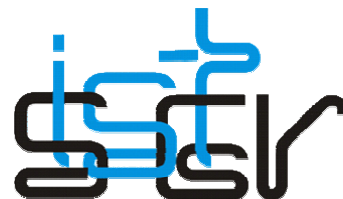


Industry-academia collaboration in Bulgaria – the case of Sofia University

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Thessaloniki, 24-25.04.2009



Main topics

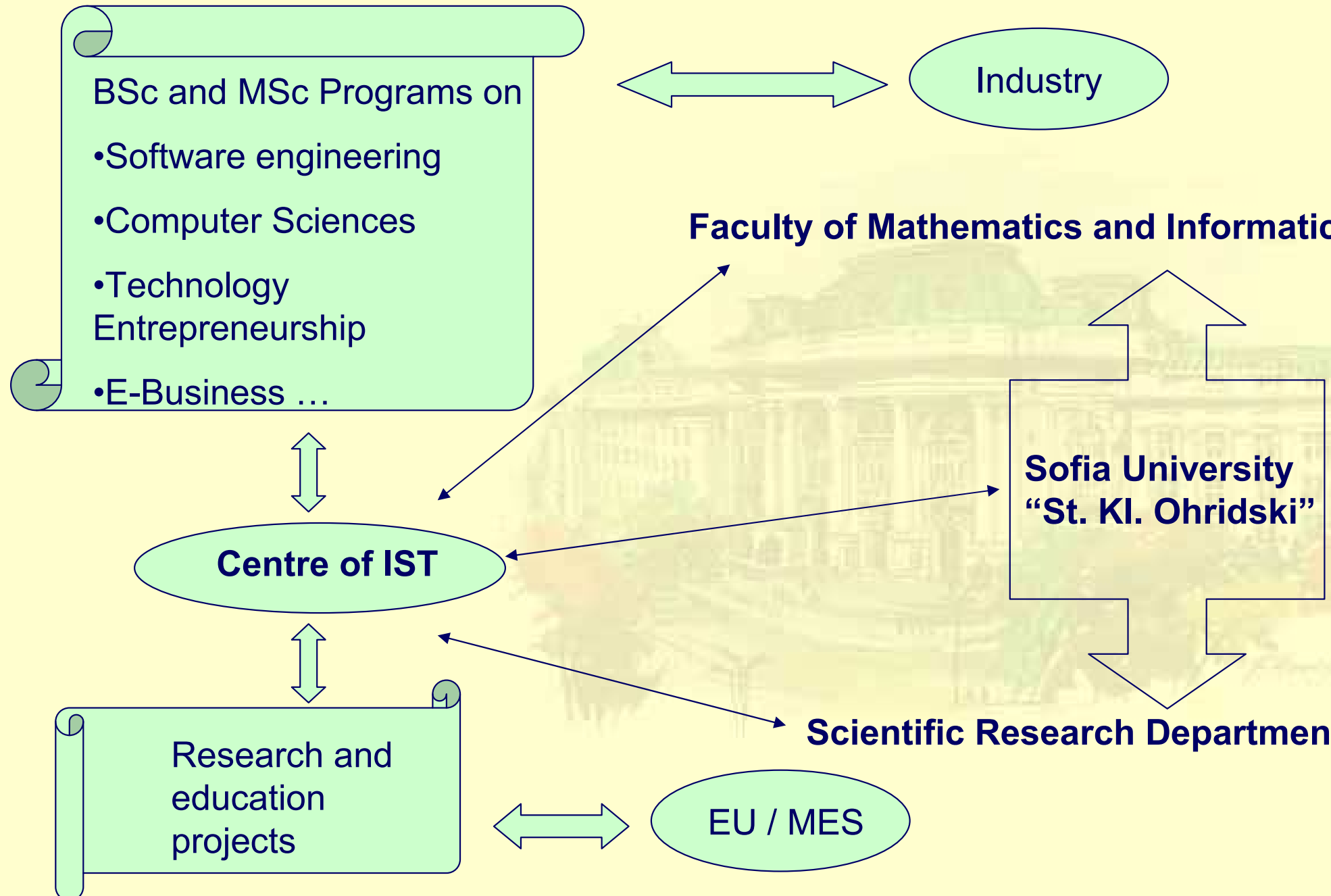
- Introduction
- Best practice cases at Sofia University
- Trends in innovation and technology transfer
- Challenges for FMI
- Outlook

Sofia University “St. Kliment Ohridski”



- The first school of higher education in Bulgaria
- The largest and most prestigious university in Bulgaria, a big academic and scientific centre
- 16 Faculties on humanities and scientific disciplines
- More than 18 000 students and 3000 lecturers and administrative staff

Centre of Information Society Technology



Technology Transfer Office

<http://tto.uni-sofia.bg/>

- TTO activities:
 - allocation of new knowledge to be developed in new products, materials and services and commercialised;
 - raising awareness of researchers on business needs
 - transparency of research results
 - promotion of TTO services and training
- TTO tools:
 - web site, data bases
 - services - feasibility analysis, development of a demonstrative/promotion tool of research results, and the enterprise technological needs assessment

Main topics

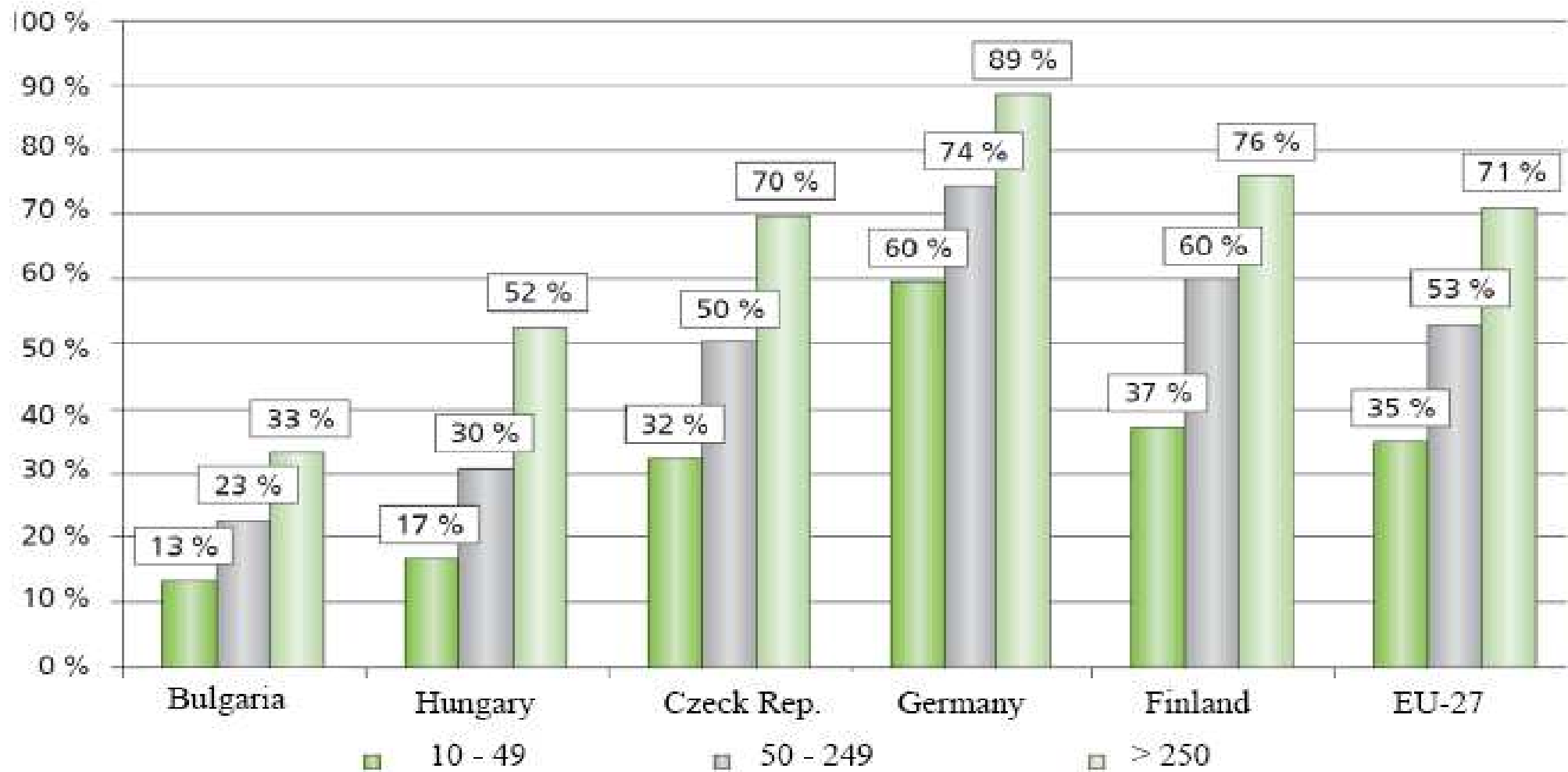
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Main weaknesses in Bulgaria

(European Innovation Scoreboard)

- Weak links between science and businesses
- Not sufficient measures to develop innovation infrastructure, support services, technological brokerage, intermediary services, etc.
- Not involvement of university students in scientific and technological activities
- Low innovative culture and weak innovative culture of businesses
- Low level of investment in new products and processes
- Slow implementation of measures and not systematic and transparent evaluation, etc.

Innovation firms by number of employees



Knowledge creation in Bulgaria

among 145 countries:

- 39 place in Physics
- 45 in Mathematics and Chemistry, growing publications and their citation by other researchers
- 47 in Computer Science and Engineering, with decreasing from 1995 to 2003 publications and their citations
- very low commercialization of research results

Type of academia-industry collaboration in Bulgaria

Consultations	17%
Training, seminars, conferences	13%
Organization of student, doctoral, etc. research practices	11%
Assisting the management of business processes	8%
Studies of the effectiveness of technologies/products/services	7%
Creation of new technologies	6%

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FP7 SISTER project

WP5: Management and Control

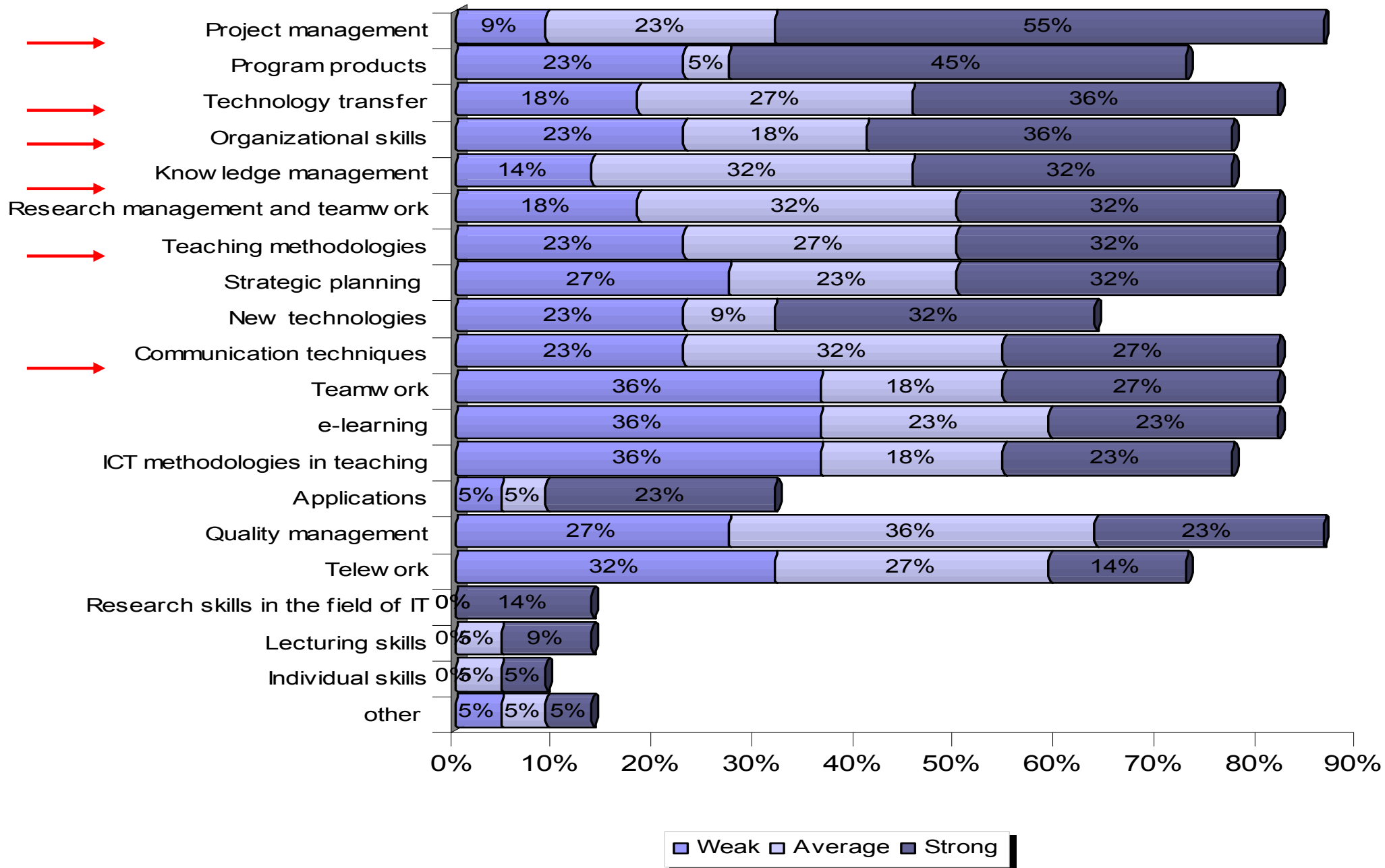
WP1: Definition of an ICT RTDI
Strategy of FMI

- Strategic goal of WP3:
 - Strengthening the innovation, technology transfer capacity and interdisciplinary skills of FMI staff
 - Enhancing FMI collaboration with partners outside the academic community
 - Exchange of knowledge and best practices
 - Expanding interdisciplinary education and training

FMI staff and users' surveys

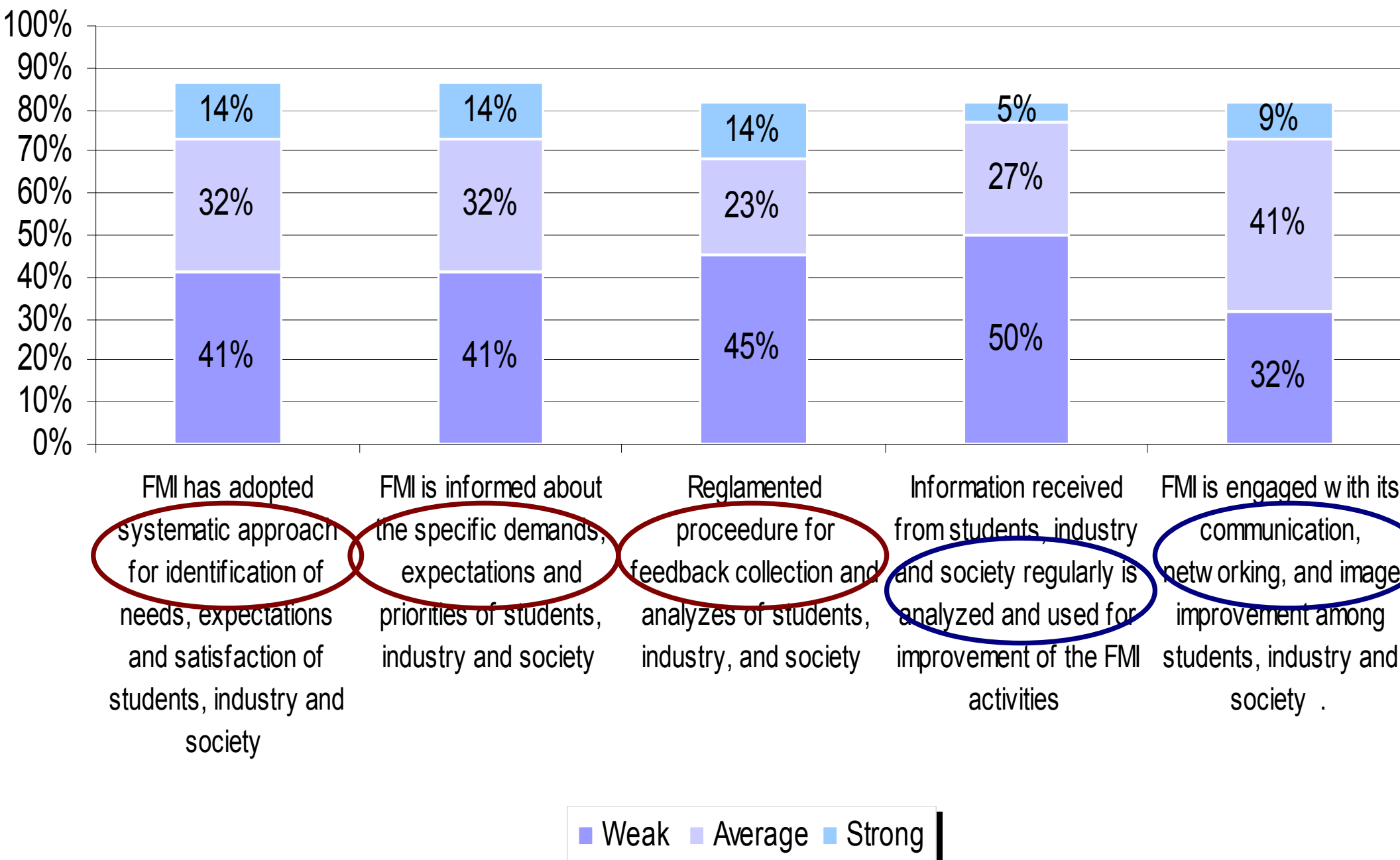
- FMI staff experience, skills, and research interests and needs
- Research priorities according to FMI staff – on European, on national, and on personal short-term and long-term level
- Personal assessment of the organization and work within FMI
- Evaluation of the overall national environment and attitudes toward researchers and research career in Bulgaria.

Needs for additional training



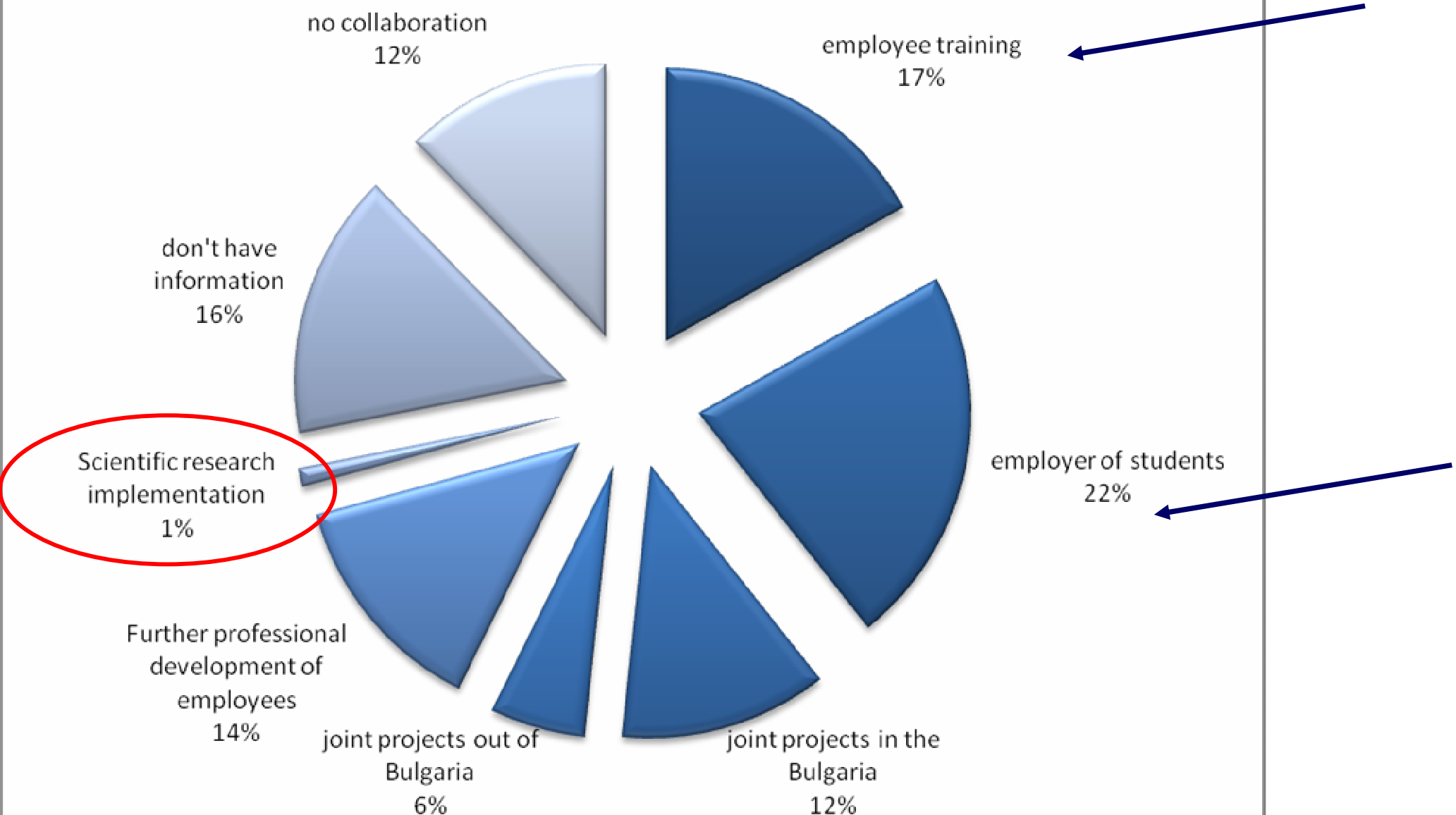
Relationships with Students

Industry and Society



Collaboration with businesses at FMI

What kind of collaboration has your organization with FMI?



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Challenges for Bulgaria

- increase the R&D expenditure (public and private) and develop more successful commercialisation of the research base
- a strong link between science institutions, enterprises and other institutions involved in the innovation system
- increase the competitiveness of Bulgarian products and enterprises by stimulating the innovativeness of companies.

Challenges for FMI

- key aspects of effective knowledge-transfer strategy:
 - actionable message
 - target audience
 - knowledge-transfer processes and supporting communications infrastructure
 - evaluation - performance measures
- strengthen TTO and links with industry
- transparency of FMI research
- interdisciplinary skills building

Exchange of knowledge and experience

- Industry-academia collaboration
 - Technology transfer institutions
 - Business incubators
 - Mobility patterns: exchange of staff and internship
 - Technology entrepreneurship and business patterns
- Strengthen research in Knowledge management
 - Main technologies and techniques used
 - Knowledge audit and measurement
 - Organizational culture and knowledge sharing
 - Practical cases

Thank you for your attention!

Questions?

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