



HELIUM project - Kick off meeting 23-24.5.2016, Eindhoven (NL)

PARTNER No 7. – NHSC
National Healthcare Service Center,
Hungary



About partner

- NHSC is responsible for governing over 100 hospitals and 20 health service providers owned by the Hungarian State.
- NHSC mission is to provide a well-focused methodological support and development strategy for the healthcare sector and Health 2014-2020 strategy.
- It has experience in public driven innovation process (eHealth), policy support.
- **Relevant projects:** SH/8/1 (SCF); TÁMOP 6.2.5.B; TÁMOP 4.2.6 (ESIF); HoCare (Interreg Europe / 01.04.2016 +48M).
- ESIF 2007-13/15: ICT >30 M EURO (total >1.1 Bn EURO)



Definitions

WHO definition of Health

Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.

<http://www.who.int/about/definition/en/print.html>

Health care industry

The complex of preventive, remedial, and therapeutic services **provided by hospitals and other institutions**, nurses, doctors, dentists, medical administrators, government agencies, voluntary agencies, noninstitutional care facilities, *pharmaceutic and medical equipment manufacturers*, and health insurance companies.

<http://medical-dictionary.thefreedictionary.com/healthcare+industry>



Policy instrument (1)

- **Name:** Economic Development and Innovation Operational Programme (EDIOP) [+Human Resource Development OP (HRDOP)]
- **Responsible body:** Ministry for National Economy [+Min. for Hum. Cap.]
- **Objective, priorities:** largest SF programme in HU, aiming to improve competitiveness (more than 8 Bn EURO, ERDF + ESF)
- **Priority Axes 2:** aimed to improve research, technology and innovation via businesses /improving strategic RDI networks/ supporting innovative SME-s and research institutions
- **Priority Axes 8:** financial instruments (highest in EU28)
- **Innovation in health & health related industries is a priority under all PAs**



Policy instrument (2)

- **Governance of the instrument:**
Managing Authority (MA) and Intermediate Body (IB): in the Ministry for National Economy (NGM)
- **Calls for projects:** in line with Annual Development Framework, based on MA's approval.
- **Involvement of ÁEEK:** as a governmental body
 1. takes part in preparation of **standard/simplified/predetermined** calls for projects;
 2. upon invitation of the Ministry, applies for grant with **predefined project proposals**, with special regard to big/flagship projects in the field of healthcare.
 3. Takes part in partnerships for open (standard) calls for projects **led by other institutions or SMEs**



Policy instrument (3)

- **Improvement of the policy instrument:**
 1. innovation helps overcoming challenges in hospital care/cure
 2. new functions appear within healthcare
 3. new functions require innovation (healthcare is tied to innovation)
 4. at present there is a lack of need driven innovation calls
 5. at present there is a lack of high quality projects jointly carried out with end users
 6. wish to improve efficiency of use of funds:
 - by exploring measures to strengthen and to link innovation value chain both on regional and interregional level
 - by structuring funding schemes to the specific needs of health sector and care system
 7. improvement of governance of EDIOP(+HRDOP) is targeted by:
 - introducing new measures (incentives in calls, etc)
 - improvement of monitoring procedures



Regional context (1)

- **State of art of RIS3** - there is an approved S3 National Strategy for Hungary
 - Connection with the planned results of the project - objectives of the sectoral priority „Healthy society and wellbeing“
- **Research and innovation activities in HealthCare**
 - Biostatistics, epidemiology, big data, varifications
 - ICT (tele-, mobil- & e-Health)
 - Care system innovation models & pilots



Regional context (2)

- **Basic national/regional ecosystem mapping**
 - The project targets the bottlenecks in the national innovation system
(governance, funding, policy instruments, etc.)
Link to RIS3: direct connection with the sector development priority „Fostering health industry“ and to horizontal priority „Strengthening innovation cooperations“
 - Concept / strategy for industry



Regional context (3)

- **Main actors in R&I**
- As EDIOP is a national tool, the actors represent the whole country (+mirror territorial OP for Central HU) :
 1. Medical universities
 2. Research institutions
 3. Hospitals
 4. SMEs and enterprises, as innovation suppliers
 5. Public organisations
 6. Others



Regional context (4)

- **Quadruple-helix cooperation**

The stakeholder group represents the quadruple helix:

1. Knowledge institutions & universities
2. Members of health care
3. SMEs, suppliers of innovation + Mid caps & multie
4. Public organisations (e.g. line ministries, agencies, background bodies, etc.)



Good practises

- Which type of good practise partners can offer?
(good practise project, good practise management, good practise related to strategic focus of program)
 1. Clusters & Industrial parks
 2. First steps to foster START Ups
by universities and/or industry and/or state
 3. Cooperations among Universites & Industry
 4. EIT Health
 5. Examples to grant a/m initiation by OPs
 6. Tention to open a call for PCP



Stakeholders

- Ministry of National Economy (Managing Authority)
- Ministry of Human Capacities
- National research, Development and Innovation Office
- Medical Universities
- Top management of hospitals & Staff
- Vendors of hospitals (+chamber + associations)
- Clusters, industrial parks (+associations)



EMBERI ERŐFORRÁSOK
MINISZTERIUMA

Role of R&D in the Economic Development and Innovation OP

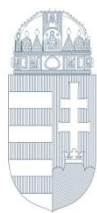
Peter Keller
Budapest, 9 October 2015

NEW INSTITUTIONAL BACKGROUND FROM 15 APRIL 2014

EDOP Intermediary Body



Hungarian Economic Development Centre

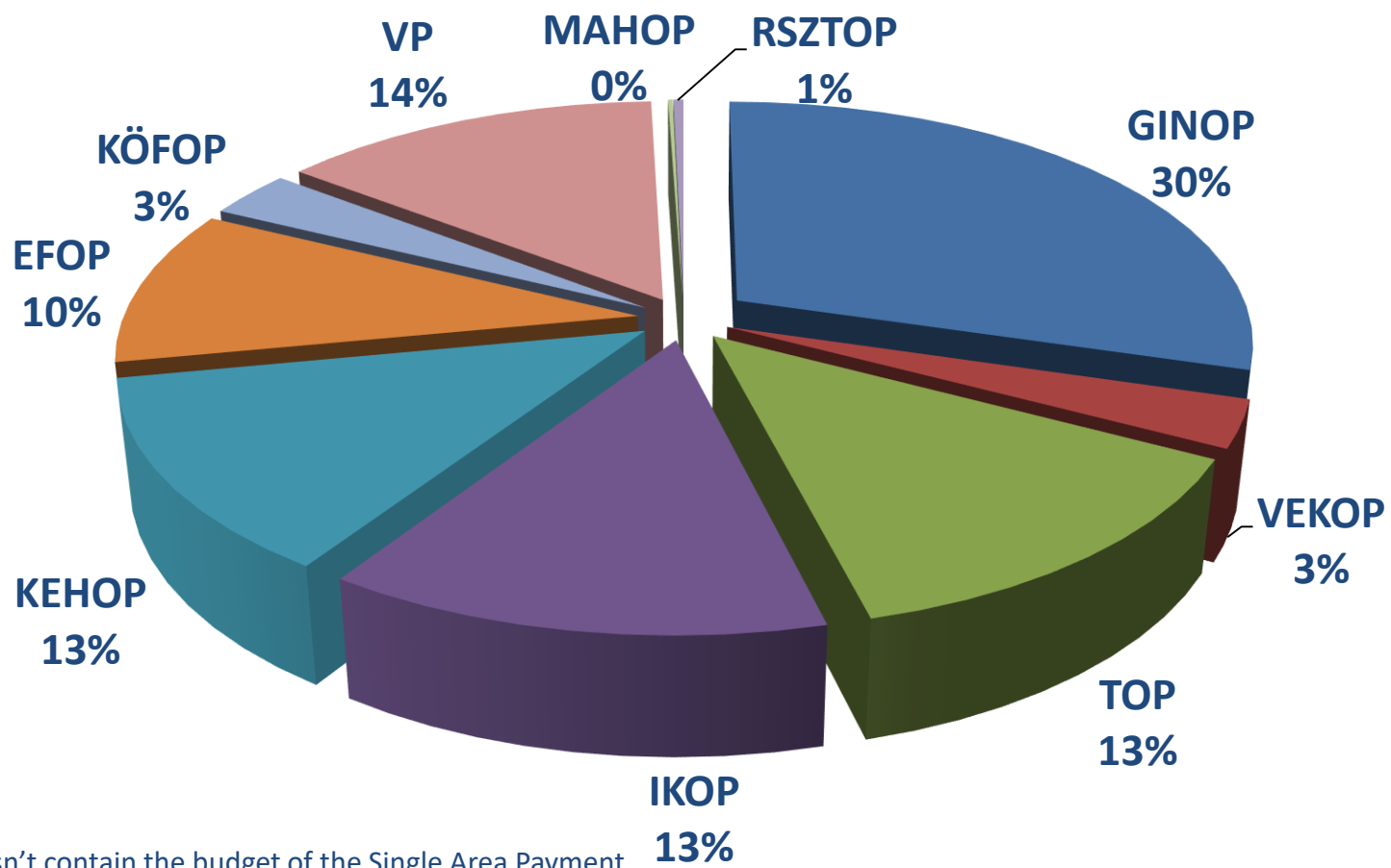


National
Development
Agency

EDOP Managing Authority



Name of the Operational Programme	million EUR
Economic Development and Innovation Operational Programme (GINOP)	8 813
Competitive Central-Hungary Operational Programme (VEKOP)	927
Territorial Operational Programme (TOP)	3 971
Integrated Transport Development Operational Programme (IKOP)	3 920
Environment and Energy Efficiency Operational Programme (KEHOP)	3 785
Human Resources Development Operational Programme (EFOP)	3 070
Public Administration and Services Operational Programme (KÖFOP)	935
Rural Development Programme (VP)	4 174
Hungarian Fisheries Operational Programme (MAHOP)	51
OP for Supporting Socially Disadvantaged Persons (RSZTOP)	111
+ direct Single Area Payment Scheme	7 643
Total	37 400



* The chart doesn't contain the budget of the Single Area Payment Scheme

2014-2020

**Economic Development
and Innovation
Operational Programme
(GINOP)**

1. Increasing the competitiveness and productivity of SMEs
2. Research, technological development and innovation
3. ICT developments
4. Energy
5. Employment
6. Competitive labour force
7. Tourism
8. Financial instruments

**Economic Development
Operational Programme**

R&D and innovation for competitiveness

Complex development of enterprises (focusing on SMEs)

Improvement of modern business environment

Financial instruments

Regional Operational Programmes (business infrastructure)

Regional Operational Programmes (tourism)

Environment and Energy OP

- Energy efficiency

Social Renewal OP

- Employment
- Competitive labour force

Social Infrastructure OP

- R&D&I infrastructure at universities



HUNGARIAN
GOVERNMENT

European Union
European Structural
and Investment Funds



INVESTING IN YOUR FUTURE

GINOP 2014-2020



1. SME
≈ 1582
M EUR

Capacity building
Modern business
infrastructure
Entrepreneurship
Clustering, access
to market

2. R&D&I
≈ 1688
M EUR

R&I
infrastructure
and capacity
Business R&I
Strategic R&I
cooperation

3. ICT
≈ 455
M EUR

Competitive
ICT sector
Digital
economy
Digital
catching-up
Broadband

4. Energy
≈ 226
M EUR

Energy
efficiency and
renewable
energy

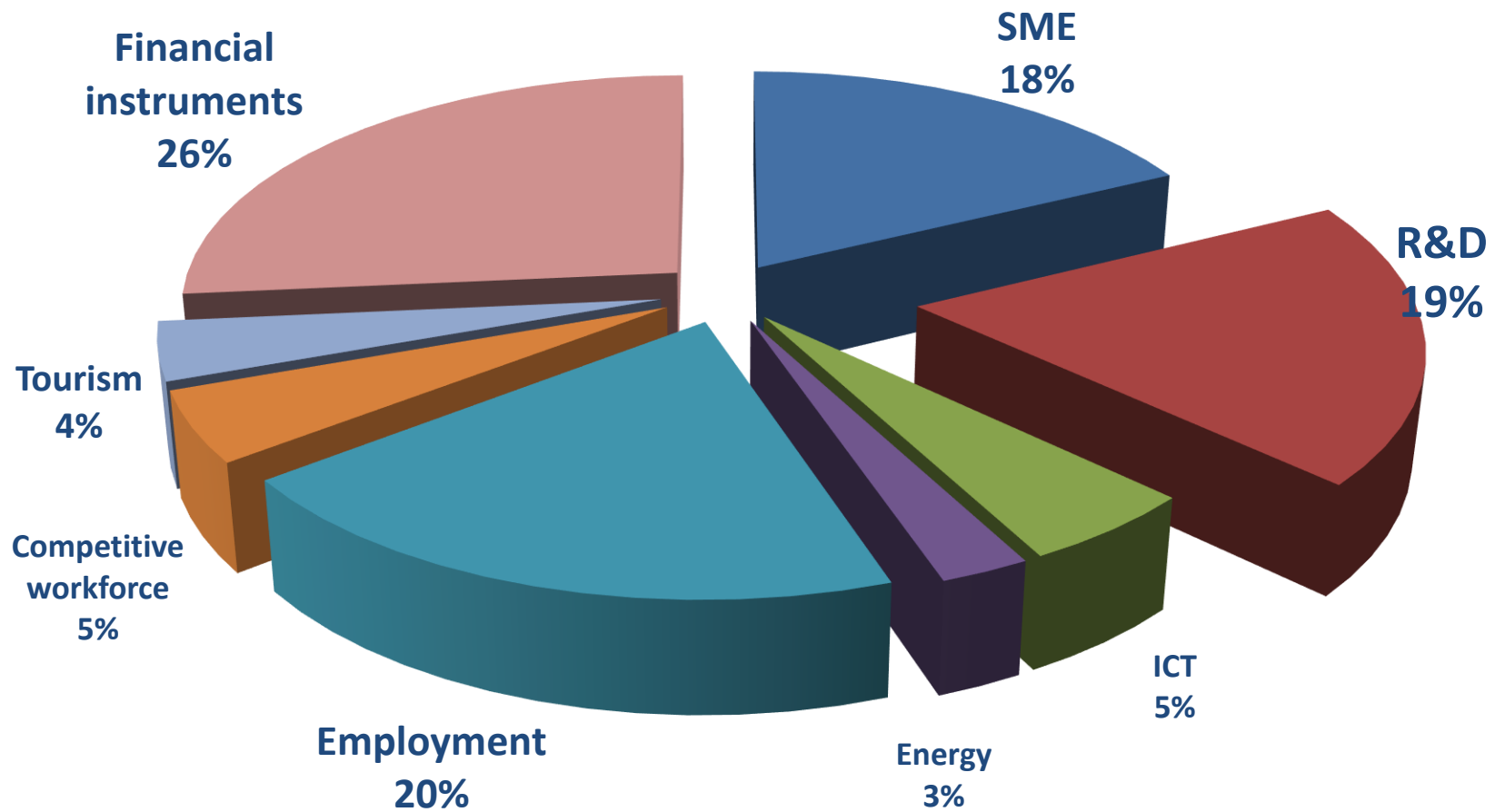
5. and 6.
Employment
and training
≈ 2239
M EUR

Employment
programmes
Trainee
programmes
Flexibility at
work
Training

7. Tourism
≈ 361
M EUR

Preservation
of natural and
cultural
heritage

8. Financial Instruments ≈ 2352 M EUR



compared to previous period

- No fragmented economic development programmes;
- Economy and enterprise development is in the focus;
- Focusing on SME development (manufacturing sector);
- Investment in less developed areas (Special Enterprise Zone);
- **Almost 1700 m EUR for R&D&I (double amount compared to 2007-13);**
- ESF sources integrated into the competitiveness OP;
- Largest priority for Financial Instruments in the EU28;
- Separated ICT priority;
- Reducing bureaucracy:
 - E-administration
 - Simplified procedures

R&D related calls

Numbar of call	Name of the call	Budget (m EUR)	Type of selection process
GINOP-2.1.1	Supporting R&D&I activities at enterprises	161.3	simplified
GINOP-2.1.3	Intellectual Property Rights	3.2	standard
GINOP-2.2.1	Competitive Cooperations	161.3	standard
GINOP-2.3.2	Excellence of Strategical R&D Centres	129	simplified
GINOP-2.3.3	R&D Infrastrucutre development – international networking	64.5	standard

Aim of the call

Enhancing the R&D&I capacity of enterprises

Eligible applicants

SMEs , large enterprises (individual and consortium form are both eligible)

**Amount of subsidy
Intensity rate**

0.16 – 3.2 million EUR

50-70% (Depending on the project)

**Supported
activities**

- Industrial research
- Experimental research
- Process innovation
- Purchasing machineries, intangible assets
- Infrastructural development
- Project preparation, project management
- Participation on fairs, exhibitions

Aim of the call

Supporting the domestic and/or international protection of intellectual property rights of inventions, creative works, industrial design rights, etc.

Eligible applicants

SME , non-profit organisations, public bodies

**Amount of subsidy
Intensity rate**

3 200 – 19 300 EUR

Max. 100%

**Supported
activities**

- Novelty, inventiveness and related search services
- Activities related to acquiring and maintaining protection of intellectual property rights
- Service activities related to the assessment and/or audit of intellectual assets

Aim of the call

Facilitating the long term strategic cooperation between enterprises and research organisations.

Eligible applicants

Forming consortia is compulsory!!!!: SMEs, large enterprises, non-profit organisations with R&D activities, public bodies

**Amount of subsidy
Intensity rate**

1.6 – 13 million EUR

50-70% (Depending on the project)

**Supported
activities**

- Basic research
- Industrial research
- Experimental research
- Purchasing machineries, intangible assets
- Infrastructural development
- Project preparation, project management

Code number	Name of the call	Budget (m EUR)	Type of selection process
GINOP-2.1.4	Innovation voucher	9.6	simplified
GINOP-2.1.5	Innovative eco-system (start-up, spin-off)	16.1	simplified/ standard
GINOP-2.1.7	Prototype, product-, technology- amd service development	64.5	standard
GINOP-2.3.1	Developing international R&D cooperations	11.3	simplified
GINOP-2.3.4	Higher Education and Industrial Cooperation Centre – development of research infrastructure	80.6	standard

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- <https://global.gotomeeting.com/join/837204341>