Institute for Nuclear Research and Nuclear Energy Bulgarian Academy of Sciences

BEOBAL

BEO Centre of Excellence

BEO Centre of Excellence Research Capacity Improvement for Sustainable Environment and, Advanced Integration into ERA Jordan Stamenov, Boyko Vachev



FP6 Project



BEOBAL – 3 main conceptual Pillars

- System approach to Nuclear Science, Environment and Society
- Long Term Development of Strategic Cooperation and Integration
- 3. Enhancement and Development of New Organisational Structures in European Context with Regional Accent



BEOBAL — 1st Pillar Advanced rechnologies and Methods

International Collaboration and Cooperation

Advan Metrok Networking. International Collaboration and Integration

Reinforcement of BEO Centre Research Capacities

Human resources

Advanced Research Infrastructure

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Advanced Methodology, Technologies and Methods Advanced Metrology

Observing and Complex Monitoring of Environment and Society

Science - Society

Management

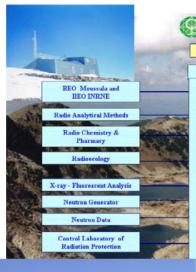
Quality
Management
System
Innovations &
Business
Activities

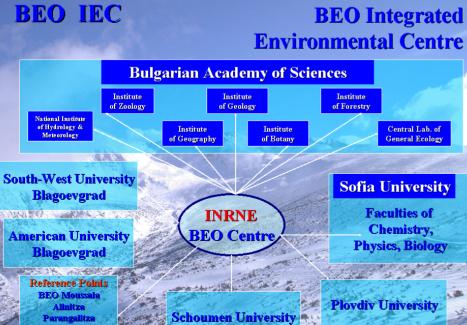
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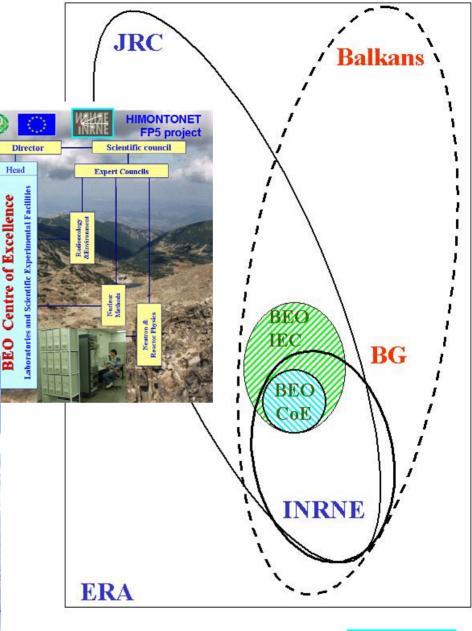
Sustainable Environment



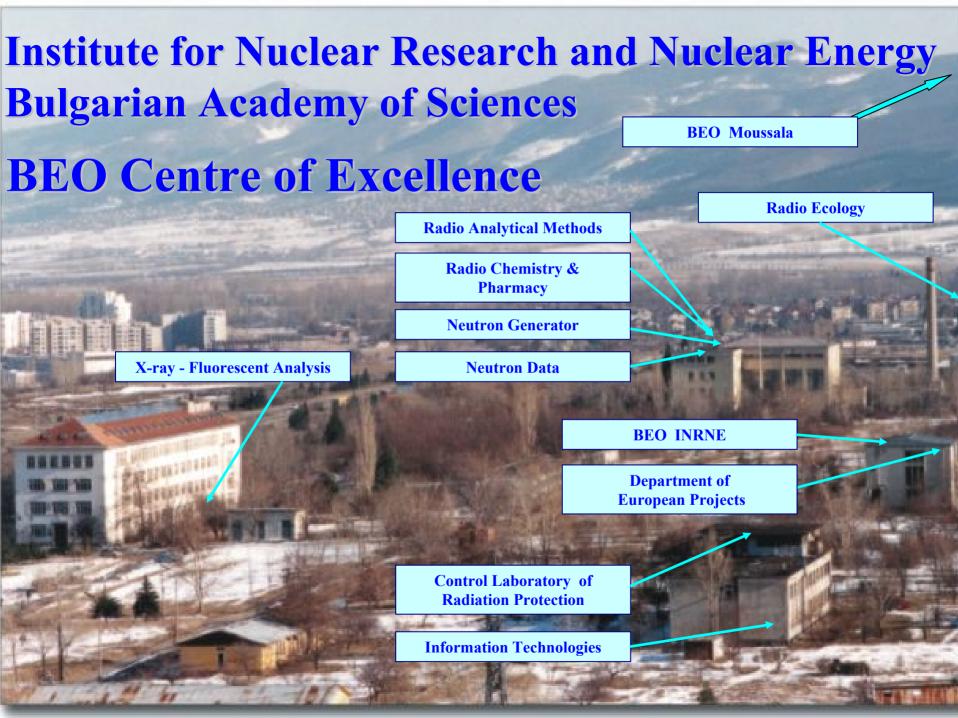
BEOBAL – 3rd Pillar











BEOBAL – Objectives



Main Goal

Reinforcement of the BEO Centre of Excellence Research Capacities, and by this way the respective S&T potential of INRNE and Bulgaria for advanced Sustainable Environment studies, devoted to the main Global change and ecosystems observing problems, using sophisticated information technologies and advanced Integration in ERA, in their institutional, national, regional and European aspects

4 BASIC OBJECTIVES

- Networking, International Collaboration & Integration and Reinforced Research Infrastructure
- Improvement of Human Resources
- Advanced Science Society Interactions
- Advanced Management



BEOBAL – SSA Tools Kit



SSA_A1: 14 Networking with other research centres in Member States (MS) or ACCs: organising exchange of personnel <u>and</u> of results <u>and</u> joint experiments;

SSA_A2: 27 Visiting fellows (teachers and/or researchers):

SSA_A21: 8 Hosting scientists from abroad for teaching, training

SSA_A22: 19 Hosting scientists from abroad for research activities

SSA_A3: 14 Training in MS or ACCs for Ph.D. students and/or post-doctoral researchers: sending scientists from the centre for short stays, to laboratories abroad, either for specialised training or to carry out a specific research experiment;

SSA_A4: 3 Workshops, conferences: in order to diffuse and to exploit research results;

SSA_A5: 20 Study visits of the researchers from the Centre to other institutions in MS or ACCs in order to prepare <u>cooperative activities</u> and/or <u>joint RTD proposals</u>;

SSA_A6: 4 Hiring of new young researchers to reinforce human potential;

SSA_A7: 15 Upgrading and/or renewal of S&T equipment



BEOBAL – Partners



N	Organization	Country	Role
1	Institute for Nuclear Research and Nuclear Energy, Sofia	Bulgaria	Executor and Co-ordinator
2	JRC EC, Joint Research Centre	Belgium	Cooperative Partner
3	Institute for Transuranium Elements, ITU, JRC EC, Karlsruhe	Germany	Scientific Collaborator (SC)
4	Institute for Environment and Sustainability, IES, JRC EC, Ispra	Italy	SC
5	Institute for Reference Materials and Measurements, IRMM, JRC EC, Geel	Belgium	SC
6	Mt. Cimone Environmental Research Station, HMO MC	Italy	SC
7	Testa Grigia Research Station HMO TG	Italy	SC
8	UFS Schneeferner hause, Zugspitze, HMO ZS	Germany	SC
9	High Altitude Research Station Jungfraujoch and Gornergrat, HMO JFJ	Switzerland	SC
10	Sonnblick Observatorium, HMO SB	Austria	SC
11	Nuclear Physics Institute, Czech Academy of Sciences, Prague, NPI	Czech Republic	SC
12	National Institute of Nuclear Physics, INFN, Torino sect.	Italy	SC
13	Institute of Nuclear Sciences, Ege University, Izmir, INS	Turkey	SC
14	ALOMAR Observatory, ALOMAR	Norway	SC
15	Meteorological Observatory Hohenpeissenberg, Deutscher Wetterdienst, MOHP-DWD	Germany	SC
16	Lomnitský Štit Observatory, LS	Slovakia	SC
17	Norwegian Institute for Air Research, Polar Environmental Centre, Tromsø, NILU	Norway	SC
18	Institutes and Universities from BEO IEC	Bulgaria	SC, <u>Users</u>
19	European organization for nuclear research, CERN	Switzerland	SC
20	Vinca Institute for Nuclear Science, Belgrade	Serbia, Serbia and Montenegro	<u>User</u>
21	Centre for Ecotoxicological Research, Podgorica	Montenegro, Serbia and Montenegro	<u>User</u>
22	Institute of Nuclear Physics, Tirana	Albania	<u>User</u>
23	Institute of Physics, Scopie	Former Yugoslavian Republic of Macedonia	<u>User</u>

BEOBAL – Work Packages Structure



Conference Activities

<u>Three levels of conference activities</u> are planned:

- 3.3.1. (7) *Methodological and coordination workshop*, Bulgaria, 23-25 October 2005
- 3.3.2. *(22) Project conference "Global Changes, Environment and Sustainable Development of the Society",* UFS, Schneefernerhause, Zugspitze, Germany, 2nd half of 2nd year
- 3.3.3. (27) Conference Informational Days, "South – East Europe Environment – Collaboration, Cooperation, Integration in ERA", INRNE, BEO CoE, Bulgaria, Sofia, 1st half of 3d year

BEOBAL – Management



Executive Board

Steering Committee

Executive Board

Project Coordinator

Project Manager and sub Coordinator

Chief Accountant of INRNE

Prof. Jordan Stamenov

Dr. Bovko Vachev

Mr. Petio Petkov

WP1 Responsible

WP2 Responsible

WP3 Responsible

WP4 Responsible

WP5 Responsible

Prof. J.Stamenov Prof. J.Stamenov T.1.1 Mr. P.Ivanov T2.1.2 Dr.A.Damyanova T3.1 Prof. J.Stamenov T4.1 Dr.B.Vachev T5.1 Prof. J.Stamenov.

Dr. B.Vachev

Prof. J.Stamenov

Dr. I.Kirov

T2.3 Prof. J.Stamenov T3.2 Dr. I.Penev

Dr. A.Damyanova Prof. N.Janeva

T4.4

T4.2 Prof. J.Stamenov.

Dr. B. Vachev

T.1.2 Mr. I.Kalapov T2.4 Dr. B.Vachev T3.3, 4, 5 Prof. N.Janeva T4.3 Dr. B.Vachev T5.2 Prof. J.Stamenov. Dr. A.Damyanova, Prof. N.Janeva.

T.2.5 Dr. B.Vachev Dr. B.Vachev

T3.6 Dr.B.Vachev

