTGEN TRAINING TECHNOLOGIES

DATA DRIVEN COMPETENCE-BASED TRAINING & ASSESSMENT

„We need to prepare students for jobs that have not yet been created, for technologies that have not yet been invented, to solve problems that have not yet been anticipated.“ (OECD, 2020)

The on-going digital revolution is bringing substantial changes to education and work environments, tasks and human labour. It will be the challenge of the future's education to prepare its citizens for jobs that do not exist yet. Human workers will be more involved in tasks, which require competencies associated with human factors such as communication, decision-making, teamwork, whereas jobs characterized by repetitive tasks will likely be automated. Current trends indicate that human work will not become obsolete, but its nature is going to change.

These changes require a **paradigm shift in education and training**. While traditional teaching practices have been designed a reliable execution of routine tasks, the new requirements will be the development of knowledge transfer, creativity and out-of-the-box thinking. **Competency-based Training and Assessment (CBTA)** principles represent such a paradigm shift that might help to transform routine learning and help creating "Adaptive Experts".

**NextGen Training Technologies** - In order to support this process to create the workforce of the future, DIO and RSAFG are hosting the event "NextGen Training Technologies: DataDriven Competence-Based Training & Assessment". This event connects technology providers, industrial stakeholders, research and users and to drive forward individualized, adaptive and future-oriented solutions such as **(i) competence-based training & assessment**, **(ii) e-learning** and **(iii) microlearning**, to boost education and training in pioneering companies.

## INDUSTRIAL CONFERENCE EVENT

2-day hybrid event on June 13/14, 2022  
Barocke Suiten, MQ Vienna  
Museumsplatz 1, 1070 Vienna

This event will initiate an encompassing network of stakeholders, pioneers and innovation leaders, to shape the future of learning and training processes in Austria and Europe.

# Preliminary Program

## DDCBTA in COCKPIT ENVIRONMENTS

Monday 13.06.2022

Moderation: Sarah Stryeck, PhD, Data Intelligence Offensive

- 13:00 **Opening & Introduction**  
Prof. DDr. Peter A. Bruck, Generalsekretär, Data Intelligence Offensive  
Mag.a Eva Czernohorsky, Wirtschaftsagentur Wien  
Dr. Benedikt Gollan, RSAFG, Pervasive Computing Applications
- 13:30 **The future of training and education didactics**  
Univ.-Prof. Dr. Dr. Christiane Spiel, University Vienna
- 14:20 **The history of CBTA in aviation**  
Dr. Christian Norden, HATCO
- 14:50 **CBTA - Current developments in pilot training**  
Dr. Michael Mayrhofer, RotorSky GmbH
- 15:20 **Airrention - Assistance technologies of the future**  
Dr. Benedikt Gollan, RSAFG, Pervasive Computing Applications
- 15:50 **Industrial impact of CBTA Training**  
tbd
- 16:15 **Neurologic Modeling in the field**  
Dr. Christian Kusmitsch, Mindset Technologies
- 16:45 **Human Factor in behavior and performance analysis**  
Dr. Lucas Noldus, Noldus Information Technology GmbH
- 17:15 **Interactive Format**  
Training environments of the future
- 19:00 **Evening Event - Dinner  
Aware & Cognitive Systems**  
Univ.-Prof. Dr. Alois Ferscha, JKU Linz, Institute of Pervasive Computing

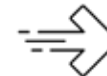
## DISTRIBUTED WORK ENVIRONMENTS & KNOWLEDGE MGMT

Tuesday 14.06.2022

Moderation: Nina Popanton, Data Intelligence Offensive

- 09:00 **Introduction**  
Prof. DDr. Peter A. Bruck, Data Intelligence Offensive
- 09:10 **Digital human rights & self-determination on personal data**  
Teemu Ropponen, General Manager MyData
- 09:40 **Stabilization of performance for training in healthcare**  
Dr. Michael Wagner, MedUni Wien, Simulation Training
- 10:00 **Adaptive Medical Training in VR**  
Julia Kern, MSc, Director Strategic Partnership, SomaReality
- 10:30 **Industrial Assistance Systems - sensor fusion in harsh environments**  
Jaroslava Huber, MSc, Pro2Future
- 10:50 **Glasses in Industrial Applications - The human factor as a driver in digitalization**  
Dr. Haris Isakovic, Project Manager, Viewpointsystems
- 11:10 **Potentials of Remote Team Collaborations**  
Marlene Vukmanic, MA, Head of Events AT, teamazing GmbH
- 13:10 **Training in the real world with Augmented Reality**  
Mikhail Fominykh, NTNU
- 13:50 **Innovations in Learning**  
tbd
- 14:20 **The impact and effect of Social Micro-Learning**  
Dr. Bernhard Göschelberger, RSAFG, Mobile Knowledge Lab
- 15:00 **Interactive Panel - Learning and Knowledge Mgmt of the future**  
tbd

To join the event - live or online,  
please use our event platform for registration:



'NextGen Training Technologies' is a cooperation between the

Data Intelligence Offensive DIO

and

Pervasive Computing Applications  
Research Studios Austria

funded through the Vienna Business Agency

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