



## Core Expertise

### Software Development

- Requirements Analysis, Software Architecture, System Design
- Mobile, Web & Cross-Platform Development & Application Design
- Software / Client Development of 2D & 3D Applications
- Cocos2D-x & Unity® Development for Mobile, Browser, PC & Console
- iOS / Android App & Game Development for Smartphones & Tablets
- Cloud Computing, Server Development

### 2D & 3D Design & Animation

- 2D / 3D Graphics, Character Design, Modelling, Animation, Motion Capturing
- GUI Design, Application Design, Game Design
- User Experience / User Interface Design

### Impact Management, Exploitation, Business Planning

- Exploitation, Business Planning & Modelling, Impact Management
- Dissemination & Public Relations

## Research & Innovation Topics & Interests

### ICT, Software Technologies, Software Engineering, Future Internet & 5G

- Software Design, Development & Testing, Programming & Modelling Methods
- Automated Deployment, Dynamic Configuration, Performance Monitoring
- Context-aware & Self-adaptive Software, FIWARE & Smart Applications

### Big Data, Cloud Computing, Cloud Technologies, Advanced Computing

- Big Data Technologies, Software Engineering, Scalable Architectures
- Data Structures, Visualisation, Management & Administration Tools
- Big Data Analytics, Learning Analytics, Health Analytics, Gaming Analytics
- Data Science, Tracking, Monitoring, Analytics, Reporting
- Predictive Modelling & Analytics, Deep Learning, Machine Learning
- Business Intelligence, Privacy-Preserving Big Data Technologies
- Cloud Data Management, IoT Data Warehouse

### UI/UX, User Interfaces, VR/AR

- Virtual Reality & Augmented Reality Applications
- Multi-Modal Interfaces, Verbal & Non-Verbal Communication
- User Interface / User Experience Design
- ICT Research & Innovation for Creative Industries & Cultural Heritage

### Digital Gaming Technologies, Gaming & Gamification

- Serious Games & Applied Games, Gamification Solutions
- Mobile Games, Online Games, Smartphone & Smart TV Games
- Massively Multi-User Online Games, Strategy Games, City Builder, etc.

### Learning, Teaching & Education

- Educational Games & Game-Based Learning
- Technology Enhanced Learning & Digital Learning Applications
- Interactive Learning in VR/AR Environments

### Health, Personalised Medicine, Health Care & Lifestyle

- Health Games & Apps, Health ICT, Big Data
- eHealth & mHealth Application & System Design & Development
- ICT Solutions for Active Ageing & Self-Management of Health

### Focus Areas, Smart Cities, Communities & Homes, Energy, Transport, Mobility

- Behavioural Change towards Energy Efficiency through ICT
- ICT for the Factories of the Future, Digital Automation
- Internet of Things / Smart Cyber-Physical Systems



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## Research & Innovation Projects

More than 18 years of experience in software & game development and in EU-funded research, development and innovation projects



Federal Ministry of Education and Research

## Past Projects



### SeaClouds

Seamless adaptive multi-cloud management of service-based applications  
www.seaclouds-project.eu  
FP7-ICT-2013-10 / ICT-2013.1.2  
Software Engineering, Services and Cloud Computing



### Smart Gaming

Cross-platform Gaming Technology for Smart TV and mobile Devices  
www.nurogames.com/smart-gaming

### SPIELBAR

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Solution Platform for Integrated Entertainment: location based Augmented Reality  
www.nurogames.com/spielbar



### SpITKom

Game based knowledge transfer of IT-competence  
www.nurogames.com/spitkom



### Runsafer

Development of a Sensor-enhanced Running Shoe with Real-Time Biomechanical Feedback  
http://www.runsafer.eu/



### RehalInterAct

3D motion therapy for the home environment  
www.nuromedia.com/rehainteract



### Smart Senior

Intelligent solutions for senior citizens' home environments  
www.smart-senior.de



### Gerigames

Industrial research project on the use of serious games in the rehabilitation of functional deficits among older people and the prevention of illness.  
www.nuromedia.com/gerigames



### Bank4Elder

Innovative ways of banking designed for and by the elderly  
www.nuromedia.com/bank4elder

## Ongoing Projects



### 5Gtango

5G Development and validation platform for global industry-specific network services and apps  
Horizon 2020 - www.5gtango.eu  
5G PPP Convergent Technologies



### RAGE

Realising an Applied Gaming Eco-system  
Horizon 2020 - www.rageproject.eu  
Advanced digital gaming/gamification technologies



### MaTHiSiS

Managing Affective-learning THrough Intelligent atoms and Smart Interactions  
Horizon 2020 - www.mathisis-project.eu  
Technologies for a better human learning and teaching



### PATHway

Technology enabled behavioral change as a pathway towards better self-management of CVD  
Horizon 2020 - www.pathway2health.eu  
Self management of health and disease: citizen engagement and mHealth



### Social Energy

A Gaming and Social Network Platform for Evolving Energy Markets' Operation and Educating Virtual Energy Communities  
Horizon 2020 - www.socialenergy-project.eu



### Smart Life

Smart Clothing Gamification to promote Energy-related Behaviours among Adolescents  
Horizon 2020 - www.smartlifeproject.eu



### GOAL

Games Of Active Life  
Horizon 2020 - www.goal-h2020.eu



### e-Confidence

Confidence in behaviour changes through serious games  
Horizon 2020 - www.econfidence.eu



### V4Design

Visual and textual content re-purposing FOR(4) architecture, Design and video virtual reality games  
Horizon 2020 - www.v4design.eu  
Tools for smart digital content in the creative industries



### PTwist

An open platform for plastics lifecycle awareness, monetization, and sustainable innovation  
Horizon 2020 - www.ptwist.eu/  
Collective Awareness Platforms for Sustainability and Social Innovation



### Immerse2Learn

Immersive Gamified Learning Environments for Plant Construction and Mechanical Engineering  
Leitmarkt Wettbewerb CreateMedia.NRW 2 EFRE.NRW - www.immerse2learn.de



### VoiceAdapt

Voice Adaptive Training for older adults with Aphasia  
Horizon 2020, BMBF, Joint Programming Initiative "More. Years. Better Lives" - www.voiceadapt.de



### Connexions

Interconnected Next-Generation Immersive IoT Platform of Crime and Terrorism Detection, Prediction, Investigation, and Prevention Services  
Horizon 2020



### AfarCloud

Aggregate Farming in the Cloud  
ECSEL JU Project

### PASSION-HF

Patient Self-care using eHealth in chronic Heart Failure  
Interreg North-West Europe

Research projects funded



EUROPÄISCHE UNION  
Investition in unsere Zukunft  
Europäischer Fonds  
für regionale Entwicklung

