

Ευφυείς Πόλεις

Ένα νέο παράδειγμα
ανάπτυξης και σχεδιασμού των πόλεων

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Μεταπτυχιακό Σεμινάριο Διδακτορικών
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I. Ευφυείς πόλεις: Η μεταφορά ενός concept στο πεδίο των πόλεων

II. Προσεγγίσεις: Αφετηρίες του νέου παραδείγματος

III. Ευφυείς πόλεις και συστήματα καινοτομίας: Ερευνητική προσέγγιση στο URENIO

I. Ευφυείς πόλεις: η μεταφορά ενός concept

- Ευφυΐα προσδιορίζεται από ένα συνδυασμό ικανοτήτων (1) αντίληψης (πρόσληψης και επεξεργασίας αισθητής πληροφορίας), (2) επικοινωνίας (ανταλλαγής πληροφορίας), (3) μάθησης και μνήμης (αποθήκευσης και αναπαράστασης πληροφορίας), (4) προγραμματισμού και ανάδρασης (διατύπωσης στόχων και αξιολόγησης προόδου) (Beckman 2004).
- Ανθρώπινη ευφυΐα ως μέτρο και πρότυπο κάθε ευφυΐας.
- Άλλες ευφυΐες.
- Τεχνητή: (AI) is "the study and design of intelligent agents" where an intelligent agent is a system that perceives its environment and takes actions which maximizes its chances of success. John McCarthy, who coined the term in 1956, defines it as "the science and engineering of making intelligent machines."
- Συλλογική: 'the capacity of human communities to co-operate intellectually in creation, innovation and invention'; 'the collective learning and creative process realized through exchanges of knowledge and intellectual creativity'; 'the sharing of knowledge, know-how and experience in order to generate a higher individual and collective benefit than if they remained alone; 'the co-operation to solve more complex problems than individuals can';

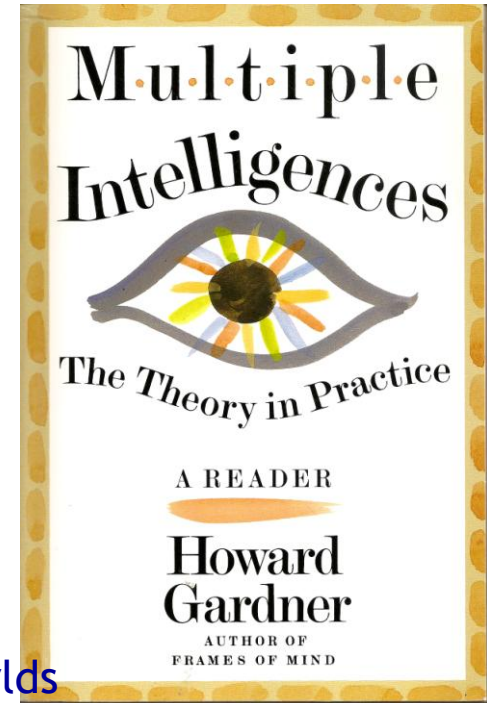
I. Ευφυείς πόλεις: η μεταφορά ενός concept

Πολλαπλές ευφυΐες

‘Multiple intelligences to stress an unknown number of separate human capacities, ranging from musical intelligence to the intelligence in understanding oneself’

Different and discrete facets of cognition and ability.

- Logical - mathematical intelligence: logical and mathematical ability, scientific ability
- Linguistic intelligence is the kind of ability dealing with the production and mastering of language
- Spatial: ability to form / operate mental models of spatial worlds
- Musical: even though musical skills are not considered intellectual skills
- Bodily: solve problems or fashion products using one’s body or parts of the body
- Interpersonal: ability to understands other people
- Intrapersonal: capacity to form an accurate model of oneself and use it effect.



I. Ευφυείς πόλεις: η μεταφορά ενός concept

- Γνώση (cognition) ως ουσιαστικό συστατικό της ευφυΐας.
- Επίλυση προβλημάτων ως ουσιαστικό συστατικό της 'Ε'.
- Η καινοτομία ως ουσιαστικό συστατικό της 'Ε':
'Intelligence bears on doing something one has never done before..... intelligence is what you use when you don't know what to do. This captures the element of novelty, the coping and groping ability needed when there is no 'right' answer, when business as usual isn't likely to suffice' (Calvin, W. H. (1998) *How Brains Think. Evolving Intelligence, Then and Now*)
- Ολοκλήρωση / συνδυασμός διαφορετικών ικανοτήτων ως ουσιαστικό συστατικό της 'Ε'.

I. Ευφυείς πόλεις: η μεταφορά ενός concept

Η μεταφορά του concept στο πεδίο των πόλεων σηματοδοτεί την επίδραση των δύο σημαντικότερων επιστημονικών παραδειγμάτων της εποχής μας: την προσέγγιση της θεωρίας ανάπτυξης και σχεδιασμού των πόλεων στις ΤΠΕ και την αναβίωση του βιολογικού παραδείγματος (η πόλη ως ζωντανός οργανισμός).


‘Ευφυής πόλη’ ως μεταφορά
● Cyber cities / Smart cities.

‘Ευφυής πόλη’ ως κυριολεξία, αλλά για ευφυΐα μηχανής
● Intelligent environments.

‘Ευφυής πόλη’ ως κυριολεξία, αλλά
● συνυπολογίζοντας την ευφυΐα των ανθρώπων της πόλης, της συνεργασίας τους (συλλογική), και των μηχανών της πόλης (τεχνητή).

Από το 1995 και μετά, μια πληθώρα προσεγγίσεων αναπτύσσονται στις κατευθύνσεις αυτές.

I. Ευφυείς πόλεις: η μεταφορά ενός concept




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"spread the knowledge to every corner of the world!" – Anon.

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Intelligent cities

From Wikipedia, the free encyclopedia

The term **intelligent city (IC)** has been used with various meanings. At least five different descriptions of what an intelligent city is can be found in the literature:

- ICs have been frequently defined as **virtual** reconstructions of **cities**, as **virtual cities** (Droege, 1997).^[1] The term has been used interchangeably as an equivalent of 'digital city', 'information city', 'wired city', 'telecity', 'knowledge-based city', 'electronic communities', 'electronic community spaces', 'flexicity', 'teletopia', 'cyberville', covering a wide range of electronic and digital applications related to digital spaces of communities and cities (MIMOS).
- Another meaning was given by the World Foundation for Smart Communities, which links digital cities with smart growth, a development based on information and communication technologies. 'A Smart Community is a community that has made a conscious effort to use information technology to transform life and work within its region in significant and fundamental, rather than incremental, ways' (California Institute for Smart Communities, 2001).^[2]
- ICs are defined as **intelligent environments** with embedded information and communication technologies creating interactive spaces that bring computation into the physical world. From this perspective, intelligent cities (or intelligent spaces more generally) refer to physical environments in which information and communication technologies and sensor systems disappear as they become embedded into physical objects and the surroundings in which we live, travel, and work (Steventon and Wright, 2006).^[3]
- Intelligent cities are also defined as territories that bring innovation systems and ICTs within the same locality. The **Intelligent Community Forum** (2006)^[4] has developed a list of indicators that provide a framework for understanding how communities and regions can gain a competitive edge in today's Broadband Economy. Being an IC it takes a combination of: (1) significant deployment of **broadband communications** to businesses, government facilities and residences; (2) effective education, training and workforce able to perform **knowledge work**; (3) policies and programs that promote **digital democracy** by bridging the **digital divide** to ensure that all sectors of the society and citizens benefit from the broadband revolution; (4) **innovation** in the public and private sectors and efforts to create economic clusters and risk capital to fund the development of new businesses; and (5) effective economic development marketing that leverages the community's broadband to attract talented employment and investments.
- Along the same line, intelligent cities (communities, **clusters**, regions) are those territories characterized by high capacity for learning and innovation, which is built-in the creativity of their population, their institutions of knowledge creation, and their digital infrastructure for communication and **knowledge management**. The distinctive characteristic of intelligent cities is the increased performance in the field of innovation, because innovation and solving of new problems are distinctive features of intelligence (komninos 2002^[5] and 2006^[6]).

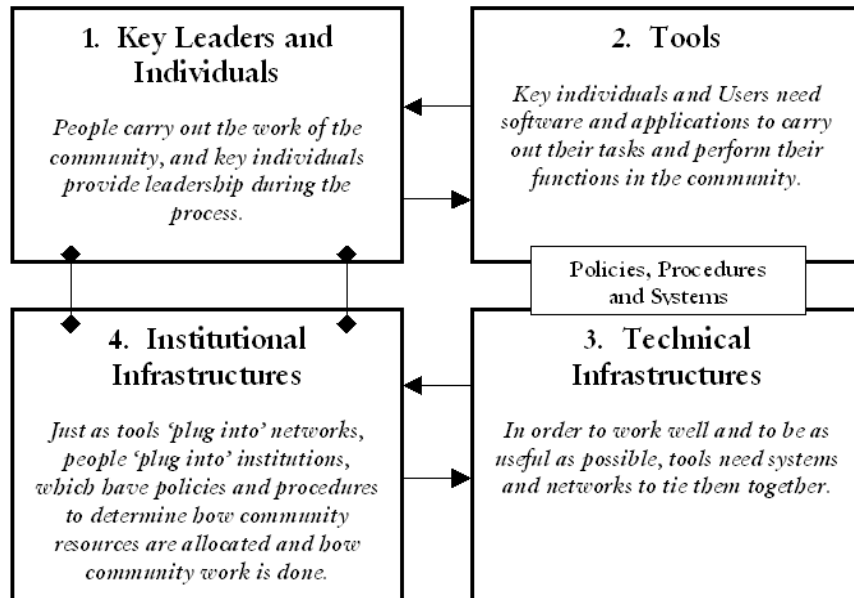
The three dimensions of intelligent cities

[edit]

II. Προσεγγίσεις -1

Smart Communities

Ψηφιακός Χώρος



SMART COMMUNITIES

ABOUT | EVENTS | RESEARCH | LIBRARY | LINKS

The World Foundation for Smart Communities
 Linking local communities to the Global Information Economy

Welcome to Smart Communities

The World Foundation for Smart Communities is a nonprofit educational organization founded to promote the concept and facilitate the implementation of "smart communities" -- communities using information technology as a catalyst for transforming life and work to meet the challenge of the new millennium. Learn more about the [Foundation](#).

Featured Articles

Smart Growth and the Urban Future by John M. Eger

"This growing concern with urban sprawl, coupled with the nostalgic yearning which the New Urbanism movement represents, are evidence of sweeping changes in public attitude toward physical space..."

Cyberpace and Cyberplace by John M. Eger

"Until flesh-and-blood human beings can be digitized into electronic pulses in the same way in which computer scientists have transformed data and images, the denizens of cyberspace will have to live DR (In real life)...a very real, physical place called 'cyberplace.'" [Read more](#).

Online Library Articles, Speeches and Papers relevant to Smart Communities

The Smart Communities Guidebook demonstrates how California's communities can thrive in the digital age.

The Smart Communities Implementation Guidebook discusses how an area can start the process of becoming a Smart Community.

Learn about related sites and organizations in our [Links section](#).

Sign up for Smart Communities' s Announcement Mail list info@smcmmunities.org

II. Προσεγγίσεις -2

Intelligent Communities



The Top Seven Intelligent Communities of 2005

Selected by the Intelligent Community Forum
www.intelligentcommunity.org

1. Significant deployment of **broadband communications** to businesses, government facilities and residence of a community.
2. Government and private-sector programs that promote **digital democracy** by bridging the Digital Divide.
3. Effective economic development marketing that leverages the **community's broadband to attract** new employers.
4. Effective education, training and workforce development that builds a labor force able to perform "**knowledge work.**"
5. **Innovation** in the public and private sectors, ranging from e-government initiatives and efforts to create economic "clusters".

II. Προσεγγίσεις -2

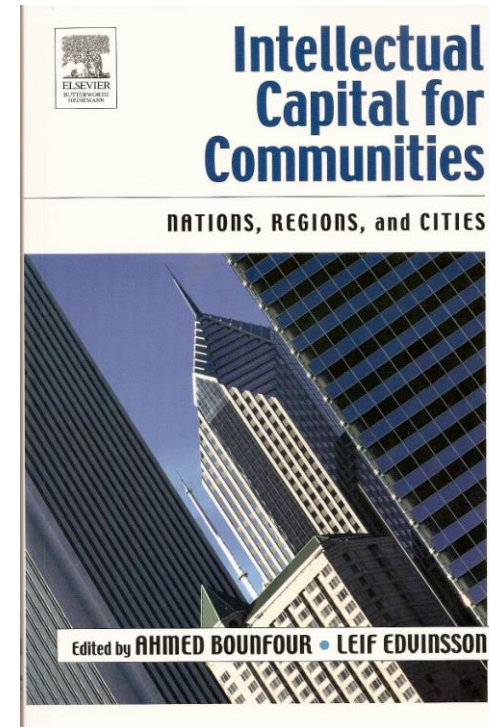
Intelligent Communities - Seven top 2001-2007

	Asia - Australia (11)	Americas (12)	Europe (7)
2001	<ul style="list-style-type: none">■ Bario, Malaysia■ Singapore (4,42M)	<ul style="list-style-type: none">■ LaGrange, Georgia, USA (26K)■ Nevada, Missouri, USA (8,6K)■ New York, USA (8,10M)	<ul style="list-style-type: none">■ Ennis, Ireland (21K)■ Sunderland, UK (283K)
2002	<ul style="list-style-type: none">■ Bangalore, India (6,00M)■ Seoul, S. Korea (10,30M)	<ul style="list-style-type: none">■ Calgary, Alberta, CA (900K)■ Florida, high tech corridor, USA (5,38M)	
2003-04	<ul style="list-style-type: none">■ Taipei, Taiwan (2,60M)■ Victoria, Australia (4,70M)■ Yokosuka, Japan (430K)	<ul style="list-style-type: none">■ Spokane, Washington, USA (196K)■ Western Valley, Nova Scotia, CA (21K)	<ul style="list-style-type: none">■ Glasgow, UK (660K)
2005	<ul style="list-style-type: none">■ Mitaka, Japan (173K)■ Tianjin, China (11,00M)	<ul style="list-style-type: none">■ Pirai, Brazil (23K)■ Toronto, Ontario, CA (2,48M)	<ul style="list-style-type: none">■ Issy-les-Moulineux, FR (62K)
2006	<ul style="list-style-type: none">■ Gangnam District Seoul (547K)■ Ichikawa, Japan (466K)	<ul style="list-style-type: none">■ Cleveland, Ohio USA (4,10M)■ Waterloo, Ontario, CA (115K)	<ul style="list-style-type: none">■ Manchester, UK (430K)
2007		<ul style="list-style-type: none">■ Ottawa-Gatineau, Ontario-Quebec, CA (1,15M)	<ul style="list-style-type: none">■ Dundee, Scotland, UK (142K)■ Tallin, Estonia (401K)

II. Προσεγγίσεις -3

Διανοητικό κεφάλαιο για κοινότητες, πόλεις, περιφέρειες

- ‘Intangible or intellectual capital resources are now largely recognized as the most important competitive advantage’.
- Corporate level: ‘Intangible investments (R&D, innovation, knowledge creation, marketing, advertising) are the most important sources of performance’.
- Community level: Ragusa (1301-1806): A city of intelligence - Social intelligence / political + institutional / organised
- Measuring, accounting IC
- Cultivating / nourishing

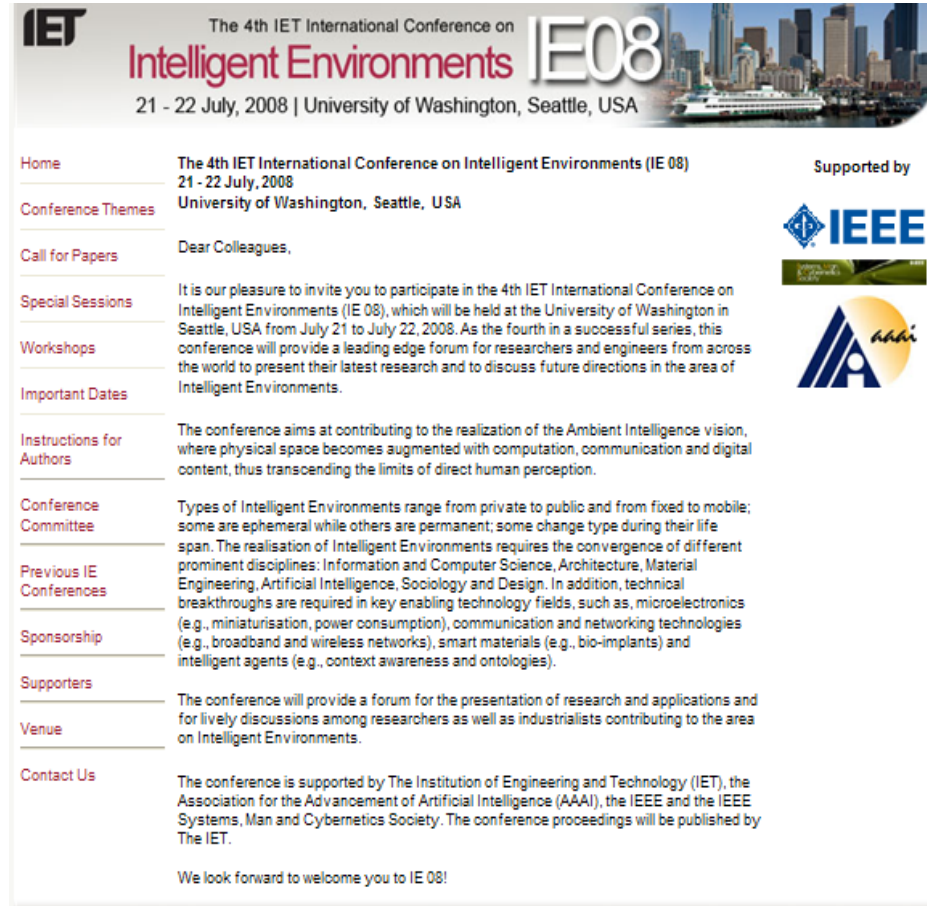


II. Προσεγγίσεις - 4

Intelligent Environments: IE06, IE07, IE08


“Types of Intelligent Environments range from private to public and from fixed to mobile; some are ephemeral while others are permanent; some change type during their life span. The realisation of Intelligent Environments requires the convergence of different prominent disciplines: Information and Computer Science, Architecture, Material Engineering, Artificial Intelligence, Sociology and Design.

In addition, technical breakthroughs are required in key enabling technology fields, such as, microelectronics (e.g., miniaturisation, power consumption), communication and networking technologies (e.g., broadband and wireless networks), smart materials (e.g., bio-implants) and intelligent agents (e.g., context awareness and ontologies)” (IE 08).



The screenshot shows the homepage of the 4th IET International Conference on Intelligent Environments (IE08). The header features the IET logo, the conference title "Intelligent Environments IE08", and the dates "21 - 22 July, 2008 | University of Washington, Seattle, USA" against a cityscape background. A navigation menu on the left lists: Home, Conference Themes, Call for Papers, Special Sessions, Workshops, Important Dates, Instructions for Authors, Conference Committee, Previous IE Conferences, Sponsorship, Supporters, Venue, and Contact Us. The main content area contains a "Dear Colleagues" message and detailed information about the conference's goals, themes, and sponsors. The sponsors listed are IET, IEEE, and AAAI.

IET The 4th IET International Conference on **Intelligent Environments IE08**
21 - 22 July, 2008 | University of Washington, Seattle, USA

Supported by



Home The 4th IET International Conference on Intelligent Environments (IE 08)
21 - 22 July, 2008
University of Washington, Seattle, USA

Conference Themes

Call for Papers Dear Colleagues,

Special Sessions It is our pleasure to invite you to participate in the 4th IET International Conference on Intelligent Environments (IE 08), which will be held at the University of Washington in Seattle, USA from July 21 to July 22, 2008. As the fourth in a successful series, this conference will provide a leading edge forum for researchers and engineers from across the world to present their latest research and to discuss future directions in the area of Intelligent Environments.

Workshops

Important Dates

Instructions for Authors The conference aims at contributing to the realization of the Ambient Intelligence vision, where physical space becomes augmented with computation, communication and digital content, thus transcending the limits of direct human perception.

Conference Committee Types of Intelligent Environments range from private to public and from fixed to mobile; some are ephemeral while others are permanent; some change type during their life span. The realisation of Intelligent Environments requires the convergence of different prominent disciplines: Information and Computer Science, Architecture, Material Engineering, Artificial Intelligence, Sociology and Design. In addition, technical breakthroughs are required in key enabling technology fields, such as, microelectronics (e.g., miniaturisation, power consumption), communication and networking technologies (e.g., broadband and wireless networks), smart materials (e.g., bio-implants) and intelligent agents (e.g., context awareness and ontologies).

Previous IE Conferences

Sponsorship

Supporters The conference will provide a forum for the presentation of research and applications and for lively discussions among researchers as well as industrialists contributing to the area on Intelligent Environments.

Venue

Contact Us The conference is supported by The Institution of Engineering and Technology (IET), the Association for the Advancement of Artificial Intelligence (AAAI), the IEEE and the IEEE Systems, Man and Cybernetics Society. The conference proceedings will be published by The IET.

We look forward to welcome you to IE 08!

II. Προσεγγίσεις - 5

Smart cities

Smart Cities

Mobility

Public Space

Prototyping & Fabrication

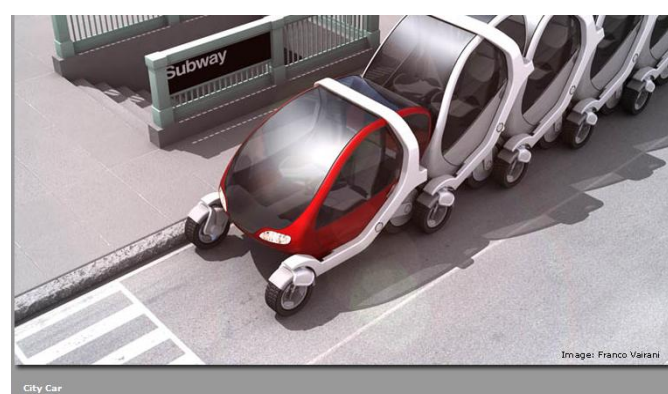
Group Information

[Welcome from Prof. Mitchell!](#) | [Project List](#) | [People](#) | [Links](#) | [Contact](#) | [Press Information](#) | [Publications](#) | [Credits](#)



II. Προσεγγίσεις - 5

Smart cities - Πειραματικά σχέδια σε στοιχεία της πόλης



II. Προσεγγίσεις - 6

Living Labs: Η πόλη ως ζωντανό εργαστήριο καινοτομίας

The screenshot shows a Windows Internet Explorer browser window displaying the Living Labs Europe website. The address bar shows the URL <http://www.livinglabs-europe.com/livinglabs.asp>. The browser's search bar contains the word "Google". The website's navigation menu includes: Welcome, + What are Living Labs?, mWatch Europe 2006, mClusters, InJection, MIKE, About Interlace-Invent, Contact Us, Press Room, Living Labs Europe Blog, Barcelona, Bodensee, Budapest, Catalunya, Copenhagen, Helsinki, Istanbul, London, Lund, Malmö, Matarç, Ψresund, and Oslo.

The main content area features the "living labs europe" logo and a navigation menu. The central text reads: **Living Labs Europe - a new driver for European innovation**. It states: "Living Labs Europe opens up the potentials of innovative mobile applications and technologies to European citizens, companies, researchers and investors for the purpose of pioneering mobile applications for European end-users and markets, enhance Attractiveness for visitors, residents, business and to provide a European platform for collaboration and opening innovative markets."

Below this, it says: "Across Europe, cities and regions gain comparative advantages by swiftly advancing their infrastructure for transportation and telecommunications. Cities that become nodes in cross-border networks attract business firms and investors, tourists and other visitors. More and more, 'hub cities' are becoming significant transaction points for global flows of goods, services, people and – ideas. They

Infrastructures of all kinds are improved and extended; public policies are up-dated to complement firm-specific assets; clusters of competencies are maintained and advanced by applied research and experimental development, education and training; cross-border linkages are utilized to renew and enforce trade and international networks of production to the benefit of the regional economy.

Currently, within the emerging knowledge-based economy, the most successful European regions or city-areas seem to be those that operate as if they were full-scale urban laboratories or regional proving grounds for prototyping and testing new technology application and new methods of generating and fostering innovation processes in real time.

These city-regions, and the firms located in them, seem to be actively

On the right side, there is a "Download" section with a link to "Living Labs Folder.pdf".

III. Ευφυείς πόλεις και συστήματα καινοτομίας

Οπτική URENIO: Ευφυής πόλη

- ✿ Είναι περιβάλλον γνώσεων και καινοτομίας: Περιβάλλον που βελτιώνει τις γνωστικές ικανότητες, τη δημιουργικότητα, τη πιθανότητα καινοτομίας. Εξωτερικό περιβάλλον = συνεργασία + εξωτερικές οικονομίες + σύνθεση παραγωγής-κατανάλωσης + διακυβέρνηση: ΑΝΑΔΥΟΜΕΝΟ ΠΕΡΙΒΑΛΛΟΝ - ΠΡΟΣΘΕΤΙΚΗ ΑΝΑΠΤΥΞΗ
- ✿ Είναι μορφή συστήματος καινοτομίας. Μια 'Τρίτη' γενιά συστήματος καινοτομίας, μετά το 'cluster' και το 'περιφερειακό σύστημα καινοτομίας'. ΣΥΝΕΧΗΣ ΧΩΡΙΚΗ ΔΙΕΥΡΥΝΣΗ ΣΥΣΤΗΜΑΤΩΝ ΚΑΙΝΟΤΟΜΙΑΣ

Ο όρος χρησιμοποιείται για να χαρακτηρίσουμε περιοχές (πόλεις, περιφέρειες, συνοικίες πόλεων, clusters) στις οποίες το τοπικό σύστημα καινοτομίας υποστηρίζεται και αναβαθμίζεται μέσω ψηφιακών δικτύων και εφαρμογών: Με χρήση ΤΠΕ το ΣΚ αποκτά μεγαλύτερο βάθος και εμβέλεια, ενώ οι λειτουργίες του τυποποιούνται. Η πόλη κερδίζει σε ικανότητα καινοτομίας, που μεταφράζεται σε ανταγωνιστικότητα και διεθνή παρουσία.

III. Ευφυείς πόλεις και συστήματα καινοτομίας

Δύο βασικές συνιστώσες των ευφυών πόλεων είναι:

☀ Το **σύστημα καινοτομίας** (τοπικό / περιφερειακό), το οποίο καθοδηγεί την ανάπτυξη γνώσεων και τεχνολογιών στους οργανισμούς της περιοχής (επιχειρήσεις, πανεπιστήμια, τεχνολογικά κέντρα, θερμοκοιτίδες, κ.α.), και

☀ Οι **ψηφιακές εφαρμογές διαχείρισης πληροφορίας και γνώσεων**, που διευκολύνουν συγκέντρωση πληροφορίας, την επικοινωνία, τη λήψη αποφάσεων, τη μεταφορά και εφαρμογή τεχνολογιών, τη συνεργασία στην καινοτομία.

The screenshot displays the NewVentureTools.net website, which is supported by the EU. The main navigation bar includes links for Home, ONL Project, Network, Training, and Forum. Below the navigation bar, there are several tool categories:

- Technology Watch:** Easy and fast access to research results and technology information, increasing the potential of successful innovation. (Details)
- Technology Assessment:** Facilitate decision makers of your company to improve the process of choosing technologies through Cost Benefit Analysis (CBA) tool, which provides means for systematic comparing the value of outcomes with the value of resources required for achieving the outcomes. (Details)
- Technology Audit:** Create your company's technology report in an easy to use and practical way. Technology leads socio-economic development. Every organization uses technology in order to achieve its goals, while its dependence on technology is related to the nature of its activities. (Details)
- Networking:** Enables the communication / cooperation in groups facilitating Transfer of Technology within clusters and consortiums. (Details)
- Marketing Innovation:** Offers an implementation guide for successful introduction of innovative products in to the market. (Details)
- Financing Innovation:** Financing of Innovation Guide. A step by step guide focused on identifying sources of finance for your case and helping you to choose the appropriate ones and approaching the investors. (Details)
- Business Plan Tutorial:** A tutorial to introduce you to Business Plan Concept through a Basic approach and a Case Study. Here you can also find a Advanced approach with a more detailed structure that will be used in the "Business Plan Tool" section.
- Business Plan Tool:** A tool to help you to build your own Business Plan allowing you to fill in a blank document with your own business description and details and to integrate it with

At the bottom, there is a section titled "How to use NewVentureTools.net" which includes a "Discussion Forum" link and a brief description: "Share your experiences, problems and solutions with other SMEs users! Visit the NewVentureTools.net Discussion Forum".

Οι 6 προσεγγίσεις που αναφέρθηκαν μπορούν να θεωρηθούν ως εναλλακτικές μορφές του ίδιου παραδείγματος, που προκύπτουν από το διαφορετικό βάρος που αποδίδεται στις παραπάνω δύο συνιστώσες. Τα δύο άκρα: Intellectual capital - Intelligent environments

III. Ευφυείς πόλεις και συστήματα καινοτομίας

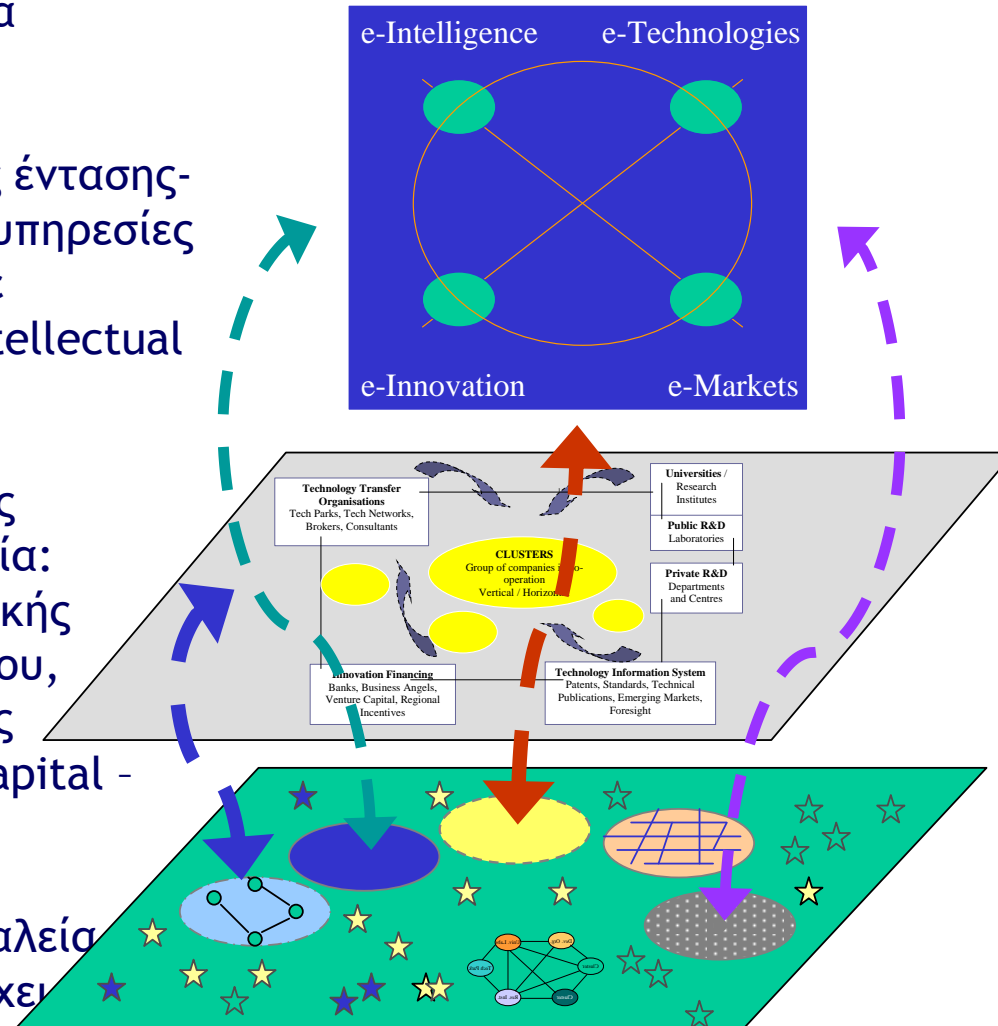
Τρία επίπεδα - τρεις μορφές ευφυΐας

Ένας άλλος τρόπος διατύπωσης της ίδιας ιδέας είναι ότι η ευφυής πόλη συντίθεται από τρία επίπεδα:

Επίπεδο I: Επίπεδο βάσης. Δραστηριότητες έντασης-γνώσεων της πόλης. Μεταποίηση και υπηρεσίες που (συνήθως) αυτό-οργανώνονται σε συστάδες και συνοικίες (clusters). (Intellectual capital - human intelligence)

Επίπεδο II: Θεσμικοί μηχανισμοί κοινωνικής συνεργασίας για μάθηση και καινοτομία: στρατηγικής πληροφόρησης, συγκριτικής αξιολόγησης, χρηματοδότησης κινδύνου, μεταφοράς τεχνολογίας, συνεργατικής ανάπτυξης νέων προϊόντων. (Social capital - collective intelligence)

Επίπεδο III: Περιλαμβάνει τα ψηφιακά εργαλεία εφαρμογές, ένα εικονικό περιβάλλον χειρισμού της πληροφορίας και των γνώσεων. (Agents, AI)



III. Ευφυείς πόλεις και συστήματα καινοτομίας

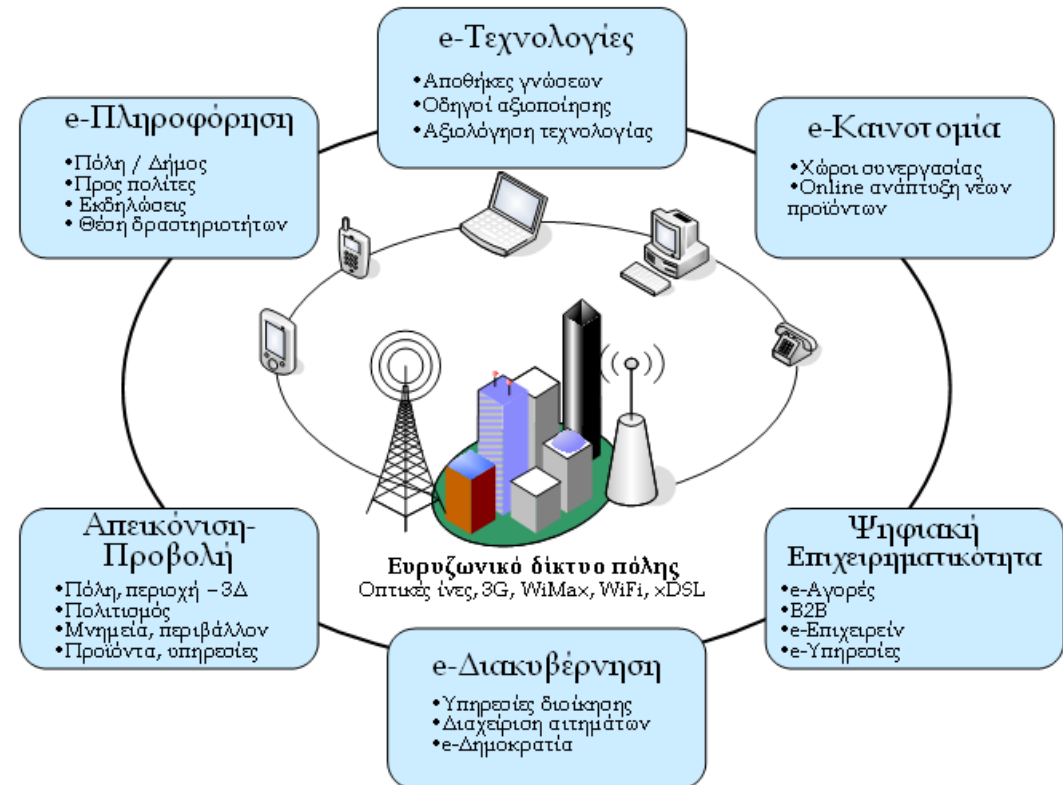
Το επίπεδο III, ως νέα προσθήκη, περιλαμβάνει εφαρμογές:

• Δικτύων / αισθητήρων

&

• Παροχής υπηρεσιών-Web

- Πληροφόρησης
- Επικοινωνίας
- Μάθησης
- Επίλυσης προβλημάτων



III. Ευφυείς πόλεις και συστήματα καινοτομίας

Πώς λειτουργεί αυτό το σύστημα 3ης γενιάς?

‘Αναζήτησε τη γνώση ακόμη και στην Κίνα’
(Προφήτης Μωάμεθ, στο T. Friedman, The World is Flat)

Το ψηφιακό περιβάλλον καινοτομίας προσθέτει δύο νέες ποιότητες στα συστήματα καινοτομίας τύπου clusters (Βασίζονται στην εγγύτητα) και μαθησιακών περιοχών (στηρίζονται σε θεσμούς δημιουργίας - αφομοίωσης γνώσεων):

- ✿ Μια ‘παγκόσμια διάσταση’, που επιτρέπει τη συνεργασία σε παγκόσμια κλίμακα, μεταξύ οργανισμών εγκατεστημένων στα τέσσερα σημεία του ορίζοντα, και
- ✿ Μια ‘ευφυή διάσταση’, που προκύπτει από τη χρήση ΤΠΕ και ανάπτυξη λειτουργιών γνώσεων βασισμένων στη συγκέντρωση, καταγραφή, αποθήκευση, αναζήτηση, αυτοματοποίηση της επεξεργασίας πληροφορίας.

III. Ευφυείς πόλεις και συστήματα καινοτομίας

Κατευθύνσεις έρευνας

Για κάθε ενότητα πόλης

- παραγωγικό cluster,
- βιομηχανική συνοικία,
- συνοικία υπηρεσιών,
- τεχνολογικό πάρκο / εκκολαπτήριο
- πανεπιστημιακό / ερευνητικό campus

να αναπτυχθούν λειτουργίες γνώσεων / ευφυΐας,

πάνω σε τοπικό ευρωζωνικό δίκτυο.

Αρχή | Στρατηγική Πληροφόρηση | Διάδοση Τεχνολογίας | Καινοτομία σε Συνεργασία | Νέα Επιχειρηματικότητα | Εικονική Περιήγηση & Αγορές

Πλατφόρμες Έξυπνης Πόλης

Οι έξυπνες πόλεις είναι **συστήματα καινοτομίας** που συνδυάζουν καινοτόμα clusters, φορείς έρευνας και τεχνολογίας, και ψηφιακούς χώρους καινοτομίας. Οι πλατφόρμες επιτρέπουν τη δημιουργία ψηφιακών χώρων οι οποίοι διευκολύνουν πέντε βασικές διαδικασίες καινοτομίας.

URENIO
URBAN & REGIONAL INNOVATION
Research Unit

Πλατφόρμες Έξυπνης Πόλης

- **Στρατηγική πληροφόρηση**, για τη συλλογή, ανάλυση και διάχυση πληροφοριών σχετικά με τεχνολογίες, αγορές, και ανταγωνιστές,
- **Διάδοση τεχνολογίας**, για την απόκτηση και προσαρμογή ήδη υπάρχουσας γνώσης,
- **Καινοτομία σε συνεργασία**, για τη δημιουργία δικτύων σχεδίασης προϊόντων και ανάπτυξης νέων προϊόντων,
- **Νέα Επιχειρηματικότητα**, και
- **Προώθηση και παραγωγή** προϊόντων και υπηρεσιών on-line.

Στρατηγική Πληροφόρηση

Διάδοση Τεχνολογίας

Καινοτομία σε Συνεργασία

Νέα Επιχειρηματικότητα

Εικονική Περιήγηση & Αγορές