



**Innovative Facility for Isotope GENERation with Efficient Ion Accelerator**

Centre for Research and Technology Hellas / Information  
Technologies Institute (CERTH/ITI)

Dr. Konstantinos Votis, CERTH/ITI

Nikos Laloumis, CERTH/ITI

**Kick-off meeting**

3-4 March 2025

Thessaloniki, Greece





IFIGENEIA

# Partner profile

## • Centre for Research & Technology Hellas

Founded in 2000 and is one of the leading R&D centers in Greece

Includes 5 Institutes:

- Chemical Process & Energy Resources Institute (CPERI)
- Information Technologies Institute (ITI)**
- Hellenic Institute of Transport (HIT)
- Institute of Applied Bioscience (INAB)
- Institute of Bio-Economy and Agri-Technology (IBO)

More than **1100 employees**

More than **1500 research projects**

More than **1500 international partners**

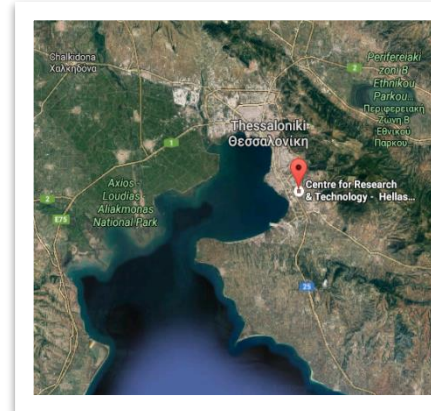
Annual financing ~ € 40M:

- ▶ 14% industrial research contracts
- ▶ 74% research projects
- ▶ 12% government institutional funding



**CERTH**

CENTRE FOR  
RESEARCH & TECHNOLOGY  
HELLAS



Listed among  
**TOP-15 E.U. institutions**  
with the highest participation in  
competitive research grants!

- Founded in 1998 as a non-profit organisation
- Part of CERTH since 2000
- Leading Institution of Greece in the fields of Informatics, Telematics and Telecommunications
- Personnel (~**600** employees)
- CERTH - ITI has participated in more than **525 projects**
- A total budget of **135 M€** - **~15 M€** funding per year (last 3 years)

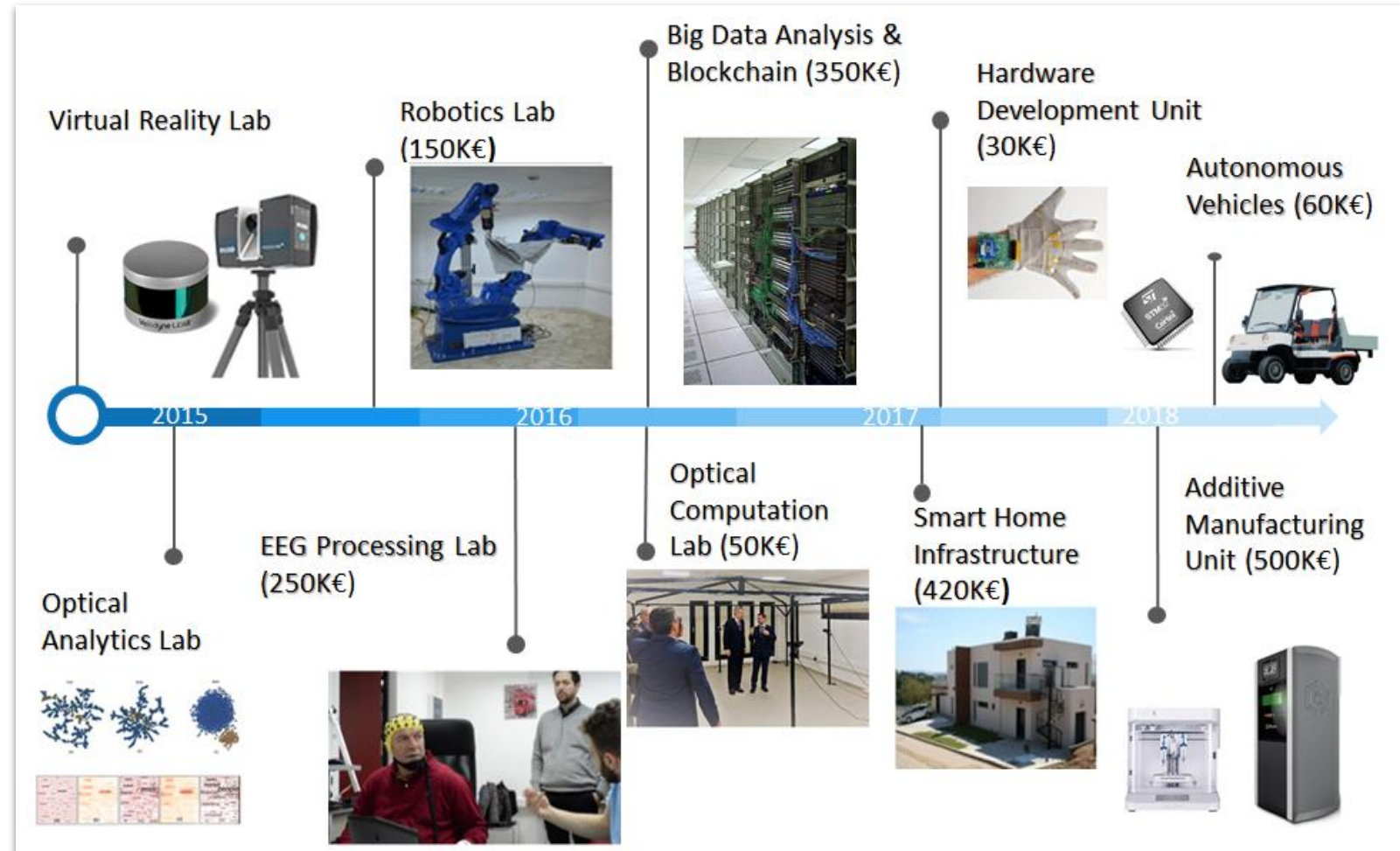
Publication record (last 5 years):

- More than **330 journals, 780 conferences, 100 books/ book chapters**
- More than **7.500 citations**



**1<sup>st</sup> in Greece** for the last 5 consecutive years in participation in competitive research grants (FP7, H2020)

- Investing in Research Infrastructure



- **Participation in Large Associations**

Leading and steering scientific and research activities | 2013 – today

**INTERNATIONAL DATA SPACES ASSOCIATION**

 **BDV** BIG DATA VALUE ASSOCIATION

**H.B.H.** Hellenic Blockchain Hub



 **earpa**

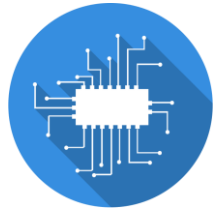
 **ERTICO**  
ITS EUROPE

**ECS** EUROPEAN CYBER SECURITY ORGANISATION 

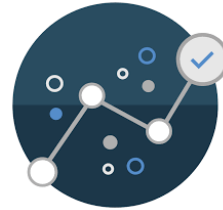
 **HYPERLEDGER**

 **universAAL**  
IoT

- **Fusion of Technologies**



Artificial Intelligence



Machine Learning



Visual Analytics



Internet of Things



Blockchain



Big Data



Enhanced Simulations



Decision Support Systems



Interoperability



Multi-Agent Systems



Demand Side Management



Smart Hardware Solutions



IFIGENEIA

# Main activities & competencies

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- **Virtual & Augmented Reality Lab**

<https://varlab.itι.gr/>

Virtual and Augmented Reality Lab (VARLab), founded in 2000, is a fully equipped laboratory focusing on Augmented Reality (AR) and Virtual Reality (VR) application and research.

It is also supported by a skilled team of researchers working on the design, development, integration and deployment of innovative AR/VR applications. VARLab participates in numerous research projects, through which it has developed collaborations with the most active research and educational institutes, but also enterprises both in Greece and in Europe, in the areas of AR/VR.

- **Virtual and Augmented Reality Infrastructure**

- Touchscreens and tactile feedback devices
- 3D Long Range Laser Scanner
- 3D Long-Range and High-Resolution Lidar Scanner
- Infrastructures for 3D views, including powerwall (ART™), sensors, 3D projectors and glasses.
- VR equipment (Meta Quest 3, HTC Vive Pro and more)
- AR equipment (Microsoft Hololens 2, XREAL Air 2 Ultra and more)
- Thermal, infrared, stereoscopic cameras (Insta 360 Pro).





- Participation in the following WPs:
  - WP1: Project Management (T1.1, T1.3, T1.4, T1.5)
  - WP2: Education, Dissemination, Inclusion and Diversity (T2.1, T2.2, T2.3, T2.4)
  - WP3: LINAC design dedicated to radioisotope production and other societal applications (T3.4, T3.6)
  - WP4: Radioisotope production and radiopharmaceuticals (T4.4)
  - WP5: Business plan for end users: From science to business including spinoffs (T5.1, T5.2, T5.3)
  - WP6: Mentorship (T6.1, T6.2)
- **Leader of “T6.3 Implementation of a Virtual Interactive Radiolotope production unit”**



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