

Magurele Science Park

Bruxelles 10.10.2018

Bucharest-Ilfov Region

- ▶ Engine of Romanian economy - 27% of GDP
- ▶ The 76th region of 271 European regions (GDP)
- ▶ 25% of companies
- ▶ More than 50% research institutes and business incubators
- ▶ Center of innovation and research - 22.74% of the active innovative companies in Romania

Bucharest-Ilfov Region

- ▶ **Number of companies active (2017)**

- ▶ Bucharest-Ilfov: **131,927**

- ▶ Romania: **527,792**

- ▶ **Number of Research Institutes**

- ▶ Bucharest- Ilfov: **28**

- ▶ Romania: **47**

- ▶ **Number of Technological and Business Incubators**

- ▶ Bucharest - Ilfov: **8**

- ▶ Romania: **14**

- ▶ **Number of Industrial Parks active**

- ▶ Bucharest-Ilfov: **3**

- ▶ Romania: **55** Industrial Parks in total, with the title awarded by the order of the Minister, out of the 55 parks 40 are functional

Magurele

- ▶ **Scientific center in nuclear physics and lasers** - the most modern in Romania
- ▶ **9 national R&D institutes** along with the **Faculty of Physics** within the University of Bucharest form the most important hub of fundamental physics research
- ▶ With a contribution of almost **10% of the national scientific output**, "Horia Hulubei" National Institute of Physics and Nuclear Engineering (IFIN-HH) is one of the most important public R&D organization in Romania.
- ▶ **ELI-NP** is an integrated European project with 40 research and educational institutions involved from 13 countries.



Founding Members

- Ilfov County Council
- Horia Hulubei National Institute for Physics and Nuclear Engineering
- Măgurele Town Hall and Local Council

Partners

- International Association of Science Parks and Areas of Innovation
- Măgurele High – Tech Cluster
- Universities
- Research Institutes

Essential project for the fulfillment of the regional development objectives of the Extreme Light Infrastructure – Nuclear Physics (ELI-NP) and for the economic development of the research results made available by the entire Măgurele platform

VISION. MISSION. OBJECTIVES

Capitalization of the ELI-NP project and of the research institutes in the adjacent area of MSP, as interested parties/stakeholders of MSP

Consolidation of an organization and of a autonomous project that benefits from a continuous growth

Participation in the **consolidation of the national system of innovative entrepreneurship**

Attracting and supporting talented people with the purpose of stopping the phenomenon of brain-drain that takes place in Romania

Contributing to the **change/modernization of the urban profile of Măgurele and Bucharest-Ilfov Region**

Supporting the **commercialization of the research results** and of the spin-off systems built within Universities and Research Institutes as well as creating a relevant culture in this field.

Magurele Science Park - development phases

- ▶ Phase 1 - 5.5 acres
- ▶ Phase 2 - first extension - multi-tenant buildings
- ▶ Phase 3 - second extension - progressively
- ▶ Phase 2+phase 3 = 18 acres



MASTER PLAN MAGURELE SCIENCE PARK

Phase 1

- Innovation Center
- Museum of the Future
- Center of Technology Transfer
- Recreation center

Investment

Phase 1	Value €
1. Infrastructure works (including land arrangement, utilities, access roads inside and outside, parking, green areas etc.)	6,348,716
2. Centre for technological transfer	5,597,167.38
3. Innovation Center	4,423,556.06
4. Museum of the Future	9,296,942.83
5. Recreation center	357,000
A. Total (construction and equipment)	26,023,382.27
B. Technical documentation	4,610,991.77
Total A+B:	30,634,374.04
Phase 1 - Total:	30,634,374.04

Principles of planning the activities Magurele Science Park

The basic principles of MSP activities are fundamented by the analysis of the local ecosystem, the development directions of scientific and technological parks throughout the world and by the best practices in the field

The fourth
generation of
multidisciplinary
science parks,
partners of society

Modulability,
allows development
in successive phases
depending on
regional economic
development

Synergy between the
regional
development factors
(business and
research) and
external partners in
order to increase
international
competitiveness

MSP Strategic Diagram– according to the IASP analysis model

Axis 1: Location and environment

Axis 2: Position in the knowledge/technology stream

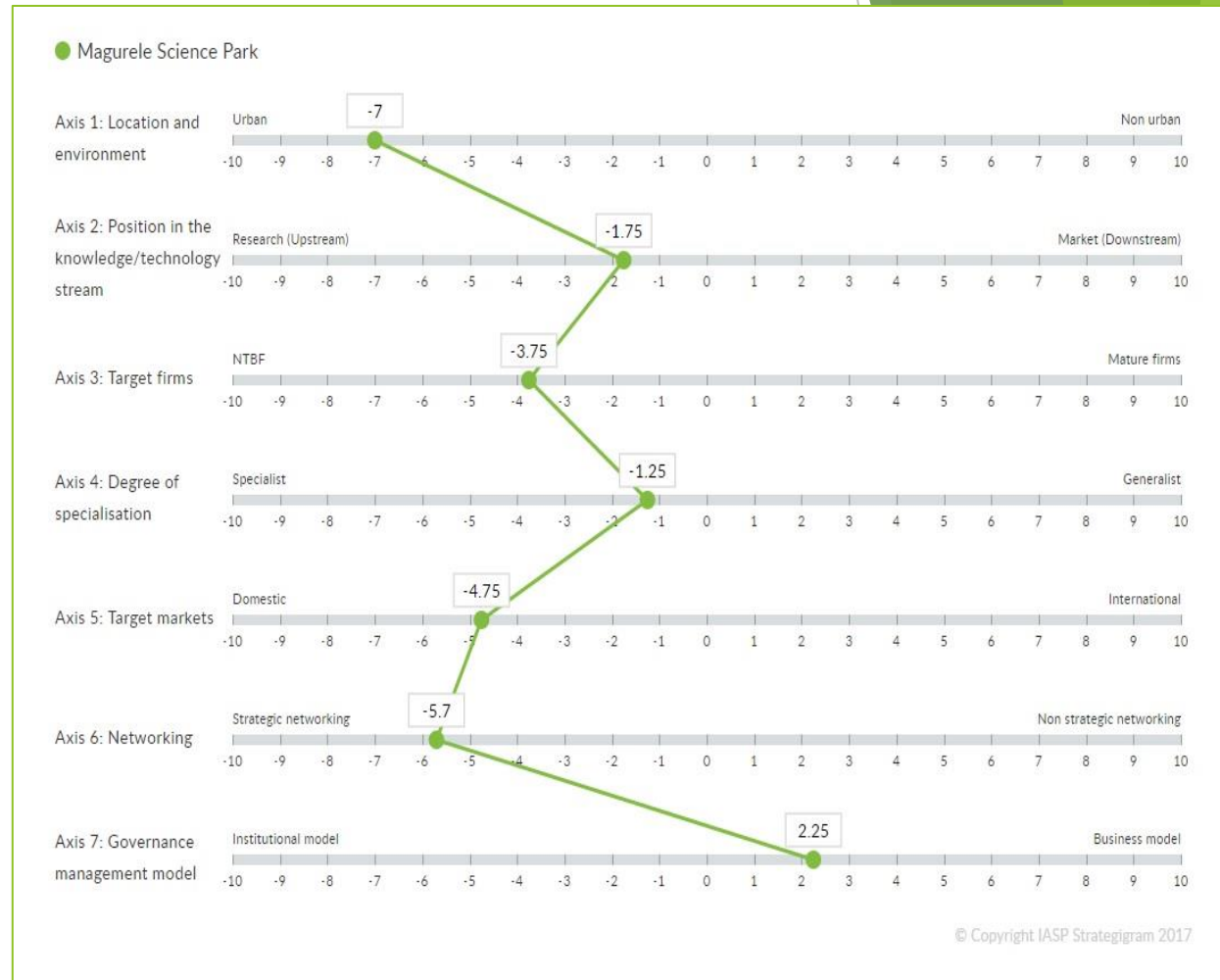
Axis 3: Target firms

Axis 4: Degree of specialization

Axis 5: Target markets

Axis 6: Networking

Axis 7: Governance management model



Magurele Science Park Specialization

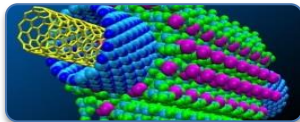
TS1



Advanced Physics and Nuclear Applications/ Extreme Light Infrastructure

- High-quality European Research Infrastructure (ELI-NP & IFIN-HH)
- Significant scientific production and international cooperation in the research field as part of the H2020 program
- The potential of dynamic partners in the field of industrial production

TS2



Advanced Materials and Manufacturing Technologies

- Significant scientific production and international cooperation in the research field as part of the H2020 program
- Many applications for significant manufacturing industry in the Bucharest-Ilfov Region
- Potential spin-off activity, insufficiently developed
- Significant impact on the regional economic activity (automobile industry, chemical products, paper, furniture, rubber, transport, electronics and optics)

TS3



Safe, clean and efficient Energy

- Significant scientific production and international cooperation in the research field as part of the H2020 program
- Strong connections with the auto industry in Romania
- Relevance to major global trends in technology

TS4



Activation of Information and Communication Technologies and Artificial Intelligence

- Significant scientific production and international cooperation in the research field as part of the H2020 program
- A dynamic ICT community active in multiple fields of activity. ICT as a generating technology

Magurele Science Park

State of play and next steps

- ▶ Feasibility Study
- ▶ MSP - affiliated member of IASP
- ▶ Defining MSP concepts/components and partnership framework
- ▶ Technical project
- ▶ MSP - science park in accordance with the Romanian legislation



Thank you!
Dana Mocanu
Executive Director