

Danube Rectors' Conference

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Vienna, November 17th and 18th

Proceedings of the DRC Annual Meeting 2011

EU Strategy for the Danube Region - Contributing to a Prosperous Danube Region

Dr. Erhard Busek

President, Institute for the Danube and Central Europe (IDM)
Coordinator, Southeast European Cooperative Initiative (SECI)

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Content:

- I. EU Strategy for the Danube Region
–Where do we stand?
- II. Financing Implementation
- III. Economic Impact
- IV. Some food for thought.

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I. EUSDR



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I. EUSDR – Structure



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I. EUSDR – Implementation?

■ **3x NO to New:**

- institutions;
- legislation;
- funds.

■ **But, also 3x YES to:**

- alignment of funds;
- coordination of available instruments;
- new ideas

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I. EUSDR – Implementation

- Priority Coordinators and Steering Groups Established;
- Intensive consultation processes on priorities within each PA and their activities ongoing;
- PA 7 – Focus on Mobility, IT and Smart Specialisations, but other priorities also important.

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II. Financing proposals

Proposals for streamlining financing of Danube Projects and EUSDR are being considered:

- a) **“DANUBE Brokerage PLATFORM FOR FINANCING”** would involve in particular the Structural Fund Programmes, the IPA Coordinators, representatives of the ENPI programmes, the National Funding sources and the main International Financial Institutions.

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II. Financing proposals

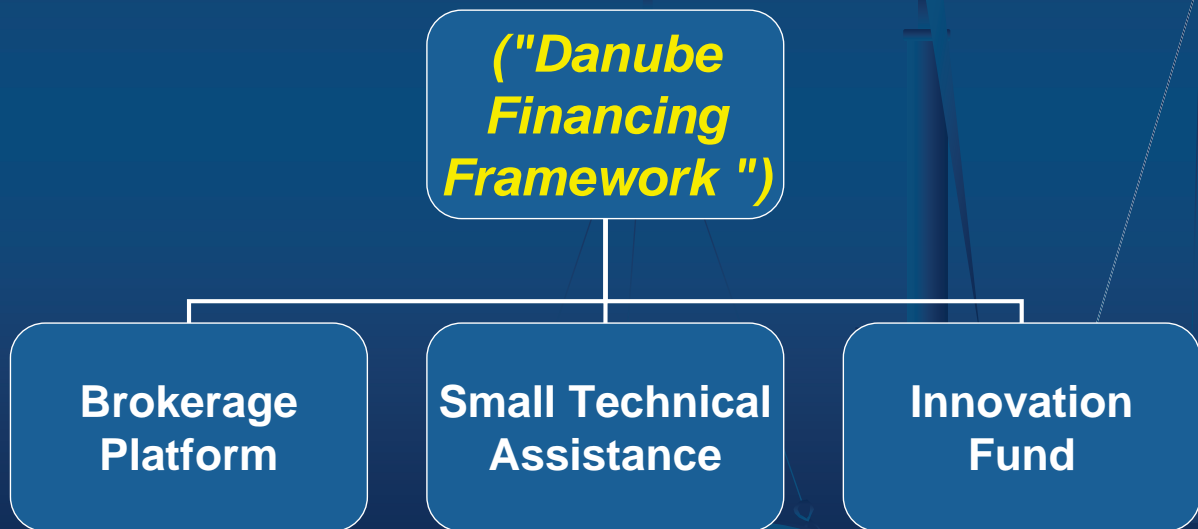
- b) **Danube Research and Innovation Fund (PA 7)** – a fund dedicated specifically to the needs and the requirements of research and education institutions from the Danube Region

MAJOR FINANCING INSTITUTIONS AND STAKEHOLDER ARE DISCUSSING THE MOST SUITABLE SOLUTION.

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II. Financing proposals

- **Potential financing structure**



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III. EUSDR – Economic impact

- EUSDR Implementation should produce sustainable economic benefits;
- Sustainable economic development is not possible if the members of the economic chain do not communicate with one another;
- Education and research should serve the needs of the market and the market should innovate to produce sustainability – economically as much as socially.

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III. EUSDR – Sustainability

- Coordination and communication between the various PAs is crucial for producing sustainable economic impact in the Danube Region;
- Each PA should identify how its activities directly / indirectly impact other PAs, both in terms of policies as much as in terms of projects.

HORIZONTAL ACTION

Specific PA priorities and projects should try to integrate the directly and indirectly affected PAs in the early stage of development of their activities.

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IV. Some food for thought

- **Encourage**
- **Unite**
- **Support**
- **Develop**
- **Respect**

Communicate, Involve, Innovate,
Coordinate, Integrate.... and contribute to
the EUSDR process in a meaningful way.

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THANK YOU FOR YOUR ATTENTION

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University Development in the Danube Region

Prof. Georg Winckler
University of Vienna

Introductory remark (I): Economic Convergence Central Europe/EU 1989 – today:

Real structural convergence

- > catching up with growth (GDP per capita)
- > nominal (monetary) convergence (exc. SK, SLO)

see Colin Clark (1940): three-sector-theory

Chenery (1975+86), Gacs (2003): convergence of labor productivity in the same sectors in different countries (supply factor, convergence of educational systems), unleashing consumer demand (e.g., demand for higher education)

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Introductory remark (II): The service sector

Marxist Theory: services not activities that produce new value (only redistribution), „physical economy“, supply of services either impeded (e.g., financial intermediation) or centrally controlled (telecommunication, education)

Unleashing demand for services in a market economy e.g.,
private universities with few regulations

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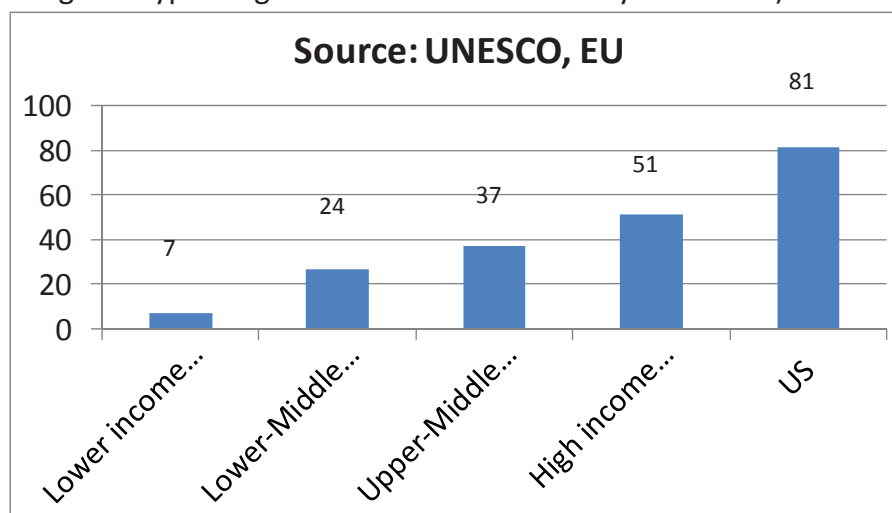
Introductory remark III: emerging knowledge societies

- The importance of education for employment and growth has, at first, focused on the importance of primary and secondary education. Yet, the capacity to succeed in today's modern society and today's global economy depends more and more on higher education (massification, research based education) and on the implementation and acceptance of research driven innovations. Schumpeterian growth theory!
- „Lisbonisation“ of EU's structural policies

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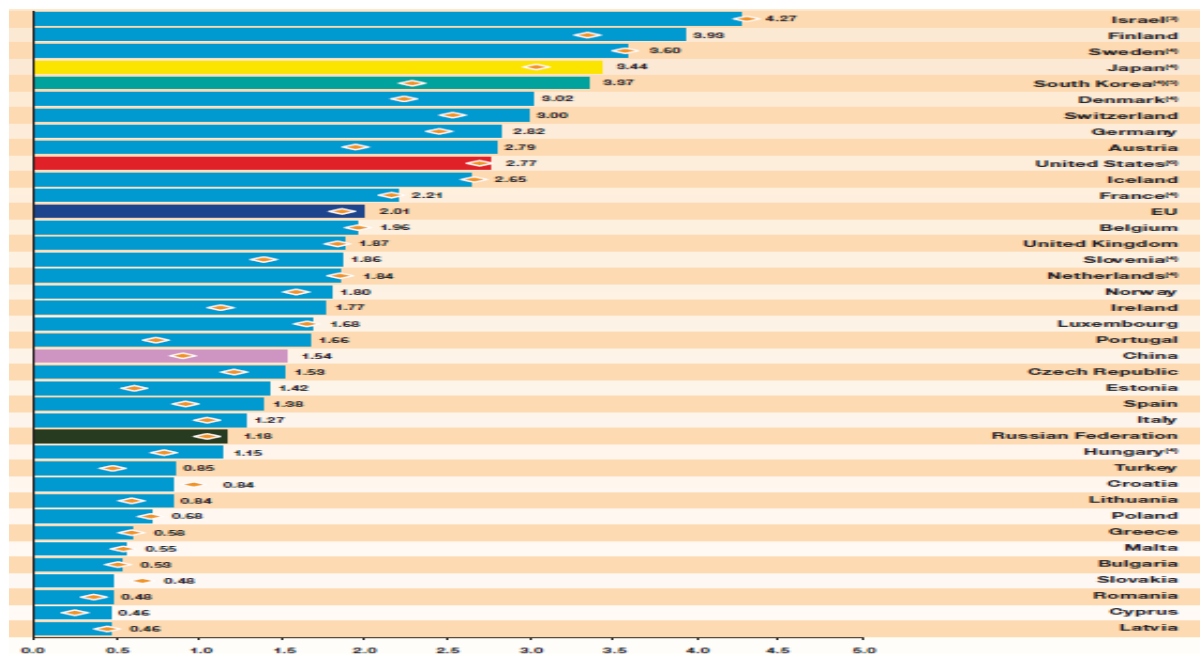
Introductory remark IV: tertiary education

Average enrolment rate in tertiary education by countries' level of income (2004) (Ratio of tertiary education students to the population having the typical age to be enrolled in tertiary education)



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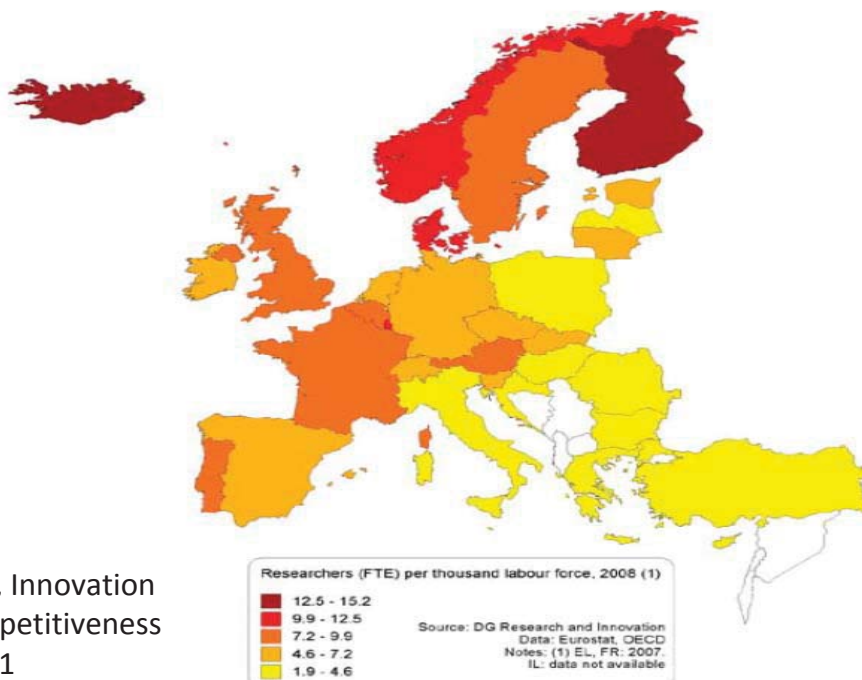
Facts (1) – R&D Intensity 2000 and 2009



Source: EU, Innovation Union Competitiveness Report 2011

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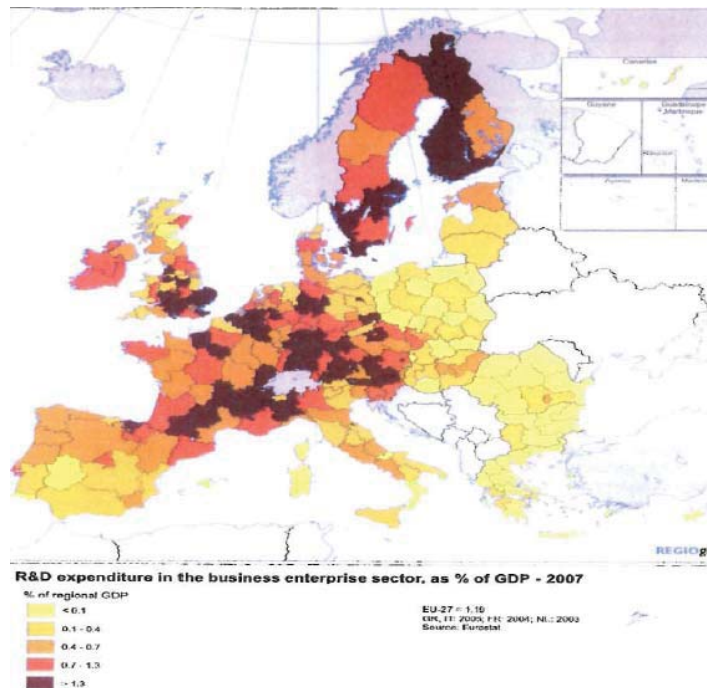
Facts (2) – Researchers (FTE) per thousand labour force, 2008



Source: EU, Innovation
Union Competitiveness
Report 2011

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Facts (3) - Business R&D expenditure as % of GDP by NUTS 2 regions, 2007



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Facts (4) Ausgaben für Bildungseinrichtungen als Prozentsatz des BIP, nach Herkunft der Mittel und Bildungsbereich (2008) Finanziert mit Mittel aus öffentlichen und privaten Quellen (Teil 1)

	Elementarbereich			Primar-, Sekundar- und postsekundärer, nicht tertiärer Bereich			Tertiärbereich			Alle Bildungsbereiche zusammen		
	Öffentlich ¹	Privat ²	Gesamt	Öffentlich ¹	Privat ²	Gesamt	Öffentlich ¹	Privat ²	Gesamt	Öffentlich ¹	Privat ²	Gesamt
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
OECD-Länder												
Australien	0,04	0,04	0,08	3,0	0,6	3,6	0,7	0,8	1,5	3,7	1,4	5,2
Österreich	0,45	0,06	0,51	3,5	0,1	3,6	1,2	0,1	1,3	5,2	0,2	5,4
Belgien	0,59	0,02	0,61	4,3	0,2	4,4	1,3	0,1	1,4	6,3	0,3	6,6
Kanada ^{3,4}	x(4)	x(5)	x(6)	3,1	0,4	3,5	1,5	1,0	2,5	4,6	1,4	6,0
Chile ⁵	0,59	0,15	0,74	3,3	0,9	4,2	x(9)	x(9)	2,2	4,3	2,7	7,1
Tschechien	0,42	0,04	0,46	2,5	0,3	2,8	0,9	0,2	1,2	3,9	0,6	4,5
Dänemark ⁴	0,60	0,14	0,74	4,2	0,1	4,3	1,6	0,1	1,7	6,5	0,6	7,1
Estland	0,53	0,01	0,54	3,8	n	3,9	1,1	0,2	1,3	5,5	0,2	5,8
Finnland	0,36	0,04	0,40	3,8	n	3,8	1,6	0,1	1,7	5,7	0,1	5,9
Frankreich	0,63	0,04	0,67	3,7	0,2	3,9	1,2	0,2	1,4	5,5	0,5	6,0
Deutschland	0,40	0,14	0,54	2,6	0,4	3,0	1,0	0,2	1,2	4,1	0,7	4,8
Griechenland	m	m	m	m	m	m	m	m	m	m	m	m
Ungarn	0,69	m	m	3,0	m	m	0,9	m	m	4,8	m	m
Island	0,75	0,23	0,98	4,9	0,2	5,1	1,2	0,1	1,3	7,2	0,7	7,9
Irland	n	n	n	4,0	0,1	4,1	1,2	0,2	1,4	5,2	0,3	5,6
Israel	0,66	0,19	0,84	4,0	0,2	4,2	0,9	0,7	1,6	5,9	1,4	7,3
Italien	0,48	0,03	0,52	3,2	0,1	3,3	0,8	0,2	1,0	4,5	0,3	4,8
Japan ⁴	0,09	0,12	0,21	2,5	0,3	2,8	0,5	1,0	1,5	3,3	1,7	4,9
Korea	0,09	0,10	0,18	3,4	0,8	4,2	0,6	1,9	2,6	4,7	2,8	7,6
Luxemburg	0,45	0,01	0,46	2,8	0,1	2,9	m	m	m	m	m	m
Mexiko	0,59	0,11	0,70	3,1	0,6	3,7	0,9	0,4	1,2	4,7	1,1	5,8
Niederlande	0,38	n	0,39	3,3	0,4	3,7	1,1	0,4	1,5	4,8	0,8	5,6
Neuseeland	0,45	0,04	0,49	3,8	0,6	4,5	1,1	0,5	1,6	5,4	1,2	6,6
Norwegen	0,42	0,08	0,50	5,0	m	m	1,6	0,1	1,7	7,3	m	m
Polen	0,57	0,10	0,67	3,4	0,2	3,6	1,0	0,4	1,5	5,0	0,7	5,7
Portugal	0,37	n	0,37	3,4	n	3,4	0,9	0,5	1,3	4,7	0,5	5,2
Slowakei ⁶	0,37	0,08	0,44	2,2	0,4	2,6	0,7	0,2	0,9	3,5	0,6	4,0
Slowenien	0,49	0,14	0,63	3,4	0,3	3,7	1,0	0,2	1,1	4,8	0,6	5,4
Spanien	0,63	0,19	0,82	2,9	0,2	3,1	1,0	0,2	1,2	4,5	0,6	5,1
Schweden	0,67	n	0,67	4,0	n	4,0	1,4	0,2	1,6	6,1	0,2	6,3
Schweiz	0,19	m	m	3,8	0,5	4,3	1,3	m	m	5,3	m	m
Türkei	m	m	m	m	m	m	m	m	m	m	m	m
Ver. Königreich	0,28	n	0,28	4,2	n	4,2	0,6	0,6	1,2	5,1	0,6	5,7
Vereinigte Staaten	0,33	0,08	0,41	3,8	0,3	4,1	1,0	1,7	2,7	5,1	2,1	7,2

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Facts (4) Ausgaben für Bildungseinrichtungen als Prozentsatz des BIP, nach Herkunft der Mittel und Bildungsbereich (2008) Finanziert mit Mittel aus öffentlichen und privaten Quellen (Teil 2)

OECD-Durchschnitt	0,44	0,07	0,31	2,5	0,3	2,7	1,0	0,5	1,5	5,0	0,9	3,9
OECD insgesamt	0,38	0,08	0,44	2,4	0,3	2,7	0,9	1,0	1,9	4,7	1,4	6,1
EU21-Durchschnitt	0,47	0,05	0,51	2,4	0,2	2,6	1,1	0,2	1,3	4,8	0,5	5,5
Sonst. G20-Länder												
Argentinien	0,43	0,13	0,57	4,0	0,3	4,3	0,9	0,2	1,2	5,3	0,7	6,1
Brasilien	0,41	m	m	4,1	m	m	0,8	m	m	5,3	m	m
China	m	m	m	m	m	m	m	m	m	3,3	m	m
Indien	m	m	m	m	m	m	m	m	m	m	m	m
Indonesien ³	0,02	m	m	2,9	m	m	0,3	m	m	3,3	m	m
Russische Föd.	0,61	0,09	0,70	2,0	0,1	2,1	0,9	0,5	1,5	4,1	0,7	4,7
Saudi-Arabien	m	m	m	m	m	m	m	m	m	m	m	m
Südafrika	m	m	m	m	m	m	m	m	m	m	m	m
G20-Durchschnitt	m	m	m	m	m	m	m	m	m	4,4	m	m

Source: OECD, 2011

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Facts (5)

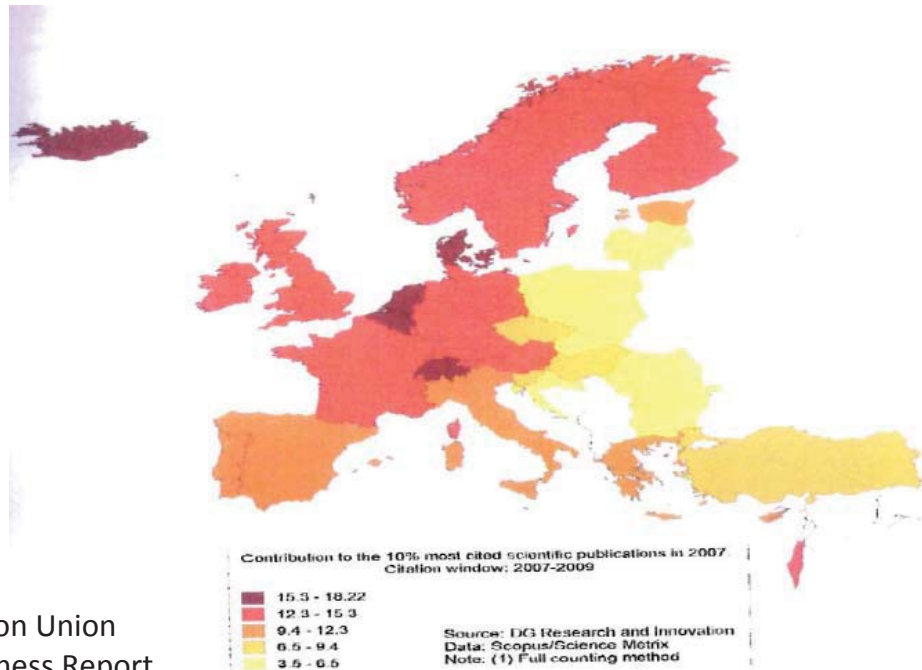
Higher education institutions/universities in the EU:

Total Number of HEIs	2906
research-active HEIs	1364
Ph.D. awarding institutions	850
highly research-intensive universities	171

Source: EU, Innovation Union Competitiveness Report 2011

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Facts (6) Scientific productivity



EU, Innovation Union
Competitiveness Report

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Facts (7) - The 171 most productive universities in science account for 60 % of total scientific production

	Top European research universities		Scientific publications 2000-2006	
	Total	% distribution	Total	Share in total national scientific publications %
Germany	35	20	348 469	54
United Kingdom	32	19	401 967	58
Italy	18	11	180 032	53
France	14	8	136 921	30
Netherlands	11	6	144 759	73
Spain	10	6	93 493	37
Sweden	10	6	115 579	78
Belgium	7	4	73 883	67
Switzerland	7	4	85 071	60
Finland	5	3	43 804	60
Austria	4	2	37 025	49
Denmark	4	2	52 149	67
Norway	3	2	27 023	50
Greece	2	1	19 364	31
Poland	2	1	12 877	11
Portugal	2	1	12 100	27
Croatia	1	1	5 806	43
Czech Republic	1	1	10 148	21
Ireland	1	1	5 914	19
Slovenia	1	1	9 306	56
Turkey	1	1	7 145	7
Bulgaria	0	0	0	0
Estonia	0	0	0	0
Cyprus	0	0	0	0
Latvia	0	0	0	0
Lithuania	0	0	0	0
Luxembourg	0	0	0	0
Hungary	0	0	0	0
Malta	0	0	0	0
Romania	0	0	0	0
Slovakia	0	0	0	0
Total	171	100	0	0

Source: EU, Innovation Union Competitiveness Report 2011

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Facts (8) – Research institutions with 10 or more European Research Council (ERC) grantees

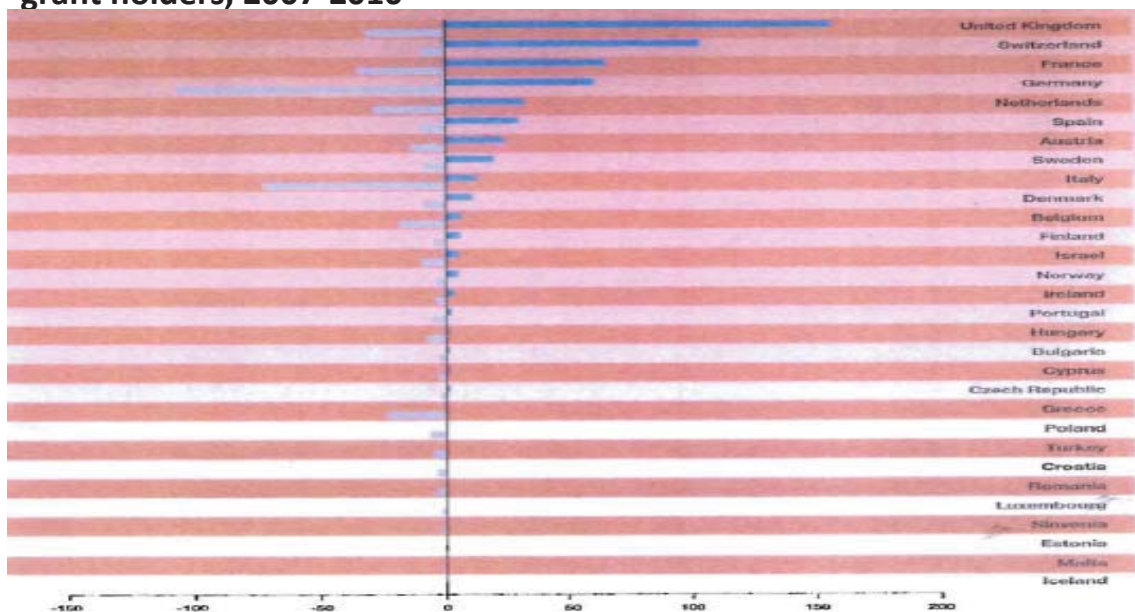
Rank	Host Institution	Starting grants	Advanced grants	Total
1	National Centre for Scientific Research (CNRS)	62	34	96
2	University of Cambridge (1)	25	22	47
3	Max Planck Society	22	22	44
4	University of Oxford (2)	22	21	43
5	Swiss Federal Institute of Technology of Lausanne (EPFL) (3)	19	20	39
6	Hebrew University of Jerusalem (4)	20	10	30
7	Swiss Federal Institute of Technology (ETH Zurich) (5)	9	23	32
8	Weizmann Institute	15	17	32
9	Imperial College (6)	14	14	28
10	University College London (7)	14	13	27
11	National Institute for health and medical research (INSERM)	14	10	24
12	Commission for Atomic Energy (CEA)	10	0	20
13	University of Edinburgh (8)	10	0	10
14	University of Zurich (9)	8	10	18
15	Catholic University of Leuven (10)	15	2	17
16	Techion - Israel Institute of Technology	14	3	17
17	Karolinska Institute (11)	8	8	16
18	Ludwig Maximilian University Munich (12)	6	10	16
19	University of Helsinki (13)	7	9	16
20	Leiden University (14)	7	7	14
21	National Institute for Research in Computer Science and Control (NBIA)	0	0	14
22	University Amsterdam (15)	8	6	14
23	University of Bristol (16)	5	9	14
24	University of Vienna (17)	6	8	14
25	Free University of Amsterdam (18)	10	3	13
26	Radboud University Nijmegen (19)	9	4	13
27	Utrecht University (20)	8	5	13
28	Medical Research Council	6	6	12
29	University of Amsterdam	5	7	12
30	University of Geneva	4	8	12
31	Aarhus University	6	5	11
32	Ghent University	10	1	11
33	Lund University	5	6	11
34	Pasteur Institute	7	4	11
35	University of Heidelberg	5	6	11
36	Stockholm University	6	5	11
37	Cancer Research UK	3	7	10
38	National Research Council (CNR)	10	0	10
39	Technical University Munich	5	5	10
40	University of Copenhagen	6	4	10
41	University of Groningen	9	1	10

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Source: EU, Innovation Union Competitiveness Report 2011



Facts (9) – International mobility of European Research Council (ERC) grant holders, 2007-2010

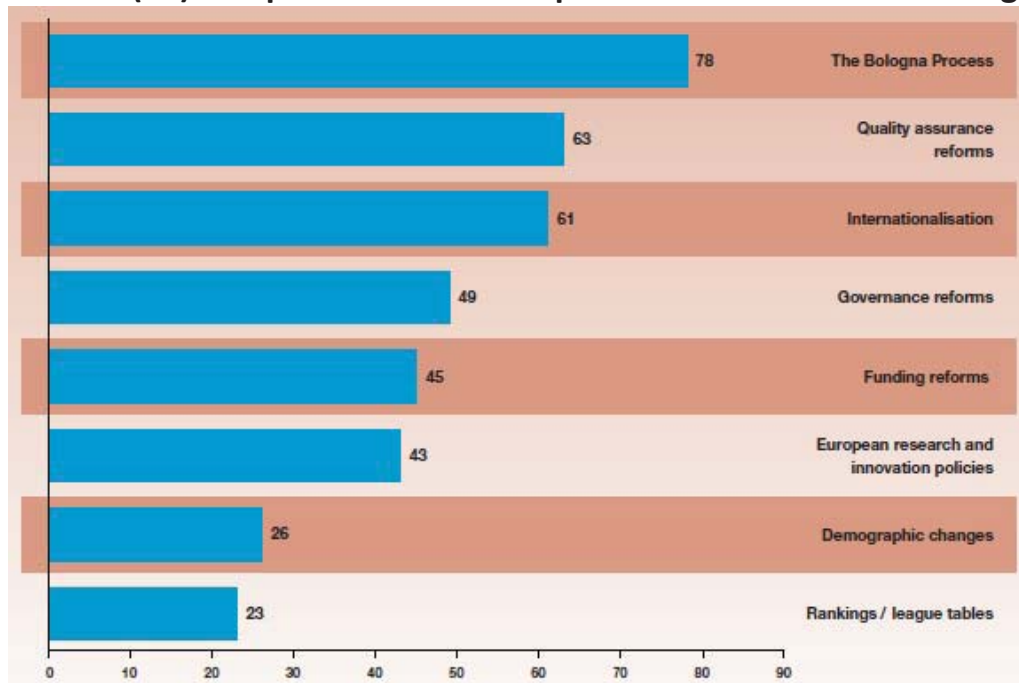


Source: ERC Research and Innovation
Data: European Research Council (ERC)
Notes: EU Member States 2007, 2008, 2009; Advanced grants 2006, 2009, 2010.

Source: EU, Innovation Union Competitiveness Report 2011

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Facts (10) – Importance of development for institutional strategy



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Source: EU, Innovation Union Competitiveness Report 2011

Diversification of the higher education system (I)

- International trends in research intensification: US, Asia
- The search for economic relevance (MIT 1997; Geiger 2006)
 - 1980s: „collaborative research“
 - 1990s: emergence research/science based technologies
 - 2000s: downstream vs. upstream strategies

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Diversification of the higher education system (II)

National Measures

- | | |
|-------------|--|
| UK: | - Research Assessment Exercise
(2007: approx. 50% of the academic staff
inactive in research?) |
| D, F, Spain | - Upstream Strategies: Cambridge |
| DK: | - Initiative for Excellence („Exzellenzinitiative“) |
| | - Integration of non-university
governmental basic research
within the universities |
| B (Flamen): | - Only two top universities (Luven, Gent) ? |
| S, FIN: | - Existing plan for diversification |

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Diversification of the higher education system (III)

- European competition (FP7, ERC): diversification from below
Classification (types of the HEI): diversification from above?
- EUA position:
Autonomy, „fit for purpose“
(„autonomous“ diversification)

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Emergence of knowledge regions

- Øresund (Copenhagen – Malmö)
- Barcelona (Parc de Recerca Biomèdica de Barcelona)
- Manchester – upstream strategies
- Brno (EU-structural funds)
- Zurich (University of Zurich – ETH Zurich)

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Conclusions

- (1) Invest more and better in higher education institutions/universities
- (2) Invest more and better in research and innovation
- (3) Lisbonisation of Structural Funds, Horizon 2020
- (4) Professionalisation of curricula („employability“), Bologna Process, while enhancing research-based undergraduate education at (some) HEIs
- (5) Concentrate Ph.D. education in research-intensive departments in (some) universities
- (6) Strengthen the research intensification in some universities through initiatives for excellence

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University Development in the Danube Region

Prof. Georg Winckler
University of Vienna

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Challenges for Life Science universities the NOVA-BOVA networks as examples of a regional strategy

Lena Andersson-Eklund, Swedish University of Agricultural Sciences
DRC BOKU Vienna, November 17, 2011

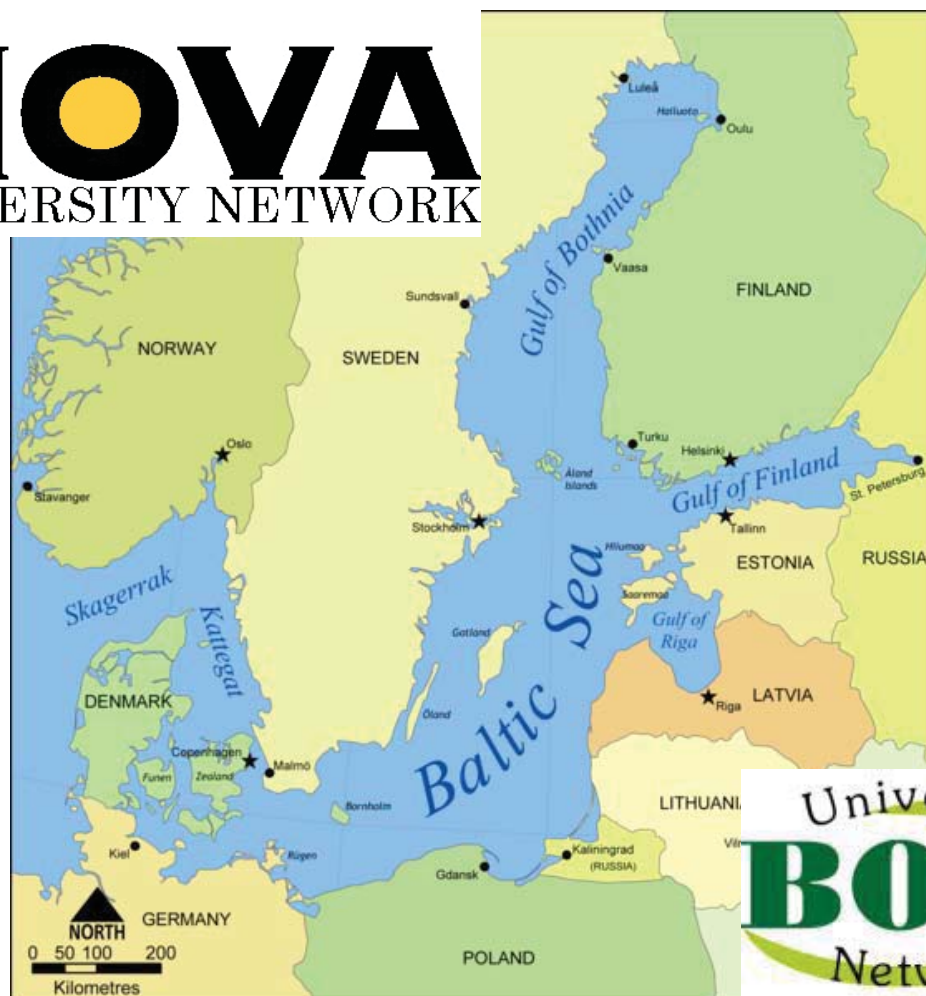


- **Challenges for Life Science universities**
- **The development of NOVA & BOVA**
- **Current activities in NOVA (& BOVA)**
- **SWOT & strategy for the networks**

Challenges for Life Science universities in the Nordic/Baltic region

- National responsibility for professional degrees with many disciplines and low student numbers, scattered resources
- Research in fundamental - applied areas & innovation
 - funding for excellent applied research?
- New focus areas in research and teaching;
 - bioeconomy – social, economic & environmental aspects
 - sustainable biological production systems
 - food quality, nutrition & health
 - biotechnology in agriculture
 - bioenergy & green chemistry
 - animal welfare & interaction with humans
 - rural development in the south & the north

NOVA
UNIVERSITY NETWORK



University
BOVA
Network

NOVA –

The **N**ordic **F**orestry, **V**eterinary and **A**gricultural University Network

Nine Universities / Faculties from all the Nordic countries

University of Copenhagen, Faculty of Life Sciences, Denmark	University of Aarhus, Faculty of Agricultural Sciences, Denmark
University of Helsinki, Faculty of Agriculture and Forestry, Finland	University of Helsinki, Faculty of Veterinary Medicine, Finland
University of Eastern Finland, School of Forest Sciences, Finland	Agricultural University of Iceland,, Iceland
Norwegian University of Life Sciences, Norway	Norwegian School of Veterinary Science, Norway
Swedish University of Agricultural Sciences, Sweden	

NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund⁴

BOVA –

The **B**altic **F**orestry, **V**eterinary and **A**gricultural University Network

Four Universities / Faculties from all the Baltic countries

Estonian University of Life Sciences, Tartu, Estonia	Latvia University of Agriculture, Jelgava, Latvia
Aleksandras Stulginskis University, Kaunas, Lithuania	Lithuanian University of Health Sciences - Veterinary Academy, Kaunas, Lithuania

NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund⁵

Development of NOVA-BOVA

- ◆ Originated from PhD-activities funded by the Nordic Council of Ministries, 1970-
- ◆ NOVA- vision of a Nordic university, 1995
 - ◆ shared responsibility for keeping up competences
 - ◆ joint programmes with mobile students & NOVA-windows for intensive courses
 - ◆ strong administrative capacity and externally funded joint projects
- ◆ NOVA-BA projects, courses for Baltic students and teachers
- ◆ Start of BOVA, project, 2001-2004
- ◆ NOVA & BOVA separate networks with collaboration, 2005-
- ◆ Rotating chairmanship, slimmed central organization but active local coordinators & joint planning in disciplinary networks

NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund

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The NOVA home page

<http://www.nova-university.org/>

- ◆ All information on NOVA, it's organisation and activities are found on the NOVA home page
- ◆ Internal pages with minutes, budgets, annual reports, statistics on mobility etc.
- ◆ Courses are hosted in a database through an online application system, linked to the NOVA web
- ◆ Web and administration handled by the NOVA secretariat, one person full time

NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund

Welcome to NOVA



[CONTACT](#) [NEWS](#) [CALENDAR](#) [FACEBOOK](#)

[FOR TEACHERS](#) [FOR STUDENTS](#) [GRANTS & FUNDING](#)

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[NOVA courses](#)

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Welcome to NOVA!

The Nordic Forestry, Veterinary and Agricultural University Network



◀ **OCTOBER 2011** ▶



M	T	O	T	F	L	S
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

MSc course: Sustainable pig production 3 okt - 11 dec 2011
The MSc course Sustainable pig production is arranged by Swedish University of Agricultural Sciences in collaboration with the NOVA universities and given in

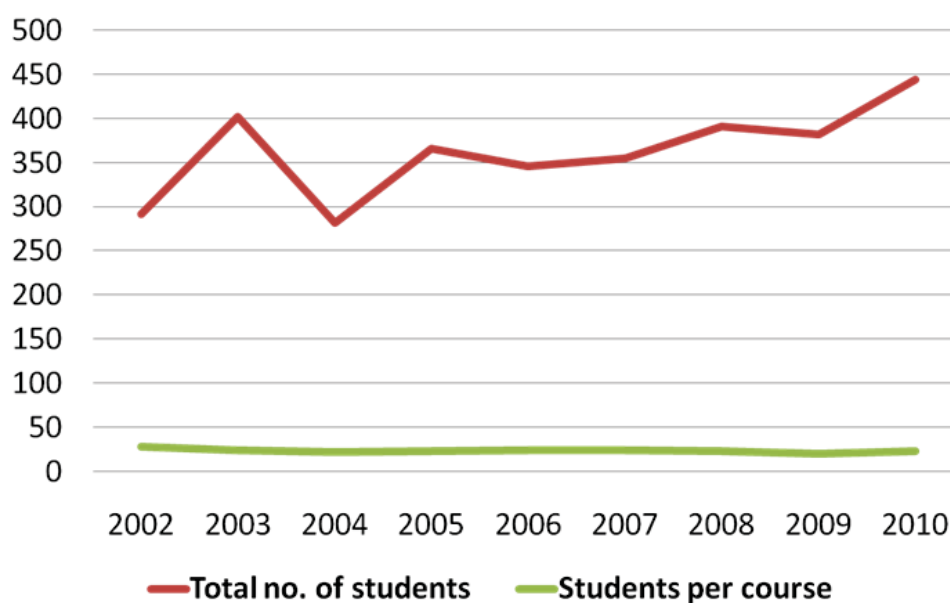
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Finance

- ◆ Financed by membership fees
- ◆ Budget set up by Rector's Board
- ◆ Budget 2011
 - ◆ 550.000 € allocated to PhD courses
 - ◆ 170.000 € allocated to planning grants, MSc courses and MSc mobility
 - ◆ External funding together with BOVA; 50.000 € for mobility + 30.000 € courses
- ◆ Committee for research and education - coordination of activities, prioritization of projects and follow-up on project reports and evaluations

Activities, PhD level

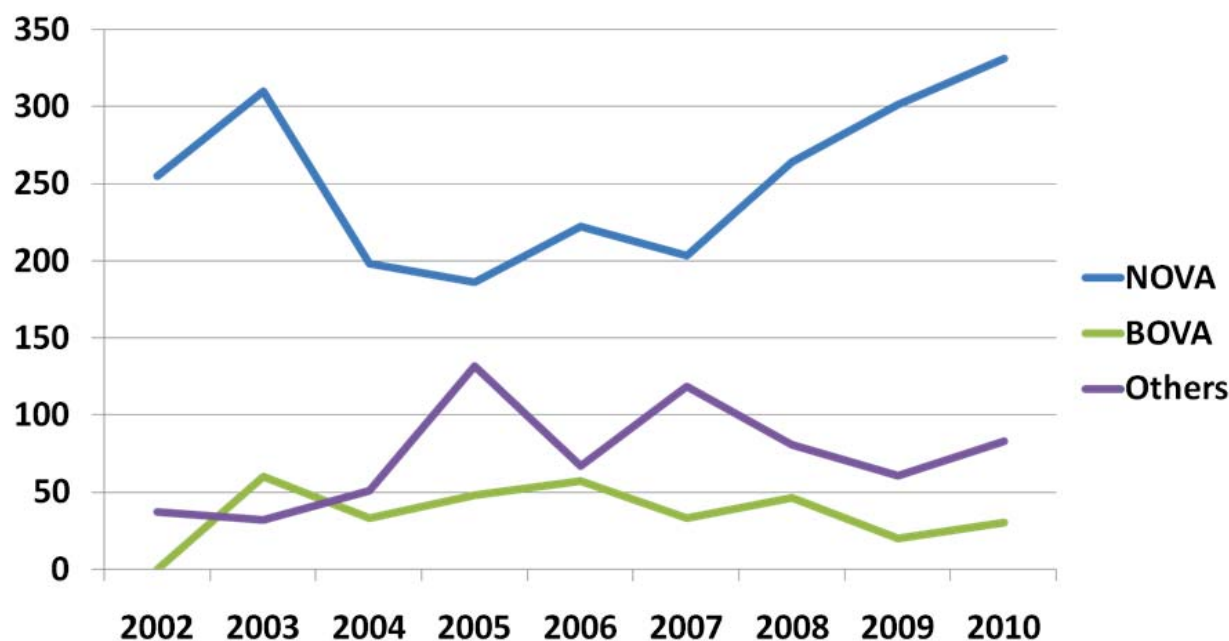
Total number of students & average student number on NOVA PhD courses, 2002-2010



NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund₁₀

Activities, PhD level

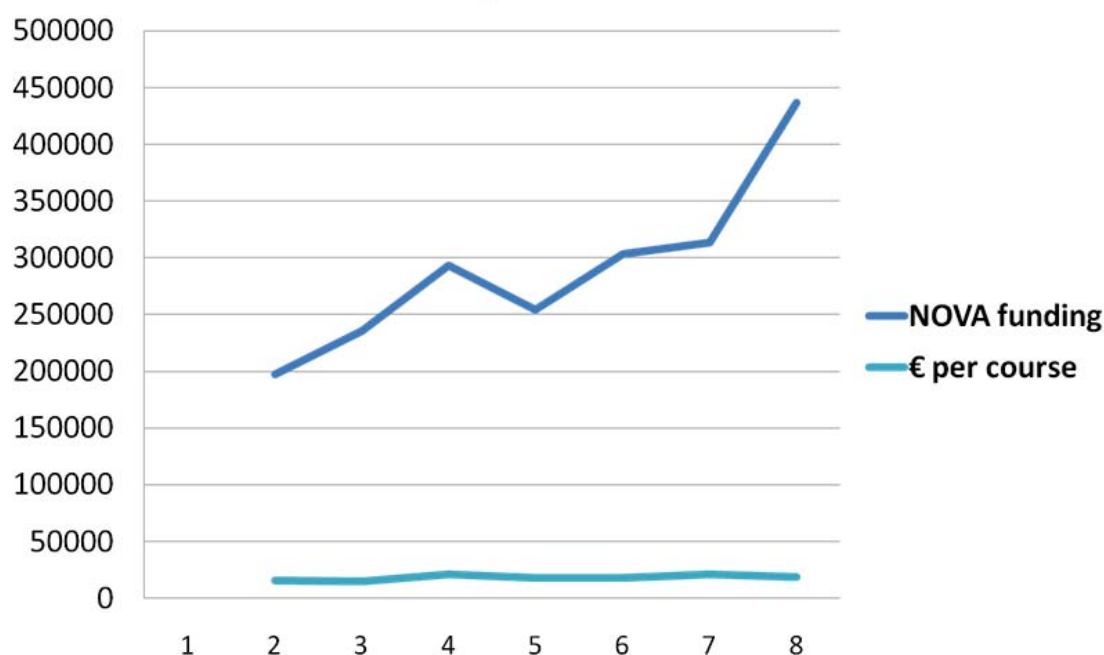
Number of students from NOVA, BOVA and other HEI



NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund₁₁

Finance, PhD level

NOVA-funding of PhD courses in Euro



NOVA – BOVA network, BOKU November 17, 2011 – Lena Andersson-Eklund¹²

Strengths

- solid record of activities
- well known actor
- enduring academic networks
- established functions for coordination
- joint funding base
- committed partners covering most HEI in Life Science in the countries
- fully applied Bologna system
- large proportion of education in English

Weaknesses

- not enough visible internally
- remaining administrative obstacles
- structural differences in MSc education
- small possibilities for mobility in professional degree study programmes

Opportunities

- increasing awareness of value of internationalization
- collaboration with BOVA and EES
- relevant priority areas in the EU strategy for the Baltic region
- developed e-learning activities

Threats

- budgetary pressure at members
- student interest in other parts of the world
- clashes with internal units, e.g. research schools & capacity building projects
- reorganizations within member universities

Mission of NOVA

Strategic period 2011-2014

- ◆ Support and promote life sciences in the Nordic countries by facilitating cooperation in higher education.
 - Establish networks
 - Bring together students, teachers and scientists

Strategy 2011-2014

- ◆ NOVA will **focus** its efforts within PhD and MSc education
 - ◆ create specialized PhD courses of a high international standard (30 courses/year)
 - ◆ increase course quality, diversity and student mobility within MSc education (10 short courses /year, improve possibilities for long mobility)
 - ◆ increase internal visibility
- ◆ Provide policy forums in annual seminars etc.
- ◆ BOVA prioritized as partner
 - ◆ no course fee, network partner, invitation to annual seminars, hosting courses etc.

The role of Vienna in the implementation of the Danube Strategy in the field of science and education

Danube rectors conference, November 17/18.11.2011

Concept

Kurt Puchinger

1. The Vienna city administration defines itself as a service enterprise with a strong customer focus. For a metropolis such as Vienna, this not only involves providing an efficient infrastructure, but also a range of services tailored to meet the needs of the target groups in areas as diverse as business location, science, education, welfare, health, the environment and culture.
2. The general environment underlying the provision of these services is changing continuously. It is therefore essential for the Vienna City Administration to keep abreast with the latest developments in science and research.
3. We presume, that all our partners in the Danube region are in a similar situation and we are sure that they also think about different types of sustainable alliances between science, business and the city or region, about alliances which are crucial for the implementation of development procedures at the interface between the European and different governmental levels which should lead to efficient and also social inclusive governance structures.
4. In some parts of the Danube Region there is an urgent need for sustainable improvement of governance structures especially in the field of public procurement, in other parts, like e.g. in Austria, there is a need to cope with the contradiction between geographical-administrative structures and the handling of the functional system of agglomerations. Both examples can be seen as "political problems", but they are not only.
5. Knowledge is needed, specific knowledge in public law, in European law, in constitutional law, in the regulations of public financial frameworks and, I am sure, in a lot more thematic fields to prepare proposals for possible implementation processes, to prepare necessary legal innovations, to prepare and implement appropriate training courses for people working on the executive level, to prepare concepts for the involvement of all relevant stakeholders and so on. The expertise and the human potential to do all this is already available, among others. I am sure, it is available in the scientific community in each partner country and in its university-world.
6. The City of Vienna has made good experiences in the last decades coming out of the alliances between universities and city administration and we do not want to hide the results, but we want to share these experiences with our

Further comments or questions?

Please contact Lena.Andersson-Eklund@slu.se

partners in the EUSDR, that, if you want, is the intended role of Vienna in the EUSDR.

7. You all know, that the City of Vienna took over the responsibility of PAC 10, together with Slovenia.

The pillar on "strengthening the Danube region" addresses two priority areas: 'Institution Building and Cooperation' and 'Security Issues'. The actions and projects aim at strengthening the functioning of democratic institutions, public administrations and central, regional and local level organisations, with special focus on cooperation in the region. Special emphasis is also needed on making the Danube region a safer place to live. Better political, civil and administrative structures and better security are key conditions for smart, sustainable and inclusive growth. And I will give you an example of a project, which is already in the pipeline, addressing quite these issues:

"Danube Excellence", is the working title of a joint project of different Universities in the region, including among others, those of Vienna, as initiator, Budapest, Maribor, and Bucharest.

One of the objectives is:

To investigate, to identify and to implement procedures, structures and technologies related to security and safety, thus enhancing and setting up, when appropriate, communication structures among security and safety related bodies, rescue institutions within communities and regions, nationwide and cross-border,

The project:

- will contribute to develop and to enhance co-operation and mutual understanding in questions and problems of public security and safety,
- will enhance and develop communication and co-operation among security and safety bodies, rescue organisations and develop communication technologies;
- will increase availability, safe operation and use of critical infrastructure like drinking water supply, flood protection and energy supply;
- will spread and develop academic education in the area,

So, this is an excellent example how the academic world can contribute to the implementation of the EUSDR.

The countries in the Danube region are characterized by different backgrounds in relation to rule of law, transparency, democracy, the market economy, and general political stability. The governments show varying degrees of decentralisation. There are different funding structures, policy mandates, political competences, territorial scopes, and different stages in their relation with the EU. There are also differences of political bargaining power and institutional capacity among the countries, among different levels of public administration and institutions and civil society, as well as between urban and rural areas.

- 8.

This makes bridging political divides particularly important as well as improving institutional capacity and management mechanisms at supranational level. Although accession or prospective accession to the EU has improved the situation, new systems take time to be implemented. They require changes in mentalities, building confidence amongst stakeholders and improvement of skills. Many aspects of this can best be done together by transferring knowledge and exchanging experiences, and can be done with the support of university men and women, using their knowledge and experience for upgrading other stake holders already active in the region.

- 9.

Activities involved could take the form of trainings and capacity building on good practices and know how covering efficient decision making, transparency requirements, information flow, consultation methods and proactive policy planning. Financial engineering, financial schemes, design and implementation of public finance reforms, project preparation, impact assessments, and implementation arrangements also need common attention. Networking activities should contribute to improve skills, competence and motivation of staff in the public sector.

10. According to my role as PAC 10 I understand my duty, together with the

members of the Steering Group, to motivate people to develop appropriate project proposals in line with the wide range of thematic issues of the EUSDR. And I promise that we will try to provide you with all necessary information and contacts if needed for a successful project development.

11. As I told you already earlier the City of Vienna can look back at some good

practices of sustainable alliances between science, business and the city and that we are willing to share these experiences with our partners implementing the EUSDR in the next ten years. To build such alliances is not so easy as it looks and maybe it takes some time, but Rectors can play a leading role in orienting or reorienting their institutions for catching up the opportunities the EUSDR is offering, for the benefit of a fair and social inclusive, growth oriented development of the Danube Region, serving our people.

Visions for the Future of Humanities in the Danube Region

Univ.-Prof. Dr. Verena Winiwarter
Alpen Adria Universität Klagenfurt, IFF
Campus Vienna



1. The role of the Humanities for the future of the Danube Region.
2. The Humanities of the Future and their role for the Danube Region.

'These disciplines [humanities and social sciences] provide the **organisational, management, legal, accounting and marketing knowledge bases** that are critical to successful innovation. They **are the source of many of our insights into the human condition broadly**, and to our **understanding and managing the consequences of moving to a knowledge-based economy**'.

AAH (The Australian Academy of the Humanities), The Humanities and Australia's National Research Priorities, Report prepared for DEST (Dept. of Education, Science and Training), April 2003.

2 Humanities

2.1 History

2.2 Languages and linguistics

2.3 Literature

2.4 Performing arts

2.5 Philosophy

2.6 Religion

2.7 Visual arts

http://en.wikipedia.org/wiki/List_of_academic_disciplines

3 Social sciences

3.1 Anthropology

3.2 Archaeology

3.3 Area studies

3.4 Cultural and ethnic studies

3.5 Economics

3.6 Gender and sexuality studies

3.7 Geography

3.8 Political science

3.9 Psychology

3.10 Sociology

1 Humanities fields

1.1 Classics

1.2 History

1.3 Languages

1.4 Law

1.5 Literature

1.6 Performing arts

1.6.1 Music

1.6.2 Theatre

1.6.3 Dance

1.7 Philosophy

1.8 Religion

1.9 Visual arts

1.9.1 History of visual arts

1.9.2 Media types

1.9.2.1 Drawing

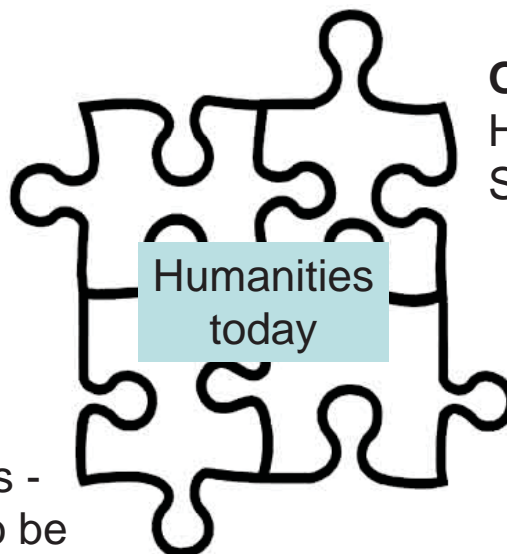
1.9.2.2 Painting

<http://en.wikipedia.org/wiki/Humanities>

Humanities' roles

Rememberance:

Understanding of our legacy – where we have come from



Orientation:

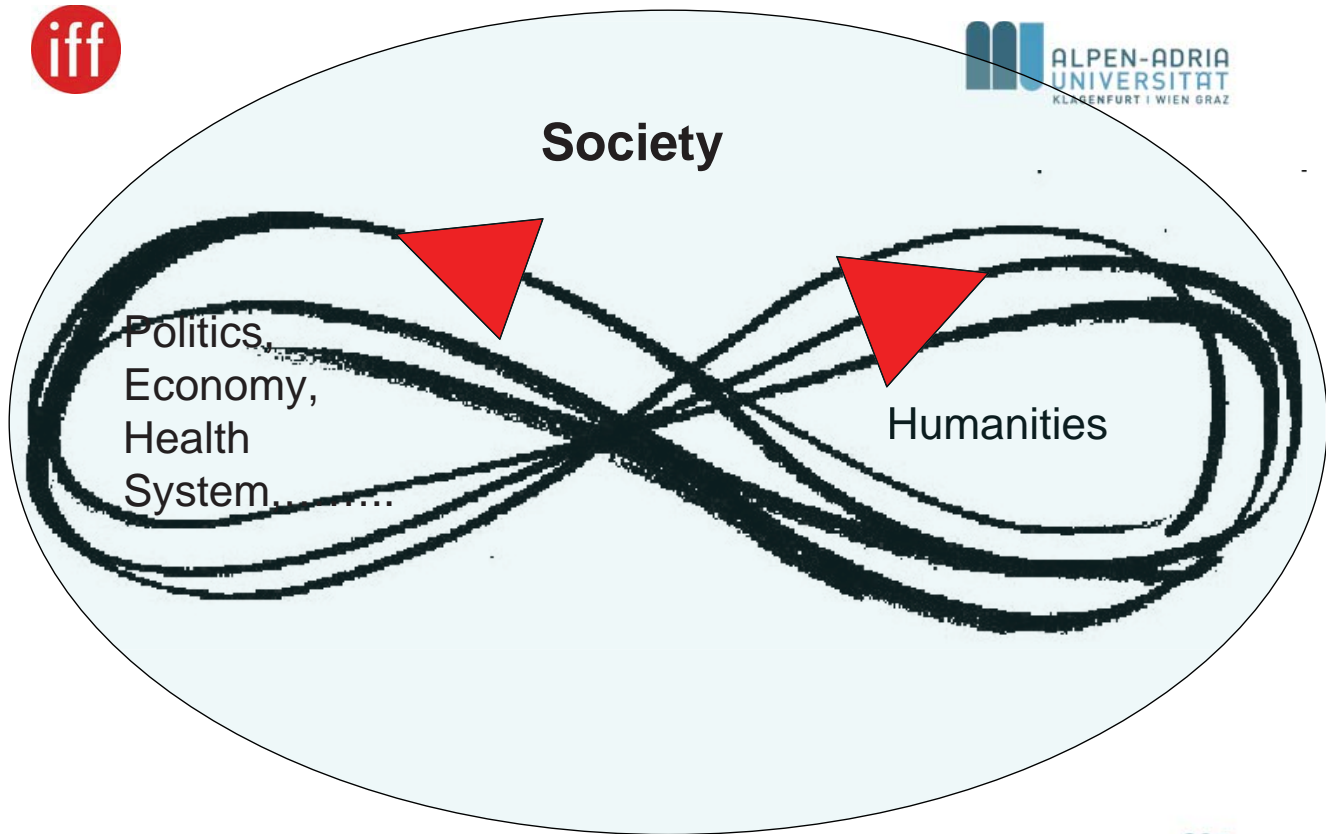
Humans in Society

Regulation:

Setting norms - what ought to be

Observation

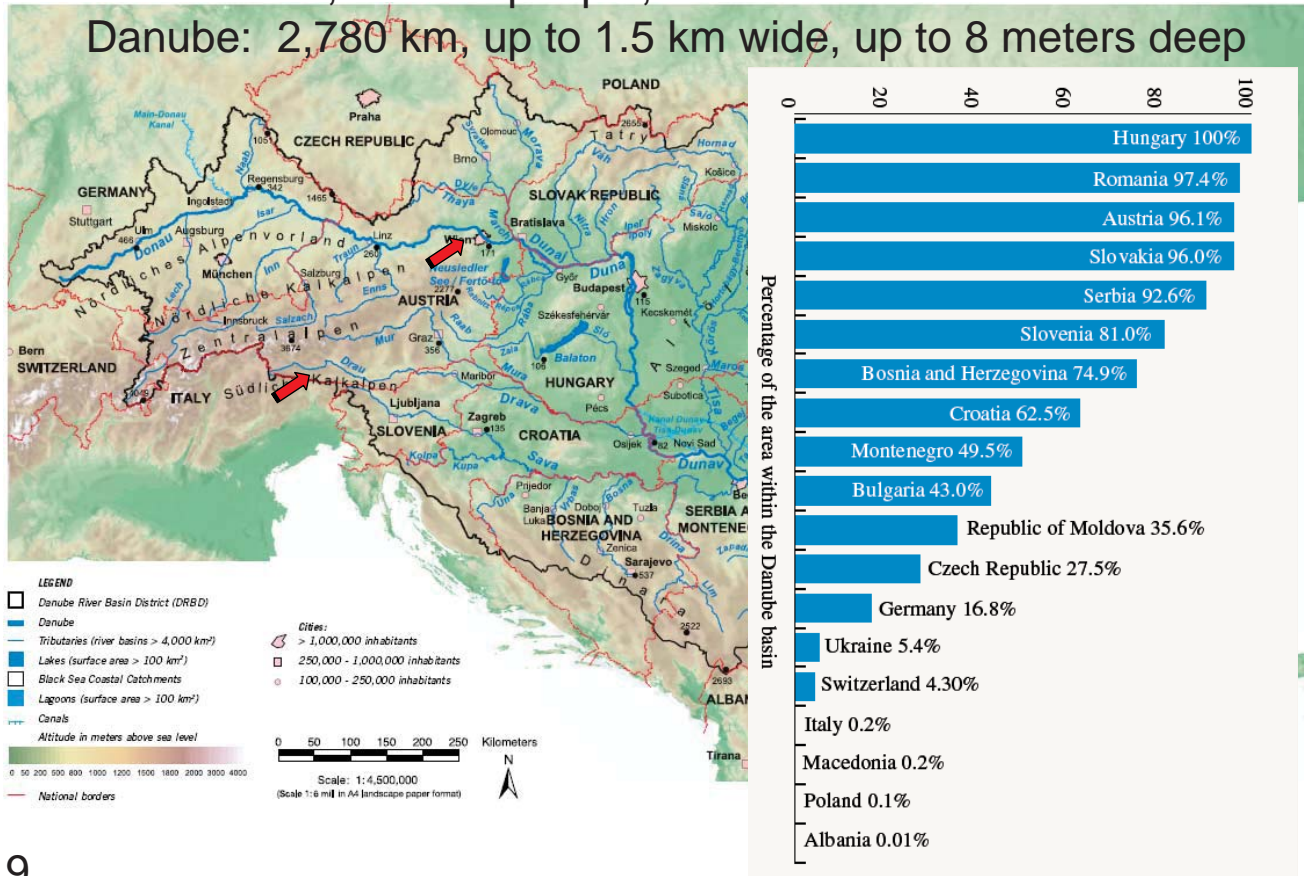
and Reflection:
Epistemology and Critique



Special features of the Danube Region

19 countries, 81 Mio. people, ca. 800.000 km²

Danube: 2,780 km, up to 1.5 km wide, up to 8 meters deep



9



81 Million people communicate through 20 different languages. At least 17 are official national languages.

Parts of the population speak other languages of the Danube basin as their mother tongue.

This is due to the eventful history of the Danube basin and is an important common feature of all countries of the Danube basin.

work on other major rivers in Europe and beyond.

If you would like to join DEHI, please visit our website to get in touch.

Ecosystem Management, University of Natural Resources and Applied Life Sciences Vienna

Utho: Design Department, Pictures: Österreich Werbung, Antidirection: uns@umweltgeschichte.at, Graphics: Tom Mraz

<http://umweltgeschichte.uni-klu.ac.at/dehi>

ALPES-ADRIA
UNIVERSITÄT
KLAUFORT
Graz - Wien

EUROPEAN
SCIENCE
FOUNDATION



<http://umweltgeschichte.uni-klu.ac.at/dehi>

10

... the Danube Region Strategy will serve the goal of increasing prosperity, security and peace for the peoples living there, especially through **enhancing cross-border, trans-regional and trans-national cooperation and coordination**; (Danube Strategy, 2010)

What are the prerequisites for **enhancing cross-border, trans-regional and trans-national cooperation and coordination** ?

- The ability to **communicate across borders of language and tradition.**
- The ability to **overcome the legacies of conflict and war.**
- The ability to engage in **joint construction of a common future based on democratic governance.**

Rememberance – Orientation – Regulation - Reflexion

All **languages** represent a **distinct point of view** on the world, characterized by its **own meaning and values**.

Litost (*Czech*)

The closest definition is a state of agony and torment created by the sudden sight of one's own misery.

Wabi-Sabi (*Japanese*)

A way of living that focuses on finding beauty within the imperfections of life and accepting peacefully the natural cycle of growth and decay.

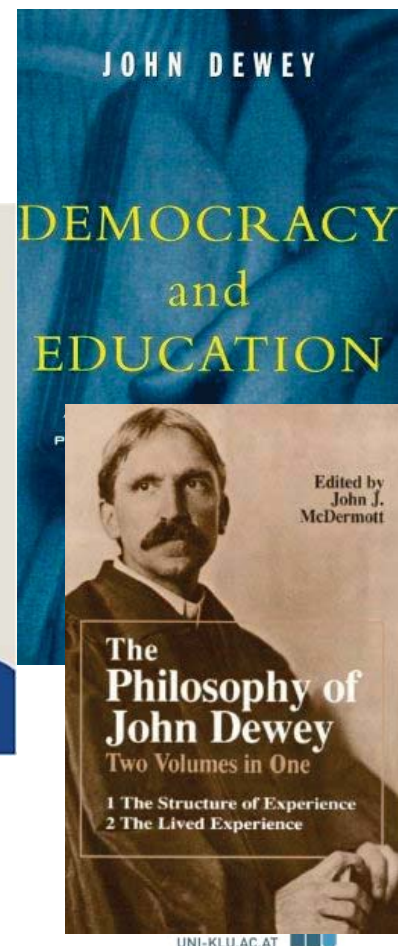
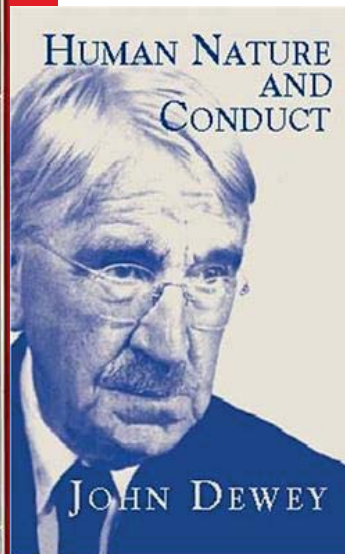
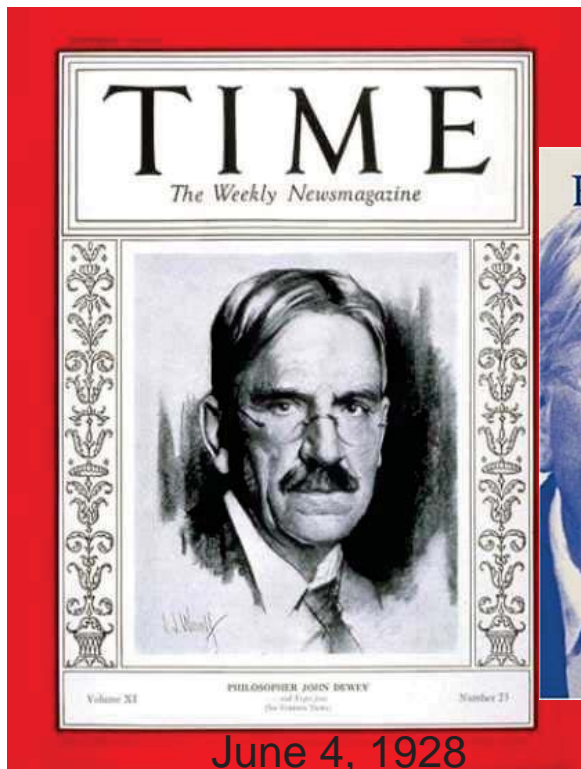




Coping with the legacy of war



History may not repeat itself, but it does rhyme a lot.
- Mark Twain



JOHN DEWEY (1859-1952)
father of educational philosophy

17



Culture as Orientation



A civilization's **culture** is the **house of meaning** - it is what gives human beings their **sense** of living in a world organized by meanings and values, **a world that makes sense** and **provides fulfilling goals for action**.

Cultures are **ways of inhabiting and adjusting to the world** and the conditions of life.

Our **first task** must be to understand **how a culture's symbols create a life**; beyond that, we must inquire into the kinds of lives it makes possible and its **adaptability to coexistence with other kinds**.



Fostering democracy through the Humanities (after Dewey)



Democracy cannot merely "tolerate" diversity; it alone of all forms of civilization **requires** diversity.

Thus there is an initial need to **encounter difference meaningfully**.

We must be able to **employ a complex understanding** of the world and its traditions to contextualize the diversity we encounter.

Democracy is predicated on the **perpetual possibility of communication**.



Educating for a democratic culture



Democratic culture must recognize common ideals.

Democratic culture must offer a wide, flexible range of points of contact with other groups, enabling cooperation and communication.

A democratic society must have a type of education which gives individuals a personal interest in social relationships and control, and the habits of mind which secure social changes without introducing disorder.

Democratic culture consciously aims at providing as many people as possible the materials and arts whereby they can construct meaningful lives.

2. The Humanities of the Future and their role for the Danube Region.



Danube Strategy 2010

Strategic policy areas

- Energy
- Environmental and nature protection
- Transport and infrastructure
- Professional training and innovation
- Arts and cultural activities
- as well as
- Sustainable economic activity and tourism
- Food security/safety
- Economy
- SME cooperation
- R+D
- Migration
- Governance
- Sport
- Education and culture
- Labour
- Health and social affairs

What can the humanities contribute to these policy areas?

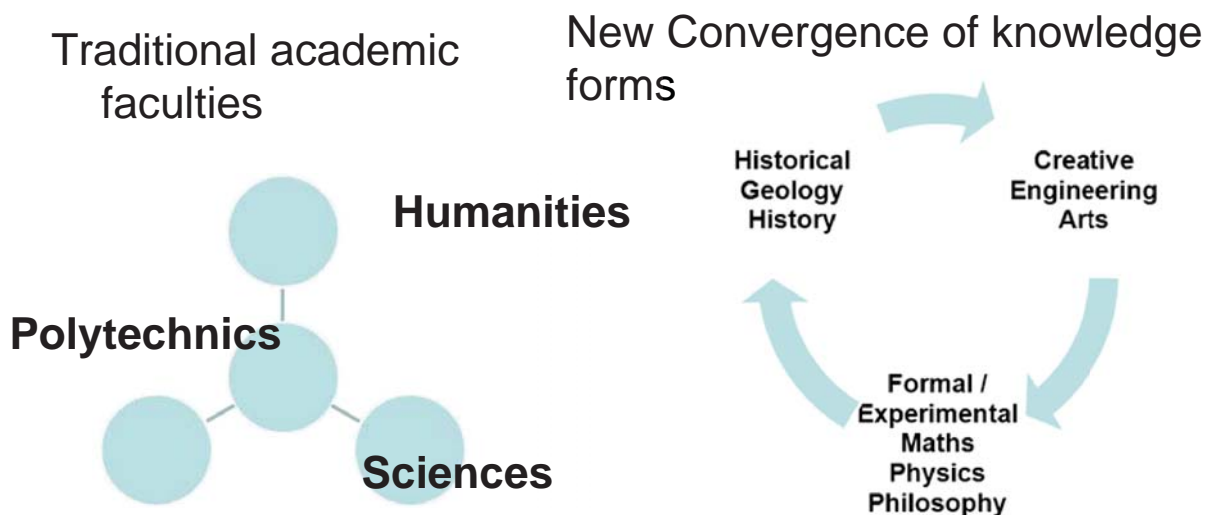
23

UNI-KLU.AC.AT 

Danube Rector's Conference BOKU Vienna, Nov 17-18, 2011

„Basic research should be understood as covering all fields, including the social sciences and humanities, putting special emphasis on interdisciplinarity.“

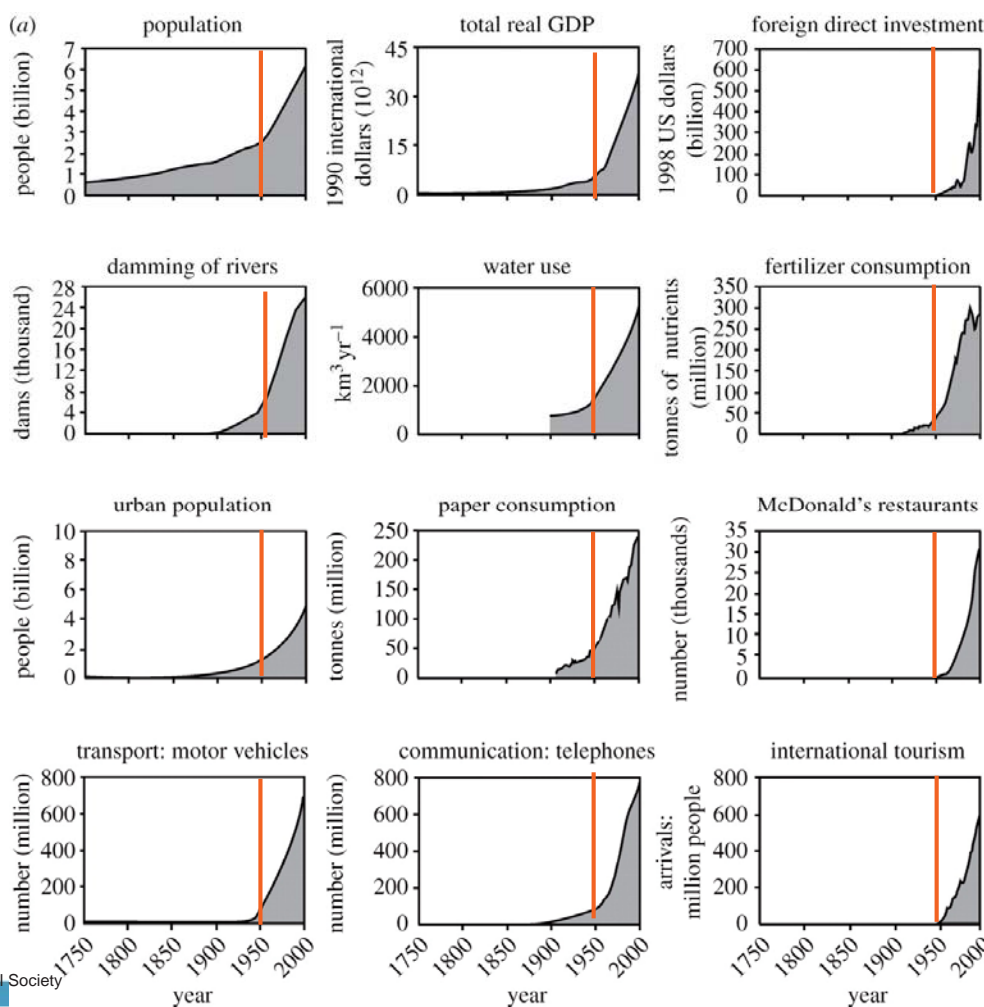
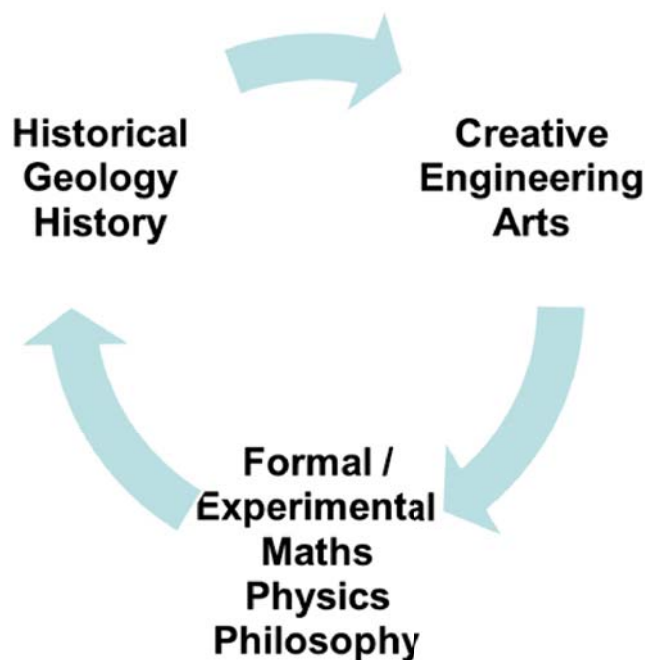
REPORT on Science and technology- Guidelines for future European Union policy to support research (2004/2150(INI)), Committee on Industry, Research and Energy
Rapporteur: Pia Elda Locatelli („Locatelli Report“), 2/2005



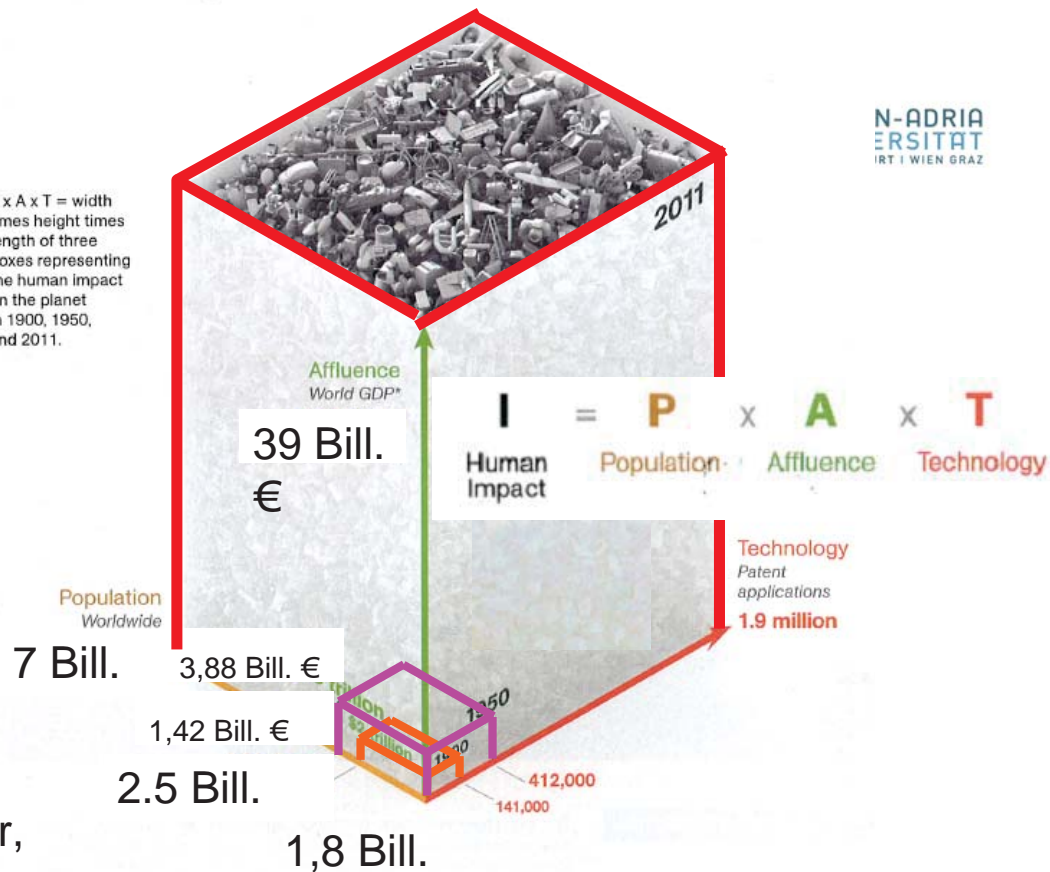
From: EH presentation by Poul Holm, May 2005

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$P \times A \times T$ = width
times height times
length of three
boxes representing
the human impact
on the planet
in 1900, 1950,
and 2011.



*GDP FIGURES ARE CONSTANT 1990 INTERNATIONAL DOLLARS.
JOHN TOMANIO, NGM STAFF. ART: BRYAN CHRISTIE. SOURCES: UNITED NATIONS; ANGUS MADDISON, "STATISTICS ON WORLD POPULATION, GDP AND PER CAPITA GDP, 1-2008 AD," UNIVERSITY OF GRONINGEN; WORLD BANK; WORLD INTELLECTUAL PROPERTY ORGANIZATION

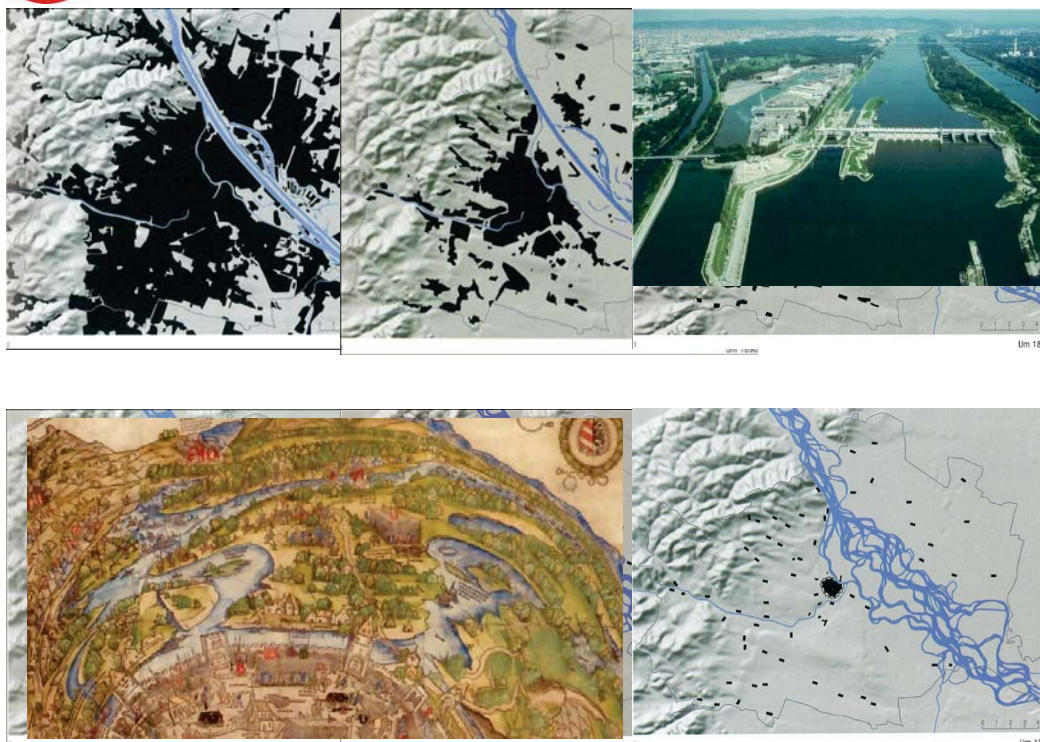
Environmental Challenges in the DRB

- **Hydromorphological change** and resulting ecological pressures.
- **Demise of fisheries** due to pollution, weirs and other riverine infrastructures.
- Floods

DRIVERS/Conflicts: Industry, Agriculture, Transportation, Navigation; Energy provision (Carbon Neutral); Nature Conservation, Urbanisation

- Interaction between **humans** and **dynamic, complex, moving ecosystems** dependent on **climate, morphology, soils, plants** (both aquatic and terrestrial), **animals** (fish, mammals, mollusks, bivalves) and **micro-organisms**, **changed by structures** (weirs, power plants) and **processes** (pollution, overfishing).
- Interactions are **non-linear**, with **time-lags**, **threshold effects** and **feedbacks**.

29



2000

1890

1850

1730

1683

1550

Brunner/Schneider 2005, Wien Umwelt

30 Niklas Meldeman, Nürnberg 1530 (Detail)

- Older ARRANGEMENTS (such as rectification works) influence younger ones.
- This changes the realm of possible actions for humans.
- → Older arrangements influence the practices of humans today.
- We call this **socio-ecological legacies**.
- Note the **IRREVERSIBILITY** of interventions!

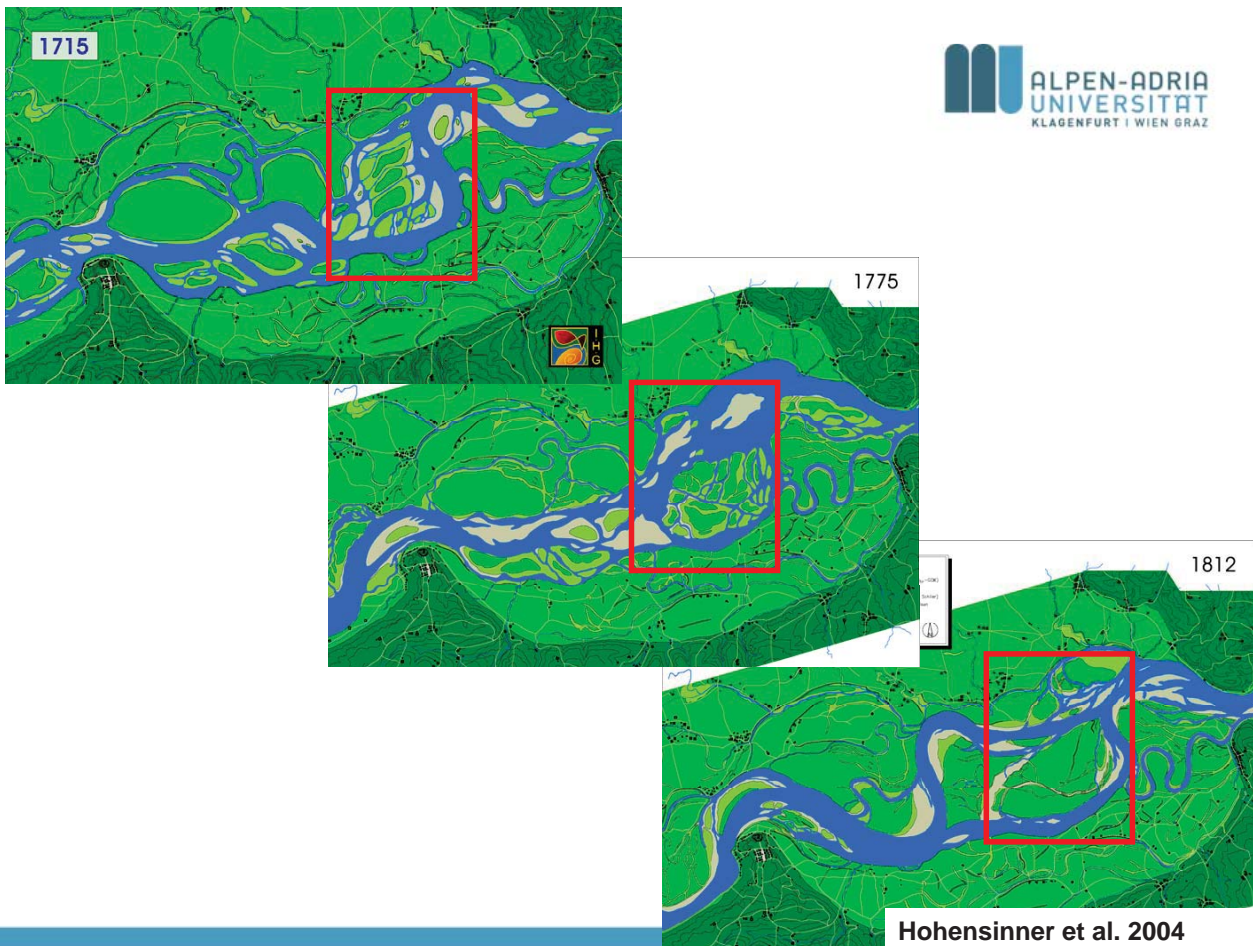
Environmental history of river basins

- A history of **legacies** and **side-effects**, unwanted consequences of interventions.
- A history which might allow us to learn about **sustainable practices** accepting „the flow of the river“, that is, natural dynamics.
- Study of humans **AND** study of ecosystems is of the same importance, because we want to understand their **co-evolutionary development**.

The Danube Machland and its dynamic history



Hohensinner 2008



Hohensinner et al. 2004

The VISION

Both the disciplinary humanities as we
know them

AND

the new, interdisciplinary humanities of
the future

contribute to the development of the
Danube Region

Democracy needs sustainable
development.

In an ecologically degraded
world, long-term economic
development is impossible and
social unrest will increase.

To develop the Danube River Basin Region according to the Danube Strategy, the traditional and the new interdisciplinary humanities, e.g. the environmental humanities are needed.



Thank you for your attention!

DEHI

Danube Environmental History Initiative

<http://umweltgeschichte.uni-klu.ac.at/dehi>

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verena.winiwarter@uni-klu.ac.at


The Christian-Doppler-Laboratory for Advanced Methods in River Monitoring, Modelling and Engineering and related ideas for the common implementation of the Danube Strategy

Helmut Habersack

Christian Doppler Laboratory for Advanced Methods in River Monitoring,
Modelling and Engineering,
Institute of Water Management, Hydrology and Hydraulic Engineering,
Department of Water, Atmosphere and
Environment, BOKU – University of Natural Resources and Life
Sciences, Vienna

Contents

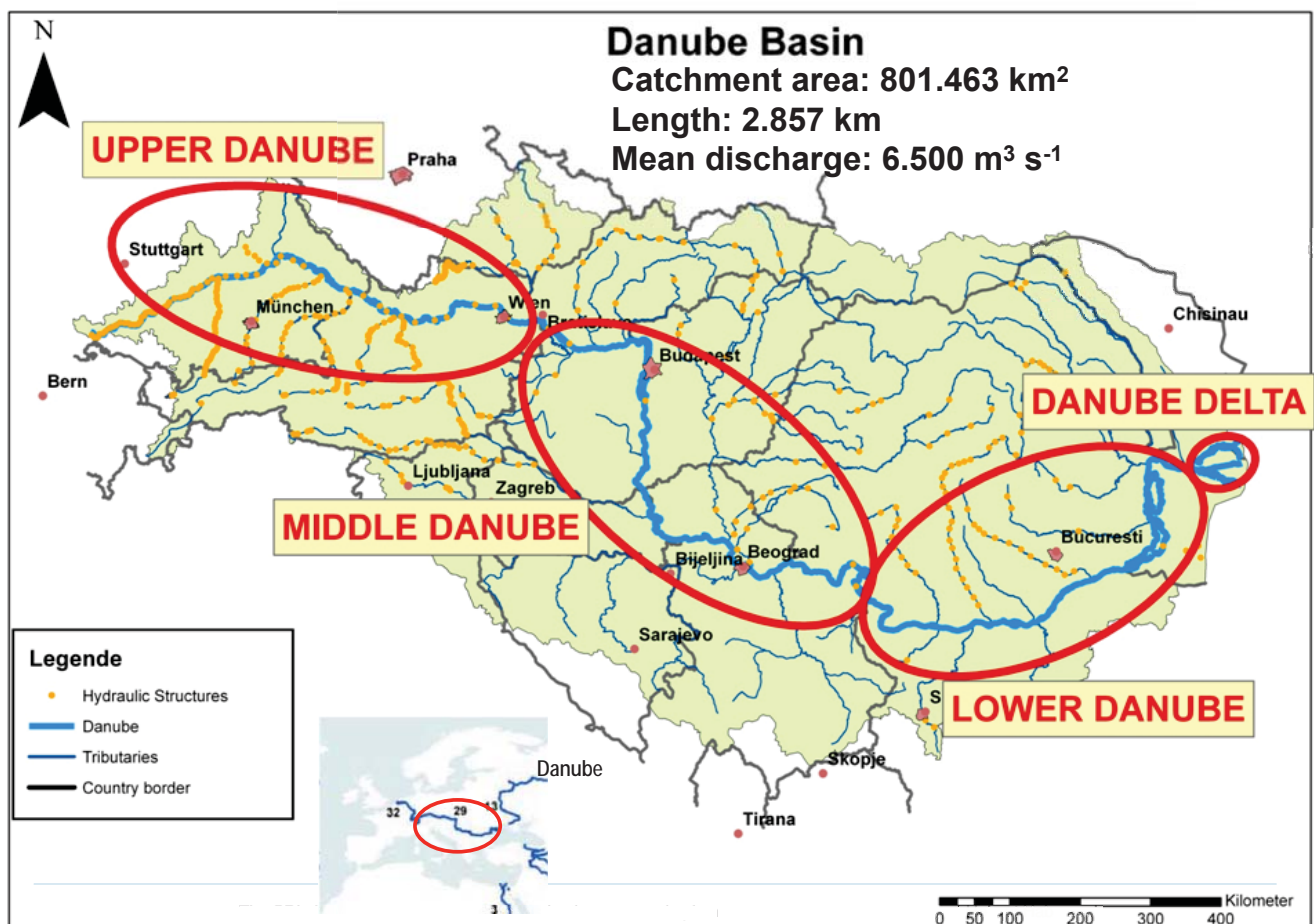
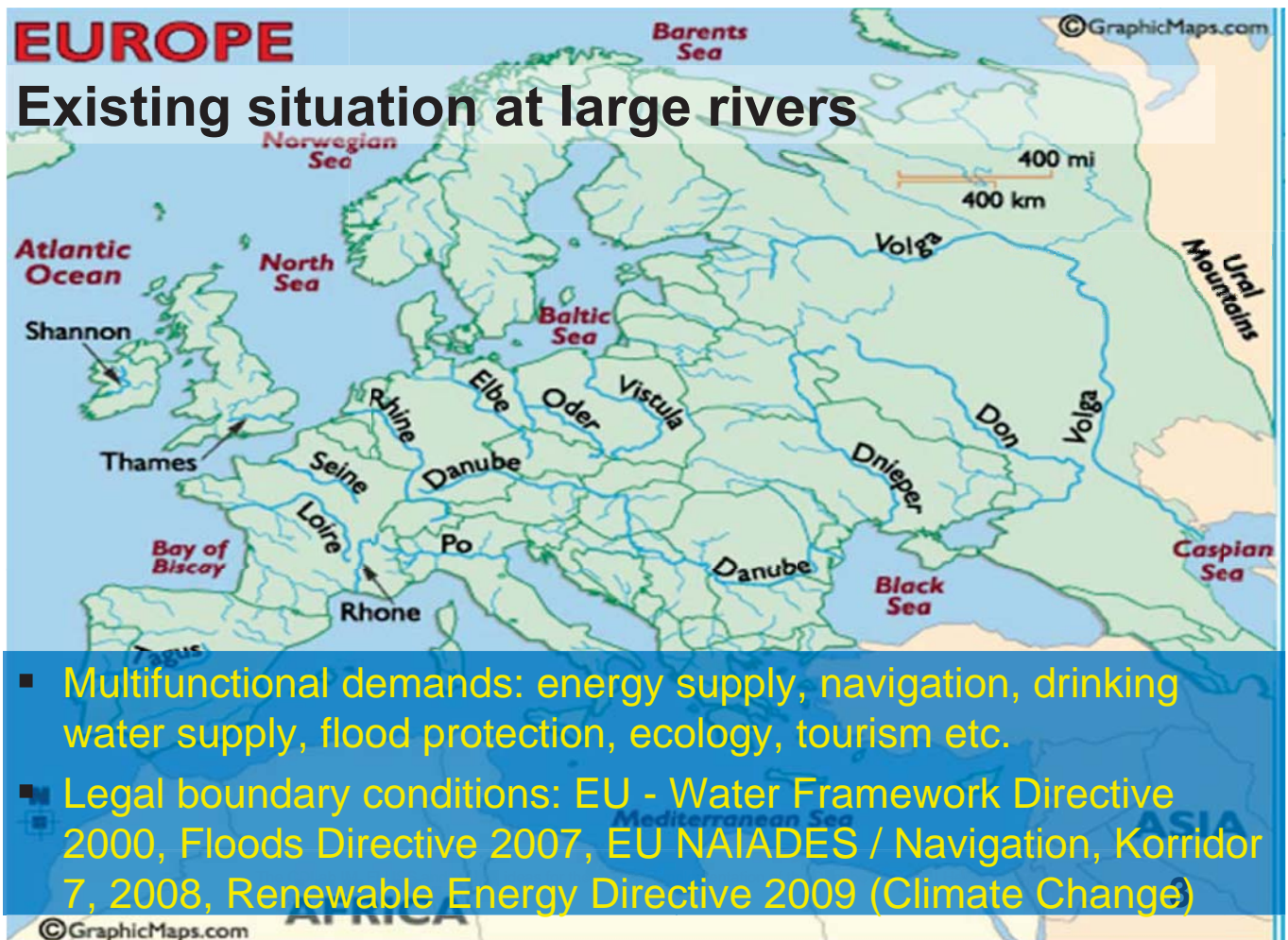


 University of Natural Resources and
Life Sciences Vienna,
Department of Water, Atmosphere
and Environment

1. Introduction
2. Danube River – pressures and impacts
3. The CD Laboratory for Advanced Methods in River Monitoring, Modelling and Engineering
4. Ideas for the common implementation of the Danube Strategy

EUROPE

Existing situation at large rivers



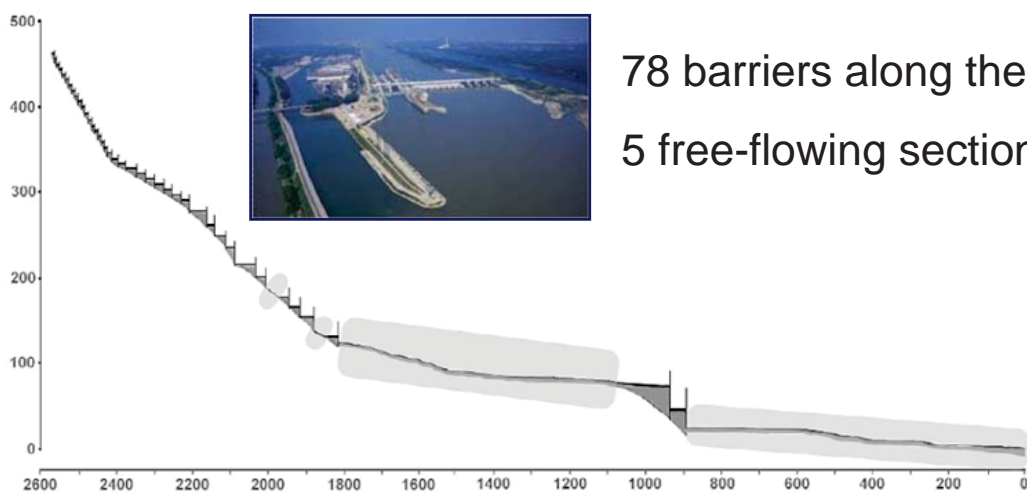
Existing Situation

Driving forces and impacts – *Danube River Basin*

- Hydropower plants
- Flood protection
- Navigation
- Climate change
- Changes in land use
- Point and diffuse source pollution

Hydroelectric Energy

Danube River Basin – Hydropower



Schiemer et al., 2004

International Waterway

Danube River Basin - Navigation



via donau, 2007

2411 km navigable
(Sulina-Kelheim)

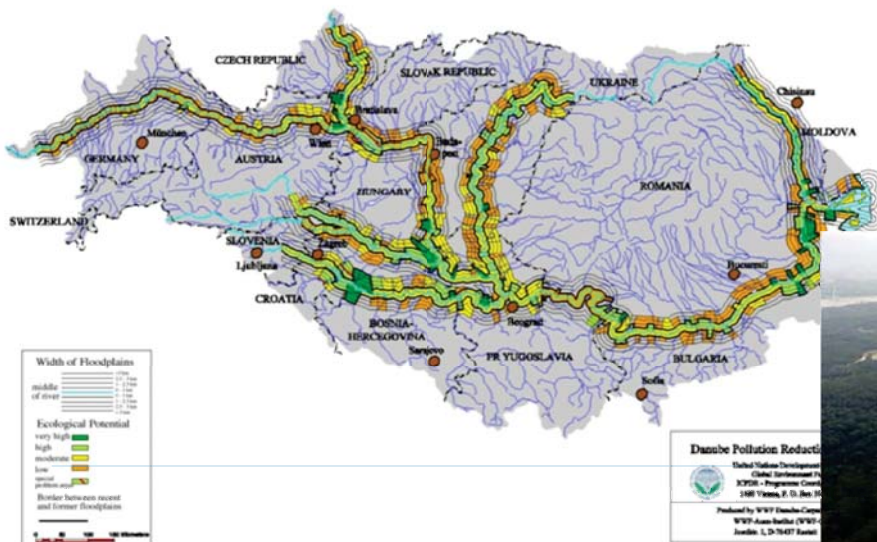
Waterway transport
in the Danube aims
to be increased from
10 mio to 30 mio t /
year (e.g. in Austria)



Flood Risk Management

Danube River Basin – Flood protection

Ecological potential of floodplains in the Danube River Basin

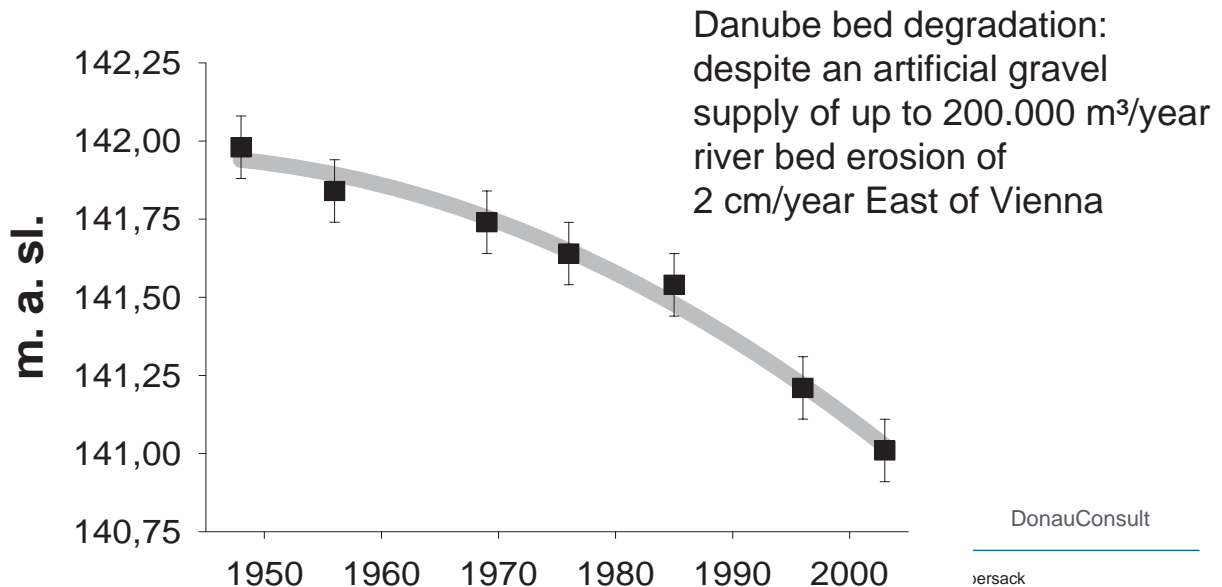


Loss of 80 %
of the original
floodplain
area



River Bed Degradation

Upper Danube - Consequences



18. 11

River Morphology

Hydromorphological conditions

Overall total hydromorphological assessment in five classes – longitudinal visualisation



1/3 good
hydromorphological
conditions

1/3 strongly altered

Upper Danube - most
affected by significant
hydromorphological
changes

ICPDR, JDS, 2008

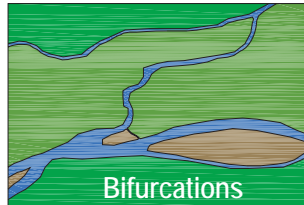
Lower Danube



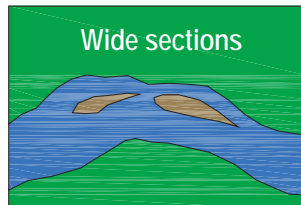
Hydromorphological situation

Originally partially anastomosing morphology, sandbed river

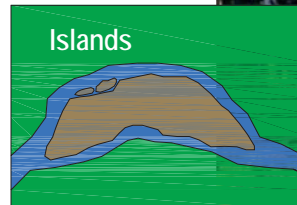
Actual situation:



Bifurcations



Wide sections



Islands



Side / bank erosion

Island development



Belene Island



Cama Dinu

Number of islands increased from 93 (1934) to 135 (1992)

Bondar & Teodor, 2008

Habersack et al., 2010

The CD-Laboratory for Advanced Methods in River Monitoring, Modelling and Engineering

Aims

- Development of **innovative methods** for the improvement of river monitoring (shear stress, sediment transport, morphodynamics etc.)
- Development and programming of **numerical models** (3D hydrodynamics, sediment transport and habitat modelling)
- Development and optimisation of **river engineering measures** to minimize river bed degradation, improve navigation, flood protection and ecology

Overview of modules



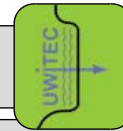
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MODULES

1 – River Monitoring

2 – River Modelling

3 – River Engineering



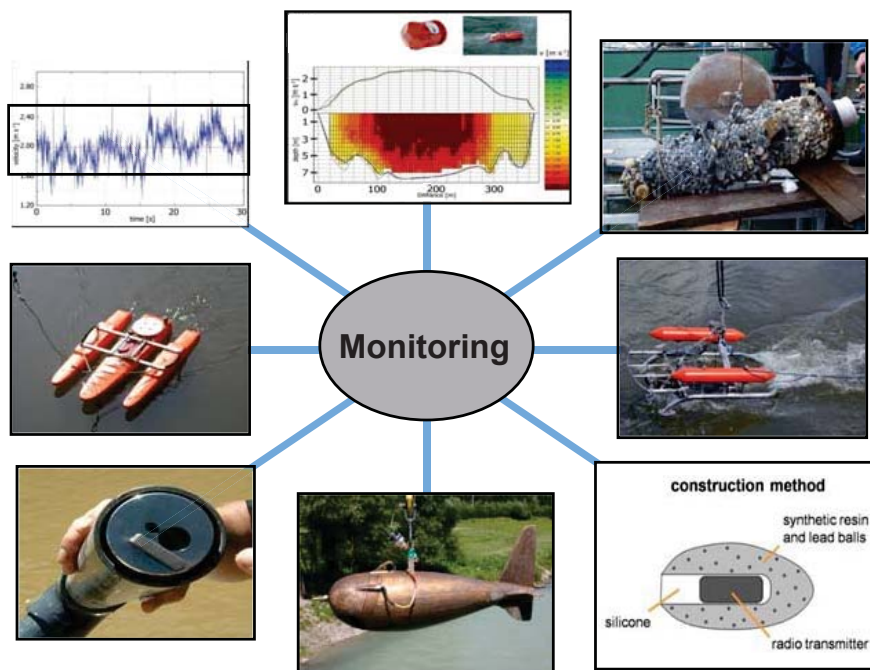
18. 11. 2011

The CDLab IM_FLUSS and related ideas for the common implementation of the Danube Strategy I Helmut Habersack

River Monitoring



University of Natural Resources and
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Department of Water, Atmosphere
and Environment



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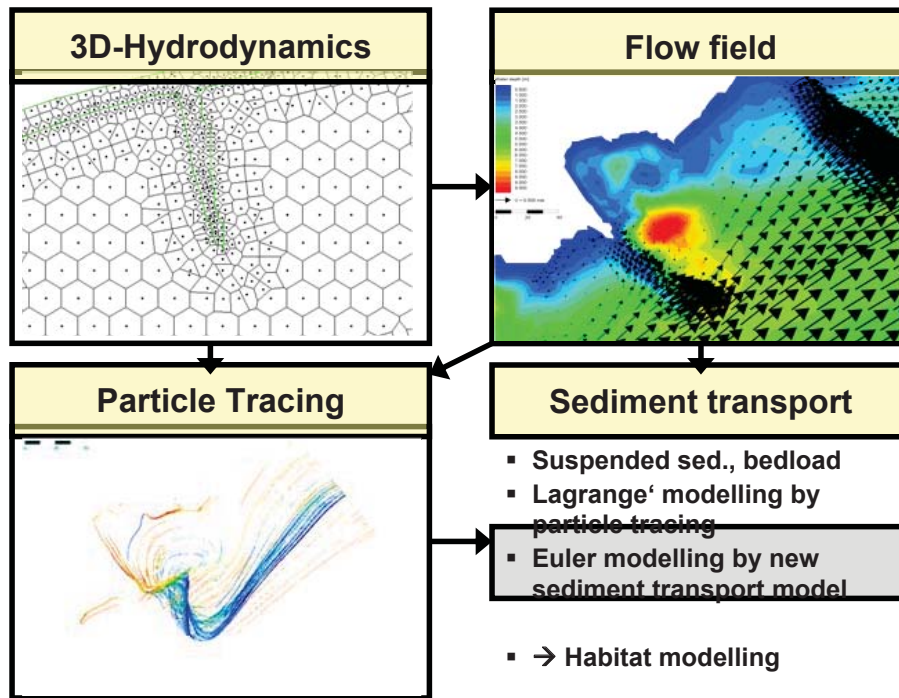
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18. 11. 2011

The CDLab IM_FLUSS and related ideas for the common implementation of the Danube Strategy I Helmut Habersack

River Modelling



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Department of Water, Atmosphere and Environment

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18. 11. 2011

The CDLab IM_FLUSS and related ideas for the common implementation of the Danube Strategy | Helmut Habersack

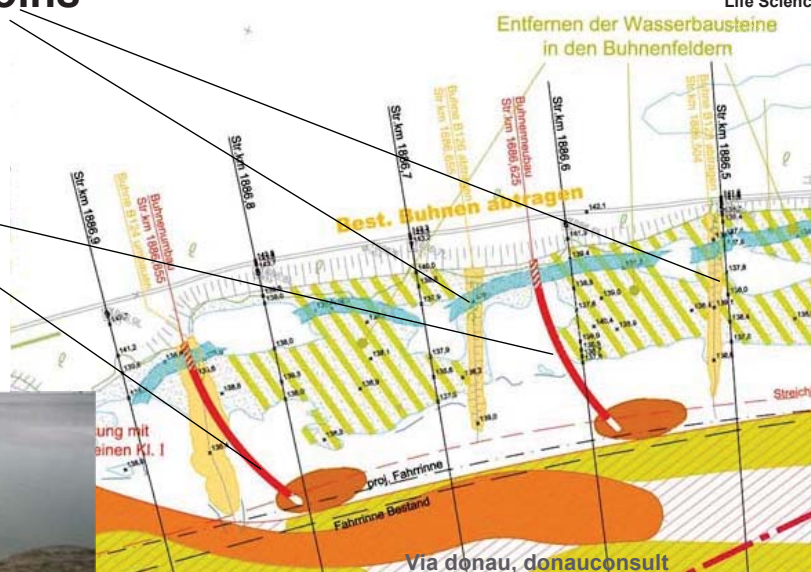
River Engineering



University of Natural Resources and Life Sciences Vienna,
Department of Water, Atmosphere and Environment

Existing groins

Modified groins



and related ideas for the common implementation of the Danube Strategy | Helmut Habersack

Ideas for Danube Strategy (1)

(1) Connecting the Danube Region

To improve mobility and multimodality

(a) Inland Waterways

(b) Road, rail and air links

To encourage more sustainable energy

To promote culture and tourism, people to people contacts

(2) Protecting the Environment in the Danube Region

To restore and maintain the quality of waters

To manage environmental risks

To preserve biodiversity, landscapes and the quality of air and soils

(3) Building Prosperity in the Danube Region

To develop the knowledge society through research, education and information technologies

To support the competitiveness of enterprises, including cluster development

To invest in people and skills

(4) Strengthening the Danube Region

To step up institutional capacity and cooperation

To work together to promote security and tackle organised and serious crime



Ideas for Danube Strategy (1)

(1) Connecting the Danube Region

To improve mobility and multimodality

(a) Inland Waterways

(b) Road, rail and air links

To encourage more sustainable energy

To promote culture and tourism, people to people contacts

(2) Protecting the Environment in the Danube Region

To restore and maintain the quality of waters

To manage environmental risks

To preserve biodiversity, landscapes and the quality of air and soils

(3) Building Prosperity in the Danube Region

To develop the knowledge society through research, education and IT

To support the competitiveness of enterprises, including cluster development

To invest in people and skills

(4) Strengthening the Danube Region

To step up institutional capacity and cooperation

To work together to promote security and tackle organised and serious crime



Ideas for Danube Strategy (2) Research Infrastructure Needs



University of Natural Resources and
Life Sciences Vienna,
Department of Water, Atmosphere
and Environment

- **two large hydraulic and environmental engineering laboratories:** one in the upper/middle part of the Danube (Responsible River Modelling Center RRMC) and one in the lower part (Hydraulic Engineering Lab); the reason for two labs (upstream/downstream): gravel bed vs sand bed river, up to ten times slope difference and different problem areas
- **cluster/network of river engineering simulation tools** to be used by Danube countries (common software development and implementation), being applied both on computer clusters and individual servers

Ideas for Danube Strategy (3) Research Infrastructure Needs



University of Natural Resources and
Life Sciences Vienna,
Department of Water, Atmosphere
and Environment

- **Network of field study sites along the Danube River** (each country should nominate a certain river stretch, specific problem area, work program etc.) for process analysis, model calibration and validation AND test of advanced river engineering solutions (examples, to be commonly agreed on: Austria: National Park Donauauen, Slovakia: Reservoir Gabčíkovo, Hungary: Mosoni Danube, Serbia, Croatia: Kopacki Rit, Romania, Bulgaria: border section).
- **Research diving shaft for the whole Danube** (e.g. operated by Serbia)

Ideas for Danube Strategy (4)

Research Infrastructure Needs



University of Natural Resources and
Life Sciences Vienna,
Department of Water, Atmosphere
and Environment

- Especially for optimizing river engineering measures there are infrastructural needs for performing large scale hydraulic models, being able to simulate the hydrodynamic, sediment transport, morphodynamic and ecological situation in the various parts of the Danube Basin. Therefore adequate hydraulic and environmental engineering laboratories should be available.
- Key data:**
 - Large discharge (about $5 \text{ m}^3 \text{ s}^{-1}$)
 - Water level difference → water supplied free flowing

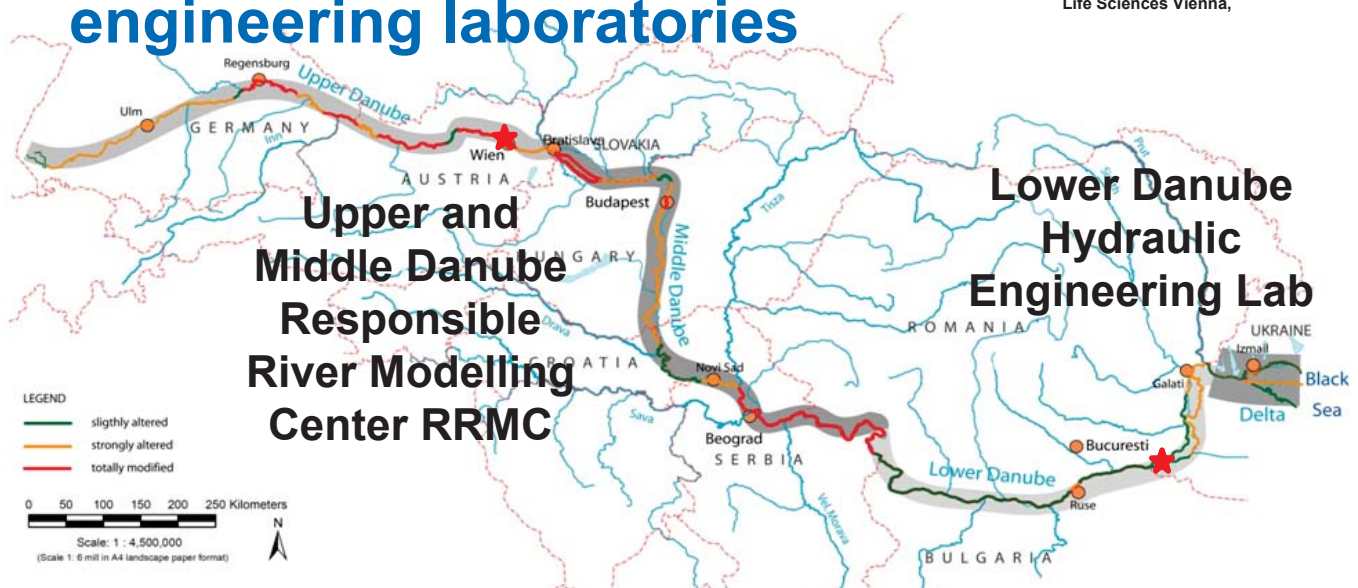
18. 11. 2011

The CDLab IM_FLUSS and related ideas for the common implementation of the Danube Strategy | Helmut Habersack

Suggestion for two large hydraulic and environmental engineering laboratories



University of Natural Resources and
Life Sciences Vienna,



18. 11. 2011

The CDLab IM_FLUSS and related ideas for the common implementation of the Danube Strategy | Helmut Habersack

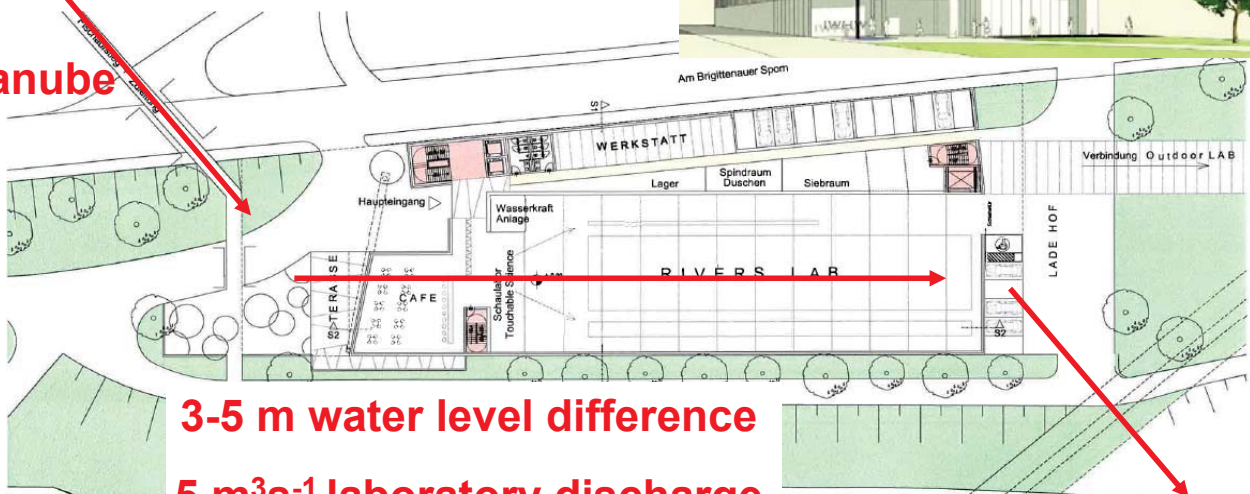


Idea for Upper and Middle Danube

IM FLUSS



Danube



3-5 m water level difference

5 m³s⁻¹ laboratory discharge

**Danube
Canal**

18. 11. 2011

The CDLab IM_FLUSS and related ideas for the common implementation of the Danube Strategy I Helmut Habersack



Univ. Prof. DI Dr. Helmut Habersack

Christian Doppler Laboratory for Advanced Methods in River Monitoring,
Modelling and Engineering

<http://cdlabor-imfluss.boku.ac.at>

<http://www.boku.ac.at>

IWHW - Institute of Water Management, Hydrology and Hydraulic
Engineering,

WAU - Department of Water, Atmosphere and Environment

BOKU - University of Natural Resources and Life Sciences, Vienna

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For information only – not an official document



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<http://www.unis.univie.ac.at>

United Nations Academic Impact (UNAI)

Background Information
November 2011

"It is often said that if the United Nations did not exist, we would have to invent it. I fully agree. And that is why we have to strengthen its capacities on each of the three pillars of the United Nations' work: peace, development and protection of human rights. Part of that effort means continuing to open our doors to new partners. The academic community is surely at the top of that list. My colleagues and I have been discussing an initiative called 'Academic Impact.' We hope to build stronger ties with institutions of higher learning: ... we hope to benefit from your ideas and scholarship."

UN Secretary-General Ban Ki-moon, in his address at Fairleigh Dickinson University, 10 September 2008

Introduction

The United Nations Academic Impact (UNAI) is a programme of the Outreach Division of the United Nations Department of Public Information and has been formally launched by UN Secretary-General Ban Ki-moon at a two-day summit in November 2010 at UN Headquarters in New York.

As a global initiative the UNAI aligns institutions of higher education with the United Nations in actively supporting ten universally accepted principles in the areas of human rights, literacy, sustainability and conflict resolution.

The Academic Impact also asks each participating college or university to actively demonstrate support of at least one of those principles each year.

The critical role of higher education in economic and social development and as a foundation for world peace is widely acknowledged. Only lacking is the resolve and action of academic leaders around the world. By formally endorsing the ten principles in the Academic Impact, institutions make a commitment to use education as an engine for addressing global problems.

Principles

Its essential frame of reference is:

- i) To bring into association with the United Nations, and with each other, institutions of higher learning throughout the world.
- ii) To provide a mechanism for such institutions to commit themselves to the fundamental precepts driving the United Nations mandate, in particular the realization of the universally determined Millennium Development Goals
- iii) To serve as a viable point of contact for ideas and proposals relevant to the United Nations mandate.
- iv) To promote the direct engagement of institutions of higher education in programs, projects and initiatives relevant to this mandate.

Academic Impact is informed by a commitment to support and advance ten basic principles:

1. A commitment to the principles inherent in the United Nations Charter as values that education seeks to promote and help fulfil;
2. A commitment to human rights, among them freedom of inquiry, opinion, and speech;

3. A commitment to educational opportunity for all people regardless of gender, race, religion or ethnicity;
4. A commitment to the opportunity for every interested individual to acquire the skills and knowledge necessary for the pursuit of higher education;
5. A commitment to building capacity in higher education systems across the world;
6. A commitment to encouraging global citizenship through education;
7. A commitment to advancing peace and conflict resolution through education;
8. A commitment to addressing issues of poverty through education;
9. A commitment to promoting sustainability through education;
10. A commitment to promoting inter-cultural dialogue and understanding, and the "unlearning" of intolerance, through education.

Activities

Participants in this initiative are expected to undertake to further, within their institutions, policies and programmes that reflect adherence to the principles governing Academic Impact. This would specifically include:

- a) Undertaking one new activity each year, to actively address at least one of the ten basic principles of Academic Impact listed above. Examples of this could include research projects and papers, the hosting of a conference, the financing of participation of students in a specific United Nations activity in the field, or a specific action or activity on campus. Any activity which is sponsored or paid for by a United Nations entity in the context of its own work programme shall be excluded from consideration.
- b) Placing prominently upon its websites, or in periodic printed publications, details of such activity, highlighting its relationship to the Academic Impact.

Participation

To participate in the UNA1 please complete the enrollment form at the Academic Impact website.

For further information, please visit:

UNA1 website: <http://academicimpact.org>

UNA1 on facebook: <http://www.facebook.com/ImpactUN>

UNA1 on twitter: <http://twitter.com/ImpactUN>

* * * * *



THE PROJECT

The **life science (LS) scene in Eastern Europe** has developed continuously and with commitment in the past years. Attractive growth rates of **up to 6%** significantly exceed the average of the old EU countries.

Austria has traditionally had good access to these countries and has know-how in the LS sector.

THE OBJECTIVES ARE ...

- ... building a **network** of the LS communities of the CEE countries to form an internationally competitive platform
- ... the **establishment** of a visible and sustainable life science communication infrastructure in the CEE region.



THE BENEFITS

- 
- **Promotion of research and development** in the area of life sciences as a sustainable future strategy.
 - **Development of the economic LS potential** of the CEE region and creation of sustainable jobs in the industries of the future.
 - **Support** of Western European companies and institutions in their market entry in CEE and vice versa by using the LS communications platform, which is to be newly created
 - Establishment of **Austria as a bridgehead** - 33% of the CEE companies that want to establish a location in the West use Vienna as their headquarters.
 - **Best-practice sharing/lessons learnt**



PRACTICAL IMPLEMENTATION



Building a network



Web platform



Workshops



Congress
& Science Award



Print medium



@ Building a network



- Resume and intensify **contact with potential cooperation partners** and financing institutions (local LS companies, local LS centers, local academies of science, CENTROPE, ABA, ÖGBMT, Visegrád Group, EVCO, AVCO)
- Establish **personnel resources** in local structures
- **Development of media kits** for print and web; start of sales talks
- **Ongoing PR activities**
 1. Across activities between Congress & Science Award & Print & Web
 2. Transnationally between the countries involved

@ Web platform



- Parallel to the print medium, an **up-to-date web platform** will be established
- The objective is to use a **transnational**, rapidly available communication medium in order to keep the **exchange of information and experiences up to date**.

@ Workshops



- **Innovation Meets Money** – partnering events for interested parties such as financiers, licensees and sponsors from the West as well as researchers and start-ups from the East
- **The objective is to raise capital for prospective projects** and to bring research results to market maturity via start-up companies
- The objective is to strengthen the **local LS clusters**

@ Congress & Science Award



- Based on the model of the **Austrian Life Science Award (ALSA)** an LS science award will be created for the Eastern European countries
- The judging panel will consist of **representatives of local academies**
- The award ceremony will take place at an interval of two years, each time in a different CEE country as part of an LS congress.

@ Print Medium



- **Four times a year** (6-8 issues in the medium term) an **English-language print medium** will illustrate the evolving life science scene in the countries and follow their activities. Separate local-language editions are possible.
- Content: research work, projects and initiatives in the **LS industry in the respective countries**
- The **print medium** is a central component of the ongoing communication strategy and **ensures the exchange of information between the LS clusters.**

PROPONENTS

→ **Kurt Konopitzky**

Long-standing President of the Austrian Association of Biotechnology (Österreichische Gesellschaft für Biotechnologie, ÖGBT), Founding member of Austrian Biotech Industries (ABI), former Managing Director of Boehringer Ingelheim Austria GmbH, Managing Director of PEA-CEE GmbH and PEC-GmbH

→ **Josef Brodacz**

Publisher of Chemiereport, Initiator and organizer of ALSA - Austrian Life Science Award

→ **Doris Dobida**

Marketing Communications Philips Medical Systems, Marketing Communications for AIT, Establishment and management of the platform Life Science Austria, Director strategic company locations Life Sciences (ABA)

→ **Renate Haiden**

Head of advertising Springer Verlag, Editor-in-chief Bohmann Verlag, Managing Director of Publish Factory GmbH, ALSA coordination office



Thank you!





October 2011

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PRACTICAL IMPLEMENTATION

↓
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↓
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↓
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& Science Award

↓
Print medium



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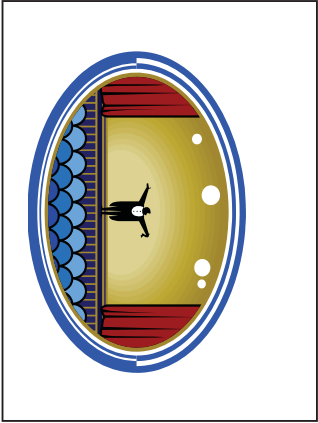
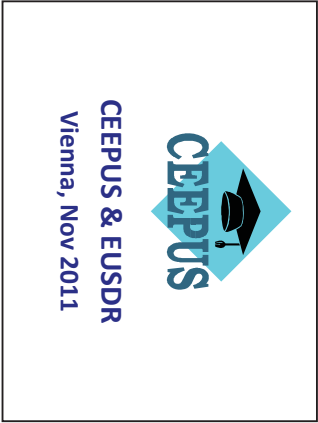
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Thank you!



Fotos: © iStockphoto.com





CEEPUS overview


basics about CEEPUS
results
evolution and outlook
quest for excellence



In the beginning



...there was the Danube...



...there was the region

common history
with different takes, of course
similar administrative culture
a living tradition of academic cooperation




then there was politics

1989

...and then there was:


Central
European
Exchange
Program for
University
Studies






mission

- regional cooperation
- equal partnership
- quest for excellence
- pooling the best
- "laboratory" and "incubator"



working mode

regional university networks
all subject areas welcome
regional mobility
exchange actions for students and teachers





working mode

semester stays
excursions
short term excursions
teacher mobility





special features

internal currency
lean management






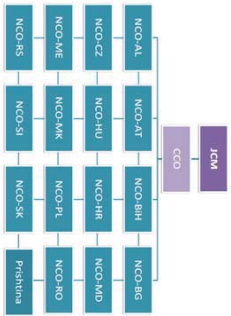
internal currency

comprehensive grants
no transfer of funds
"1 Scholarship Month"





lean management





and, did it work?





CEEPUS Intro

basics about CEEPUS
results
evolution and outlook
quest for excellence



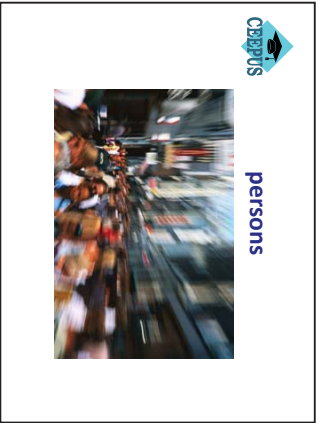
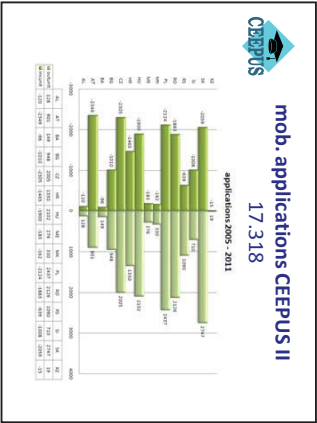
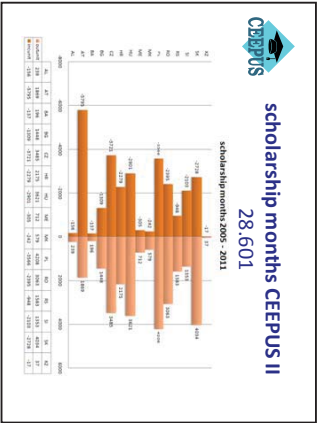


The CEEPUS Universe









persons

CEPUS I 15.438 persons
CEPUS II 15.706 persons

31.144

results overall evaluation

CEPUS I

best practice example
should be used elsewhere as well

CEEPU II overall evaluation

developing and implementing JDs

CEEPU has been successful

2/3 of the network participants interviewed say helpful to achieve their objectives

sweet success!

USP - unique selling proposition
unique regional focus
and country composition

innovative non-monetary funding system
based on national resources in a variable
geometry

CEEPU Intro


basics about CEEPUS
results
evolution and outlook
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CEEPUS timeline overview




CEEPUS I 1995 – 2005
 signed Dec 8, 1993, Budapest
CEEPUS II 2005 – 2011
 signed Mar 9, 2003, Zagreb
CEEPUS III 2011 -
 signed Mar 25, Budva






CEEPUS evolution

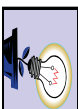
CEEPUS I
 multilateral cooperation, ECTS
CEEPUS II
 Joint Degrees
CEEPUS III
 linking up to science and research



what is new

CEEPUS III
 linking up to science and research





increased flexibility

Agreement
 Rules of Procedure
 Work Program





CEEPUS Science

focus on Joint PhD Programs
 “joint thesis supervision”





Silent partners

“The participation of institutions other than eligible universities as Silent Partners shall be foreseen upon invitation by an eligible university and provided the CEEPUS budget is not affected. ”





Perfect Partner

Experienced network
 Structure
 Financing
 Selection procedures
 Flexibility



CEEPUS Intro

basics about CEEPUS
 results
 evolution and outlook
 quest for excellence





Ministers' Prize





Ministers' Prize

CI-HU-0010-04-0910
"Teaching and Learning Bioanalysis"
coordinated by the
University of Pecs
Prof. Ferenc Klár



enthusiasm & competence

"Thanks to the CEEPUS program my vision for Europe changed a lot. What these four months during my stay in Ljubljana gave me can not be substituted with no lectures or books!"





enthusiasm & competence

"The exchange with the CEEPUS program was a turning point in my life. The CEEPUS program opened my eyes wide open for the new European perspectives."





enthusiasm & competence

"These 4 months there gave me knowledge that will stay with me forever."





enthusiasm & competence

"My time as an exchange student was not an experience, it was a revelation."





CEEPUS Intro

basics about CEEPUS
results
evolution and outlook
quest for excellence





THANK YOU !



Eliškeřek Štefanin
Secretary General

DANUBE RECTORS' CONFERENCE

BOKU Vienna 18 November 2011

NOVA/BOVA Nordplus network project
Lessons learnt from the BOVA-NOVA Network

Þorbjörg Valdís Kristjánsdóttir
Nordplus central coordinator
Agricultural University of Iceland

NOVA/BOVA Nordplus Network

- Student mobility
 - “normal” mobility
 - Express mobility
- Teachers mobility
- Intensive courses
- Network meetings

Student mobility – normal mobility

- Full-time studies
- One year of previous studies
- Live in host country
- Fully recognised
- 1-12 months
- 200€/month
- Travel scholarship (250€ or 350€)

Student mobility – express mobility

- 1-4 weeks
- Travel scholarship (330€ or 430€)
- PhD students can not apply for grant

Teachers mobility

- Specific and integrated teaching activity
- Tutoring and development of teaching materials.
- Minimum 1 week (5 days) or eight teaching hours
- 355€ per week + travel grant

Mobility - numbers

2010/2011

- 37 students*5 months
- 67students *1 week
- 7 teachers *1 week

- NOVA->BOVA:

23 students

2010/2011

- 2 students*5 months
- 23students *1 week
- 6 teachers *1 week

- BOVA-> NOVA:

8 students

2 teachers

INTENSIVE COURSES

- **Evaluation of Quality of Poultry Meat and Eggs, September 22 - October 1, 2010, LSMU-VA**
 - Total number of students: 16
- **Economics and Management of Rural Development, November 22-26, 2010, LZUU**
 - Total number of students: 28
- **Forest Tree Breeding and Adaptation, March 21 – 25, 2010, LLU**
 - Total number of students: 22
- **Renewable Energy Technologies, March 14 - April 1, 2010, LZUU**
 - Total number of students: 23

Nordplus application

- **Intensive courses 2011/2012**
- “Woody biomass plantations: options for cost-effective mitigation of climate change effects” - LLU
- “Sustainable Pig Production” – SLU and LLU
- “Evaluation of quality of poultry meat and eggs” – LSMU-VA
- “Game Animal Protection and Management” – LZUU
- “Innovation in Rural Economics” – EMU
- “Miljö och kommunikation” – HU-AF

Sustainable Pig Production



The screenshot shows the Nordplus Framework Programme website. The main headline is "Crossing borders in agricultural education". The text below it states: "Synergies within Nordic-Baltic agricultural education reinforce the cooperative environment between the two regions. After having met in Lithuania last year, coordinators of the networks NOVA and BOVA decided on a continued common effort to build international education in the field of agriculture and life sciences." There is a photo of people in winter gear standing in a snowy field. On the left, a vertical navigation bar lists categories: JUNIOR, HIGHER EDUCATION, ADULT, HORIZONTAL, and LANGUAGES & CULTURE. The bottom of the page features a timeline of events from 10:40 PM to 1:40 PM.

9

Networking

- 2010/2011 no funding for networking !
 - Meeting with NOVA/BOVA Nordplus coordinators and academic advisors in Jelgava 23-24 March 2011



Opportunities for Universities in the context of the European Research Area

DRC Danube Rectors Conference

Financing possibilities for DRC activities

Dimitri CORPAKIS
Head of Unit

C5-Regional dimension of innovation
DG Research and Innovation

Vienna, 18/11/11

research



Universities are significant players in boosting the knowledge economy

- A challenging leading role on ***driving innovation forward***
- ***Agents of change*** in sectoral and regional contexts – ***expected important role in Smart Specialisation Strategies***
- ***Producers*** of the knowledge economy
- Part of the Tripe Helix
- ***Honest brokers*** in the context of regional economies



research

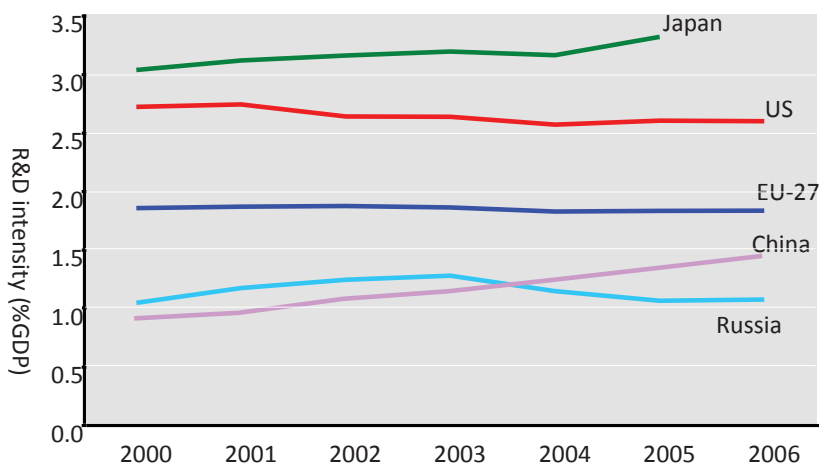
innovation



Our global position in numbers

- Investment in R&D:

	R&D investment (%GDP)	R&D funded by private sector (%)
EU-27	1.8	55
US	2.6	64
Japan	3.3	75
China	1.4	65



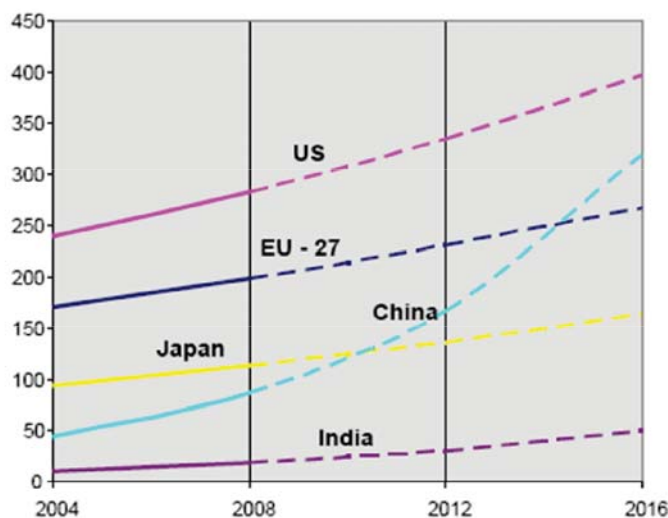
research innovation



The EU is slowly falling behind on R&D

4

Evolution of world R&D expenditure in real terms (in € billion at 2000 prices)



Presentation of J.M. Barroso to the European Council, 4 February 2011

Source: European Commission

research innovation



What's wrong in Europe?

7

- Poor availability of finance
- Costly patenting
- Lack of legal and tax level-playing field
- Outdated regulations and procedures
- Slow standard-setting
- Weaknesses in public education and innovation systems
- Failure to use public procurement strategically
- Fragmentation of efforts



Presentation of J.M. Barroso to the European Council, 4 February 2011

research innovation



What can we do about it?

8

- 'Smart' fiscal consolidation
- Improved framework conditions
- Steer and monitor at EU level
- A future-oriented EU budget

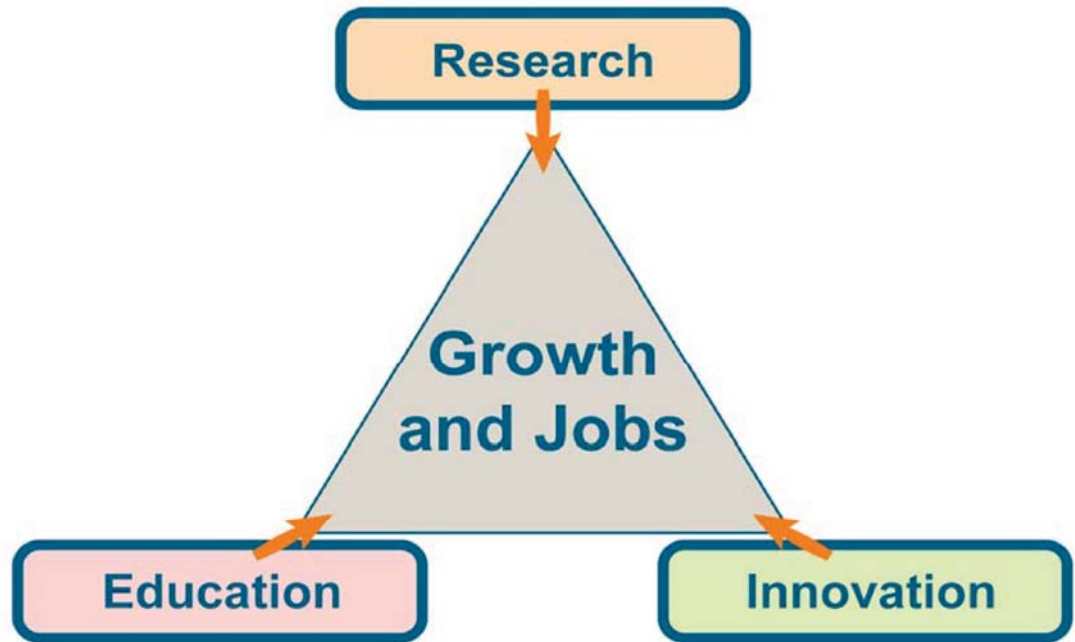


Presentation of J.M. Barroso to the European Council, 4 February 2011

research innovation



The Knowledge Triangle

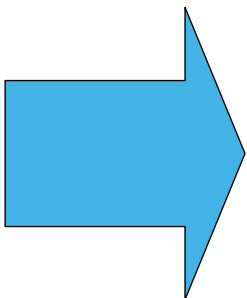


research innovation



Europe 2020 strategy

- 3 Clear objectives
 - Smart, sustainable and inclusive growth



Invest 3% of GDP in R&D by 2020

- **Focus on Innovation**
- Research and innovation funding contributes directly to the achievement of Europe 2020 (Innovation Union flagship initiative)



research innovation



Europe 2020 strategy

Smart growth

- Turn Europe to a knowledge and innovation economy
- New sources of growth and creation of new jobs require national efforts to boost research and innovation, upgrade education and remove barriers to entrepreneurship
- Harness the untapped potential of the single market
- Use EU funds to drive the public sector towards new growth paths, stimulating discovery, innovation and entrepreneurship



research

innovation



Europe 2020 Strategy

Smart growth

Research, innovation and education

- Research and Innovation boost productivity and growth
- Future research and innovation investments expected to have even stronger impact in terms of growth and job creation
- significant social and environmental returns
 - Current Framework Programme estimated to bring 900,000 jobs and to add 1% to the EU's GDP



research

innovation



Europe 2020: 3% objective can still deliver

- meeting the Europe 2020 target of increasing R&D investment to 3 percent of GDP could create 3.7 million jobs and increase annual GDP by up to €795 billion by 2025. One million extra researchers will be needed.
 - Source: P. Zagamé, (2010) The cost of a non-innovative Europe, http://ec.europa.eu/research/social-sciences/policy-briefs-research-achievements_en.html



research

innovation



Europe 2020 Strategy

Smart growth

Research, innovation and education

Innovation Union Flagship Initiative

- A plea to the Member States to:
 - invest in R&D and innovation
 - create the right framework conditions
 - ensure that remaining barriers for entrepreneurs to bring "ideas to market" will be removed by:
 - better access to finance
 - affordable IPR
 - faster setting of interoperable standards
 - strategic use of the procurement budgets



research

innovation



Funding opportunities for the DRC

- Funding opportunities under the 7th Framework Programme for Research and Technological Development (2007-13)
- Funding opportunities under the Competitiveness and Innovation FP (CIP) (2007-2013)
- Funding opportunities under the present and future Cohesion policy (funds)
- Beyond funding: setting up the ERA



research

innovation



Why research at European level?

- Pooling and leveraging resources
 - Resources are pooled to achieve critical mass
 - Leverage effect on private investments
 - Interoperability and complementarity of big science
- Fostering human capacity and excellence in S&T
 - Stimulate training, mobility and career development of researchers
 - Improve S&T capabilities
 - Stimulate competition in research
- Better integration of European R&D
 - Create scientific base for pan-European policy challenges
 - Encourage coordination of national policies
 - Effective comparative research at EU-level
 - Efficient dissemination of research results



research

innovation



FPs: significant impacts on S&T and the economy

- Significant economic benefits

€1  €4-7

(research)

at European level

(long-run, econometric models)

- Reduced commercial risk

- increased turnover and profitability
- enhanced productivity and market share

- Innovative performance

- Enterprises participating in FP:

- tend to be more innovative
- more likely to patent
- engage in innovative co-operation with other firms and universities



research

innovation



Funding opportunities under the 7th Framework Programme for Research and Technological Development (2007-13):

the 2012 Calls for proposals are open !



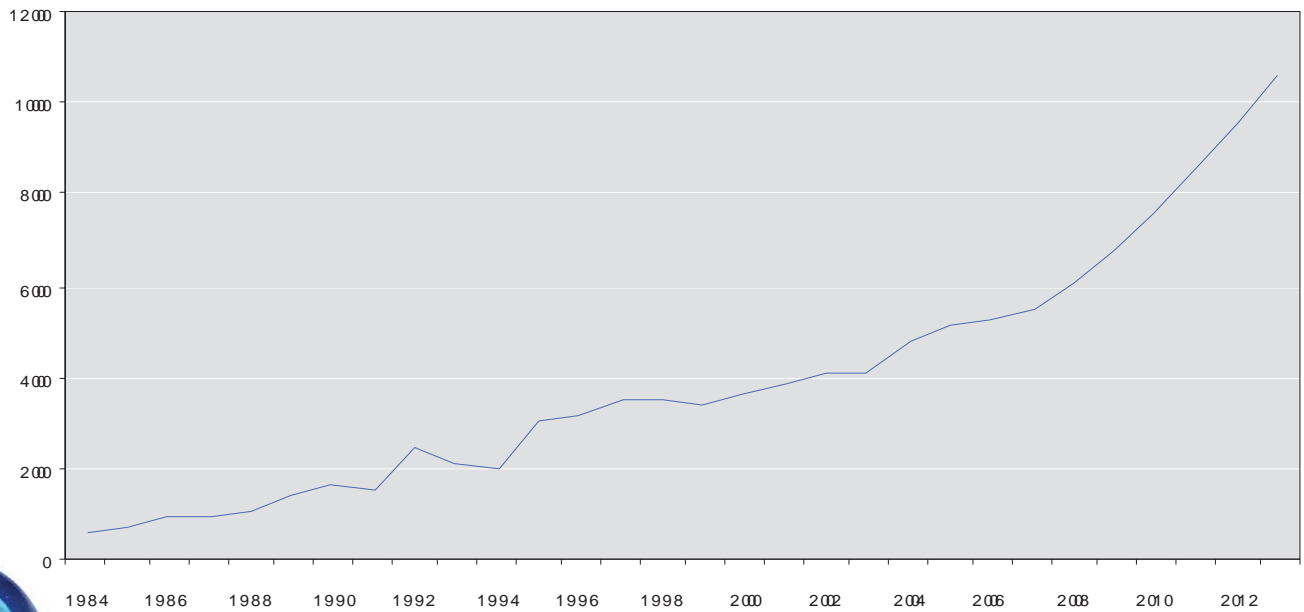
research

innovation



Budgets of the EU Framework Programmes 1984-2013

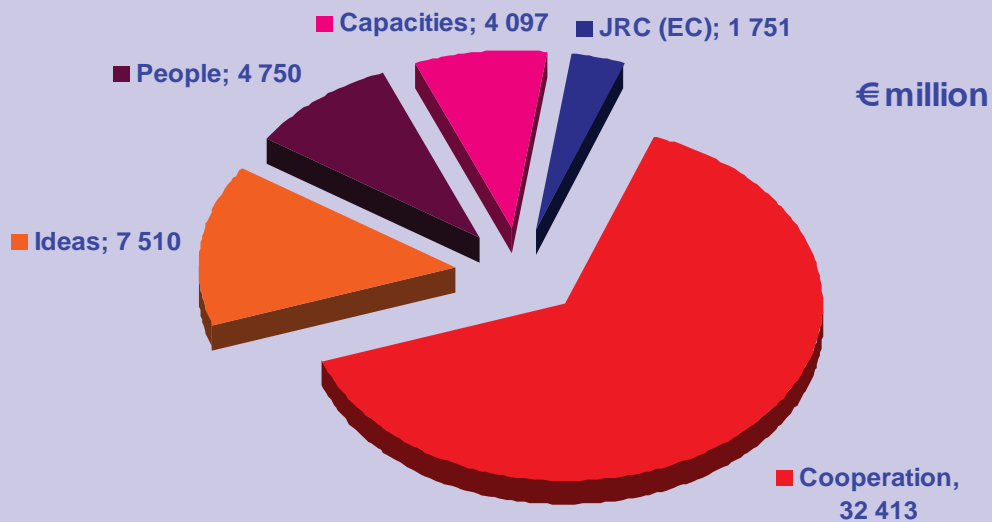
€million



research innovation



FP7 budget (€ 50 521 million, current prices)



Note:



research innovation



FP7 2007 –2013 | Specific Programmes

Cooperation – Collaborative research

Ideas – Frontier Research

People – Marie Curie Actions

Capacities – Research Capacity

JRC non-nuclear research

Euratom direct actions – JRC nuclear research

Euratom indirect actions – nuclear fusion and fission research



research

innovation



Why are these calls important?

- Research and innovation at the top of the political agenda
- EU research funding delivering the Innovation Union
- Tackling the biggest societal challenges facing Europe
- Creating jobs with special attention for SMEs
- Supporting the best researchers and innovators in Europe



research

innovation



What is new?

- Bigger budgets to kick-start innovation
- Implementing the EIP on active and healthy ageing
- Calls targeting biggest societal challenges facing Europe
- Two new actions for SMEs
- Bridging the gap from results to commercialisation



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innovation



Budget key figures “growth & jobs”

- €7 billion in total
- SMEs
 - ▶ €1 billion package for SMEs under the calls
 - ▶ €120 million for "RSFF for SMEs" → €1 billion in private investment
- €1.6 billion European Research Council
- €900 million for Marie Curie Actions (10.000 researchers)



research

innovation



Budget key figures “grand challenges”

- Health € 654 million (inc. research on active and healthy ageing)
- ICT € 1.3 billion (inc. research on active and healthy ageing)
- Environment € 265 million
- Nanotechnology € 488 million
- Transport € 488 million
- € 313 million for European bio-economy including safer food



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innovation



Who is the target?

All research actors in the EU and the Associated Countries:

- Universities
- Research organisations
- Large industry
- SMEs
- Financial institutions



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Universities are at the heart of the Framework Programme

- The traditional ***University – Business consortium*** has always been at the heart of the Research Framework Programme
- ***Thousands of universities*** have teamed up with businesses to ***test new ideas, advance knowledge or simply think about new strategies for innovation***, during the 7 editions of the FP starting in the mid-eighties



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The Regional Dimension in FP7 holds a strong role for Universities

- ***Regions of Knowledge*** under the ***Capacities specific programme***, aims at bringing European Regions faster to the Knowledge Economy through ***transnational cooperation of Research intensive Clusters*** (following the Triple Helix concept linking Business, Academia and Government)



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The Regional Dimension in FP7 holds a strong role for Universities (II)

- *(Unlocking) Research Potential* under the *Capacities* specific programme aims at stimulating and increasing the research capacities of excellent research institutions located in the so-called *Convergence and Outermost Regions* of Europe (according to criteria defined under Cohesion policy regulations).
- The programme links these institutions to excellent partnering organisations located in at least 3 different Member or Associated States, organising staff exchanges, hiring researchers, funding small equipment and improving IPR Management of the coordinating institution



research

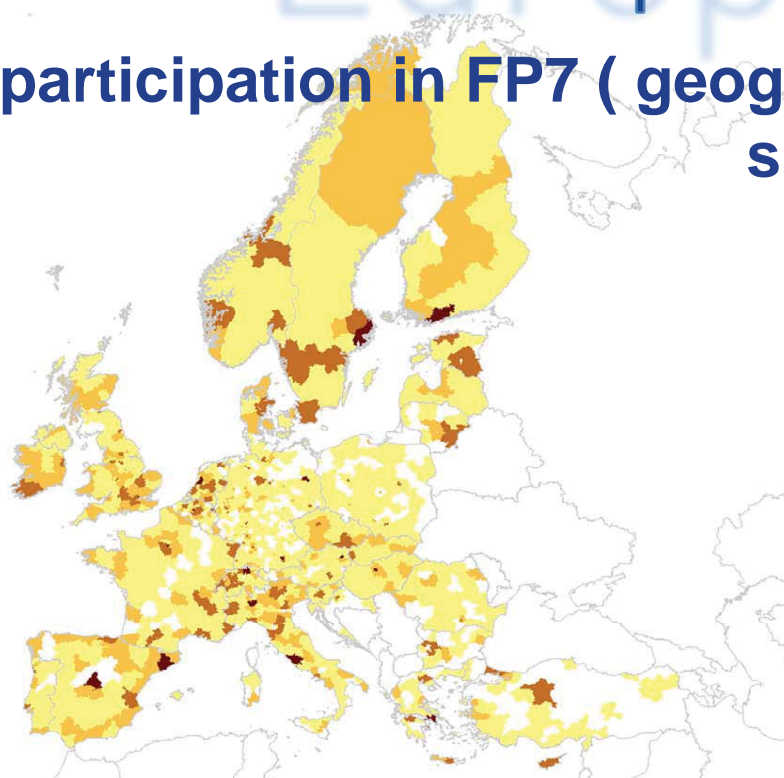
innovation



Europe



Overall participation in FP7 (geographic spread)



Number of
participants

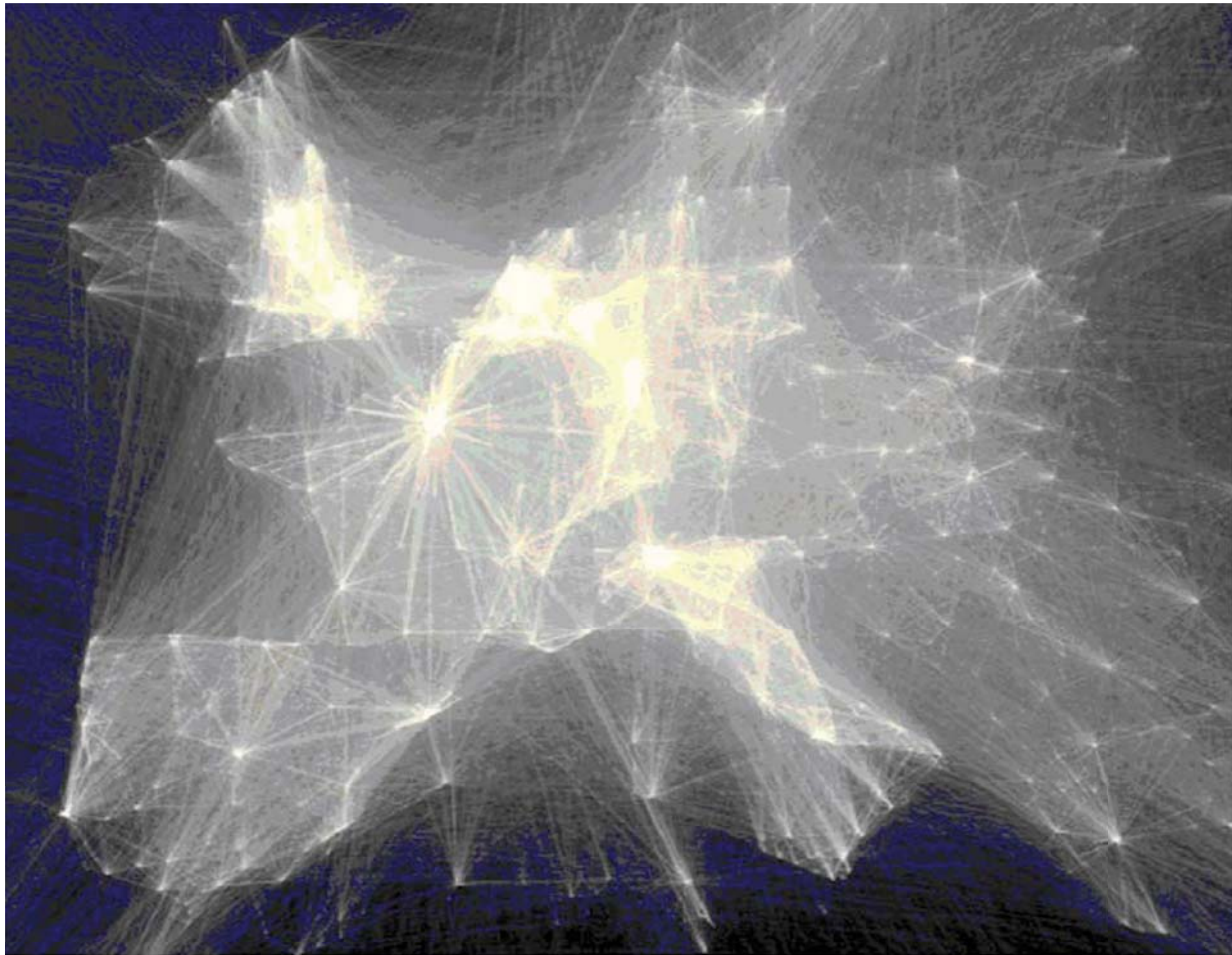
- 501 - 2777
- 101 - 500
- 21 - 100
- 1 - 20



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The Heat-map of
scientific
collaboration in
Europe 2005-2009



Funding opportunities under the Competitiveness and Innovation FP (CIP) (2007-2013)



Competitiveness and Innovation Framework Programme (2007-13)

- CIP supports innovation activities (including eco-innovation), provides better access to finance and delivers business support services in the regions.
- It encourages a better take-up and use of information and communication technologies (ICT) and helps to develop the information society. It also promotes the increased use of renewable energies and energy efficiency.
- CIP runs from 2007 to 2013 with an overall budget of € 3621 million.
- CIP is divided into three operational programmes. Each programme has its specific objectives, aimed at contributing to the competitiveness of enterprises and their innovative capacity in their own areas, such as ICT or sustainable energy:
- The Entrepreneurship and Innovation Programme (EIP)
- The Information Communication Technologies Policy Support Programme (ICT-PSP)
- The Intelligent Energy Europe Programme (IEE)



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Support to Innovation through CIP (2007-13)

- The European Commission provides support for innovation through a series of initiatives and actions aimed at providing financial support to innovators, as well as better innovation support services for SMEs, notably start-ups, by developing and testing new forms of business support and facilitating transnational cooperation with a view to mobilising more resources for the creation of a European Innovation Space.
- DG Enterprise and Industry supports this aim through the CIP financial instruments, through policy cooperation under the PRO INNO Europe[®] initiative, partnership platforms between European innovation professionals under Europe INNOVA and through the IPR Helpdesk that provides assistance on intellectual property issues for EU funded projects.



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Cohesion policy (2007-2013)



research innovation



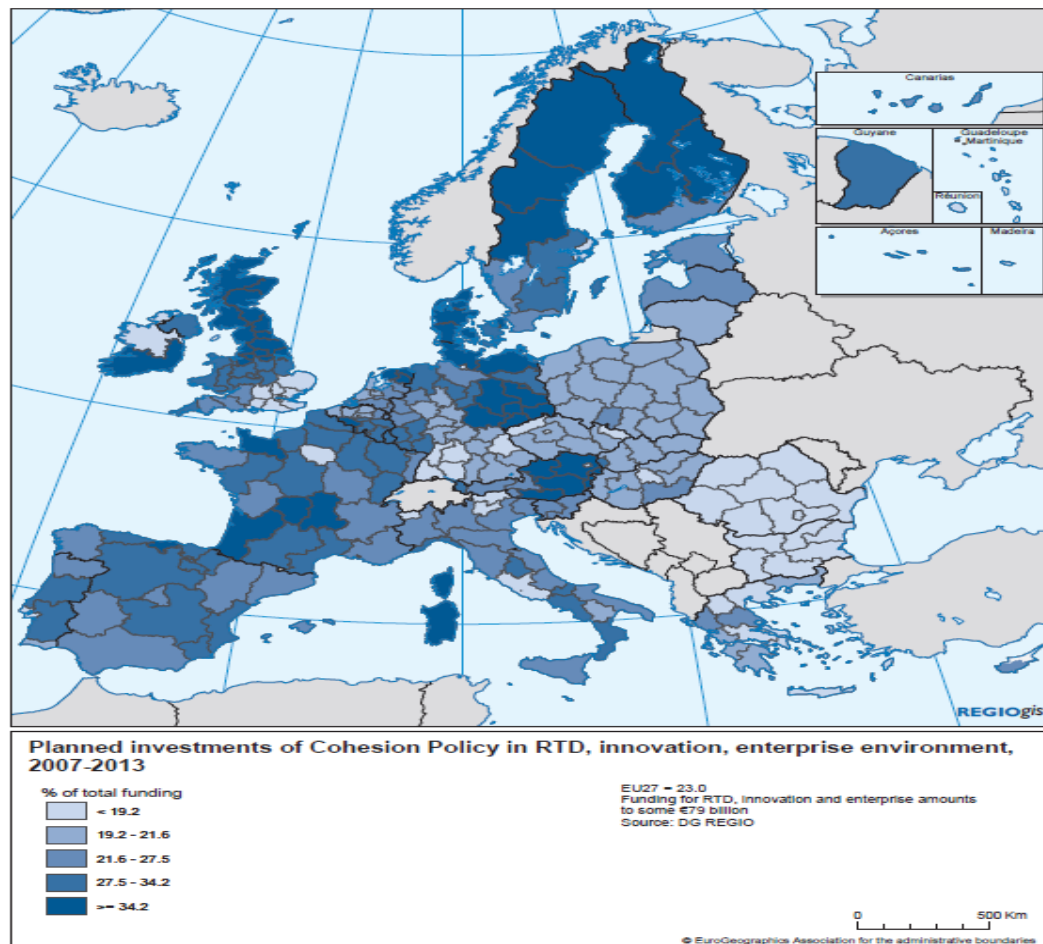
Cohesion Policy Funding for RTD and innovation 2007-2013

Cohesion Policy
support for
Innovation:

- 4% in 89'-93'
- 7% in 94'-99'
- 11% in 00'-06'
- 25% in 07'-14'

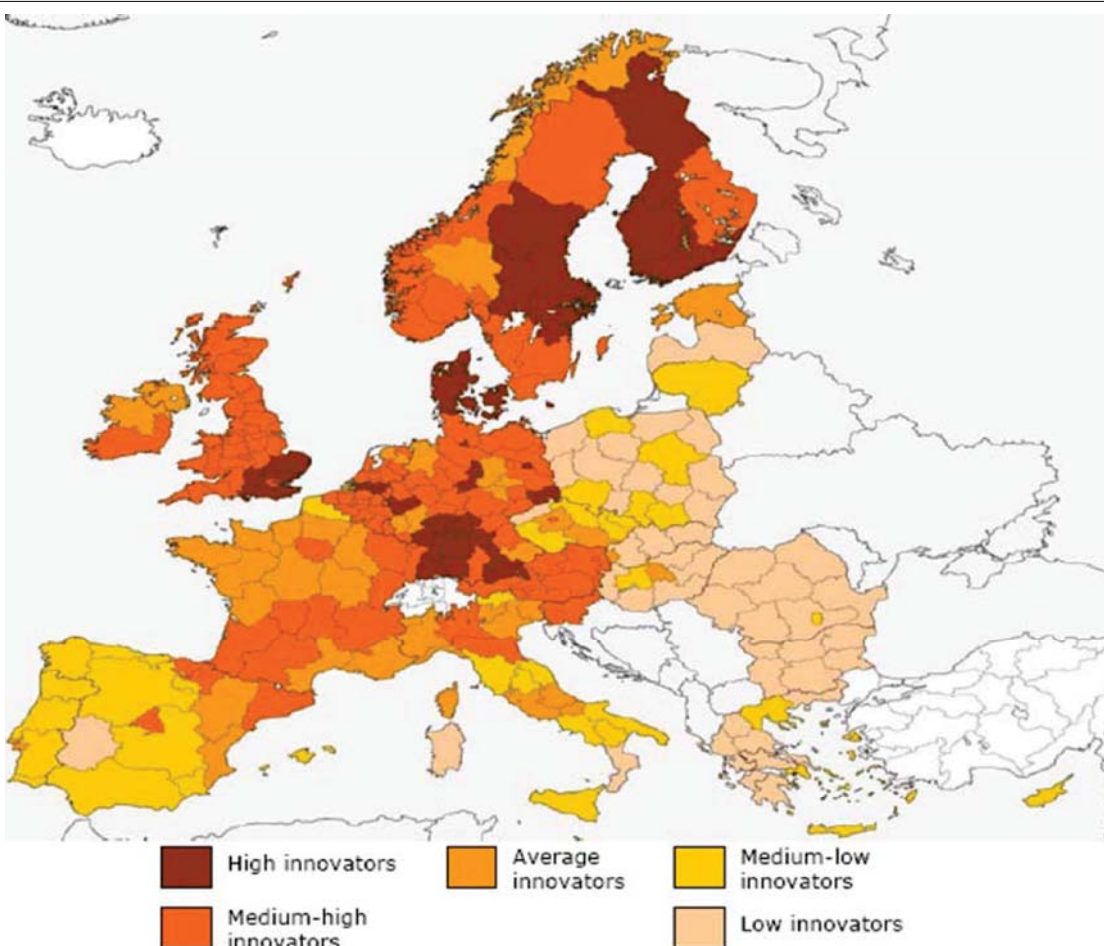


research innovation

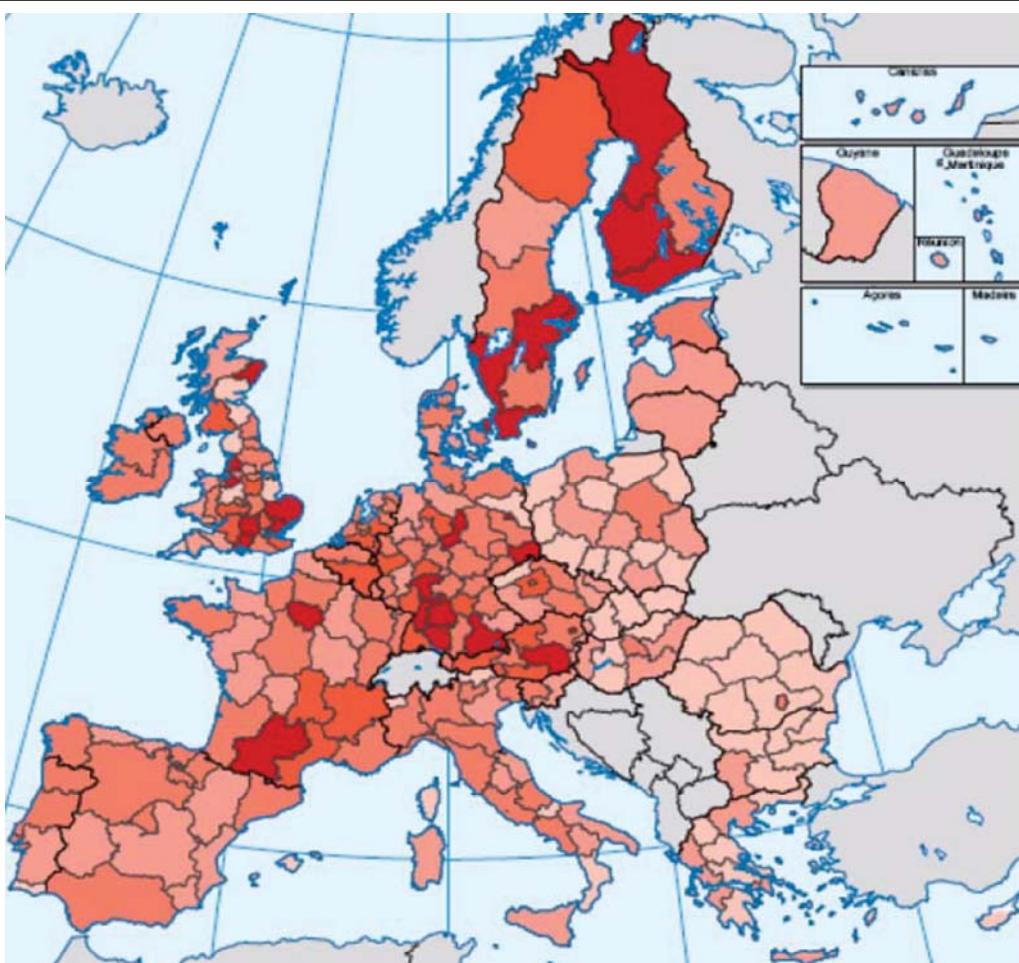


Regional Innovation Performance taxonomy

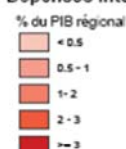
Source:
Regional
Innovation
Scoreboard,
2009



- GERD, 2007
(Source DG REGIO, EUROSTAT)



Dépenses internes totales de R&D (GERD), 2007



How the Structural Funds can stimulate R&D and Innovation investment in European regions

- Fund R&D infrastructure and equipment (conventional approach - still valid)
- favouring the establishment of medium and long term R&D and innovation investment strategies through Smart Specialisation (coupled with increased conditionality and clear thematic priorities)
- help create the appropriate framework conditions for stimulating R&D and innovation especially in connecting academia and industry
- stimulate the emergence of clusters of technological competence / excellence involving especially SMEs
- Favouring peer review through international expertise to raise quality in terms of strategy and delivery



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Beyond funding

Building the European Research Area

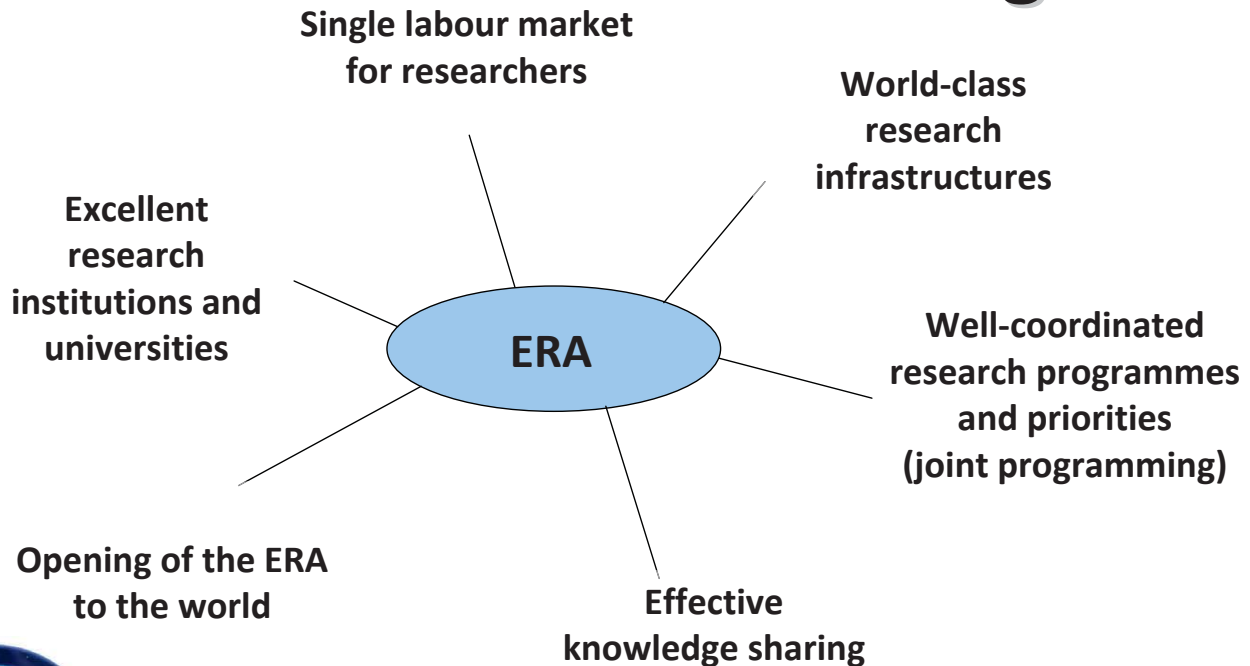


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European Research Area (ERA) building blocks



research innovation



Quick links for Universities on EUROPA

http://europa.eu/quick-links/schools-universities/index_en.htm

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Europa
Gateway to the European Union

English (en)

EUROPA > Quick links > Schools & universities

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Businesses

Non-governmental bodies and organisations

Schools & universities

Job seekers

Kids: games, quizzes and competitions

Quick links for schools and universities

Find out about EU education and research programmes. Find teaching materials for schools.

Education

- [EU lifelong learning programme for education and training](#)
An overview of EU education and training programmes (Erasmus, Leonardo da Vinci, Comenius, Grundtvig, Jean Monnet, Tempus, Erasmus Mundus)
- [Comenius programme for pre-school, primary and secondary education](#)
Encouraging partnerships between schools in different countries and improving the mobility of pupils and staff
- [Erasmus programme for higher education](#)
Encouraging cooperation between institutions for higher education and enabling students to study abroad
- [Leonardo da Vinci programme for vocational education and training](#)
European programme for vocational education and training
- [Grundtvig programme for adult education](#)
History and goals of European funding programme for adult education
- [Ploteus - portal on learning opportunities in Europe](#)
Information on studying in Europe, including exchange programmes
- [Create a European CV and a language passport](#)
Instructions, forms for creating European CV with language-skills section
- [Recognition of qualifications \(ENIC-NARIC\)](#)
Provides access to national centres for information on educational systems
- [Erasmus Mundus scholarships](#)

Popular links

- [The Europa Diary and Teacher's Guide](#)
- [Lingu@net Europa - the multilingual centre for language learning](#)
- [Traineeships in EU institutions](#)
- [EuroparTV - Young Europe](#)

Help us improve

Find what you wanted?
☐ Yes ☐ No

What were you looking for?

Any suggestions?



research innovation



Our Practical Guide to EU Funding is online and soon in its second edition !

http://cordis.europa.eu/eu-funding-guide/home_en.html



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European Commission : CORDIS : Practical Guide to EU funding opportunities for Research and Inn - Windows Internet Explorer

http://cordis.europa.eu/eu-funding-guide/home_en.html

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Home guide
Supporting your ideas
Finding sources of funding
Combining different options
Understanding the roles of authorities
Checklist for funding
Annexes
Print the whole document
Related information

Introduction

At the Community level, the Union possesses three key funding instruments to support research and innovation:

- the Research Framework Programme funding research and;
- the Competitiveness and Innovation Framework Programme funding innovation and;¹
- the Structural Funds and Cohesion Fund funding the Cohesion policy.

This Practical Guide was conceived in order to help potential beneficiaries of our programmes find their way through the three funding instruments and identify the most appropriate funding scheme for them. It:

- provides a concise description of the three funding sources;
- explains how they can in practice be combined and;
- provides policy makers with advice on setting up mechanisms at the national and regional levels to foster co-ordinated access to them.

¹ [Competitive European regions through research and innovation COM \(2007\) 474 of 16/08/2007](#)

Last updated on: 2010-11-24

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Participant Portal calls

<http://ec.europa.eu/fp7calls>

More information about FP7 budget:

http://ec.europa.eu/research/fp7/index_en.cfm?pg=budget

More information about participation by country:

http://ec.europa.eu/research/fp7/index_en.cfm?pg=country-profile

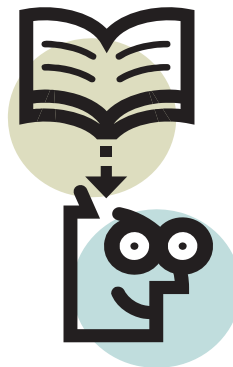


research

innovation



Thanks for your attention!



research

innovation



Danube Rectors' Conference

Funding opportunities - European Territorial Cooperation (ETC) and IPA-CBC programmes

Katrin Stockhammer and Ivana Lazic, INTERACT Point Vienna

17-18 November 2011 | Vienna



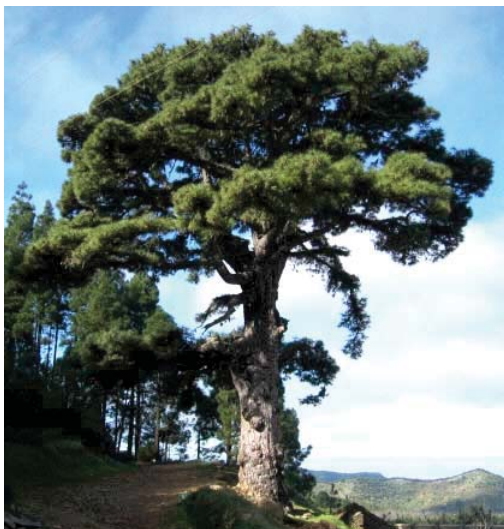
INTERACT is co-financed by the European Regional Development Fund (ERDF) | European Territorial Cooperation



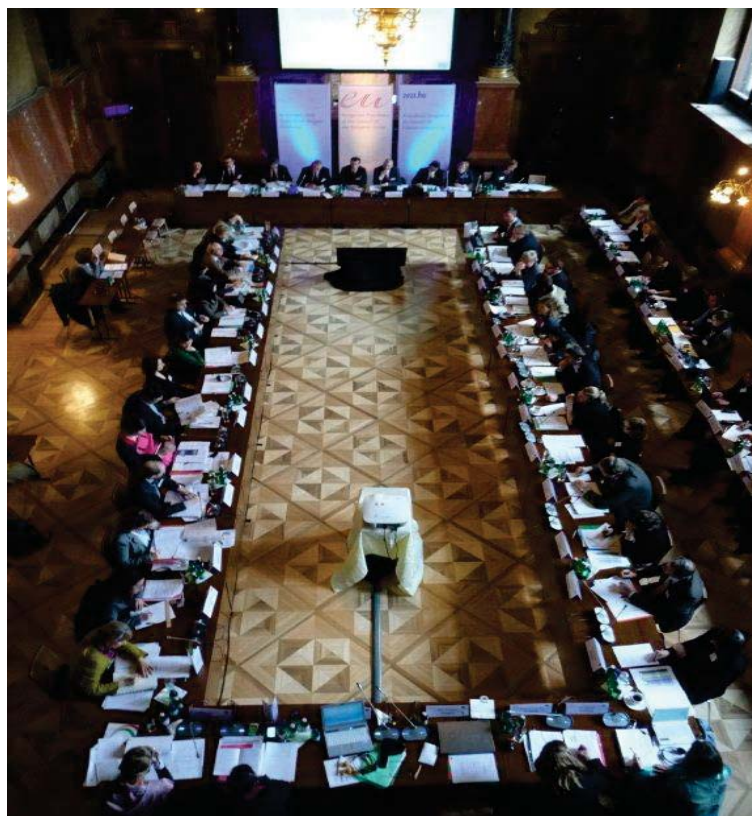
What geographic scale is your strategy?



Plasticity: the plants' way to cope with their environment



Source: 'Adaptation in Plants: Some Short and Long Term Perspectives'
BOKU VIBT / DAGZ; University of Natural Resources and Life Sciences, Vienna



Monitoring Committee Meeting - Interregional cooperation. Source: INTERREG IVC Programme

The Platform of European Territorial Cooperation and IPA-CBC programmes

- We create communities of actors throughout Europe, facing the same daily issues, questions and challenges.
- We organise conferences, seminars and workshops and publish studies and newsletters.
- We provide input to the European Commission.
- A Territorial Cooperation programme co-financed by ERDF & MS + CH + NO organised in 4 Zones.



EUSDR Labgroup



- WHO? ETC programmes, regional Structural Funds programmes, financing institutions (e.g. EIB), European Commission
- WHAT? Finding common approaches and practical solutions for the implementation of the EUSDR



www.danube-region.eu

A screenshot of the website www.danube-region.eu. The page has a blue header with the website name and a navigation menu. The main content area is divided into several sections. On the left, there is a sidebar with a list of links, each preceded by a red square with a white number. A red arrow points to the fourth link, "Priorities". The main content area features a large banner with the "DANUBE REGION strategy" logo and a map of the region. Below the banner, there is a section titled "The EU Strategy for the Danube Region" with a detailed description of the strategy and its four pillars. At the bottom, there is a "Calendar" section with a monthly view and a "Disclaimer" section.

DANUBE REGION strategy Environmental Risks

Home | News | Events and Meetings | Members | Steering Group | Projects | Photos | Files | Forum | E-mail Archive | Manage

About

Priority Area 05 of the EUSDR "To manage environmental risks" is coordinated by Hungary (Ministry of Rural Development) and Romania (Ministry of Environment and Forests), with the involvement of a wide network of key players and stakeholders from the 14 countries of the Danube Region.

Here you can find out about main activities, projects and actions in the field of environmental risks in the Danube Region, latest news and upcoming events on the topic.

News & Announcements

EUSDR and implementation of PA5
Posted by [Petra Szávics](#), Tuesday, 26th July 2011 @ 1:50pm

A general presentation of the Strategy and an overview of the implementation steps for Priority Area 5 were presented to relevant stakeholders at the Summer University held in Baile Tusnad, Romania.

Presentation of the Danube Strategy
Posted by [Petra Szávics](#), Tuesday, 26th July 2011 @ 1:48pm

EUSDR and Priority Area 5 were presented to a group of stakeholders in Sfântu Gheorghe, Romania by the Romanian Co-coordinator.

Danube Day in Romania
Posted by [Petra Szávics](#), Tuesday, 26th July 2011 @ 1:35pm

The DANUBE DAY - 29th of June - was celebrated in Romania with a cultural and gastronomic festival organized in Sulina on the 1st of July.

On the 29th of June a representative of the Romanian Ministry of Environment and Forests participated at the events organized in Hungary connected to the Danube Day, handing over the **Danube Flag** held by Romania for one year after starting its journey in Ukraine.

Events

October 2011

Mon	Tue	Wed	Thu	Fri	Sat	Sun
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

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Funding opportunities

Home | Calendar | What is the EUSDR | Priorities | Who is Who | Funding opportunities | Projects and initiatives | More... | Manage

ETC, IPA, CBC and ENPI CBC programmes

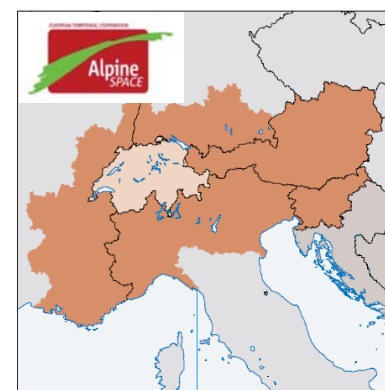
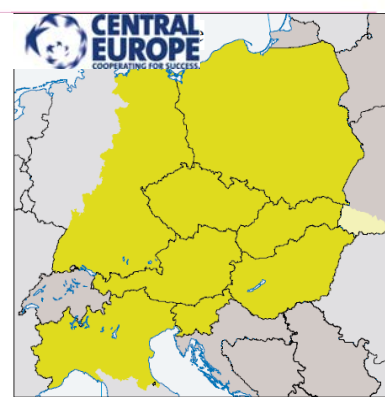
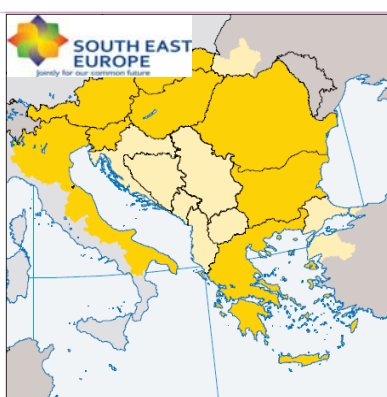
This table provides a list of all ETC programmes. Contact details and website links have been added as available to INTERACT. Should you want to add or comment any information, please contact us. INTERACT Point Vienna does not warrant or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information, product or process disclosed in or connected to this document.

Type	Programme	Website	JTS e-mail	Pillar I	Pillar II	Pillar III	Pillar IV
Transnational	Alpine Space	http://www.alpine-space.eu/	jts@alpine-space.eu	X	X	X	X
Transnational	Central Europe	http://www.central2013.eu/	info@central2013.eu	X	X	X	X
Transnational	South East Europe	http://www.southeast-europe.net	jts@southeast-europe.net	X	X	X	X
CBC	Alpenrhein - Bodensee - Hochrhein	http://www.interreg.org/		X	X	X	X
CBC	Austria - Czech Republic	http://www.at-cz.eu/	office@at-cz.eu	X	X	X	X
CBC	Austria - Germany (Bavaria)	http://www.interreg-bayaut.net/	gts.interreg-bayaut@salzburg.gv.at	X	X	X	X
CBC	Austria - Hungary	http://sk-at.eu/at-hu/	at-hu.jts@vati.hu	X	X	X	X



Types of projects - EXAMPLES

- Strategic cooperation between universities/research institutes in neighboring countries
- Clusters / Triple helix
- Developing joint use of infrastructure and services or educational programmes
- Thematic cooperation (environment, transport, education, economic development, institutional capacity, etc.)
- Funds still available in some ETC programmes and the IPA-CBC programmes



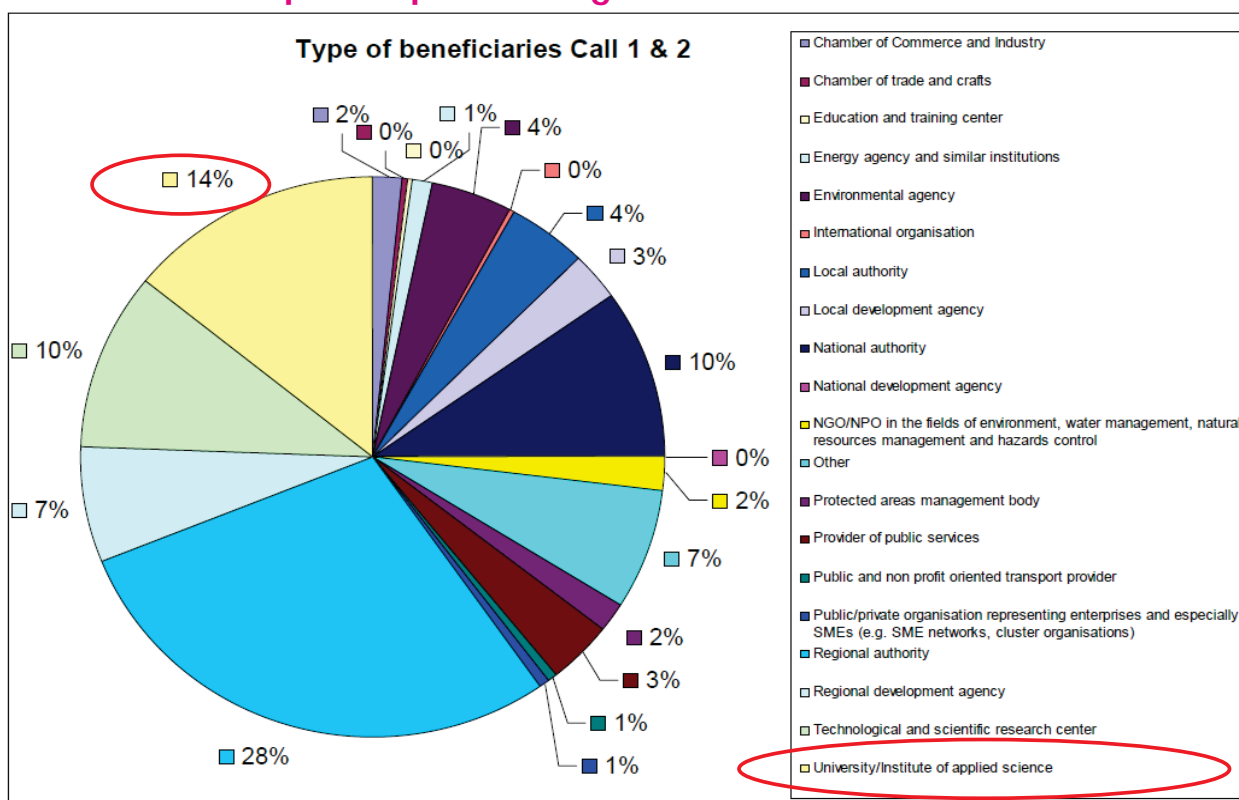
Six out of 13 Transnational Cooperation Programmes

Types of projects involving universities/research institutes

EXAMPLES

- Develop transnational cooperation strategies
- Develop and test models for effective technology transfer to businesses
- Provide transnational innovation support tools and services for SMEs
- Human capital for the innovation process
- Respond to joint challenges like flooding or transport
- Last calls will be closed soon

EXAMPLE - Alpine Space Programme

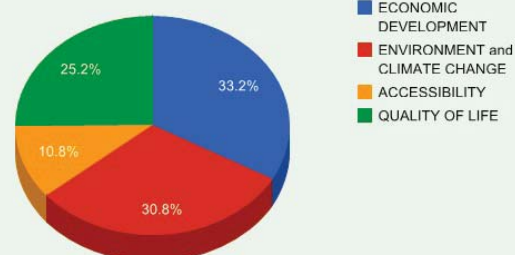




Keywords

- Agriculture and fisheries and forestry
- Climate change and biodiversity
- Clustering and economic cooperation
- Community integration and common identity
- Construction and renovation
- Cooperation between emergency services
- Costal management and maritime issues
- Cultural heritage and arts
- Demographic change and immigration
- Education and training
- Energy efficiency
- Evaluation systems and results

PROJECTS PER THEMES





- The proposed total budget for ETC is 11,7 billion EUR (2007-2013: 7,8 billion).
- 73% of the total funding of ETC for cross-border programmes, 21% for transnational and 6% for interregional.
- The proposed co-financing rate is 75%.
- All cross-border and transnational programmes shall choose up to 4 thematic objectives out of 11.



1. strengthening **research, technological development and innovation**;
2. enhancing access to, and use and quality of, information and **communication technologies**;
3. enhancing the **competitiveness of small and medium-sized enterprises**, the agricultural sector (for the EAFRD) and the fisheries and aquaculture sector (for the EMFF);
4. supporting the shift towards a **low-carbon economy** in all sectors;
5. promoting **climate change adaptation**, risk prevention and management;
6. **protecting the environment** and promoting **resource efficiency**;
7. promoting **sustainable transport** and removing bottlenecks in key network infrastructures;
8. promoting **employment** and supporting **labour mobility**;
9. promoting **social inclusion** and combating poverty;
10. investing in **education, skills and lifelong learning**;
11. enhancing **institutional capacity** and an efficient public administration.



Stronger role for research and innovation

- All programmes should be aligned with the EU 2020 strategy and need to describe their strategy for contributions.
- Cross-border cooperation should (among others) aim to tackle common challenges in border-regions such as ... *'the development of cross-border research and innovation facilities and clusters, ... and cooperation among universities.'* (Preamble of the draft ETC Regulation).
- Transnational cooperation: can support the implementation of macro-regional strategies.
- Interregional cooperation should (among others) *foster cooperation between innovative research-intensive clusters and exchange between researchers and research institutions based on 'Regions of Knowledge' and 'Research Potential in Convergence and Outermost Regions'* currently under FP7 (Preamble of the draft ETC Regulation).



What do you want to do?

- Further developing strategic intelligence - strengthening networks within the EUSDR:
 - Transnational cooperation areas: One programme covering the Danube macro-region?
 - More flexibility to spend money outside the cross-border and transnational programme areas.
- From smart specialisation to smart cooperation: Complementary / synergetic specialisation in a cross-border or transnational context.
- Combine funding sources: e.g., to develop triple helix cooperation, jointly used infrastructure, joint research programmes, etc.
- Potential role for the EUSDR Priority Area Coordinators in ETC:
 - Involvement in programming (design of programmes)
 - Involvement in project assessment
 - Clustering of existing projects ...
- Development of programmes and strategic projects starts soon!



Adriatic

Hungary - Croatia

Hungary - Serbia

Romania - Serbia

Bulgaria - former Yugoslav Republic of Macedonia

Bulgaria - Turkey

Bulgaria - Serbia

Slovenia - Croatia

Greece - Albania

Greece - former Yugoslav Republic of Macedonia

SEE transnational programme (IPA participation)

MED transnational programme (IPA participation)

Types of projects involving universities/research institutes

EXAMPLES

- Increasing cross-border learning and joint curricula
- Provide cross-border innovation support services for SMEs/models for economic development
- Development of more resistant corn hybrids
- Respond to joint challenges like flooding or water quality
- Developing innovative methods for energy efficiency
- Innovative cross-border survey on geothermal drillings

Funding opportunities

ETC, IPA, CBC and ENPI CBC programmes

This table provides a list of all ETC programmes. Contact details and website links have been added as available to INTERACT. Should you want to add or comment any information, please contact us. INTERACT Point Vienna does not warrant or assume any legal liability or responsibility for the accuracy, completeness or usefulness of any information, product or process disclosed in or connected to this document.

Type	Programme	Website	JTS e-mail	Pillar I	Pillar II	Pillar III	Pillar IV
Transnational	Alpine Space	http://www.alpine-space.eu/	jts@alpine-space.eu	x	x	x	x
Transnational	Central Europe	http://www.central2013.eu/	info@central2013.eu	x	x	x	x
Transnational	South East Europe	http://www.southeast-europe.net	jts@southeast-europe.net	x	x	x	x
IPA CBC	Bulgaria - Serbia	http://www.ipacbc-bgrs.eu/eng		x	x	x	x
IPA CBC	Bulgaria - Turkey	http://www.ipacbc-bgtr.eu/eng		x	x	x	x
IPA CBC	Bulgaria - former Yugoslav Republic of Macedonia	http://www.ipa-cbc-007.eu/en/	jtsipakyustendil@gmail.com	x	x	x	x
IPA CBC	Hungary - Croatia	http://www.hu-hr-ipa.com/	info@hu-hr-jts.com	x	x	x	x
IPA CBC	Hungary - Serbia	http://www.hu-srb-ipa.com/	info@hu-srb-jts.com	x	x	x	x
IPA CBC	IPA Adriatic	http://www.adriaticipacbc.org/	info@adriaticipacbc.org	x	x	x	x
IPA CBC	Romania - Serbia	http://www.romania-serbia.net/	ipacbc@brct-timisoara.ro	x	x	x	x
IPA CBC	Slovenia - Croatia	http://www.si-hr.eu/start_en/	jts-si-hr.svlr@gov.si	x	x	x	x



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ETC/INTERREG Agenda

November 2011

M	T	W	T	F	S	S
31	01	02	03	04	05	06
07	08	09	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	01	02	03	04
05	06	07	08	09	10	11

Wednesday 09 November Overview

No events planned for this day.

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[Communication](#)
[Evaluation](#)
[IPA CBC](#)
[EGTC](#)
[KEEP](#)
[Europe 2020](#)
[DG Regio Mailings](#)
[Regulatory Framework](#)

News



[DG Regio publishes "European Ter...](#)
The European Commission - DG Reg...

[First European Project Slam - Pr...](#)
Luxembourg organised a side even...

Events



[Alignment of Funding in Implemen...](#)
10.11.2011
Stockholm, Sweden

[ETC Strategic Approach | Day 1 S...](#)
10.11.2011
Rome, Italy

Territorial Cooperation



[European Territorial Cooperation...](#)
"More growth and jobs for all regions and cities of the European Union." This is the message which is at the heart of the programming period 2007-2013 for Cohesion Policy and its instruments. Europ...

Macro-Regions



[EU Macro-Regional Strategies](#)
In this section you will find useful information on European Macro-Regional Strategies and related INTERACT support

ENPI CBC



["Main Management Challenges for ...](#)
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