

URENIO

URBAN AND REGIONAL INNOVATION Research Unit

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Research collaboration

*The Urban and Regional Innovation research unit is a University Lab of Aristotle University of Thessaloniki for the promotion of applied research and the supply of technological services in the field of **innovation ecosystems & intelligent cities & regions.***

URENIO is mainly involved in **competitive projects** of the European R&D framework programmes (FP), the CIP, the innovative actions of the ERDF, and the programmes of Interregional Cooperation.

- **UNIVERSITIES & RESEARCH INSTITUTES**
 CATHOLIC UNIVERSITY OF LOUVAIN; DEMOCRITUS UNIVERSITY; FOUNDATION FOR RESEARCH AND TECHNOLOGY; PANTHEON UNIVERSITY; RESEARCH AND TECHNOLOGY INSTITUTE OF MAASTRICHT; TECHNICAL UNIVERSITY OF CRETE; TECHNICAL UNIVERSITY OF MILAN; UNIVERSITY OF MONTPELLIER; UNIVERSITY OF SOCIAL SCIENCES OF TOULOUSE; UNIVERSITY OF THESSALY; UNIVERSITY OF WALES, CARDIFF; UNIVERSITY OF LULEÅ; UNIVERSITY OF BREMEN; CNRS.
- **TECHNOLOGY ORGANISATIONS**
 ANDALUSIA TECHNOLOGY PARK; ARCHIMEDES, ESTONIA; CENTRO NVLLI, NOSTA FUNDACION LABEIN; FUNDECYT, EXTREMADURA; JOSEF STEFAN INSTITUTE, SLOVENIA; INFYDE, BILBAO; INSTITUT JULES DESTRE; KENT TECHNOLOGY TRANSFER CENTRE; LEIA TECHNOLOGY CENTRE, ALAWA; PRONOVUM, HUNGARY; SCIENCE AND TECHNOLOGY PARK, CRETE; STEINBEIS FOUNDATION, STUTTGART; TAGUS TECHNOLOGY PARK; TALOS, CYPRUS; TECH TIROL, LOWER AUSTRIA; TECHNOLOGY PARK OULU; TERES FINLAND; THESSALONIKI PARK THESSALONIKI, ZENIT, MULHEIM.
- **REGIONAL AUTHORITIES**
 BASQUE COUNTRY; CENTRAL MACEDONIA; IONIAN ISLANDS; NORTH RHINE WESTFALIA; LORRAINE; MANTOVA; SOUTHERN AEGEAN; SW OLTENIA; ROMANIA; THESSALY; WALES; W. MACEDONIA.

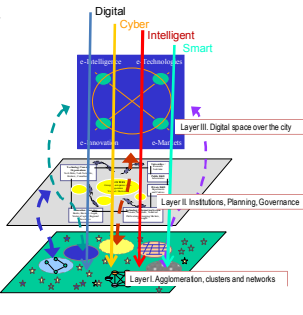
Research field

URENIO's research focuses on **innovation ecosystems** and **intelligent cities and regions**: Cities and regions which base their development on R&D, innovation, knowledge-intensive companies, technology infrastructure, knowledge and information networks.

We are working on

- **Digital spaces and platforms** supporting innovation practices and policies.
- **Innovation processes** (intelligence, technology transfer, learning, collaborative innovation, new product development, spin-offs), and
- **Models of territorial systems of innovation** (technology districts, clusters, technology parks, RIS-regions, open innovation ecosystems)

Recent research on intelligent areas focuses on (1) strategies, (2) platforms and applications, and (3) measurement of performance. Our efforts to devise **solutions integrating human, collective, and machine intelligence** in the framework of cities.



Intelligent City/Region Structure

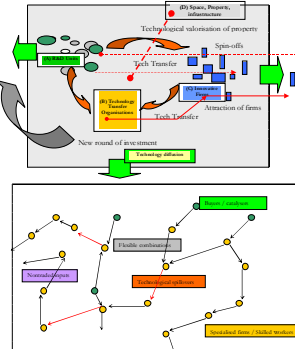
Research projects

90+ projects from the EU and international organisations



Research field 1: Cluster development and planning

Technology districts; Science and technology parks; Incubators, Clusters



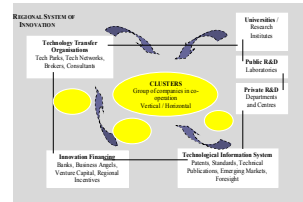
This topic covers projects dealing with the planning, development and management of **innovation clusters, technology poles, science and technology parks, innovation centres, incubators.**

Projects

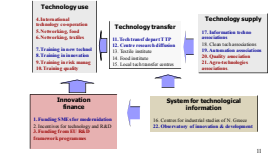
- Andalusia Technology Park
- Innovation Centre Belice, Italy
- Science Park, Technical Univ. Crete
- Science Park, Democritus Univ. Industrial Districts and System-areas in Greece
- Technology Transfer Centre (NETFORCE)

Research field 2: Regional innovation systems and strategies

RIS-RITTS projects; Regional innovative actions programmes



RTP-RIS+ 1995-2000
Tested projects (blue and red) with respect to the Regional Innovation System



Projects: Participation in **20 RIS/RITTS and ERDF Innovative Action Programs** in Greece, Cyprus, Bulgaria, Lithuania, UK, Spain
 METAFORSIGHT; STRATINC; Regional Innovation Observatories; RKM-Net; Regional Innovation Management (INNOREGIO); INNOTENDER; Spin-off management (TECHNOGENESIS).

Research field 3: Intelligent Cities

Physical - virtual innovation ecosystems

This topic focuses on the use of information technology to **create virtual / digital innovation spaces** supporting innovative and knowledge cities and regions. We are working on the development of virtual innovation ecosystems, such as research centres, technology parks, industrial districts, and knowledge-based clusters.

Digital cities support the functioning and management of cities through information technologies and the Internet.

Projects: OnLine Innovation (ONLI); Digital Research Centre; Digital Corfu; Digital Aegean; Open Digital City Platform; FIREBALL, PEOPLE

Activities in the field of intelligent cities:

(1) Projects on Digital / Intelligent / Smart cities

(2) Development of IT platforms / applications for intelligent cities

Intelligent City Platforms

Intelligent cities are **systems of innovation** combining innovative clusters, technology learning institutions, and digital innovation spaces. The platforms enable the creation of digital spaces facilitating five key innovation processes.

- Strategic intelligence**
- Technology Dissemination**
- Collaborative Innovation**
- New Company Incubation**
- Virtual Tour & e-Market**

(3) Global watch on intelligent cities

Watch: Intelligent Cities – Smart Cities – Innovation Ecosystems

Special Event: Creating Smart Cities

On-line Tools

Virtual Innovation Environment

Projects

Life videos about smart / future cities

(4) Postgraduate course: "Intelligent cities and systems of innovation"

Χώρα υποστήριξης της Εκπαιδευτικής Διαδικασίας

Προπτυχιακό Μοθίριο

Φηγάρο Περιβάλλον Καινοτομίας

Virtual Innovation Environment

Πλατφόρμα URENIO για Ευρωπαϊκή Ελλάδα

Ευρωπαϊκές Πόλεις: Μεταπτυχιακό Σεμινάριο Διδασκτορικών

Το Μέλλον της Μετακίνησης στη Θεσσαλονίκη

Διαλέξεις 2009

Διαλέξεις 2007-2008

(5) Spin off company: INTELSPACE SA

Home About Services Solutions People Resources Contact

Strategic Intelligence

Applications which support information mastering. They are structured according to business intelligence principles, and include data collection, data analysis, and data dissemination modules, enabling the provision of market and technology watch services.

About INTELSPACE S.A.

INTELSPACE offers consulting services and software development in the field of innovation, digital innovation environments, and intelligent cities. We focus on the design and development of physical and virtual environments assisting key innovation processes, such as strategic intelligence, technology transfer, new product development, and online product promotion.

Innovation environments accelerate the cycle of innovation from the conception of a new idea to the creation and promotion of a new product to the market. They separate niche companies, research institutes, incubators, technology parks, clusters, and other innovative organizations. They are assisted by digital spaces and IT applications, such as web-based intelligence for information processing, virtual communities for innovation collaboration, online technology transfer platforms, web-based marketplace and digital sites for product marketing and promotion.

Latest news from URENIO Portal

(6) Publications

Intelligent Cities and Globalisation of Innovation Networks
 By Nicos Romaniou
 Routledge
 ISBN: 978-1-136-11111-1
 Published: 15 July 2011
 Pages: 234 pages

STRATINC
 Strategic Planning and Innovation Networks in Smart Cities

(7) Interest about research at URENIO

Alexa Rank: 1/53
 24/642
 URENIO.ORG

BLASNET GREEK MEMBERS

TCCI
 Technological Chamber of Central Macedonia

Established in 1918
 second largest Chamber in Greece
 20.000 active registered members
 ~ 50% of Greek exports
www.ebeth.gr

Multidisciplinary research in the fields of
 Enterprise,
 Innovation & Development,
 Information & Communication Technologies
 Society & Human Development
www.seerc.org

BLASNET GREEK MEMBERS

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 in Macedonia, Thrace and Thessaly.
 Development of Technopolis,
 a real estate project
 for an ICT based cluster project.
www.sepve.org

Invests in advanced technologies
 and innovative products
 cooperation with Greek and foreign researchers
 and
 technologically innovative enterprises
www.thermi-group.com/en/thermokotida

Central Macedonia - The region at a glance

Region of Central Macedonia
 Kilkis, Pella, Imathia, Pieria, Thessaloniki, Chalkidiki

- ✓ Strategic position in South-Eastern Europe.
- ✓ Prosperous region combining
 - dynamic and specialized workforce
 - transport and communication networks
 - the presence of national and international organisations in Thessaloniki

Central Macedonia - The region at a glance

Basic Regional Figures

Surface	Population	Density (inh / km ²)	GDP per capita (2008)
18.811 Km ²	1.874.214	99,6	18.300 €

Central Macedonia - The region at a glance

keywords

- Well developed **manufacturing** sector
- Emerging Industries and **FDI** in Tertiary Sector
- Strong **education and research** base
- **Thessaloniki**, important **metropolis** for the wider region
- **Chalkidiki**, tourist **attraction** of wider region

Central Macedonia - The region at a glance

Well developed manufacturing sector

Large companies:
metal production, oil refineries, chemicals, plastics, etc

SME's:
food & beverage, textile & clothing, marine cluster, furniture, etc

Central Macedonia - The region at a glance

Emerging Industries and FDI in Tertiary Sector

- **IT and software**
- international retail chains
- business services
- **tourist services**
- creativity

Central Macedonia - The region at a glance

R&D and Innovation potential

Organisation	Size	Location
Aristotle University	12 faculties & 4 schools/ 70.000 students	Thessaloniki
Macedonia University	8 departments/10.000 students	Thessaloniki
Technical Educational Institute	21 departments/ 18.000 students	Thessaloniki
Technical Educational Institute	7 departments/ 14.000 students	Serres
CERTH: Centre of R&D	6 Institutes / 400 researchers	Thessaloniki
Technopolis: IT Cluster	77 companies / 800 staff	Thessaloniki

Central Macedonia - The region at a glance

City of Thessaloniki

Major logistics & transport hub

Major industrial activity concentration

Port & airport high share in country's imports & exports

Important tourist attraction:

Top tourist destinations *National Geographic 2013*

5th best party place *Lonely Planet 2010*

European Youth Capital 2014
<https://www.facebook.com/Thessaloniki2014>



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Thank you! ☺

Yannis G. Fallas
Researcher on Clusters in Traditional Sectors

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