AVIATION

HEALTHCARE

MOBILITY

NEXTGEN
TRAINING
TECHNOLOGIES

DATA DRIVEN COMPETENCE-BASED
TRAINING & ASSESSMENT

KNOWLEDGE
MANAGEMENT

AIR TRAFFIC
CONTROL

INDUSTRIAL
PRODUCTION

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 currently on-going industrial revolution is bringing substantial changes to work environments, tasks and human labour. In combination with the increasing digitalization and automation of industrial processes, it will be the challenge of the future's education to prepare workers 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 taken care of by machines and robots. 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 to enable workers to reliably carry out routine tasks, the new requirements towards human factor competencies also require new approaches which support 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 improve routine learning and help generating "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, research and users and, with the help of individualized, adaptive and future-oriented solutions such as (i) competence-based training & assessment, (ii) e-learning and (iii) microlearning, ensures further education and training in pioneering companies.

INDUSTRIAL CONFERENCE EVENT - The Kick-Off for the NEXTGEN TRAINING TECHNOLOGIES initiative will be a
2-day 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

## Monday 13.06.2022
Museumsquartier, Vienna

| 13:00 | Opening & Introduction |
|---|---|
| 13:30 | The future of training and education didactics, |
| | Prof. Spiel, University Vienna |
| 14:20 | CBTA in aviation |
| | Dr. Christian Norden, HATCO |
| 14:50 | CBTA - Current developments in pilot training |
| | Dr. Michael Mayrhofer, RotorSky GmbH |
| 15:20 | Airtention - Assistance technologies of the future |
| | Dr. Benedikt Gollan, RSAFG |
| 15:50 | Industrial impact of CBTA Training |
| | Airbus |
| 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 in the future |
| 19:00 | Evening Event - Dinner + Talk |
| | Prof. Alois Ferscha, JKU Linz |

## Tuesday 14.06.2022
Museumsquartier, Vienna

| 09:00 | Introduction |
|---|---|
| 09:10 | Digital human rights & self-determination on personal data |
| | Teemu Ropponen, MyData |
| 09:40 | Stabilization of performance for training in healthcare |
| | Dr. Michael Wagner |
| 10:00 | Adaptive Medical Training in VR |
| | Adrian Brodesser, SomaReality |
| 10:30 | Industrial Assistance Systems - sensor furion in harsh environments |
| | Dr. Michael Haslgrübler, Pro2Future |
| 10:50 | Robust mobile eyetracking in industrial production |
| | Paul Stanzenberger, teamazing GmbH |
| 13:10 | Knowledge Management |
| | Mikhail Fominykh, NTNU |
| 13:50 | Innovations in Learning |
| | tbd |
| 14:20 | Social Micro-Learning |
| | Dr. Bernhard Göschelberger, RSAFG |
| 15:00 | Interactive Format - Learning and Knowledge Mgmt of the future |
| | tbd |

Audience is limited for live attendance. Please register on the event platform on time. For registration and further information please contact:
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'NextGen Training Technologies' is a cooperation between the

Data Intelligence Offensive DIO

and

Pervasive Computing Applications
Research Studios Austria.

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