



European Union



OPERATIONAL PROGRAMME “SCIENCE AND EDUCATION FOR SMARTH GROWTH” 2014-2020

**Ivan Modev – General Director, GD SFIEP
Ministry of Education and Science**

OP SESG – Priority axes

Priority axis 1:

Research and technological development- ERDF

- **Thematic objective 1: Strengthening research, technological development and innovation**

Priority axis 2:

Education and lifelong learning – ESF

- **Thematic objective 10: Investing in education, training and vocational training for skills and life-long learning**

Priority axis 3:

Educational environment for active social inclusion - ESF

- **Thematic objective 9: Promoting social inclusion, combating poverty and any discrimination**

Priority axis 4: Technical assistance – ESF

Priority axis 1: Research and technological development

Investment priority 1 a:

Enhancing research and innovation (R&I) infrastructure and capacities to develop R&I excellence, and promoting centres of competence, in particular those of European interest

Specific objective 1: Enhancing excellent and market-oriented research

Specific objective 2: Improving territorial and thematic distribution of research infrastructure, with a view to regional smart specialisation

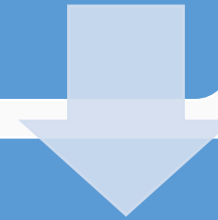
Specific objective 3: Increasing the participation of Bulgarian researchers in international cooperation

HORIZON 2020

MAIN PRIORITIES

"Excellent science"

- support for researchers
- support for new technologies
- support for construction of research infrastructure
- scholarships for young researchers



"Industrial leadership"



"Societal challenges"

OP SESG and HORIZON 2020 COMMON CHALLENGES

**Better conditions for
research and
technological
development**

**Creating new
research networks
and partnerships for
cooperation and
development**

**Access to new
markets**

OP SESG and HORIZON 2020 COMMON CHALLENGES

**Supporting the
development of
motivated and highly
qualified researchers**

**Partnership between
business, research
organizations and
universities**

**Development of
knowledge-based
economy**

“THE SEAL OF EXCELLENCE CERTIFICATE”

It is used for creating synergies between Horizon 2020 and other funding sources such as the European Structural and Investment Funds.

The ‘Seal of Excellence’ certificate will be awarded to the applicants whose proposals are not funded by Horizon 2020.

A holder of the certificate can approach alternative funding sources (regional, national, private or public) and present the certificate as a label of a high-quality project proposal.

OP SESG and OP IC

OP SESG

Construction of research and innovation infrastructure

Support for human resources

Support for research and technological development

OP IC

investment in applied research and innovation

creating specific products and services in enterprises

Economic growth

Priority axis 1 and ISIS

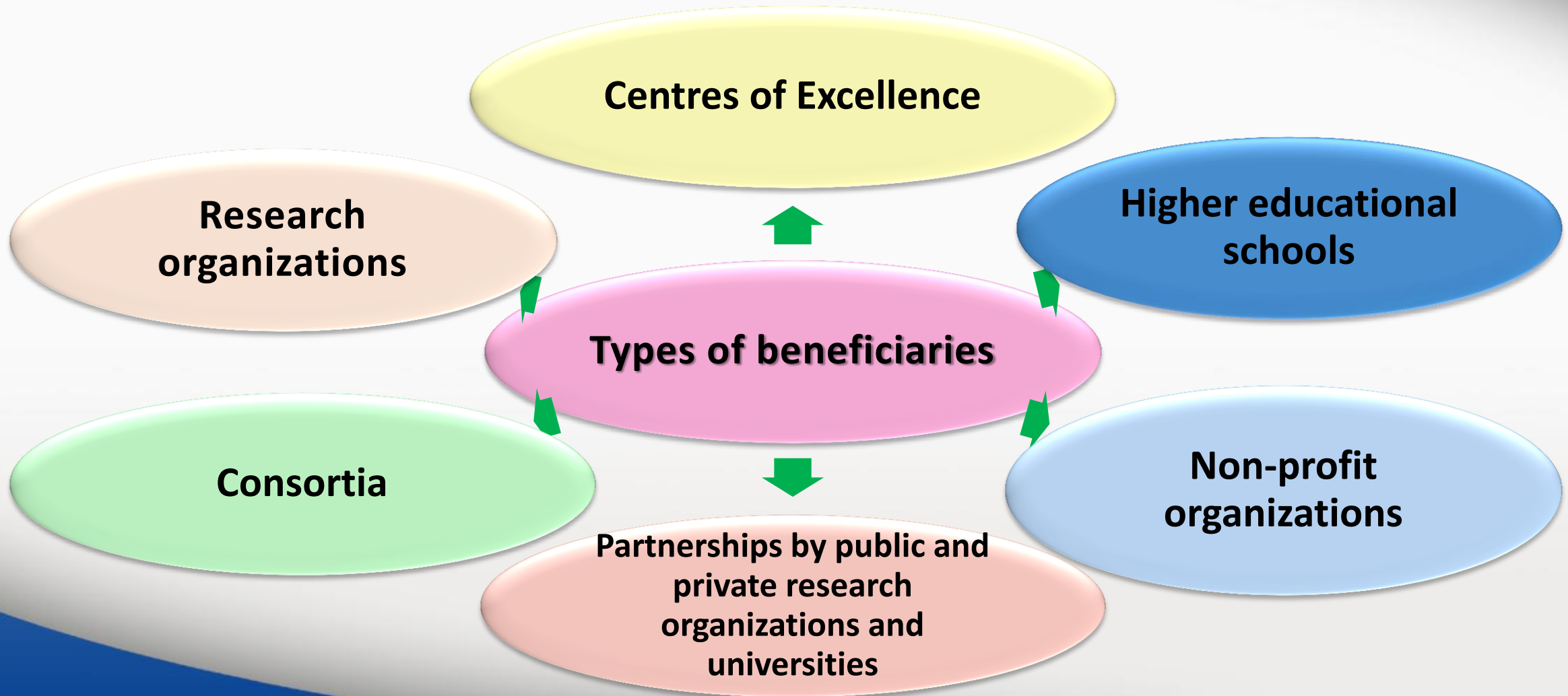
Mechatronics and clean technologies

Informatics and information and communication technologies

Industry for a healthy life and biotechnology

New technologies in creative and recreational industries

CREATION AND DEVELOPMENT OF CENTRES OF EXCELLENCE



**BUDGET –
102 258 376,24
EUR**

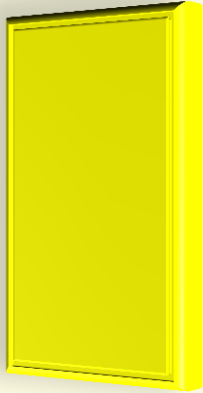
Component 1 “Mechatronics and clean technologies” – 35 790 431,68 EUR

Component 2 “Informatics and Information and Communication Technologies – 15 338 756,44 EUR

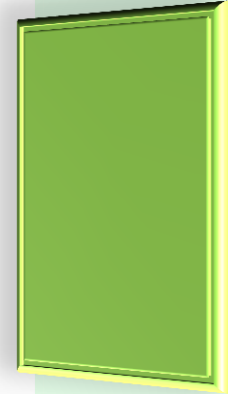
Component 3 “Industry for a healthy life and bio-technology” – 35 790 431,68 EUR

Component 4 “New technologies in creative and recreational industries” – 15 338 756,44 EUR

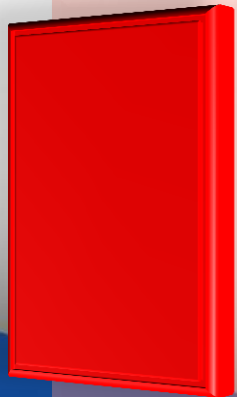
ACTION TO BE SUPPORTED



- Building of new or major upgrade of existing specialized research infrastructures;
- Purchase and upgrade of equipment, needed for realization of research programs;
- Introducing new research, training and educational methods;



- Conducting market-oriented research at highest international level in the priority areas;
- Attracting principal investigators and top specialists for conducting high level research in the priority areas;
- Building strategic partnerships and joint research programs with leading European research centres;

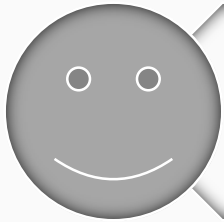


- Ensuring excellent working and training conditions for the involved researchers, including high rate of exchange and mobility;
- Dissemination of the scientific results amongst academic community and the business at international and national level;
- Development of sustainable sources of funding and operating conditions, including the development of sustainable partnerships with business and conducting joint projects with private investors;

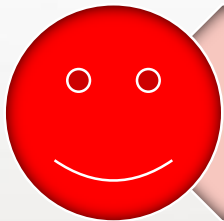
MAIN TARGET GROUPS



**researchers, entrepreneurs, innovators,
educators (lecturers)**



research participants, young researchers



**doctoral students,
post-doctoral researchers, graduate students**



university students, school students

INDICATORS

Output indicators

**70 new researchers in the funded subjects
(Centres of Excellence);**

**100 researchers, working in upgrade
infrastructural areas for research;**

**4 new-built infrastructural areas in the
Centres of Excellence;**

**40 joint research projects, developed between
Centres of Excellence and business.**

Result indicators

**Part of highly cited publications out of the
10 % of publications in the respective
area of ISIS – 4 %;**

**Public expenditure amounted to 0.03% of
GDP for research and development
(GOVERD plus HERD), funded by
enterprises**

Criteria for technical and financial evaluation

I. EVALUATION OF THE PROJECT CONCEPTS – 100 p. – 70 %

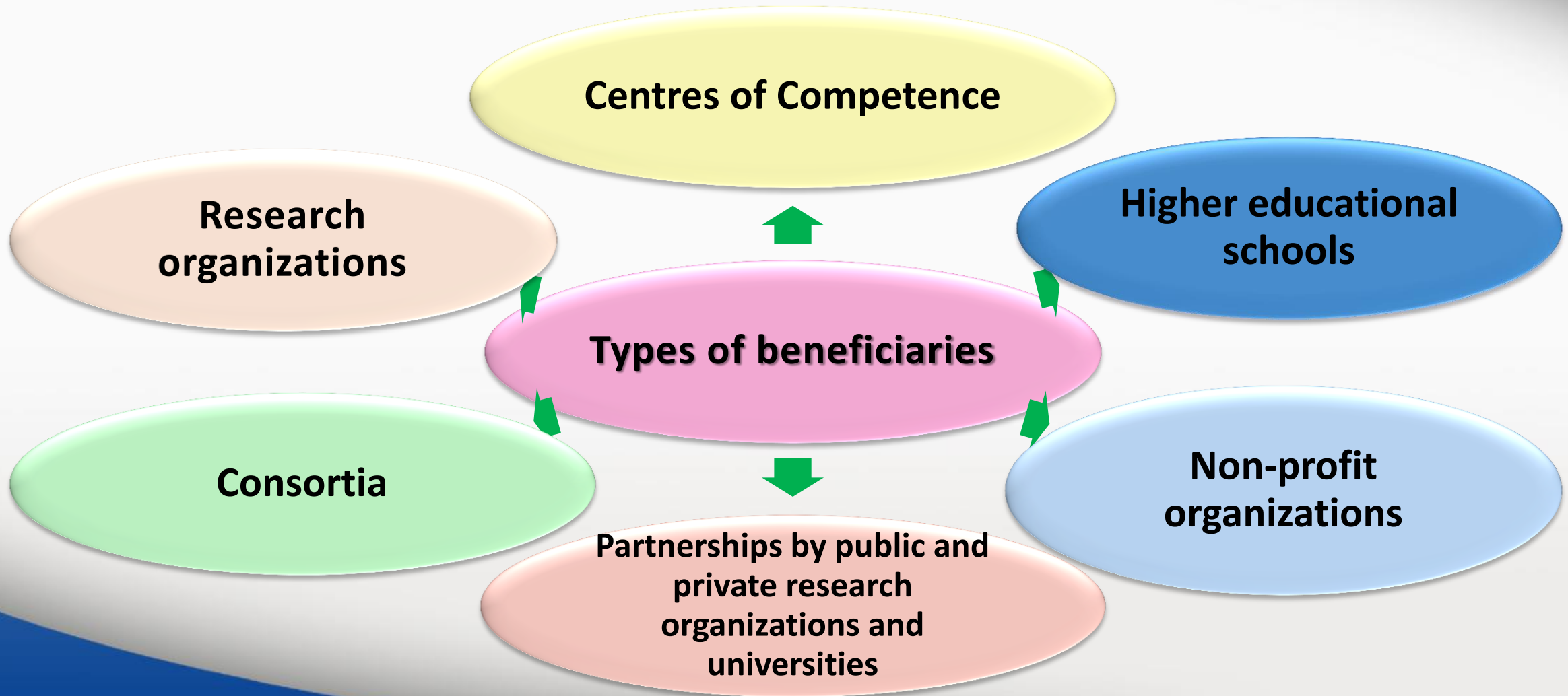
- Evaluation of the proposed structure of Centres of Excellence– 6 p.
- Evaluation of the programs for research and innovation in the priority area – 36 p.
- Evaluation of the research program's economic impact– 8 p.
- Evaluation of the plan for the use of new-build research infrastructure – 10 p.
- Evaluation of the Financial Plan and the sustainability of results– 18 p.
- Evaluation of the research, administrative and management capacity – 17 p.
- Bonus points for project short-listed for the call „Teaming“ (Horizon 2020)– 5 p.

Criteria for technical and financial evaluation

II. EVALUATION OF THE RESEARCH POTENTIAL OF THE MAIN ORGANIZATION – 100 p. – 30 %

- Evaluation of the research achievements in the area specified in the concept proposal over the last five years– 30 p.
- Evaluation of the state of the human research potential in the area specified in the concept proposal– 30 p.
- Evaluation of the use of the available research equipment– 20 p.
- Evaluation of the research qualities of the associated partners– 20 p.

CREATION AND DEVELOPMENT OF CENTRES OF COMPETENCE



**BUDGET –
76 693 782,18
EUR**

Component 1 “Mechatronics and clean technologies” – 24 542 010,30 EUR

Component 2 “Informatics and Information and Communication Technologies – 13 804 880,8 EUR

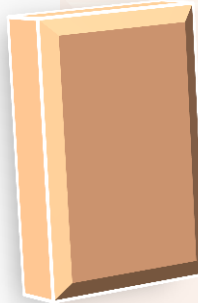
Component 3 “Industry for a healthy life and bio-technology” – 24 542 010,30 EUR

Component 4 “New technologies in creative and recreational industries” – 13 804 880,8 EUR

ACTION TO BE SUPPORTED



- To build specialized infrastructures and purchase equipment, needed for realization of their specific research programs and innovation agendas;



- To conduct research (applied, mission-oriented, experimental development) and to develop/modify new technologies at high international level;



- To introduce new innovation, training and educational methods;
- To ensure the specialization of top researchers and innovators in the priority areas;

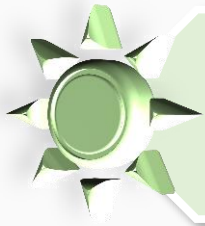


- To develop as leaders in the competitive international and national innovation systems;
- To develop strategic partnerships with leading technological research organizations and companies in Europe;

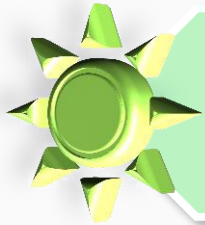


- To develop and commercialize own IP portfolio, and to secure sustainable non-public funding;
- To create new start-up, spin-off and spin-out companies;

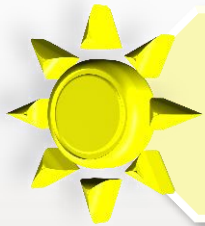
MAIN TARGET GROUPS



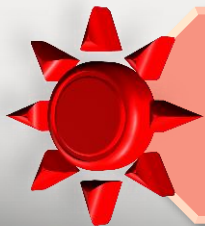
**researchers, entrepreneurs, innovators,
educators (lecturers)**



research participants, young researchers



**doctoral students,
post-doctoral researchers, graduate students**



university students, school students

INDICATORS

Output indicators

**180 new researchers in the funded subjects
(Centres of Competence)**

**250 researchers, working in upgrade
infrastructural areas for research;**

**8 new-built infrastructural areas in the
Centres of Competence;**

**110 joint research projects, developed
between Centres of Excellence and business.**

Result indicators

**Public expenditure amounted to 0.03% of
GDP for research and development
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Criteria for technical and financial evaluation

II. EVALUATION OF THE RESEARCH POTENTIAL OF THE MAIN ORGANIZATION – 100 p. – 30 %

- Evaluation of the innovation activities of the organizations over the last five years – 20 p.
- Evaluation of the research achievements in the area specified in the concept proposal over the last five years– 20 p.
- Evaluation of the state of the human research potential in the area specified in the concept proposal– 20 p.
- Evaluation of the use of the available research equipment– 20 p.
- Capacity analysis for research and innovation of the associated partners– 20 p.



European Union



THANK YOU FOR THE ATTENTION!

web: <http://sf.mon.bg>