logitech G

Logitech are world leaders in the design of technologies that let humans interact with computers in novel ways and we understand the importance of related research in this ever-expanding area. **The area of computer games and the explosion of new and related interaction techniques, styles, and devices are of particular interest to us.** This research is cross disciplinary in nature and is situated at the intersection of computer science and cognitive psychology. **We felt that Lero and access to researchers in the University of Limerick would give us the correct cross-disciplinary team to take on the task.** It has been a very successful collaboration running for over six years with four more currently planned.

Niall White, Principal Design Engineer for Gaming, Logitech

IDA Ireland

Lero is of huge benefit to demonstrate **industry-research collaboration** and the art of the possible...

Niall O'Callaghan, IDA Business & Relationship Manager, Mid West Region

Valeo
SMART TECHNOLOGY FOR SMARTER MOBILITY

Since Valeo has engaged with Lero in 2017 it has allowed us to significantly scale up the size of our research projects while giving us access to expand our research collaborations across multiple Lero member institutions. **The collaboration with Lero has led to a very smooth process of interaction with multiple academic leaders in our field of research** creating the potential for significant future positive impact for Valeo as a result.

Jonathan Horgan, Deep Learning & Computer Vision Architecture Manager, Valeo Vision Systems

CONNECT WITH US

Joe Gibbs
General Manager
Lero, the SFI Research Centre for Software
Joe.Gibbs@lero.ie

🐦 @LeroCentre   in lero-centre

lero.ie

LERO
Software for a better world

LERO PARTNERS WITH 5 OF THE **TOP 12 TECHNOLOGY COMPANIES IN THE WORLD**
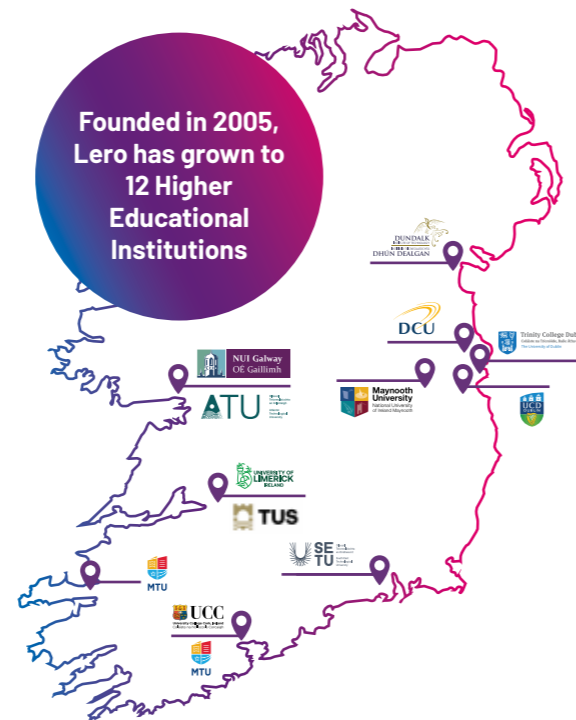
lero.ie

ABOUT LERO

Lero, the Science Foundation Ireland Research Centre for Software, brings together expert software teams from universities and institutes of technology across Ireland in a co-ordinated centre of research excellence with a strong industry focus.

GROWTH & IMPACT

~€100m
Funding

70
Nationalities

~2.500
Publications

€1→€5.25
To Irish economy

~285
Researchers

12
HEIs

80+
Industry partners

80+
Industry projects

36
Patents

Lero's Responsible Software Engineering agenda underpins our strategic research areas and ensures that software delivers values such as privacy, security, trust and inclusion; key topics for companies now and in the future.

Founded in 2005, Lero has grown to 12 Higher Educational Institutions

DUNDALK INSTITUTE OF TECHNOLOGY DRÚN DEALGAN
DCU
Trinity College Dublin
NUI Galway OÉ Gaillimh
ATU
Maynooth University
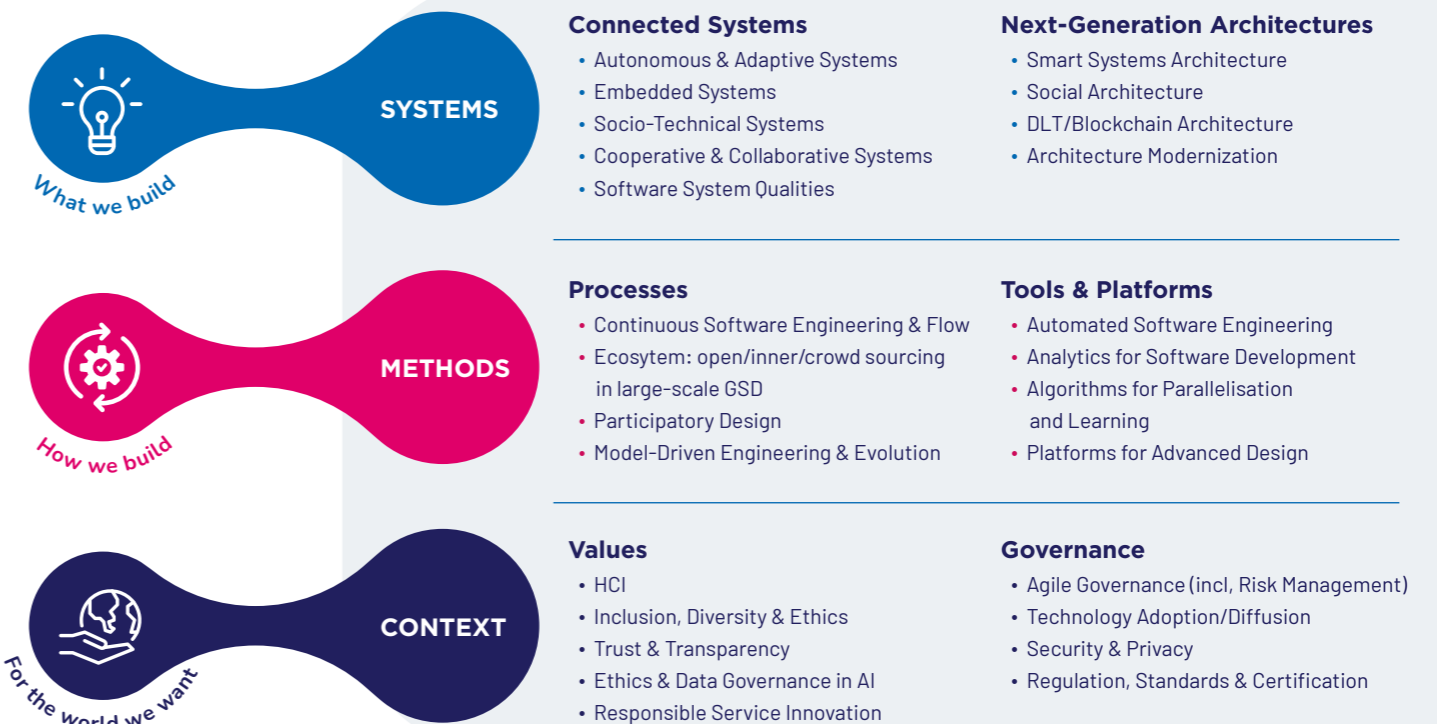UNIVERSITY OF LIMERICK
TUS
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MTU
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MTU

We work across multiple sectors

with our industry partners who are leaders in a wide range of application domains from **driverless cars** to **artificial intelligence** and **ICT, cybersecurity, fintech, govtech, smart communities, agritech** and **healthtech.**

LERO

Our research brings together multidisciplinary research teams to cover three overarching areas:

SYSTEMS
What we build

Connected Systems
- Autonomous & Adaptive Systems
- Embedded Systems
- Socio-Technical Systems
- Cooperative & Collaborative Systems
- Software System Qualities

Next-Generation Architectures
- Smart Systems Architecture
- Social Architecture
- DLT/Blockchain Architecture
- Architecture Modernization

METHODS
How we build

Processes
- Continuous Software Engineering & Flow
- Ecosytem: open/inner/crowd sourcing in large-scale GSD
- Participatory Design
- Model-Driven Engineering & Evolution

Tools & Platforms
- Automated Software Engineering
- Analytics for Software Development
- Algorithms for Parallelisation and Learning
- Platforms for Advanced Design

CONTEXT
For the world we want

Values
- HCI
- Inclusion, Diversity & Ethics
- Trust & Transparency
- Ethics & Data Governance in AI
- Responsible Service Innovation

Governance
- Agile Governance (incl, Risk Management)
- Technology Adoption/Diffusion
- Security & Privacy
- Regulation, Standards & Certification

WORKING TOGETHER

Collaboration is at the very core of what we do. Our industry partners are a vital part of the research centre and together we address exciting new opportunities in our partners' markets that **deliver economic value** and help **future proof companies for the challenges that lie ahead in increasingly competitive environments.**

Lero has worked with over 80 industry partners globally. Lero works with industry partners to identify and solve specific problems, working to create or expand the R&D footprint of companies both nationally and internationally.

PROCESS OF ENGAGEMENT

1. **Identify the opportunity or problem**
2. **Lero assembles expert research team**
3. **Define and agree project scope**
4. **Access funding support**
5. **Collaborate and deliver**

BENEFITS TO YOU

- **Access to world leading researchers. Lero brings together interdisciplinary teams from across multiple disciplines**
- **Technology & Knowledge Transfer**
- **Use of state-of-the-art equipment and technology**
- **Industry-focused solutions delivering commercial value**