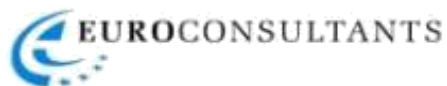




*Employing IASP
(International
Association of
Science Parks
and Areas
of Innovation
best practice
"smart
specialization
practices"
and 3S EU
practices) in
Planning new STPs*



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i4G Incubation Systems
IASP STP Planning Expert





IASP

International Association of Science Parks
and Areas of Innovation

IASP in a few slides

Linking the best since 1984

WHO WE ARE

The worldwide membership-based network of science and technology parks (STPs), areas of innovation (AOIs), innovation districts & hubs, knowledge-based incubation projects and the like

Members in **77 countries**, as well as contacts and associates in many more

An independent, non-profit, non-governmental organisation

MAIN FACTS AND FIGUR ES



Active since 1984 - **36 years** serving the innovation community



The only **global network** for Science Parks and Areas of Innovation

- 350 members
- 77 countries
- >115,000 companies
- 7 regional divisions
- 36 world conferences

COUNTRIES WITH IASP MEMBERS



77

Argentina, Austria, Azerbaijan, Barbados, Belarus, Belgium, Botswana, Brazil, Bulgaria, Canada, China, Chinese Taipei, Colombia, Croatia, Cuba, Denmark, Ecuador, Egypt, El Salvador, Estonia, Eswatini, Finland, France, Germany, Greece, Hungary, Iceland, India, Iran, Italy, Japan, Kenya, Kosovo, Latvia, Lithuania, Luxembourg, Malaysia, Mauritius, Mexico, Morocco, Namibia, the Netherlands, Nigeria, Oman, Pakistan, Palestine, Panama, Paraguay, Peru, Poland, Portugal, Qatar, Qazaqstan, Reunion, Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sudan, Sweden, Switzerland, Thailand, Turkey, Ukraine, United Arab Emirates, United Kingdom, United States of America, Uruguay, Uzbekistan, Venezuela, Vietnam

STRUCTURE AND ORGANISATION



OUR MEMB ERS

- ✓ Fully operative STPs, AOIs, innovation districts, and more
- ✓ Projects under development
- ✓ Innovation-based incubation projects
- ✓ Universities and R&D institutions
- ✓ Regional development agencies

IASP OFFICIAL DEFINITION OF SCIENCE PARK (STP):

A science park is an organisation **managed by specialised professionals**, whose main aim is to increase the wealth of its community by promoting the **culture of innovation** and the **competitiveness** of its associated businesses and knowledge-based institutions.

To enable these goals to be met, a science park stimulates and manages the **flow of knowledge** and technology amongst universities, R&D institutions, companies and markets; it facilitates the **creation** and growth of innovation-based **companies** through incubation and spin-off processes; and provides other **value-added services** together with **high quality⁸ space** and

IASP OFFICIAL DEFINITION OF AREA OF INNOVATION (AOI):

‘Areas of innovation’ are places **designed and curated** to attract **entrepreneurial-minded people, skilled talent, knowledge-intensive businesses and investments**, by developing and combining a set of infrastructural, institutional, scientific, technological, educational and social assets, together with value added services, thus enhancing **sustainable economic development** and prosperity **with and for** the community.

There are many different models of areas of innovation - spanning from the broader city or region model with innovation activities in different locations within the area, to more place specific projects like innovation districts, knowledge clusters, science parks, innovation hubs and the like. As a common



OUR MISSION

To be the **global** network for
science and technology parks
and other areas of
innovation, driving **growth**,
internationalisation and
effectiveness for our
members



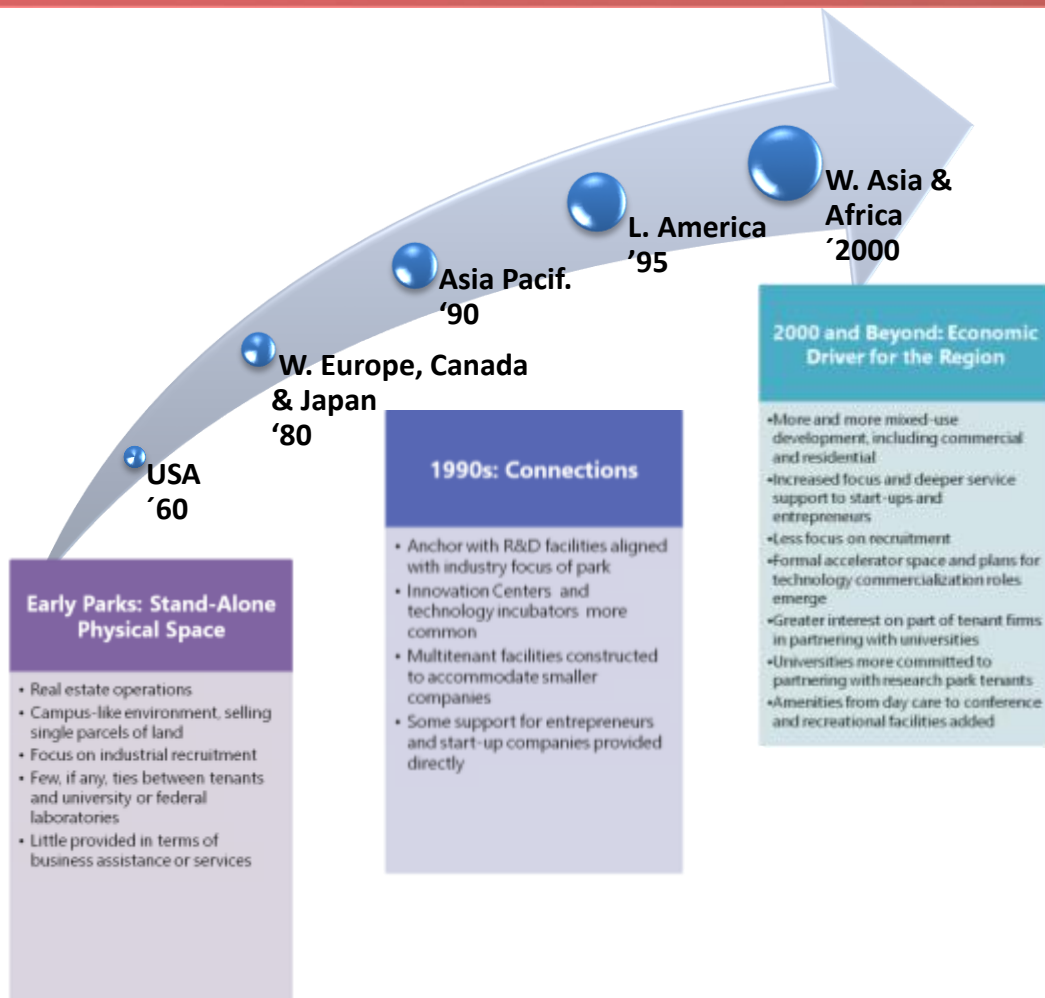
Biz!, not science or technology

*A network on its own +
a node of broader networks*

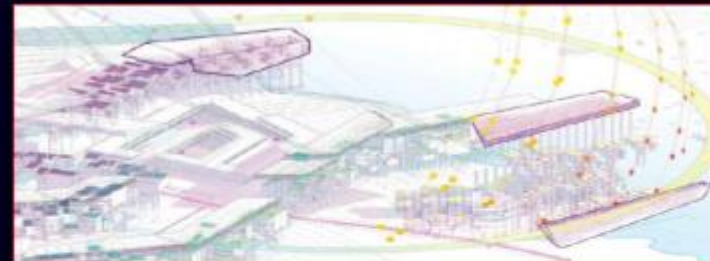
*Global projects
with local roots*

A bridge between 2 systems
and 2 mentalities

Planning for the next generation of STP



Assets Actors and Activity



Local physical communities and environments remain important as they drive more creativity through diversity

Urban yet borderless - invites wider inclusion which flattens innovation - speeding up social progress creating positive feed-back loop stimulating more opportunity


The Role of STPs and Areas of Innovation

Areas of innovation, of which science, technology and research parks (STPs) are a highly specialized type, play a key role in the economic development of their environment. Through a dynamic and innovative mix of policies, programmes, quality space and facilities and high value-added services, they:

- stimulate and manage the flow of knowledge and technology between universities and companies
- facilitate the communication between companies, entrepreneurs and technicians
- provide environments that enhance a culture of innovation, creativity and quality
- focus on companies and research institutions as well as on people: the entrepreneurs and 'knowledge workers'
- facilitate the creation of new businesses via incubation and spin-off mechanisms, and accelerate the growth of small and medium size companies
- work in a global network that gathers many thousands of innovative companies and research institutions throughout the world, facilitating the internationalization of their resident companies



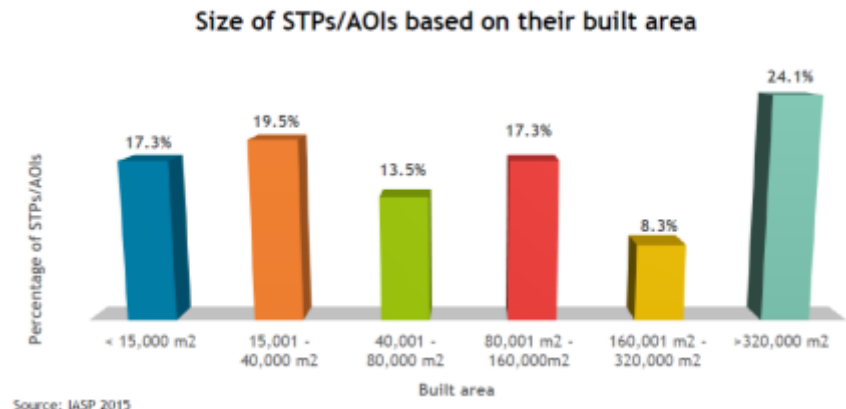
4th Generation STP > 2010 (AURP-IASP-UKSPA)

- 
- The STP is not anymore a “**technoeto**”
 - There are **provisions for experimental labs for proof of concept and quick market entry**, speeding the long commercialization periods needed and following today’s quick / disrupting / converging technologies evolution in fast pace.
 - Offer on site amenities** such as restaurants, sports facilities, leisure center, considered important **to attract innovation employees** as well as for **making STPs open to society** and even facilitative the promotion of open innovation principles and open lab mechanisms.

- The STP encourages circular **multidisciplinary** in the research domain and support adaptation to **the pace of multisectoral converging technologies**. The 4th generation replaces the linear model of techtransfer of commercialization and **facilitates loops and links between research and business towards innovation that is evolving fast, and does not allow for lengthy evaluation**, rest processes, with stereotype R&D mechanisms approach.
- The new model strategically plans mixed uses that include spaces for Academia and Businesses. Multiple stakeholder ships for niche areas** are encouraged STPs place value on groups of competitive partners, supplier’s, customers, and complementary, providing connectivity towards “innovation power”. The competent Management of STPs is critical for success in such a demanding and complicated task.

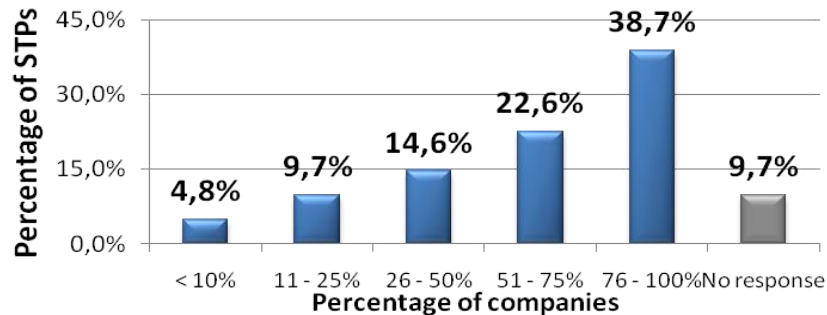
- STPs **support leveraging assets of non – University R&D departments of industry**.
- STPs **serve as effective tools to spur urban revitalization**.
- STPs **become leaders in sustainable design**. Use of renewable, minimizing green impact, promoting green/energy innovations and serving as show case of regional Green innovations.
- STPs **embrace global focus, support internationalization of start ups**, service micro multinational in transcontinental entrepreneurship STPs place and will place more emphasis in international partnerships with other STPs, serving better the soft landing need of their tenant.
- STPS **facilitate brain exchange and circulation within tenants** / within the region.

Impact of STPs on business creation and employment



Source: IASP 2013

Resident companies in STPs that sell their own technologies



366
STPs

28
million sqm
(completed building
floor space)

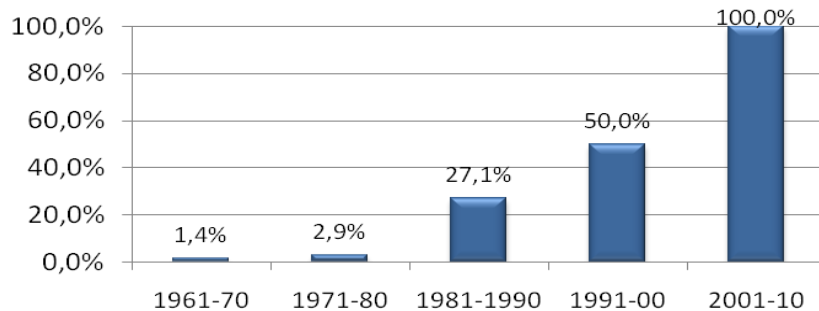
40.000
Organisations

750.000
Staff

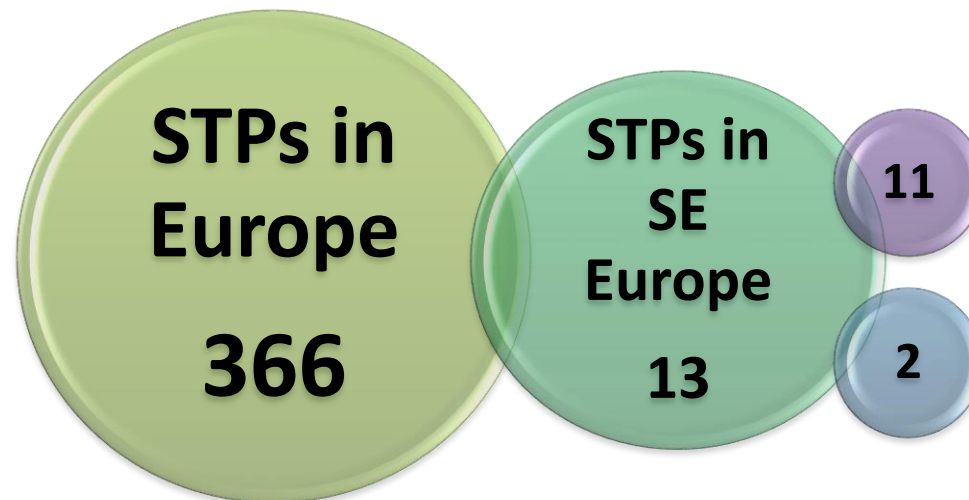
11.7
billions €
Invested

STPs in Europe

**The number of European STPs by decade
as a percentage of the 2010 total**



Source: IASP 2012



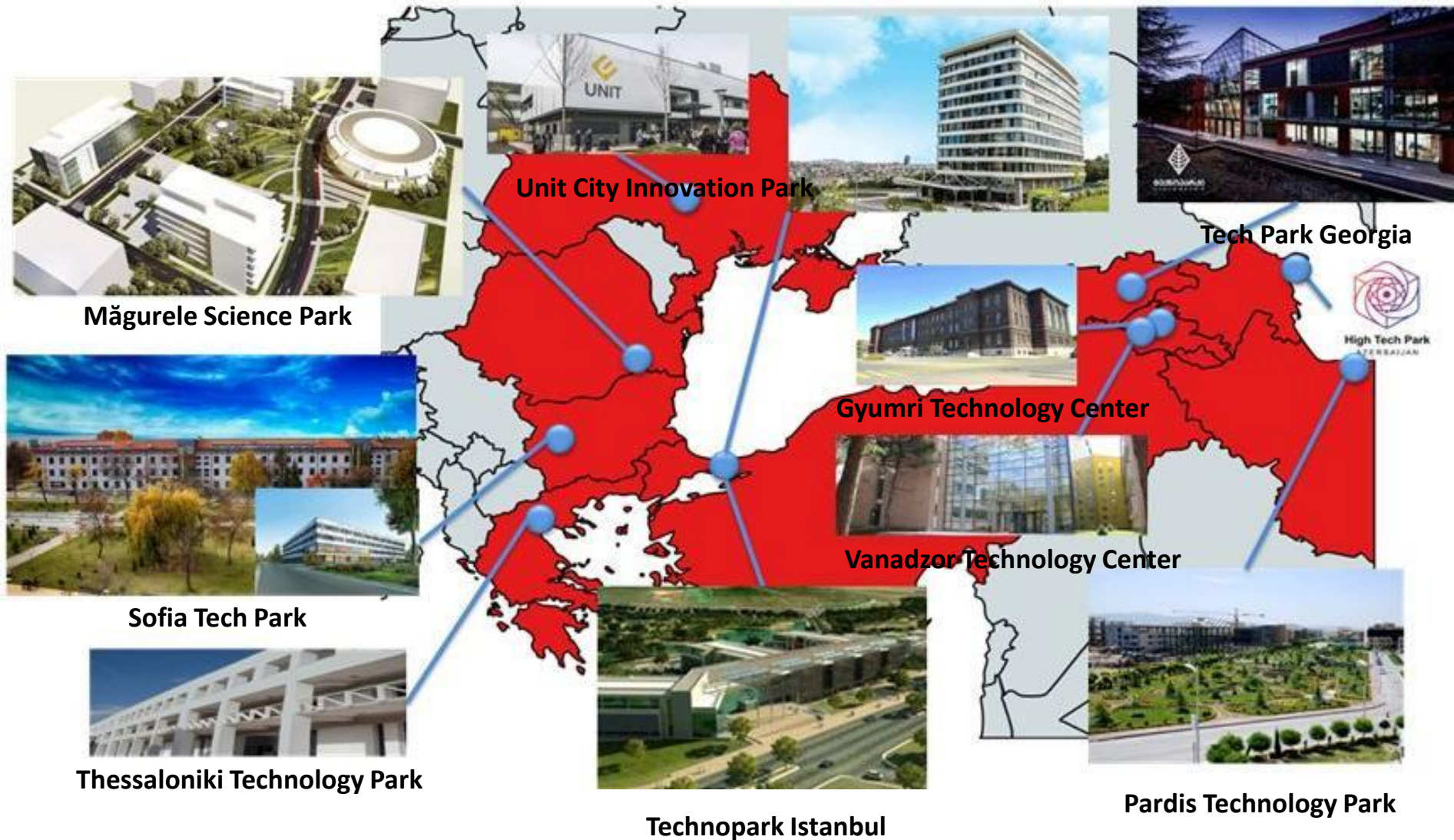
EU STPs are increasingly being portrayed as:

- ❖ Part of economic development programmes of cities and regions
- ❖ An increasingly important part of local innovation ecosystems
- ❖ Work extensively with knowledge-based SMEs and start-ups
- ❖ Make valuable contributions to foreign direct investment by high tech companies

BUT - what is the hard evidence that STPs are key regional innovation players?

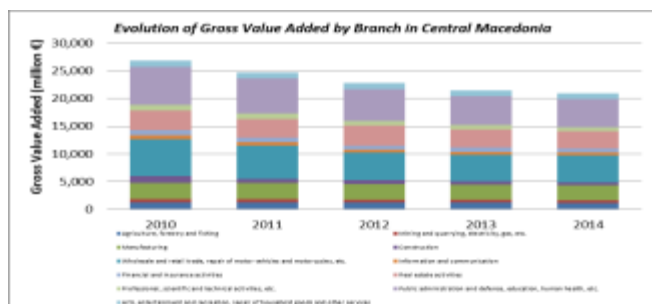
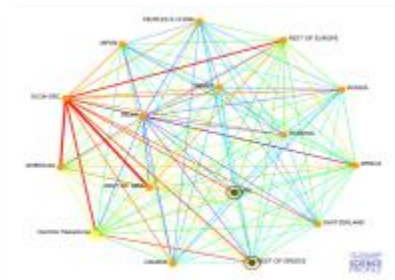


SE Europe - Black Sea STPs

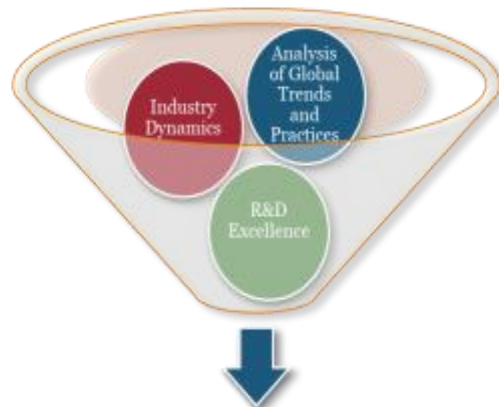


Employment of Smart Specialization Strategy in New Thessaloniki STP planning (ThessIntec)

Analysis of Regional Industry Dynamics and RTD Excellence



Methodology for categorization of industrial and technology Focus Areas

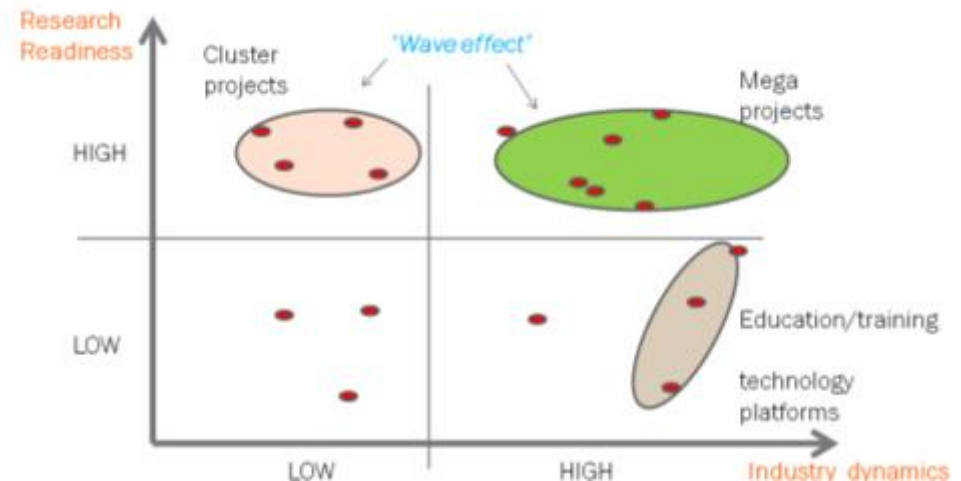


Proposals for Target Mega- Projects/ SWOT Analysis

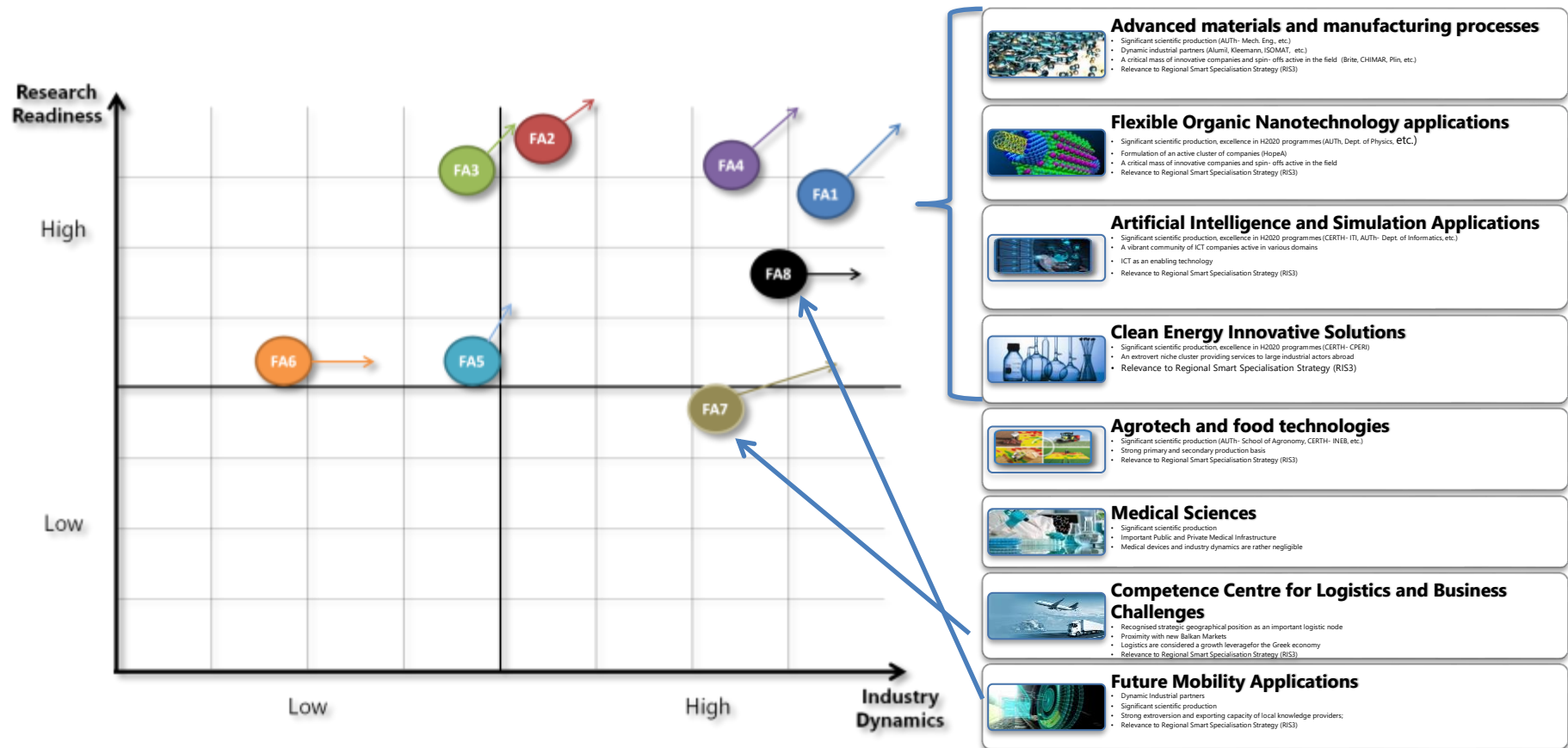
Industry Dynamics	Research Readiness	Types of innovation cooperation mechanisms
LOW	LOW	None applicable
LOW	HIGH	Cluster Project
HIGH	LOW	Technology Platforms and Education/ Training Facilities
HIGH	HIGH	Mega-Projects

Selection Criteria

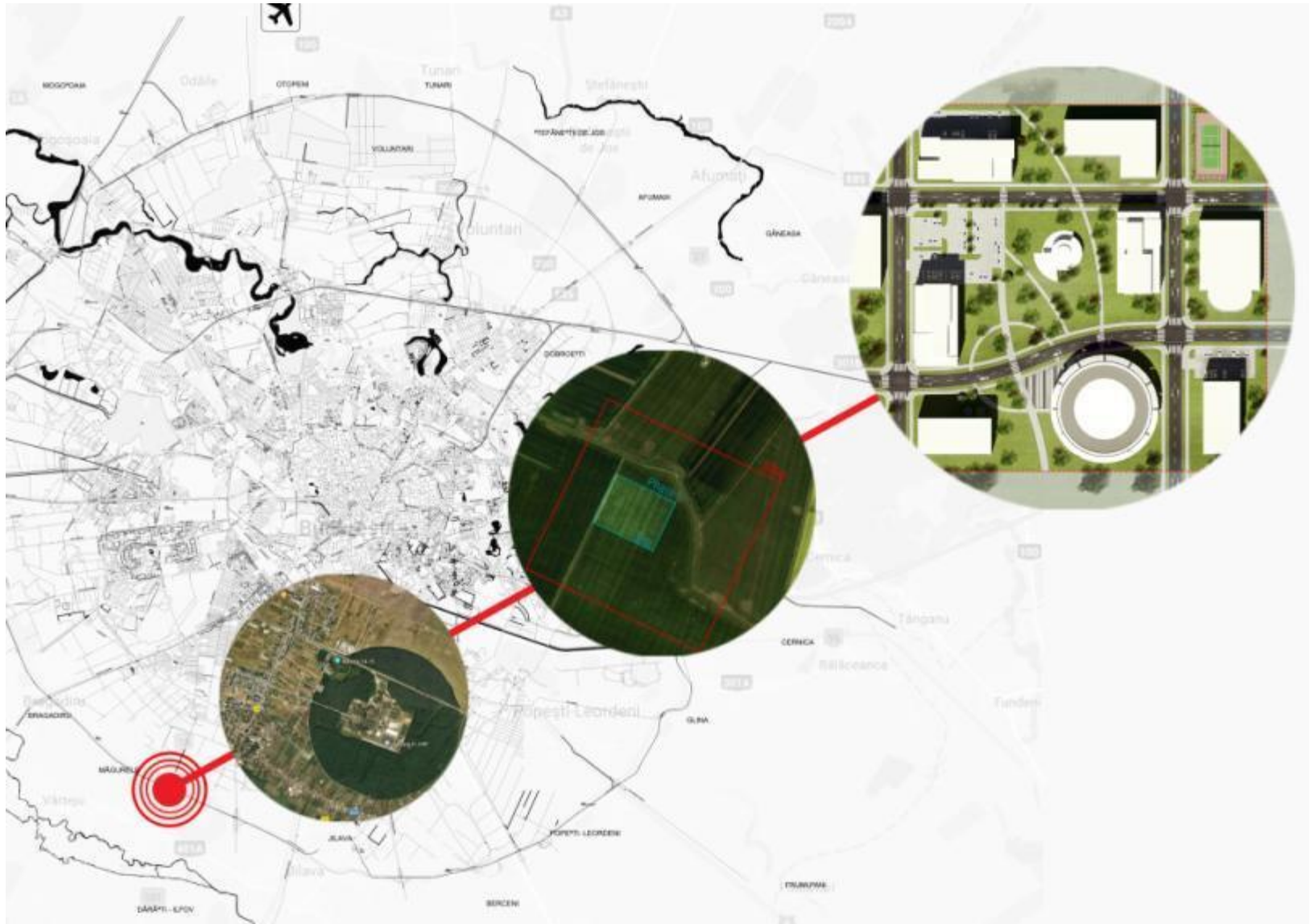
- Excellent RTD performance, competitive at an international level;
- High quality and volume scientific production;
- Dynamic industrial activity and extroversion;
- Significant technology transfer results (spin- offs, patents, etc.);
- Relevance to global Mega- Trends pushing research and innovation.



Positioning and Trends of Focus Areas



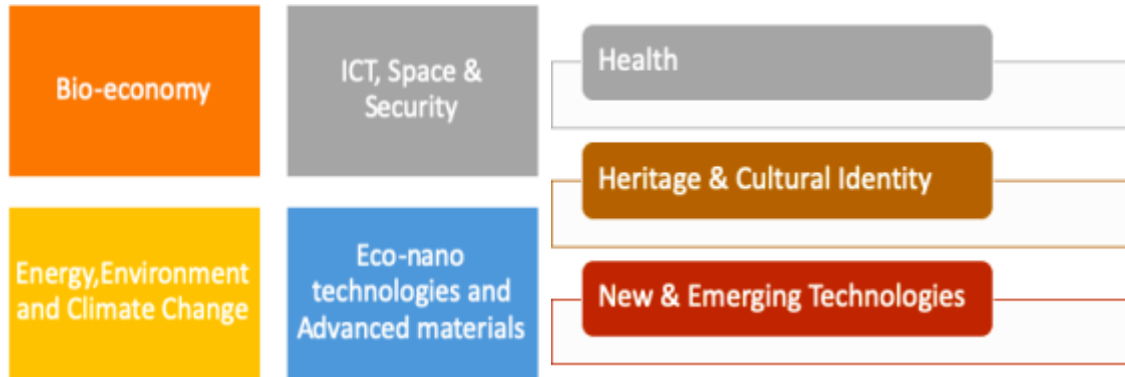
Employment of Smart Specialization Strategies for Magurele (Bucharest Ilfov) Science Park Planning



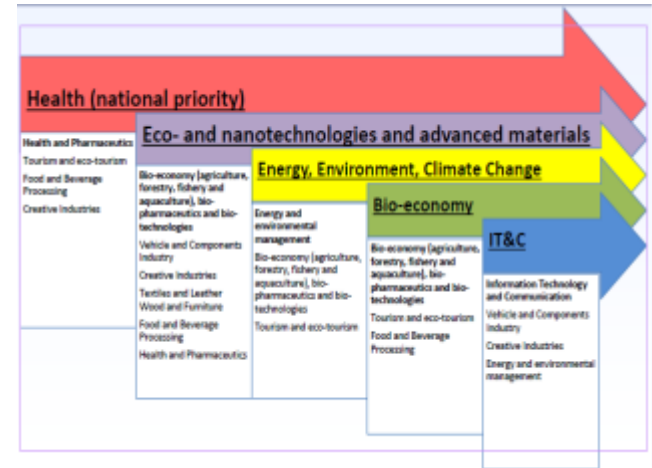
Park Phase 1 Plan & Buildings



Magurele Science Park in Bucharest – Pre Selection of MSP Sectors



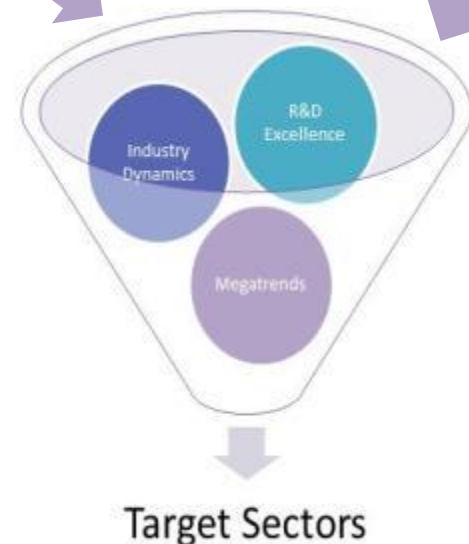
Romania Smart Specialization Areas & National Priorities



Source: National Authority for Scientific Research and Innovation, May 2015

Name [NUTS ID]	Description	Research & Innovation Capabilities	Business Areas & Target Market	EU Priority
Bucuresti - Ilfov [RO32]	Tunable graphen...	1. Manufacturing & industry 2. Other manufacturing	1. Manufacturing & industry 2. Machinery & equipment n.e.c.	1. KETs 2. Advanced materials

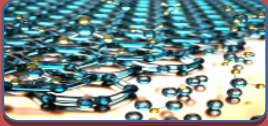
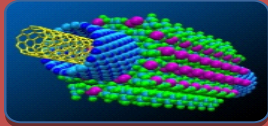
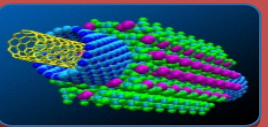
S3 smart specialization priorities, as encoded in the "Eye@RIS3" Tool



Extreme Light Infrastructure - Nuclear Physics facility (ELI-NP)



Măgurele Parks Areas of Specialization

TS1	Advanced Physics and Nuclear Applications/ Extreme Light Infrastructure
	<ul style="list-style-type: none"> • Excellent European level research infrastructure (ELI- NP & IFIN- HH) • Cooperation with the most prominent European Institutions • Significant scientific production and international research cooperation in H2020 programmes • Dynamic potential industrial manufacturing partners • Cluster activity (CLARA, etc.) • Relevance to National Smart Specialization Strategy
TS2	Advanced meta- materials and manufacturing technologies
	<ul style="list-style-type: none"> • Significant scientific production and international research cooperation in H2020 programmes • Numerous applications for the significant manufacturing industry of the Bucharest-Ilfov Region; • Cluster activity (CLARA- The EU Center of Excellence in Lasers and Radiations), Mechatronics, a potential strong cluster under emergence • Significant potential for spin-off activity under developed • Significant impact on regional economic activity (automotive industry, machinery, chemical, paper, furniture, rubber, electrical equipment, transport, electronic and optical) • Relevance to National Smart Specialization Strategy
TS3	Secure, Clean and Efficient Energy
	<ul style="list-style-type: none"> • Significant scientific production and international research cooperation in H2020 programmes • Strong link with the thriving Romanian automotive industry • Relevance to global technological megatrends • Significant Cluster activity (Biogasinno, 'Energy and Sustainable Development Management' Innovation Cluster, etc) • Relevance to National Smart Specialization Strategy
TS4	Enabling Information and Communication Technologies and Artificial Intelligence
	<ul style="list-style-type: none"> • Significant scientific production and international research cooperation in H2020 programmes • A vibrant community of ICT companies active in various domains and services • ICT as an enabling technology • Cluster activity (ELectronic INnovation CLUster- ELINCLUS, Intelligent, innovative, IT cluster – 3IT) • Relevance to National Smart Specialization Strategy

MSP Strategigram

● Magurele Science Park

Axis 1: Location and environment



Axis 2: Position in the knowledge/technology stream



Axis 3: Target firms



Axis 4: Degree of specialisation



Axis 5: Target markets



Axis 6: Networking



Axis 7: Governance management model



Contacts



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ΕΠΙΧΕΙΡΗΜΑΤΙΚΟ ΕΡΕΛΑΣΙΑΚΟ ΠΕΡΙΒΑΛΛΟΝ

- Μοναδικό κενό χώρο γραφείου
- Συγκροτήσιμα Εργαστήρια
- Χώροι Συνεδριάσεων και Δειπναρίων
- Ευάκριτα περιβάλλοντα
- Κονσόλες και υποδομές
- Αμεση λειτουργικότητα
- Μετακίνηση αυτοματικού υδραυλικού
- Ραπido parking

ΥΠΟΘΕΤΙΚΗ

- Επιμελητήριο
- Λογιστική
- Νομική
- Μηχανογράφηση

ΣΥΜΒΟΥΛΕΥΤΙΚΕΣ ΥΠΗΡΕΣΙΕΣ

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ΠΡΟΣΒΑΣΗ ΣΕ ΧΡΗΜΑΤΟΔΟΤΗΣΗ

ΔΙΚΤΥΩΣΗ ΣΕ ΕΛΛΑΔΑ ΚΑΙ ΕΞΩΤΕΡΙΚΟ

ΜΕΛΟΣ

Member of IASP

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