
INSPIRING SCIENTIFIC EXCELLENCE AND COMPETITIVE INNOVATIONS THROUGH ELI

Zsolt Fülöp

Envoy Extraordinary for the coordination of the ELI consortium
National Research, Development and Innovation Office of Hungary

JASPERS Networking Platform – Second Extreme Light Infrastructure (ELI) pillars workshop, Brussels
11-12 September 2017

MOMENTUM OF INNOVATION



NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
HUNGARY



CLOSING THE CONSTRUCTION OF ELI-ALPS

By June 2017 we are just "a few atoseconds" away from the takeover of the ELI-ALPS facility from the construction consortium. The key errors are already corrected by them, which were essential for the proper and safe use of the facility therefore we could sign the closing minutes of the technical takeover period. Now we are in the actual takeover process, which requires the preparation and signing

of lots of documentation, and the process of financial closing, and it looks like the first working day in the facility will be most probably 12 June 2017.

In the meanwhile our occupancy permit process is on the way, and according to the expectations we will get the permit very soon after the takeover, which will allow us to move in and start operating the facility. There will be still quite a few, not that essential

errors, which have to be fixed by the consortium after moving in, however our goal is to move in as soon as possible to be able to get prepared for receiving the research technology!

When we are already in the facility we continue to work on the rest of the alterations (design and construction), which are essential for some of the research technology arriving in 2018.



New laser research facility in Szeged awaits researchers from all over the world



- The newly opened ELI laser facility is **the most significant domestic project serving research purposes and funded from European Union (2014-2020)**
 - As from 2016 **the proprietary rights** of the investment are owned by the **National Research Development and Innovation Office**
- Organising ELI - **European Research Infrastructure Consortium (ERIC)**
 - After the establishment of the ELI-ERIC, consortium members will pay membership fees to cover the operating costs of the equipment
 - Intergovernmental negotiations in London, Paris, Beijing, Berlin, Madrid about the utilisation of the ELI
- Envoy Extraordinary and Minister Plenipotentiary for the coordination of the ELI consortium

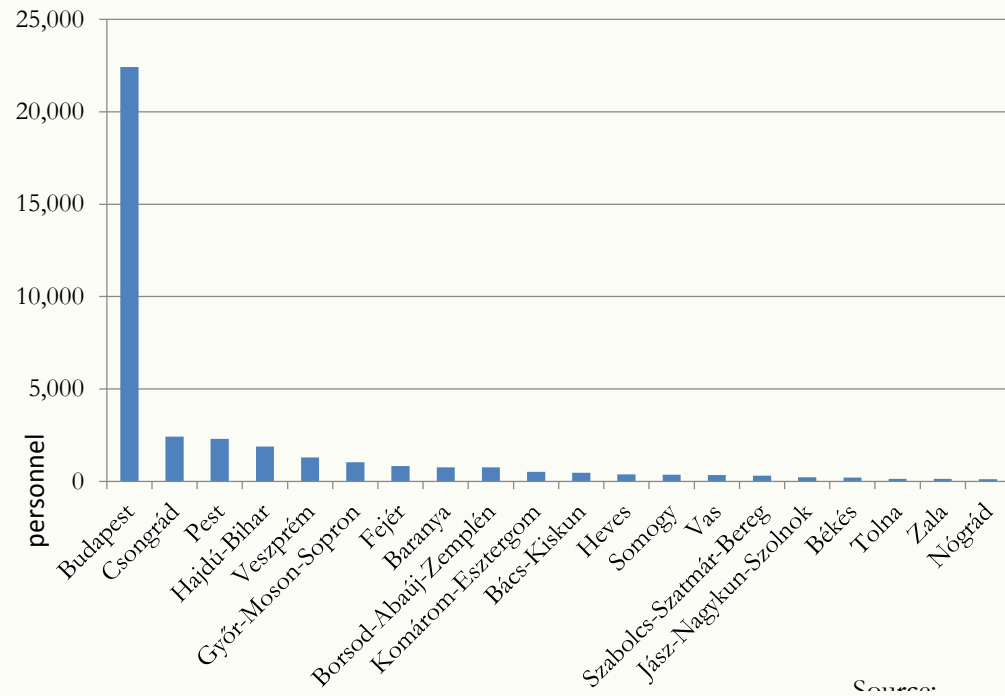


MOMENTUM OF INNOVATION

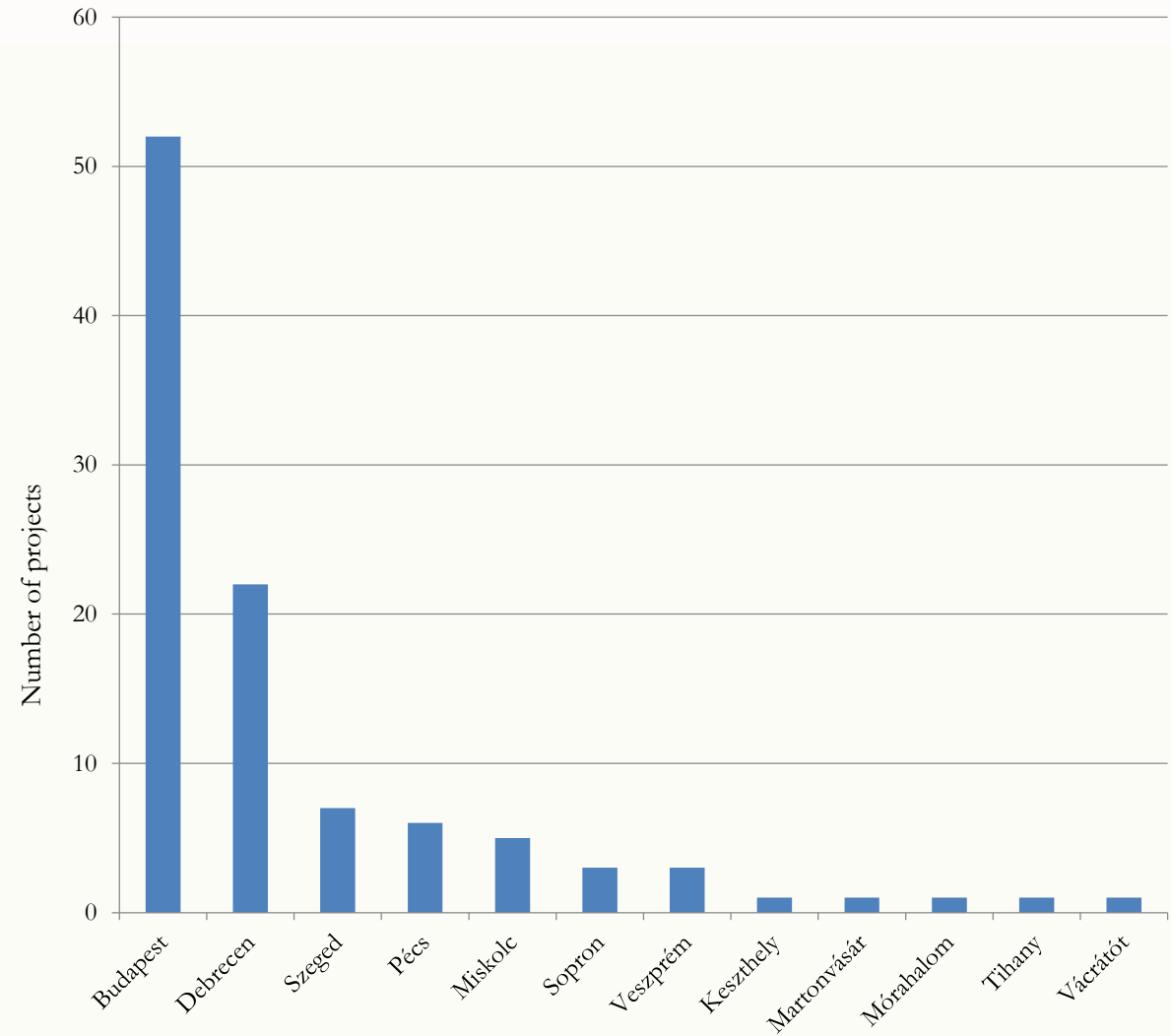


Regional issues

R&D personnel and researchers (FTE), 2015

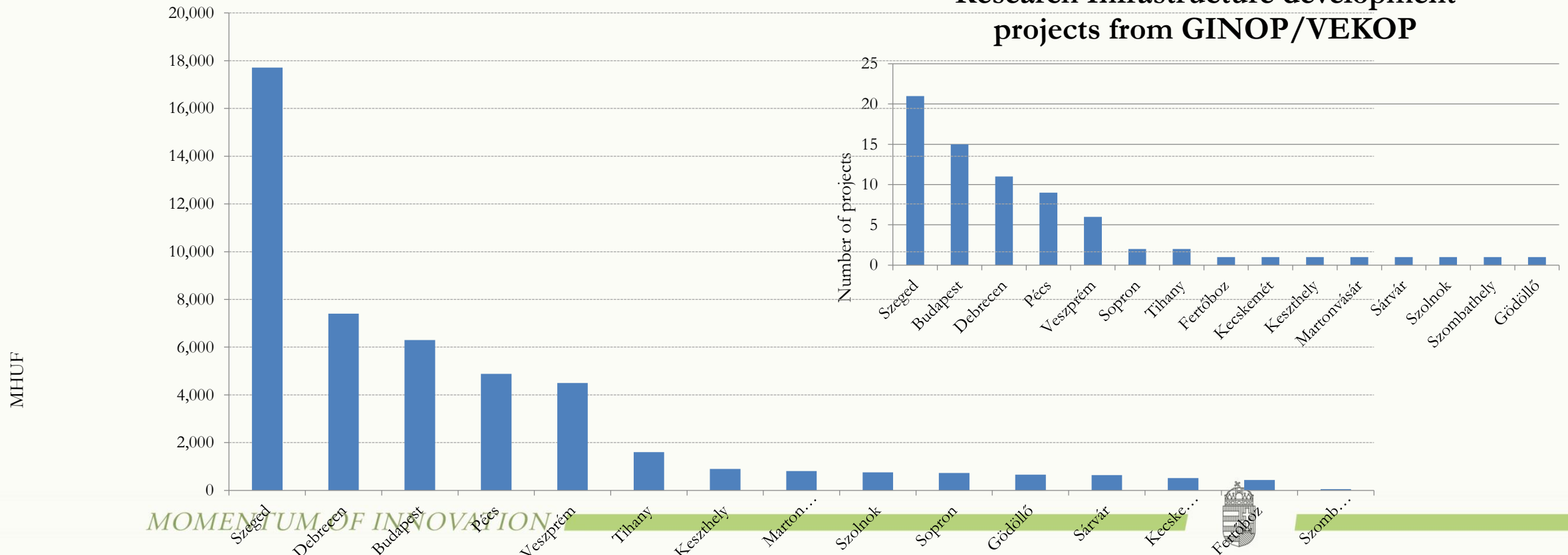


Research Infrastructure

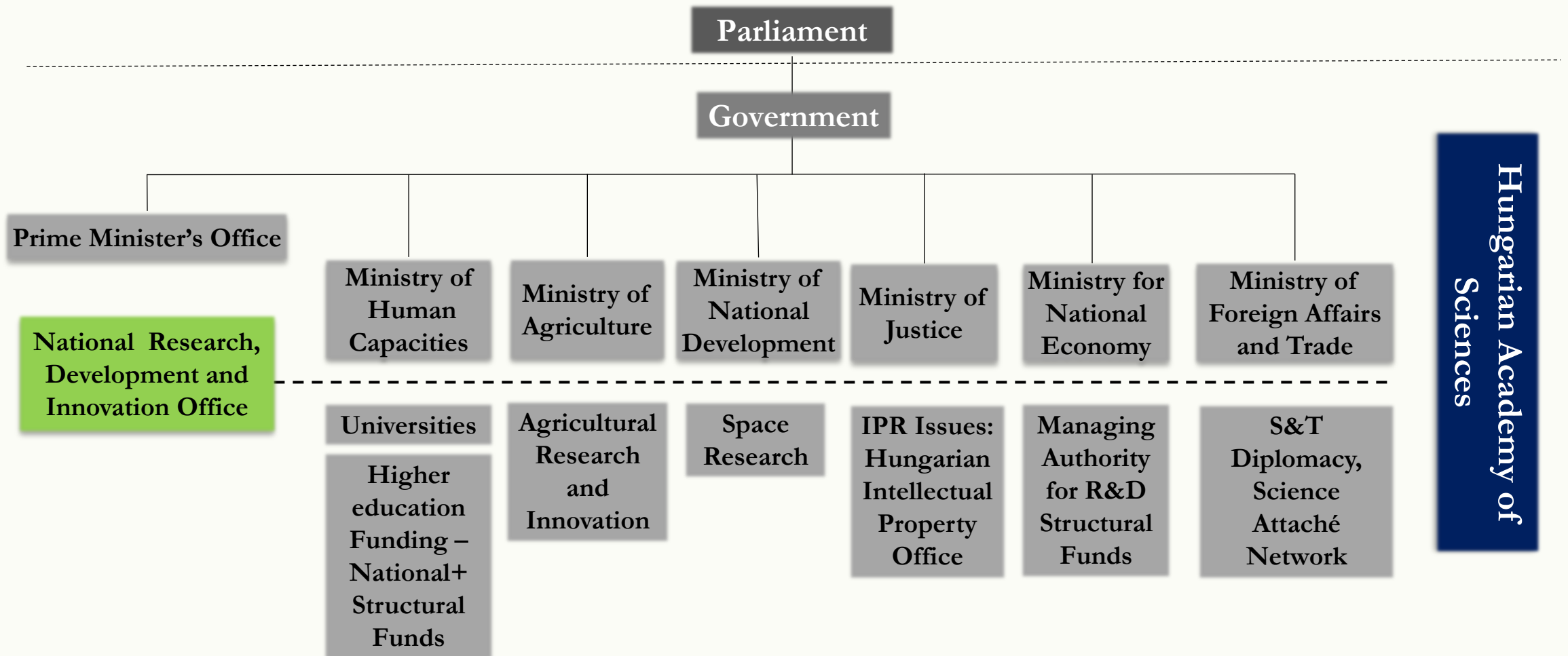


Upgrade from Structural Funds

Spent on new infra projects without ELI



Governmental Structure of RDI in Hungary

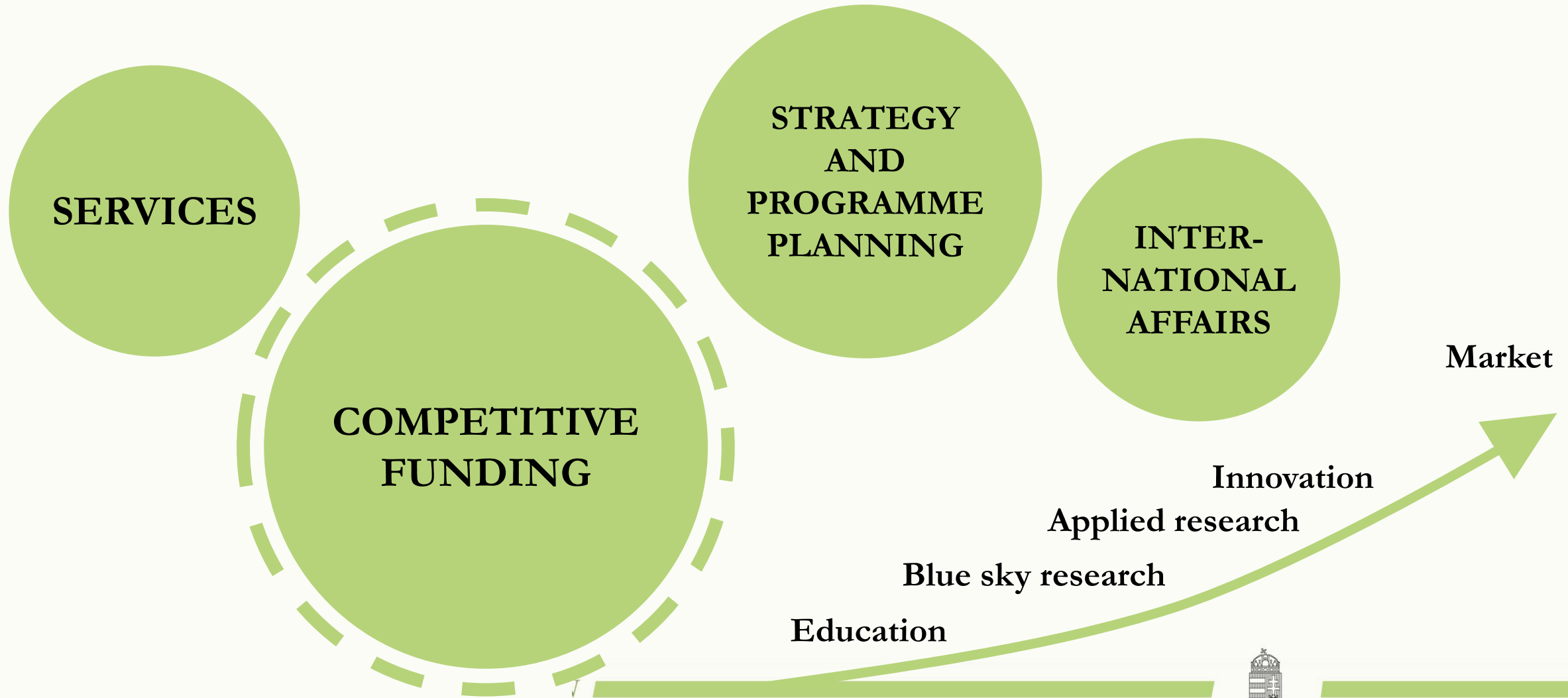


MOMENTUM OF INNOVATION



NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
HUNGARY

NRDI Office – key actor for RDI in Hungary



National Research, Development and Innovation Office

INCREASING
COMPETITIVENESS
THROUGH
EFFECTIVE
PLANNING AND
FUNDING OF
R&D&I

Mission

STRATEGY
PLANNING

FUNDING

REPRESENTING

Mandate

A WORLD-CLASS RDI
FUNDING AGENCY

CREATING
INTERNATIONALLY
ATTRACTIVE RDI
ENVIRONMENT

LINKING RDI TO
THE ECONOMY &
SOCIETY FOR
INCREASE GROWTH
& PROSPERITY

Vision

EXCELLENCE

TRANSPARENCY

INTEGRITY

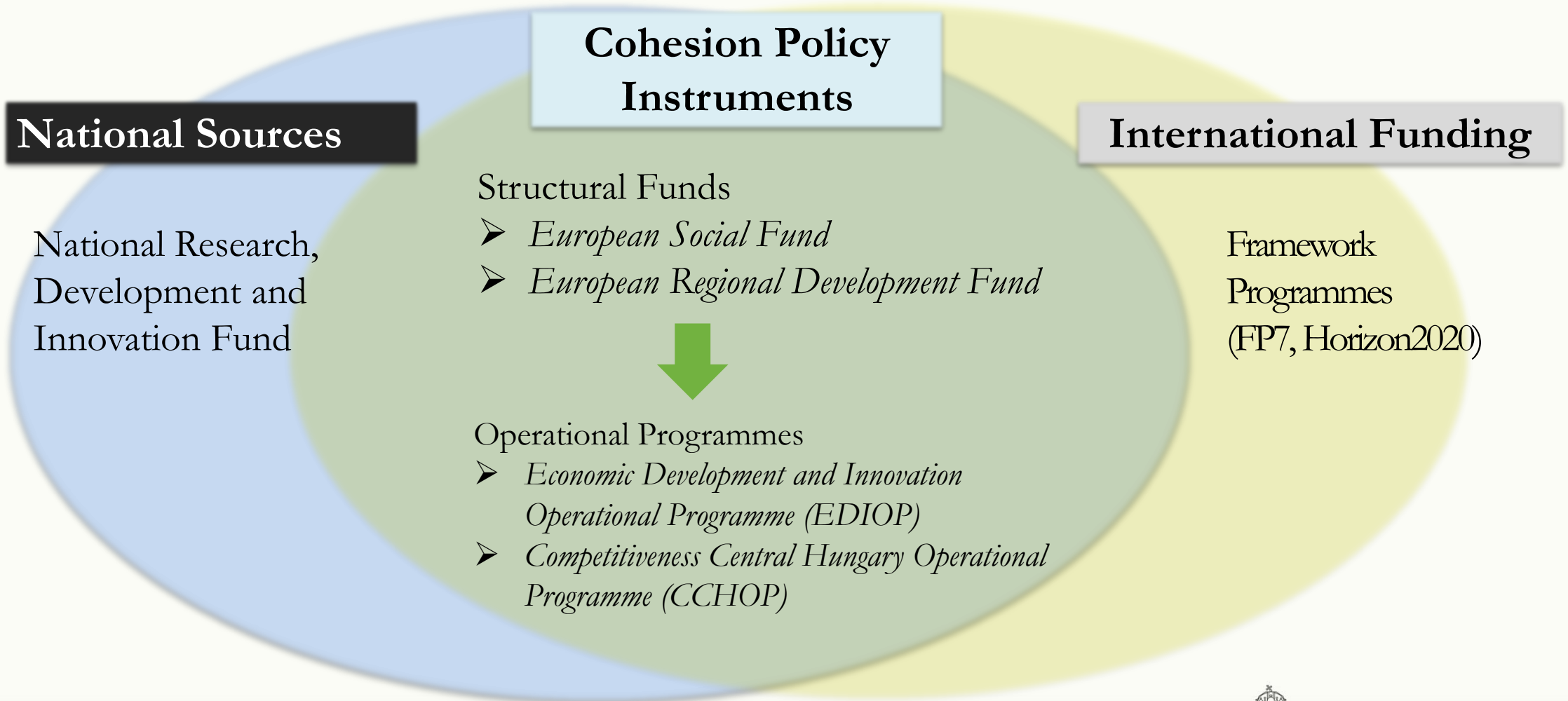
TRUST

Values

MOMENTUM OF INNOVATION



Sources of R&D Funding in Hungary



NRDI Office to support scientific excellence


EXCELLENCE PROGRAMMES PROMOTING THE INTERNATIONAL COMPETITIVENESS OF DISCOVERY RESEARCH	ERC	KKP_17	KH_17
	Funding programmes promoting access to European Research Council (ERC) programmes	“Frontline” Research Excellence Programme	Funding of research groups whose outstanding achievements have a significant international impact on scientific forums with major visibility
	BUDGET: HUF 0.45 BN	BUDGET: HUF 3 BN	BUDGET: HUF 1 BN

RESEARCHERS' THEMATIC APPLICATIONS PROGRAMMES, POSTDOCTORAL PROGRAMMES PROMOTING DISCOVERY RESEARCH	PD_17	FK_17	K_17	NN, ANN, SNN 17
	Postdoctoral excellence programme	Calls for thematic applications initiated by young researchers	Calls for thematic applications initiated by researchers	Calls for thematic applications based on international cooperation
	BUDGET: HUF 1.5 BN	BUDGET: HUF 3 BN	BUDGET: HUF 6.5 BN	BUDGET: HUF 6.5 BN

MOMENTUM OF INNOVATION



Excellence and collaboration: two winning Hungarian excellence centres in the H2020 Teaming action

- **Two projects** coordinated by the NRDI Office have been awarded EUR 26 million in a highly competitive EU funding scheme, out of **ten programmes selected across Europe**
- **Teaming action** of the Spreading Excellence and Widening Participation programme under Horizon 2020
 - domestic selection process: 3 out of 9 projects
 - two-step European selection process: 31 shortlisted out of 169 → 10 winners
 -  – **Centre of Excellence in Production Informatics and Control**
 -  – **Creating the Hungarian Centre of Excellence for Molecular Medicine**
 - with additional domestic funding and contribution of participating institutions EUR 73 million is available for the two programmes
 - projects kick-off in April 2017

NRDI Office to build international cooperation

Bilateral scientific and technological (S&T) cooperation

- Implementation of bilateral S&T agreements (S&T cooperation agreements with close to 40 countries);
- Coordination of joint S&T activities with the partner countries - staff exchange, preparation and management of joint calls, organisation of joint scientific/networking events;
- Representation of the RDI policy area at the meetings of Joint Economic Committees;
- Coordination of the work of the S&T attachés in cooperation with the Ministry for Foreign Affairs and Trade and the Prime Minister's Office

Activities related to EU Membership

- Coordination of the EU's Horizon 2020 Programme at national level (hosting the network of National Contact Points), representation of Hungary in the Programme Committees of Horizon 2020; management of national calls supporting Hungarian participation in Horizon 2020;
- Tasks related to EU membership – participation in the EU's RDI legislation

Representation in multilateral RDI cooperations and programmes

- Large international research infrastructures (CERN, ESS, XFEL, EMBL etc.),
- Multilateral intergovernmental cooperations (EUREKA, COST)
- Cooperation in RDI policy networks (OECD, TAFTIE)

ELI as a flagship venture in Hungary

- Continuous monitoring from the innovation office
- High priority on the Hungarian scientific landscape (research and education)
- Importance of foreign users
- ERIC as a legal framework
- ELI Science Park is planned
- Ramp-up period is supported financially
- Long term support is limited

Year	2018	2019	2020	2021	2022
Host Members	50-90%	30-70%	20%	20%	20%
Non-Host Members	5-50%	30-70%	70-80%	80%	80%
EU (total expected: 15-20 M€ as one off)	5-25%	5-20%	0-10%	0	0
Income from competitive projects and commercial activities	0	0	1-3%	2-5%	3-7%



The goal of research: creating a scientific innovation centre with European recognition



The goal of the complex development of **'ELI' Science Park Szeged** is to get leading businesses in R&D and innovation to settle in the European research infrastructure environment that embodies scientific excellence, and thus create a **scientific innovation centre with European significance** attached to the ELI research infrastructure.

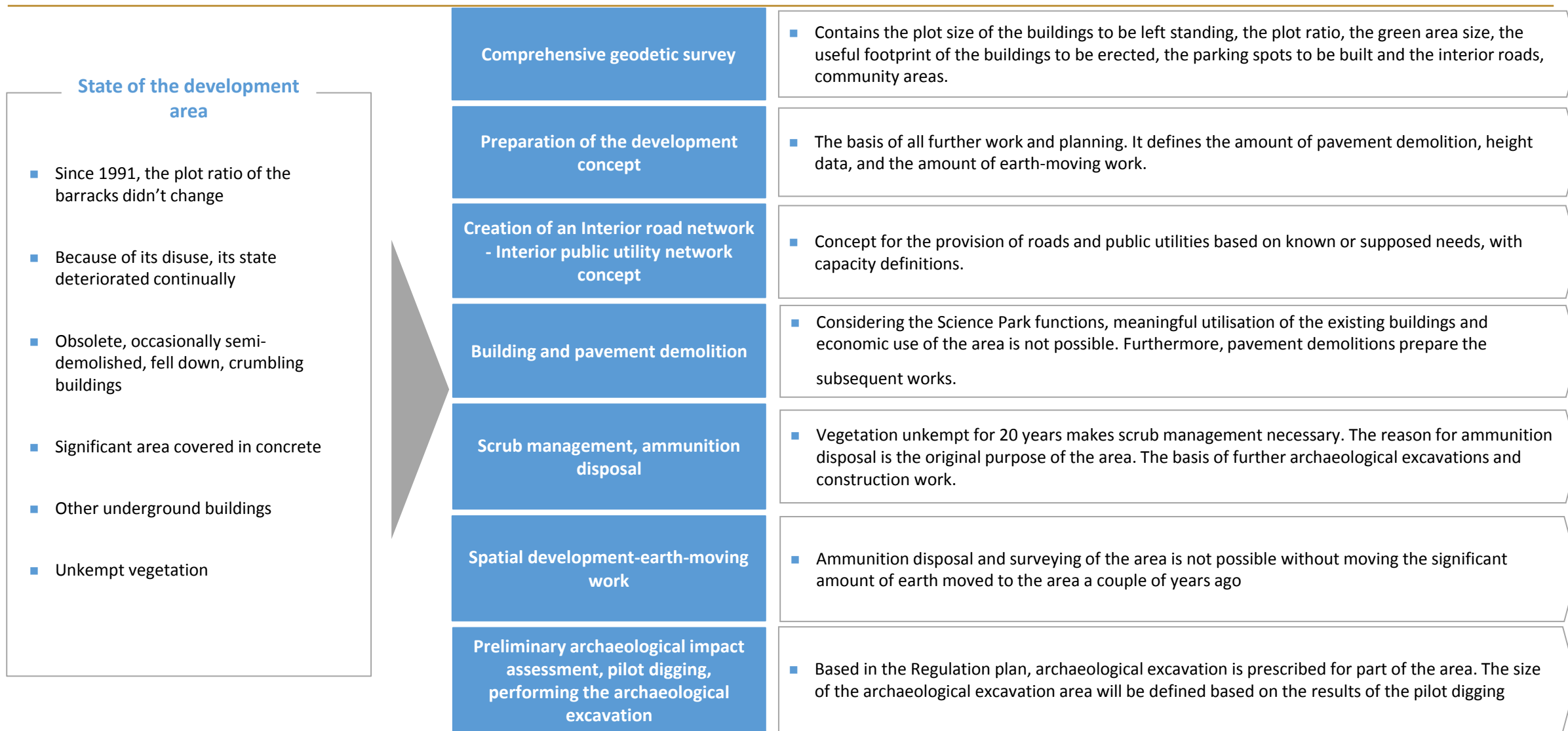


Current status of the area





Works to be performed on the development area



THANK YOU FOR YOUR
ATTENTION!

www.nkfi.gov.hu/english

MOMENTUM OF INNOVATION



NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
HUNGARY



For info or further questions on this seminar and the activities of the JASPERS Networking Platform, please contact:

JASPERS Networking and Competence Centre

jaspersnetwork@eib.org

www.jaspersnetwork.org