



Published by
**Ministry of Culture and Science
of the German State of North Rhine-Westphalia**

Völklinger Straße 49
40221 Düsseldorf
Germany
www.mkw.nrw

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Nuromedia GmbH
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University of Applied Sciences Hochschule Niederrhein
Wilhelm Schröder GmbH

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i-ris

Project start: March 2018
Project end: February 2020

Total EU funding: € 1.9 million
Funding for NRW: € 0.35 million



Johannes Junggeburth
Stellar DBS GmbH



Checking performance via the iris

In its function, the iris of the human eye follows special parameters that are uniquely attached to each individual human body. This unique signature of the iris's reaction can be measured and recorded. All parameters within the reaction are reproducible and measurable. However, it is significantly influenced by age, illness, gender, alcohol, medication or drugs. The business concept is based on these findings. The iris lab experimental setup uses a high-speed camera to record the working sequences of the iris and explores the relationship between fatigue and cognitive performance. Based on the data obtained, intake of medication, drugs or alcohol can be detected. The app developed can be used (in personalised form) for occupational health and safety purposes.



Contact:
www.stellar-pcs.com

University of Applied Sciences Hochschule Niederrhein

Project start: February 2015
Project end: July 2016

Total EU funding: € 0.9 million
Funding for NRW: € 0.38 million

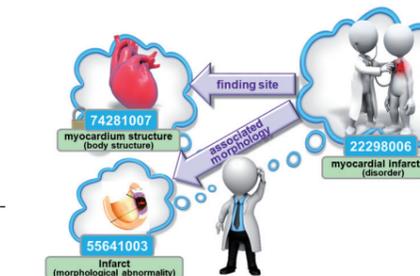


Julian Sass
University of Applied Sciences
Hochschule Niederrhein
(HSNR)

ASSESS CT

The goal of ASSESS CT (Assessing SNOMED CT for Large Scale eHealth Deployments in the EU) was a comprehensive, multidisciplinary cost-benefit analysis of the international clinical terminology SNOMED CT. The project investigated whether SNOMED CT, a potential terminology standard for improving semantic interoperability, would be fit for EU-wide eHealth deployments. ASSESS CT developed policy recommendations on the adoption of large-scale international clinical terminologies as part of a national and/or European strategy towards advancing the semantic interoperability of health data. The project contributed to better semantic interoperability of eHealth services in Europe, with the ultimate goal of optimising care and minimising harm in delivery of care. In a joint 18-month effort, the ASSESS

CT consortium led by the University of Applied Sciences Hochschule Niederrhein (HSNR) integrated a broad range of stakeholders from eleven European countries.



Contact:
http://assess-ct.eu



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Exhibition | 15 March 2018

INNOVATIONS FOR EUROPE BASED IN NRW

Successful R&I in Europe 2018 – 9th European Networking Event

15-16 March 2018
Van der Valk Airporthotel Düsseldorf
Germany



Ingpuls GmbH

Project start: June 2015
Project end: January 2018

Funding for NRW: € 0.3 million



Dr.-Ing. Christian Großmann
Ingpuls GmbH

SMA mass production

Ingpuls is an engineering company located in Bochum. It develops and produces elements based on Shape Memory Alloys (SMA). Using cutting-edge methods, Ingpuls designs SMA in the highest qualities, such as are required for innovative products. It produces these materials and develops products with customised functions.

Industry will encounter smart materials in future wherever actuation strokes and/or forces are needed or requested, whether in equipment for domestic applications or for cars, heating, cell phones, satellites and even functional implants in the human body. Special properties allow the development of very efficient products and systems using SMA. Complex assembly groups become clearly positioned, smaller and lighter.

It is an effective way to minimise costs and save valuable resources at the same time.



Contact:
www.ingpuls.de

Nurogames GmbH

Project start: January 2016
Project end: December 2018

Total EU funding: € 6.6 million
Funding for NRW: € 0.32 million



Andrew Pomazansky
Nurogames GmbH

MaTHiSiS Value Proposition

An ecosystem for assisting learners/ tutors will be introduced and validated in 5 use cases: Autism Spectrum, Profound and Multiple Learning Disabilities, Mainstream Education, Industrial Training and Career Guidance Distance Learning. Within MaTHiSiS an innovative structural tool of learning graphs is going to be introduced to guide the learner through the process of learning. To reach a learning objective, learner will have to "follow the path" of the learning graphs, built up on Smart Learning Atoms, which are elements that carry defined learning materials. MaTHiSiS will make use of a range of interaction devices, such as robots, mobile devices and whiteboards. The consortium will provide a specialized graphical editor-like tool, ensuring easy creation of educational materials as well as the reusability across use cases.



Contact:
www.nurogames.com

Breuckmann GmbH & Co. KG

Project start: April 2018 expected
Project end: April 2020

Total EU funding: € 2.2 million
Funding for NRW: € 2.2 million



Peter Szilagy
Breuckmann GmbH & Co. KG,
Breuckmann eMobility GmbH

High-performance cast rotors

Breuckmann is a traditional casting company founded in 1966 and known worldwide as a specialist for casting in metallic moulds at temperatures >1000°C. In recent years, Breuckmann has developed an innovative vertical laminar squeeze-casting process which allows an even laminar form filling. This enables the production of high-performance cast rotors for the automotive industry with minimal porosity, high conductivity and excellent properties for use in high-speed concepts. Through this innovative casting technology, a tool concept with a high level of automation can be achieved and quality requirements in the automotive industry can be met. Due to the distribution of future players in the e-mobility market, Breuckmann is interested in joining forces to establish a strong market position in the e-mobility sector.



Contact:
www.breuckmann.de

MFDS

Project start: August 2017
Project end: October 2017

Funding for NRW: € 50,000

Multifunctional Detection System for Safer Road Traffic

The MFDS project was initiated as a wrong-way driver warning system by Wilhelm Schröder GmbH in 2011. Motivated by an accident involving three employees due to a wrong-way driver, the SME with core activities in plastics and metals expanded into the field of traffic telematics. In the further development of the MFDS in the areas of parking and traffic flow information, the current Multi Functional Detection System was developed. A feasibility study was conducted to identify the market potential for a later product, with the goal of describing market potential in Germany and the EU. A Phase 2 project is currently in the planning in order to accelerate the development and marketing of the MFDS. The first step is the relocation of the development department to a separate company S-Tec GmbH.



Dennis Dorn
Wilhelm Schröder GmbH



Contact:
www.mfds.eu