



>Activities at both the policy and operational level to structurally strengthen S&T cooperation between the EU MS, ACs and the Eastern **European and Central Asian countries:**

IncoNet EECA

http://www.inco-eeca.net/

- Policy aspects;
- Enhance participation in FP7;
- Analyses, Quality and Dissemination



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WP 5: Analyses, Monitoring and Review





- Analysis of S&T cooperation patterns
- Improving S&T Statistical Systems
- Analysis of national policies towards global challenges

"R&D and Innovation Statistics" International Training Workshop, Moscow, 23-24 May 2011



Rationale (1)



SEVENTH FRAMEWORK PROGRAMME

Reliable, valid and comparable S&T statistics are essential for assessing the S&T situation in the EECA and their performance, both for domestic policymaking purposes and for international comparative purposes (e.g. UN level; international policy dialogue on S&T).





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Objective of the Study



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Analysis of the structure and (in)compatibility of S&T statistical systems (including indicators) in EECA

 Based on the degree of implementation of the FRASCATI Manual;



- Identification of weak areas;
- Recommendations on improving S&T statistics and ways of adapting them to international standards;
- Elaboration of a generic proposal to be submitted for funding

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Methodology

- Questionnaire to Statistical Offices (2008)
- Analysis of incompliance with OECD standards (2008)
- Expert workshop to discuss analysis (2008)
- Pilot case in Moldova (2008)
- Final baseline study on the state of S&T statistics in EECA published (2009)
- Generic proposal to overcome the deficits of S&T statistics in EECA elaborated (2009)

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Governments of the countries under scrutiny place extremely high emphasis on S&T, maintaining control over managing and funding.

The majority of the countries use international indicators.

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Regional comparisons and comparisons on global scale are believed to be of







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Data about government sector and the higher education sector are best available; Borderline problems with public enterprises, higher education institutes, hospitals, private non-profit institutes..; Institutional classification)

more differentiated data on the business enterprise sector is lacking in some countries Borderline problems (public enterprises, institutes, science parks..; Industrial branch classification; Subsectors possibly not yet covered, i.e sector totals underestimated;. Minimum size of enterprises/firms for inclusion in survey's); Treatment of SMEs.)

private non-profit sector is the weakest covered sector;





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- By source of funds:

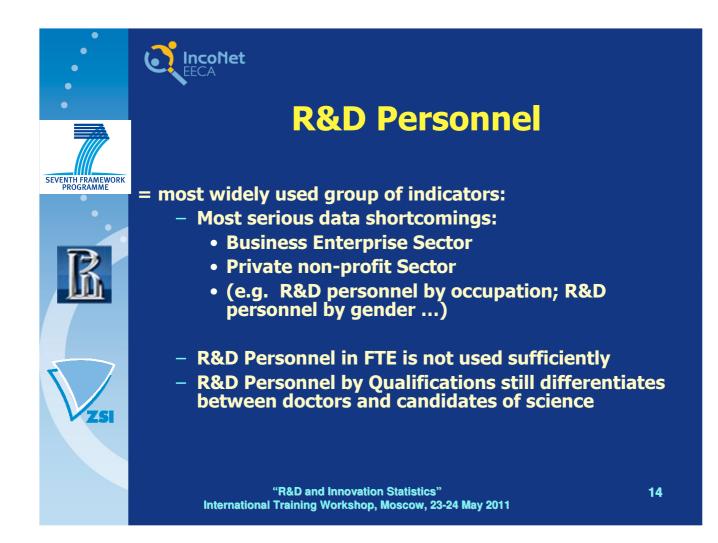
 not all countries collect this kind of data across sectors;

R&D Expenditure

- most available information is about government appropriations to the different sectors of performance.
- an obvious data problem as regards business source of funds, not only to the business enterprise sector itself but also towards the other sectors of performance.

 It makes the development of more precise, more valid statistics on funding sources crucial.

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- Least used classifications are "product groups"
- (ISIC/NACE) and "Socio-Economic Objectives" (NABS)

Further Issues (1)

- GBOARD related groups of indicators are scarcely used
- Regional differentiation could be enhanced

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Further Issues (2)



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> Moreover, all countries lack experience in innovation related STI statistics. This includes methodologies of sampling and data recording, indicators, production and analysis of innovation statistics and dissemination. Thus, it is recommended to start with first trial exercises in applying the Oslo Manual in EECA countries in practice.

> Finally, there is a need to develop R&D statistical studies and statistical education and retraining in EECA countries.





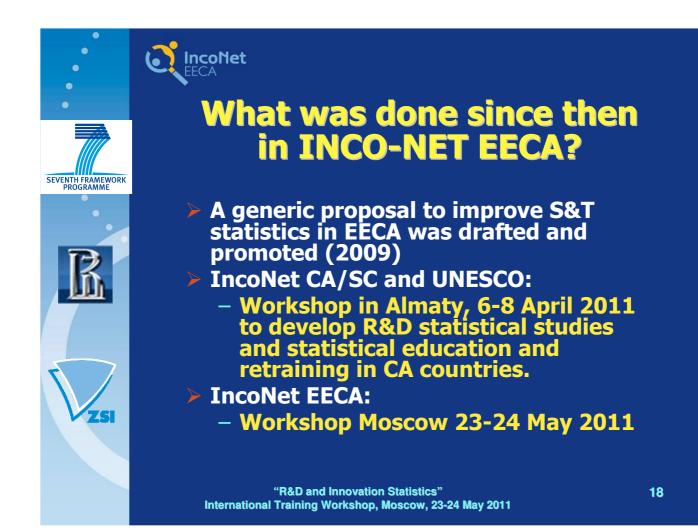




Conclusion of the Study

- Trend toward internationally accepted standards
- further development of national R&D statistics demands adjustment and improvement of existing methodologies for collecting and presenting R&D indicators to make them fully compatible with international statistical standards;
- need to develop R&D statistical studies and statistical education and retraining in EECA countries.

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R	 UNESCO UIS, Science and Technology Statistics http://www.uis.unesco.org/ EUROSTAT, Science, Technology and Innovation http://epp.eurostat.ec.europa.eu/portal/page/portal/eurostat/home/ http://epp.eurostat.ec.europa.eu/portal/page/portal/science_technology_innovation/introduction UNECE -The United Nations Economic Commission for Europe (UNECE) http://www.unece.org/about/about.htm UNCTAD – INSTI, UN International Network of Science and Technology
ZSI	 ONCIAD – INSTI, ON International Network of Science and Fechnology Institutions http://www.unctad.org UNIDO, Research and Statistics Branch http://www.unido.org/index.php?id=4879 THE WORLD BANK, World Development Indicators (WDI) – S&T Indicators http://data.worldbank.org/indicator/
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