URENIO

URBAN AND REGIONAL INNOVATION Research

Aristotle University of Thessaloniki
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Director: Prof. N. Komninos

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 and intelligent cities.

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; PANTEION 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 LULEA; UNIVERSITY OF BREMEN; CNRS.

- **TECHNOLOGY ORGANISATIONS**

ANDALUSIA TECHNOLOGY PARK ; ARCHIMEDES, ESTONIA; CENTRO SVILUPO, AOSTA; FUNDACION LABEIN; FUNDECYT, EXTREMADURA; JOSEF STEFAN INSTITUTE, SLOVENIA; INFYDE, BILBAO; INSTITUT JULES DESTRE; KENT TECHNOLOGY TRANSFER CENTRE; LEIA TECHNOLOGY CENTRE, ALAVA; PRONOVUM, HUNGARY; SCIENCE AND TECHNOLOGY PARK, CRETE; STEINBEIS FOUNDATION, STUTTGART; TAGUS TECHNOLOGY PARK; TALOS, CYPRUS; TECH TIROL, LOWER AUSTRIA; TECHNOLOGY PARK OULU; TEKES FINLAND; THESSALONIKI PARK THESSALONIKI; ZENIT, MULHEIM

- **REGIONAL AUTHORITIES**

BASQUE COUNTRY; CENTRAL MACEDONIA; IONIAN ISLANDS; NORTH RHIN WESTFALIA; LORRAINE; MANTOVA; SOUTHERN AEGEAN; SW OLTENIA, ROMANIA; THESSALY; WALES; W. MACEDONIA

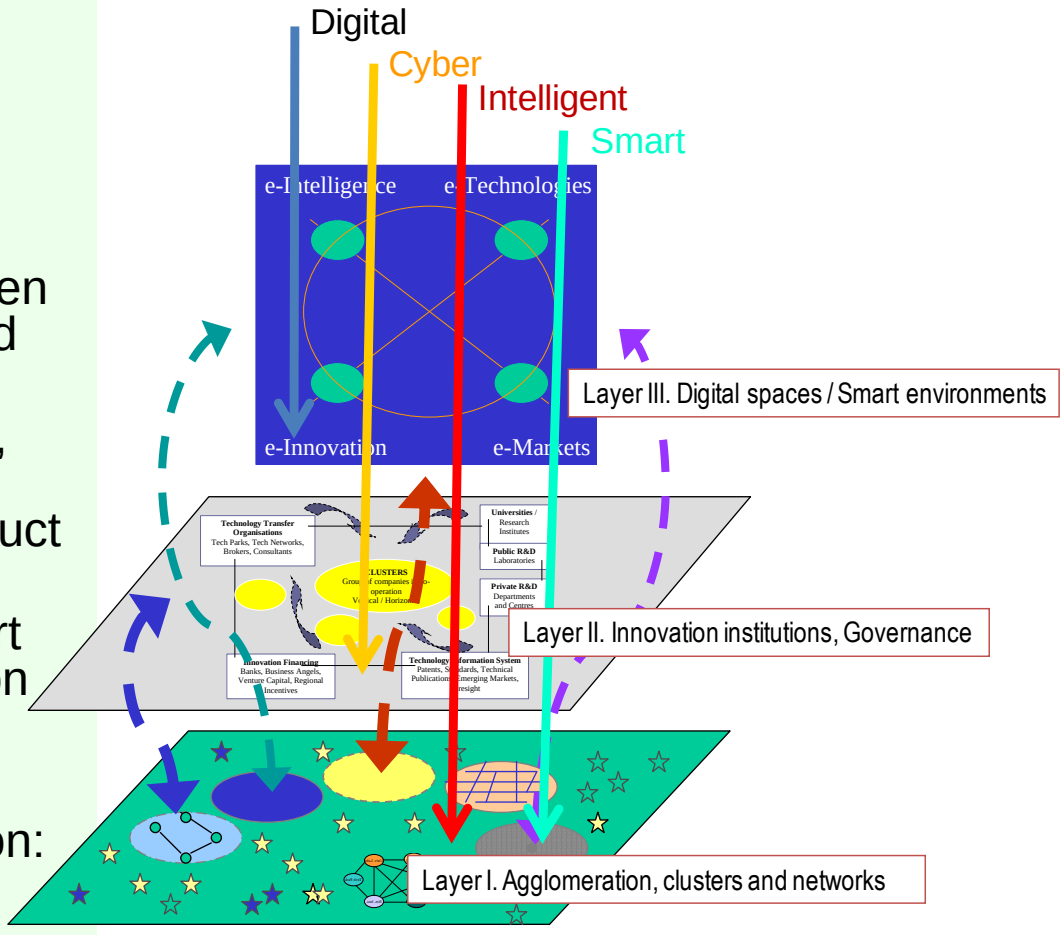
Research field

URENIO's research focuses on **innovation ecosystems** and **intelligent cities**

We are working on

- Models of innovation ecosystems (technology districts, clusters, technology parks, RIS-regions, open innovation ecosystems, web-based ecosystems)
- Innovation processes (intelligence, technology transfer and learning, collaborative innovation, new product development), and
- Digital spaces, platforms and smart environments supporting innovation ecosystems.

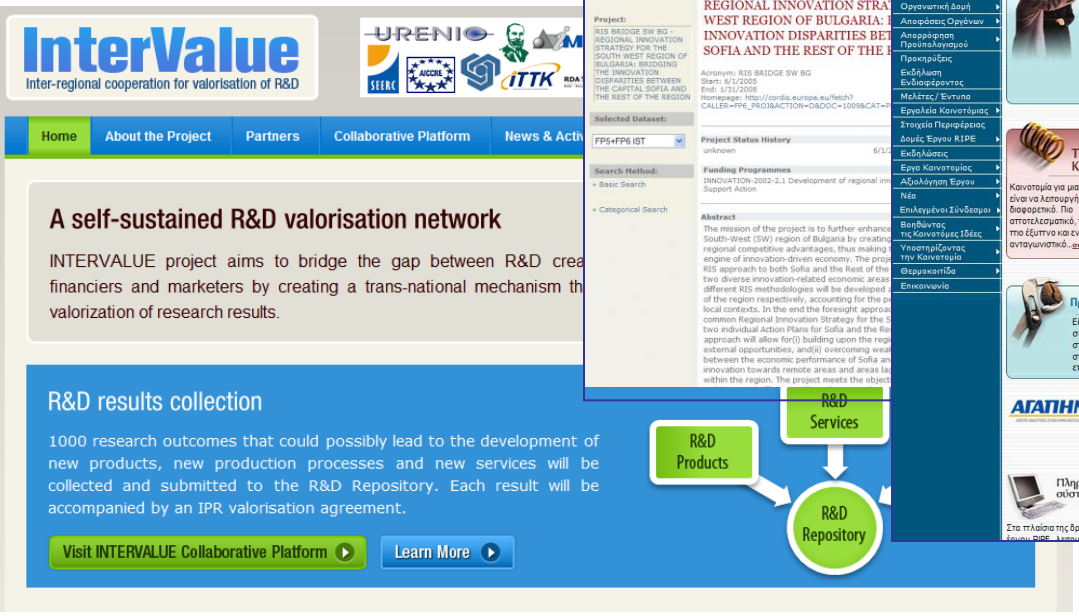
Research on intelligent cities focuses on: (1) strategies, (2) platforms and applications, (3) business models, and (4) measurement scoreboards.



Intelligent City Structure

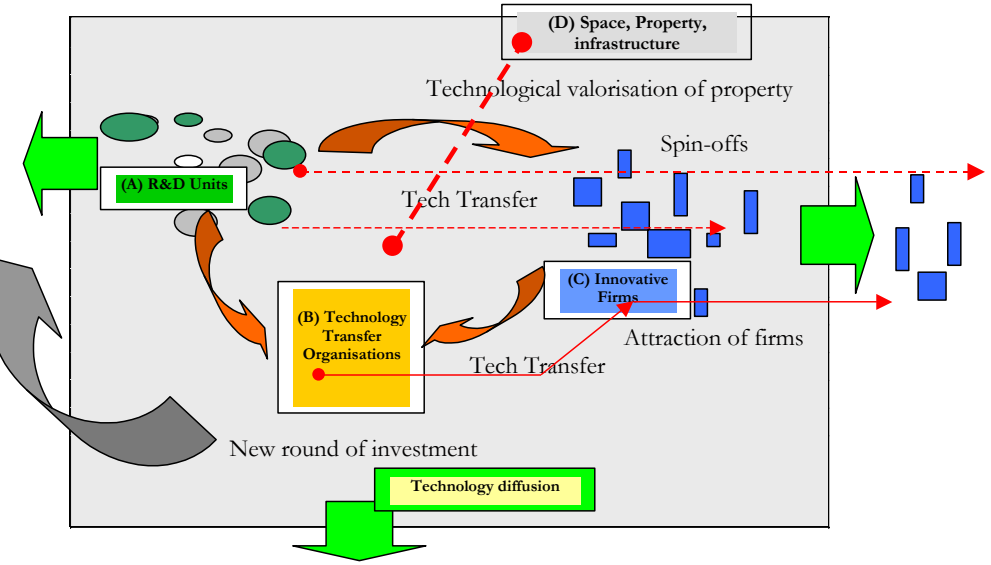
Research

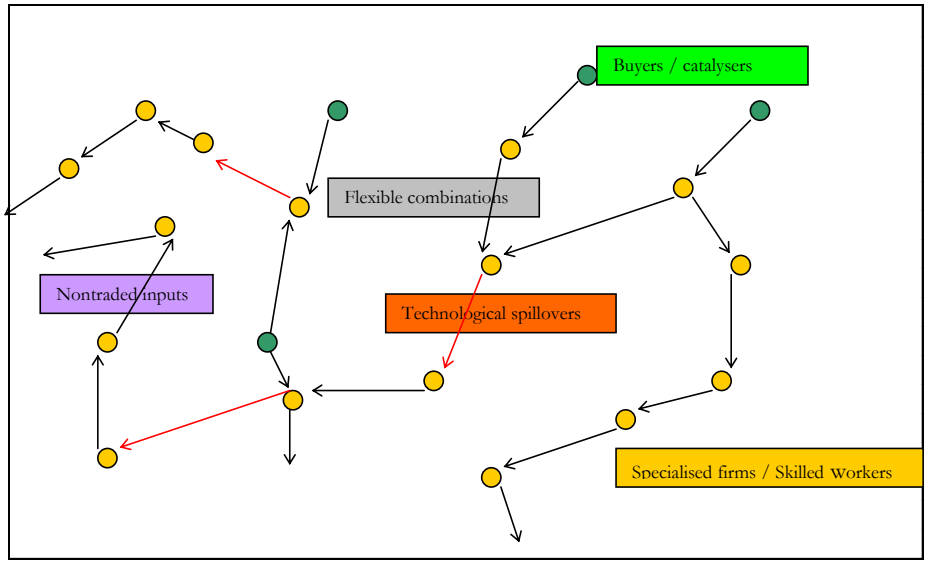
90 projects from the EU and international organisations



Research field 1: **Innovation ecosystems development**

Clusters; Technology districts; Technology parks; Incubators





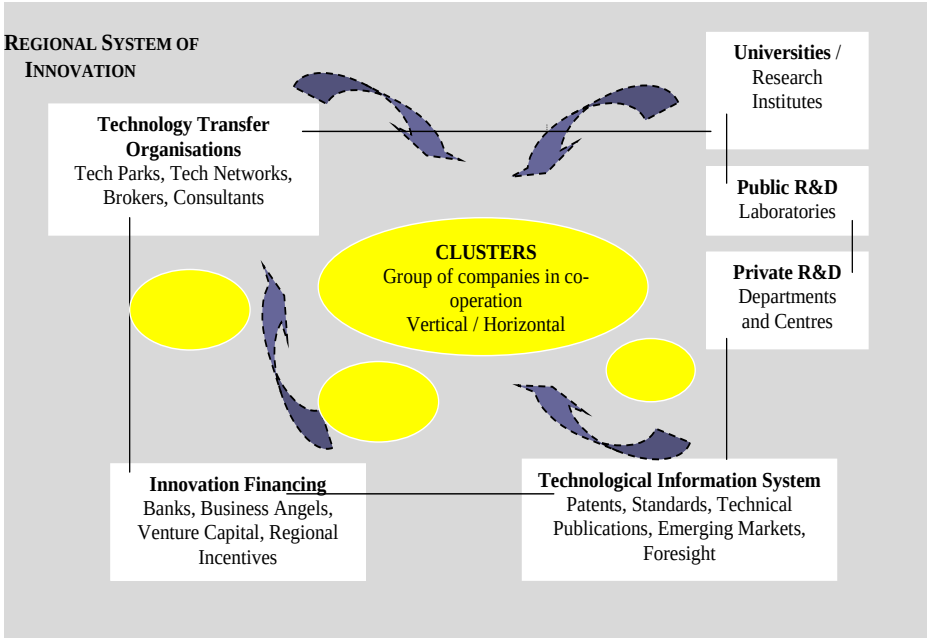
This topic covers projects dealing with the management, development and planning of innovation clusters, technology poles, science and technology parks, innovation centres, incubators.

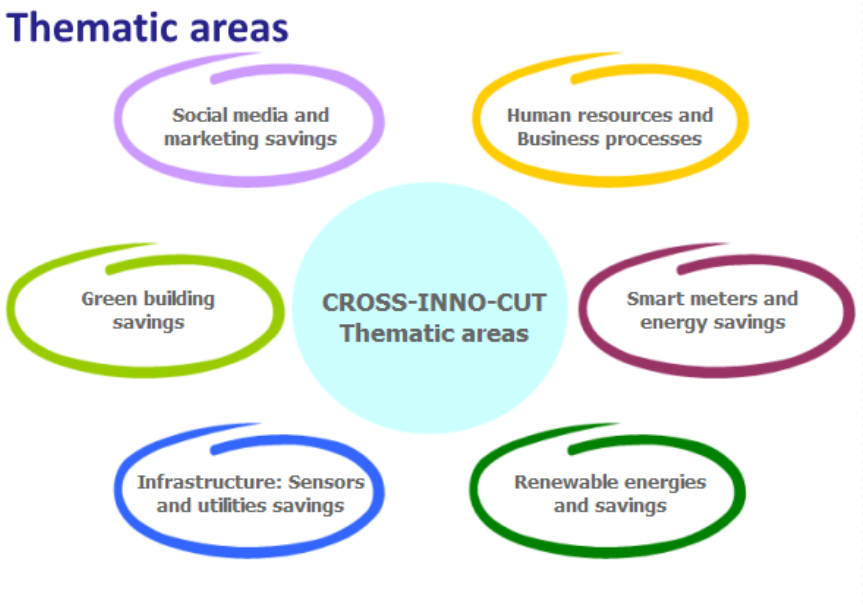
Projects

- 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: **Innovation strategy development**

RIS-RITTS projects; Cost-cutting strategies; Innovation measurement





Projects: Participation in 20 RIS/RITTS and ERDF Innovative Action Programs in Greece, Cyprus, Bulgaria, Lithuania, UK, Spain

METAFORESIGHT; STRATINC; Regional Innovation Observatories; RKM-Net; Regional Innovation Management (INNOREGIO); INNOTENDER; Spin-off management (TECHNOGENESIS).

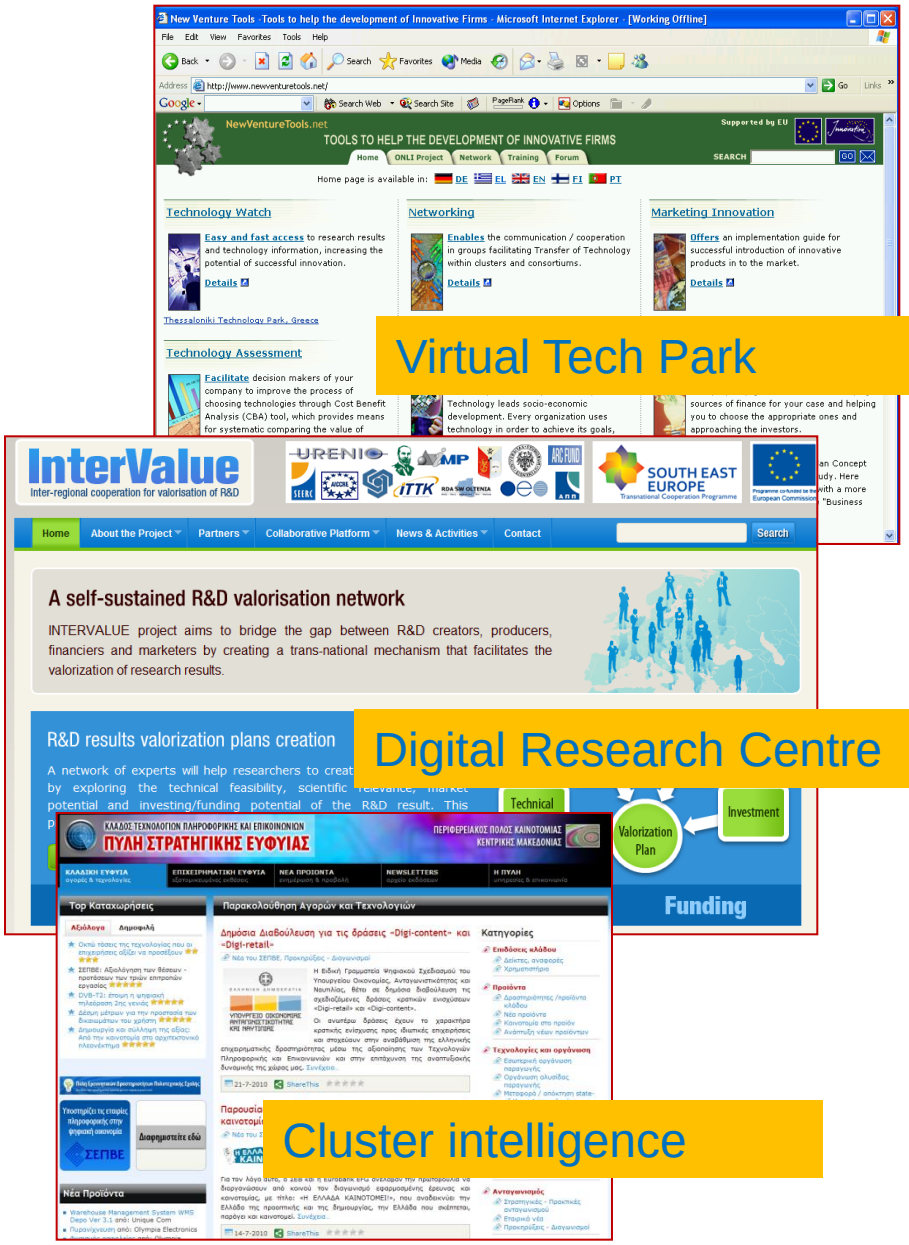
Research field 3: **Intelligent Cities**

Innovation ecosystems and Web technologies

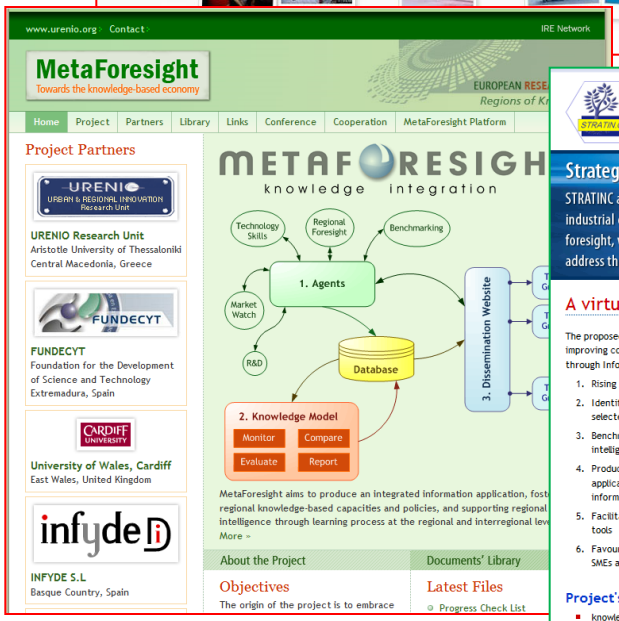
This topic focuses on the use of information technology to create digital / smart innovation ecosystems within innovative and knowledge cities. We are working on the development of virtual innovation ecosystems, such as research centres, technology parks, industrial districts, and knowledge-based clusters.

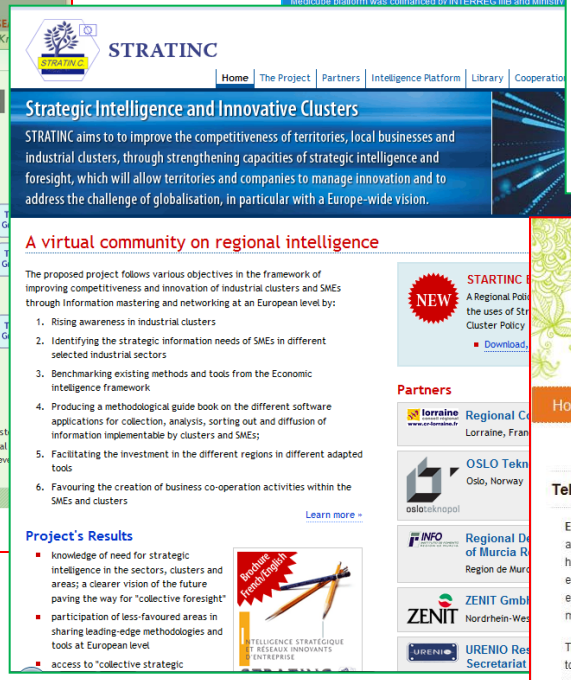
Digital cities support the functioning and management of cities through information technologies and the Internet.

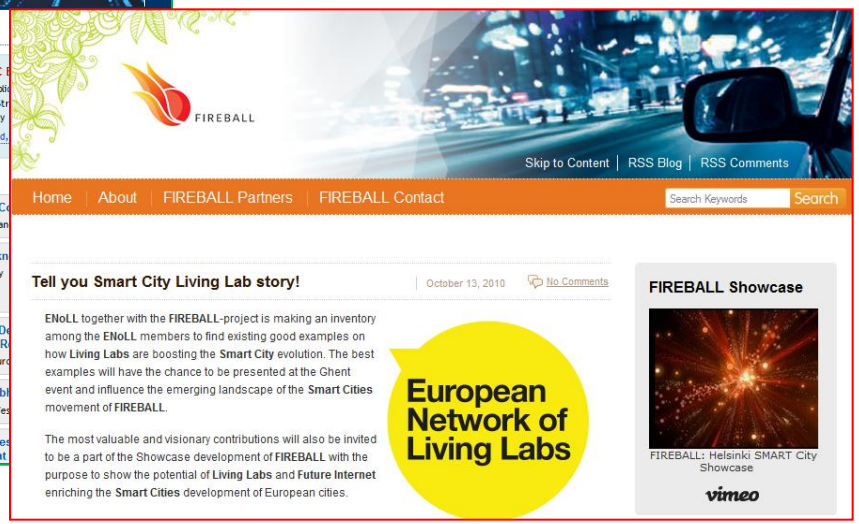
Projects: OnLine Innovation (ONLI); Digital Research Centre; Digital Corfu; Digital Aegean; Open Digital City Platform; FIREBALL, PEOPLE, INTERVALUE



Activities in the field of intelligent cities:
(1) Projects on Digital / Intelligent / Smart cities







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

Home | Strategic Intelligence | Technology Dissemination | Collaborative Innovation | New Company Incubation | Virtual Tour & e-Market

Intelligent City Platforms

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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.

Intelligent City Platforms

- **Strategic intelligence**, allowing to gather, analyze and disseminate information about technologies, markets, and competitors;
- **Technology dissemination**, allowing to acquire and adapt existing knowledge;
- **Collaborative innovation**, for creating networks of product design and new product development;
- **New company creation**; and
- **Online marketing** of products, promotion and delivery of services.

Strategic intelligence

Technology Dissemination

Collaborative Innovation

New Company Incubation

Virtual Tour & e-Market

(3) Global watch on intelligent cities

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Intelligent Cities & Globalisation of Innovation Networks

Intelligent Cities & Globalisation of Innovation Networks

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Intelligent City Platforms

On-line Tools

- Benchmarking
- Digital Research Centre
- Applications & Tools for IntelCities
- Virtual Innovation Environment

Projects

Digital / Smart / Intelligent Cities

- FIREBALL
- PEOPLE
- DIGITAL CITY PLATFORM
- DIGITAL AEGEAN
- DIGITAL CORFU
- VERITE

Watch: Intelligent Cities – Smart Cities – Innovation Ecosystems

Special Issue: Creating Smart-er Cities

The Journal of Urban Technology (Taylor & Francis) published the Special Issue "Creating Smart-er Cities" edited by Sam Allwinkle and Peter Cruickshank. The issue includes an Editorial that reviews the policy debate on smart cities and five papers that highlight the major challenges cities face attempting to become "smart."

Continue reading...

Posted at 15 September 2011 in Digital Cities / Smart Cities, Intelligent Cities

Internet of Things: Top 100 Thinkers

PostScapes – Tracking the Internet of Things, an initiative focusing on the convergence of the physical world with the digital, has compiled Continue reading...

Posted at 10 September 2011 in Digital Cities / Smart Cities

Intelligent Cities, CIT 2011

The 11th IEEE International Conference on Computer and Information Technology (CIT 2011, Paphos, Cyprus, August 31 – September 2) which just has been concluded offered a full program over three days and included a keynote speech on Intelligent cities: "A Smart World: A Development Model for Intelligent Cities" by Dr Azamat Abdoullaev, EIS Encyclopedic Intelligent Systems. Continue reading...

Posted at 4 September 2011 in Intelligent Cities

Lift videos about smart / future cities

Lift website published videos from Lift France 11 conference. The event was about current and emerging use of digital technologies and their effects on innovation,

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- Innovativ
- Strategic
- Technolo
- Collabora
- Innovatic
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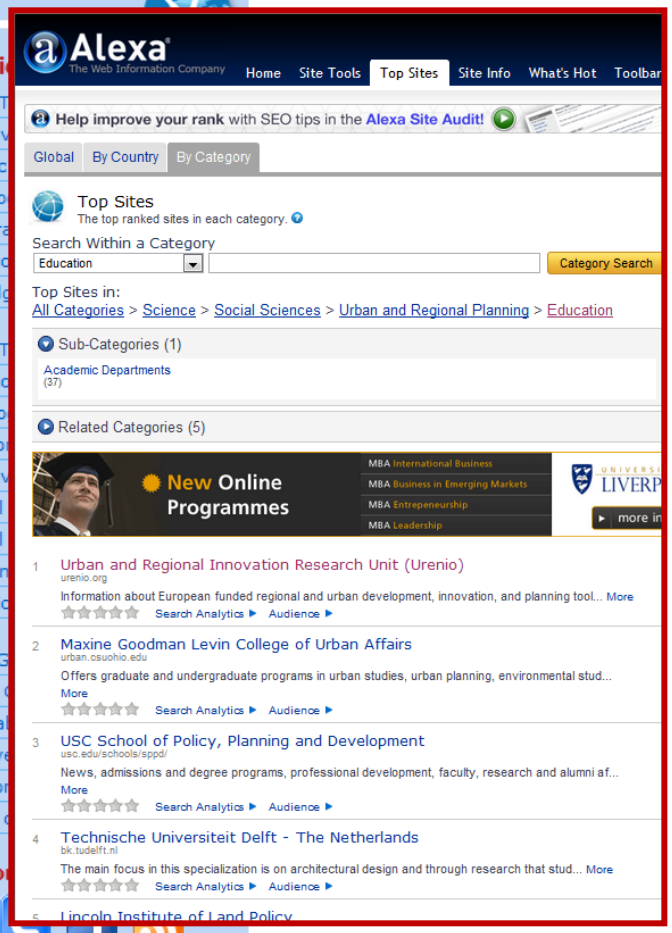

(4) Postgraduate: “Intelligent cities and systems of innovation”

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Χώρος υποστήριξης της Εκπαιδευτικής Διαδικασίας

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Προπτυχιακά Μαθήματα

- Θεωρίες της Αστικότητας
- Μαθησιακές Περιφέρειες
- Πόλεις Τεχνολογίας
- Ψηφιακές Πόλεις

Ψηφιακό Περιβάλλον Καινοτομίας

- Benchmarking
- Ψηφιακό Κέντρο Έρευνας
- Ψηφιακά Εργαλεία Συνεργασίας
- Εικονικός Χώρος Καινοτομίας

Virtual Innovation Environment

Πλατφόρμες URENIO για Ευφυείς Πόλεις

Ευφυείς Πόλεις: Μεταπτυχιακό Σεμινάριο Διδακτορικών

Υπηρεσίες πληροφόρησης για την ποιότητα ζωής, μέσω συμμετοχικής περιβαλλοντικής παρακολούθησης, σε ψηφιακές πόλεις ανθρωποκεντρικής ευφυΐας

Διάλεξη του Κ. Καρατζά, Επ. Καθηγητή του τμήματος Μηχανολόγων Μηχ/κών του ΑΠΘ, στις 23 Απριλίου 2010 για τους τρόπους με τους οποίους οι πολίτες μπορούν να αντιληφθούν και να συμμετάσχουν στην πληροφόρηση σχετικά με την ποιότητα ζωής τους και πώς αυτή δομείται: "Υπηρεσίες πληροφόρησης για την ποιότητα ζωής, μέσω συμμετοχικής περιβαλλοντικής παρακολούθησης, σε ψηφιακές πόλεις ανθρωποκεντρικής ευφυΐας"

Posted at 20 May 2010 in Διαλέξεις

Το Μέλλον της Μεταποίησης στη Θεσσαλονίκη

Ο Οργανισμός Ρυθμιστικού Σχεδίου και Προστασίας Περιβάλλοντος Θεσσαλονίκης πραγματοποιεί την Τετάρτη 21 Οκτωβρίου 2009 και ώρα 18.00 εκδήλωση στο Εμπορικό και Βιομηχανικό Επιμελητήριο Θεσσαλονίκης για την παρουσίαση του ερευνητικού έργου "**Το Μέλλον της Βιομηχανίας στη Θεσσαλονίκη**" Συνέχεια...

Posted at 21 October 2009 in Ανακοινώσεις Προπτυχιακών & Μεταπτυχιακού

Διαλέξεις 2009

Νεώτερες εξελίξεις στο πεδίο των ευφυών πόλεων (20 Φεβρουαρίου 2009). Θα συζητηθούν θέματα σχετικά με την οργάνωση διευρυμένων συστημάτων καινοτομίας, με τοπικούς πυρήνες και παγκόσμια δίκτυα, και οριοθέτησης του λογισμικού / ψηφιακών εφαρμογών υποστήριξής τους.

Posted at 26 February 2009 in Διαλέξεις

Διαλέξεις 2007-2008

ΕΥΦΥΕΙΣ ΠΟΛΕΙΣ: ΣΥΣΤΗΜΑΤΑ ΚΑΙ ΠΕΡΙΒΑΛΛΟΝ ΚΑΙΝΟΤΟΜΙΑΣ

Όλα τα pdf των διαλέξεων του μεταπτυχιακού προγράμματος κατά

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- Περιγραφή μεταπτυχιακού
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- Διαλέξεις
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International Journal of Innovation and Regional Development

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(4) Spin off company: INTELSPACE SA

intelspace innovation technologies

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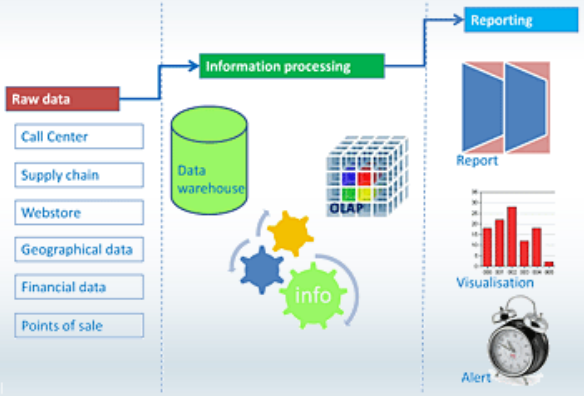
Strategic Intelligence

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.

INTELSPACE Solutions



About INTELSPACE S.A.

INTELSPACE offers consulting services and software development in the fields 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 operate within companies, research institutes, incubators, technology parks, clusters, and other innovative agglomerations. 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 marketplaces and digital cities for product marketing and promotion.

Latest news from URENIO Portal

- Made on the Web, designed by us
- 2010 Young Innovators Under 35
- Reinventing the City to Combat Climate Change
- Portland EcoDistricts Initiative
- Oracle's Solution for Smart Cities
- Building Smarter Cities
- Video: Smart Amsterdam
- PlanIT Valley: An Intelligent City in Portugal
- Hybrid Innovation Ecosystems
- Venture Capital crisis

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(5) Publications

Routledge
Taylor & Francis Group

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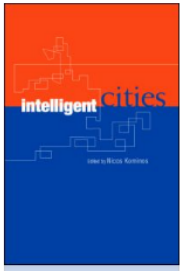
Intelligent Cities

Innovation, Knowledge Systems and Digital Spaces



By **Nicos Komninos**

Price: £34.99
Binding/Format: Paperback
ISBN: 978-0-415-27718-1
Publish Date: 4th April 2002
Imprint: Routledge
Pages: 320 pages

SHARE

Description | Contents | Author Bio | Subjects

At the turn of the century some cities and regions in Europe, Japan and the USA, displayed an exceptional capacity to incubate and develop new knowledge and innovations. The favourable environment for research, technology and innovation created in these areas was not immediately obvious, yet it was of great
Intelligent Cities focuses on

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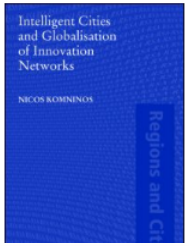
Intelligent Cities and Globalisation of Innovation Networks



By **Nicos Komninos**

Price: £31.99
Binding/Format: Paperback
ISBN: 978-0-415-45592-3
Publish Date: 17th July 2008
Imprint: Routledge
Pages: 308 pages

SHARE

Description | Contents | Author Bio | Subjects

Intelligent Cities and Globalisation of Innovation Networks combi
fields of urban development and planning, innovation managemen
It explains the rise of intelligent cities with respect to the globalis
the connect
mmunity; a

International Journal of Innovation and Regional Development (IJIRD)

Volume 1 - Issue 4 - 2009

Special Issue on Intelligent Clusters, Communities and Cities: Enhancing Innovation with Virtual Environments and Embedded Systems
Guest Editor: Prof. Nicos Komninos

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Pages	Title and authors
337 - 355	Intelligent cities: towards interactive and global innovation environments *Nicos Komninos* **DOI:** 10.1504/IJIRD.2009.022726
356 - 370	Living Lab: an open and citizen-centric approach for innovation *Birgitta Bergvall-Kareborn, Anna Stahlbrost* **DOI:** 10.1504/IJIRD.2009.022727
371 - 386	Creative urban regeneration: the case of innovation hubs *Ines Vilhena Da Cunha, Catarina Selada* **DOI:** 10.1504/IJIRD.2009.022728
387 - 404	Collaborative innovation networks, virtual communities and geographical clustering *Marco De Maggio, Peter A. Gloor, Giuseppina Passiante* **DOI:** 10.1504/IJIRD.2009.022729
405 - 422	Enabling the smart city: the progress of city e-governance in Europe *Krassimira Antonova Paskaleva* **DOI:** 10.1504/IJIRD.2009.022730
423 - 442	Local e-governance applications in support of entrepreneurship policy: the case of Thessaloniki metropolitan area *Christina Kakderi, Artemios Kourtesis* **DOI:** 10.1504/IJIRD.2009.022731
443 - 463	Are digital cities intelligent? The Portuguese case *Barbara Barbosa Neves* **DOI:** 10.1504/IJIRD.2009.022732
464 - 483	Urban u-community: a new dimension of urban development *Ari-Veikko Anttiroiko*

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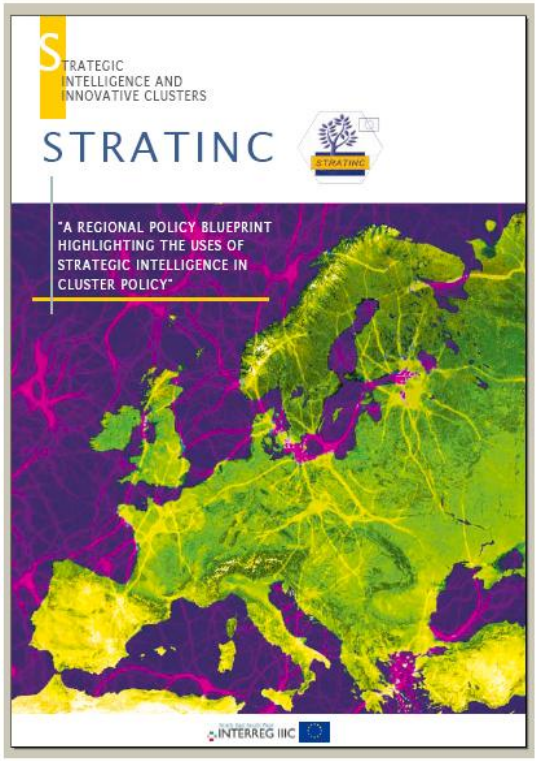

People

The permanent staff of URENIO is 20 people + external contract research

Qualifications of the permanent staff cover:

- Urban and regional planning
- Electrical and electronic engineering
- Civil engineering
- Information technology
- Sociology and economics
- Applied mathematics and statistics