Project	Coordinator	Amount	Description		
Seventh Framework Programme (FP7) COORDINATOR - SOFIA UNIVERSITY					
BeyondEverestDevelopment of the researchpotential of the FacultyofChemistry,SofiaUniversity, in the area ofadvancedfunctionalmaterialsforsuccessful participationin world-class research at EUlevelProject Acronym:EVERESTProgrammeAcronym:FP7-REGIONSProject Reference:001858Start date:2011-10-01End date:2015-03-31	Tony SPASSOV (Professor)	Project cost: 4260380 EURO Project Funding: 3799998 EURO	This project aims to focus the research potential of the Faculty of Chemistry in Sofia University for performing world-class research in the area of Advanced Functional Materials. The Faculty is leading scientific centre in this area in Bulgaria and in the region, with recognized contributions in the design and characterization of materials with desired chemical, catalytic, biological and optical properties. The high research level in the Faculty was recently acknowledged by the National ranking of Universities - the Chemistry in Sofia University received the highest rank among all research fields in all Bulgarian universities. European evaluators, in the frame of FP7 project EVEREST, estimated highly the research achievements of the Faculty and noted that the studies in the area of Advanced Materials have the potential to be developed to the level comparable to that of the leading European centres. Based on a thorough SWOT analysis, an institutional strategic plan is defined and implemented in this proposal, aimed at boosting the Faculty excellence and creativity, and building a unique Research and Educational Centre on Advanced Functional Materials in Bulgaria. This objective will be attained by building strategic partnership with leading European research centres: TU Munich (DE), Oxford University (UK), MPI for Polymer Research (DE), University of Turin (IT), ESPCI Paris (FR); recruitment of five experienced researchers, complementing the Faculty expertise; extending the existing infrastructure with new NMR, TEM and catalytic equipment, needed for cutting-edge research in this area.		

Exploitation of ground-based Global Navigation Satellite Systems (GNSS) for Meteorology and Climate studies in Bulgaria/Southeast EuropeProgramme Acronym: FP7-PEOPLE Project Acronym: GNSS METEOROLOGY Project Reference: 268135 Start date: 2011-01-01 End date: 2014-12-31	Bojil DOBREV	Project cost: 100000 EURO Project Funding: 100000 EURO	The project content fits within the thematic priorities of FP7 (NMP) and within the national priority Materials science and Nanotechnology. The Global Navigation Satellite Systems (GNSS), a new technology that revolutionised the navigation, is becoming an indispensable part of our daily life with millions of chips installed in portable car navigation devices and mobile phones. Beside the numerous civilian and commercial applications, GNSS proved to be an accurate sensor of the most abundant greenhouse gas, namely atmospheric water vapour. Application of GNSS in Meteorology is a well established research field in Europe and GNSS data from 1,200 stations are available for model validation and assimilation in state-of-the-art models used for operational weather prediction by the National Meteorologic Services. Advances in GNSS data processing is making possible to also use the GNSS data for climatic trend analysis, an emerging new area of research that is both attractive and important. This project is a first step towards application of GNSS for Meteorology and Climatic studies in Bulgaria and Southeast Europe. The work will be conducted in close collaboration with the University of Bern, Switzerland and the Delft University of Technology, Netherlands. It is expected to foster national links that will lead to integration of the GNSS data from Bulgaria in the European data exchange within EUMETNET - EGVAP project. A user friendly water vapour database will be developed and used for (1) cross-validation of ground-based and satellite observations and derivation of systematic biases, (2) validation of numerical models used for research and weather prediction, (3) study of water vapour distribution in Bulgaria and Southeast Europe, (4) detection of long term trends in water vapour and links to heat waves, droughts and changes in the pathway of the Atlantic Cyclones, and (5) studies of accuracy of state-of-the-art climate models for Bulgaria and
Regime and Society in	Dimiter DIMOV	Project cost:	Southeast Europe. The ambition of this project rests on the long-established tradition of the
Eastern Europe (1956 - 1989). From Extended Reproduction to Social and		1026120 EURO Project Funding:	comparative politico-historical and interdisciplinary studies of the totalitarian regimes and on the theoretical efforts to elucidate the social dynamics and social change in Eastern Europe during the so called "real

Political Change		1026120 EURO	socialism". It will deal with the relations between regime and society in
C			an attempt to highlight the growing tensions between them. Without
Start date:			neglecting the important role of the geopolitical confrontation and the
2011-06-01			dissident movements, this work will search the key factors for the
End date:			disintegration of communist societies in the common people The project
2015-05-31			involves one PI who will organise and supervise the work of four senior
Programme Acronym:			researchers from the ex-socialist countries while each of them deals with
FP7-IDEAS-ERC			the local aspects of the issue. The PI will study these phenomena in
Project Acronym: RESOCEA			Bulgarian context and at the same time will provide a comparative
Programme Acronym:			narrative linking all five case studies. The comparative analyses of
FP7-IDEAS-ERC			different social practices and dynamics in similar political environments
Project Reference:			will help us understand the various courses Eastern-European countries
269608			took in overcoming their communist past and can serve as a basis for a
			follow-up research of the Transition process.
The Spectrum of Relative	Ivan SOSKOV (Professor)	Project cost:	One of the principal threads in Mathematical Logic is to give a
Definability		233465 EURO	mathematical analysis of the notion of definability. Of particular interest
			is the relative definability of real. Based on the fineness of ingredients
Start date:		Project Funding:	that come into a particular definability notion, we obtain a whole
2012-08-16		233465 EURO	spectrum of relative definability: effective translation (many-one
End date:			reducibility), computation (Turing reducibility), existential definability
2015-08-15			(enumeration reducibility), number theoretic definability (arithmetic
Project Acronym:			reducibility), and definability by the Borel operations (hyper-arithmetic
STRIDE			reducibility).
Programme Acronym:			We propose to study the spectrum of relative definability between
FP7-PEOPLE			subsets of the natural numbers. At the two endpoints, many-one and
Project Reference:			hyper-arithmetic, we do have complete accounts and those accounts are
298471			completely different. We have only partial understanding of the
			spectrum between these two extremes and many important open
			questions. The main objective of this project is to study the to understand
			where in the spectrum moving from top to bottom the difference occurs.
			A special focus in this project will be the pair of the Turing and
			Enumeration degrees which is expected to hold the key for
			understanding this central question. The proposed project is inter-
	l		sectoral in its essence, as it examines the connection between structures

Seventh Framework Programme (FP7)	
PARTNER - SOFIA UNIVERSITY	
CULTivating Understanding and Research through AdaptivityPartner from SU: Tinko TINCHEV (Professor)Project EURO ProjectA key challenge across Europe engagement w fundamental ch contributed to h development of new forms of m -personalised in models of user a- community-aw activity, interess collectionsValue 2011-02-01Organization name: THE Project Acronym: CULTURAOrganization name: THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH DUBLINorganization additional collections -content, and al events, dates an -Social network content, and al engaging with t	ationship extraction, which highlights the key individuals, nd other entities and relationships within unstructured text rk analysis of the entities and relationships within the lso of the individuals and broader community of users

			CULTURA will deliver innovative adaptive services and an interactive user environment which dynamically tailors the investigation, comprehension and enrichment of digital humanities artefacts and collections. Through the provision of such functionality, CULTURA can empower all users to investigate, comprehend and contribute to digital cultural collections. CULTURA will provide rigorous evaluation and validation of its adaptive services using high impact, contrasting, multicultural digital cultural heritage collections and diverse user communities and individuals. The CULTURA use cases, defined in collaboration with real users, will clearly illustrate how the adaptive environment will offer genuine user empowerment and unprecedented levels of engagement with these collections and communities. The CULTURA consortium has a strong emphasis on meeting real end- user needs, maximising societal impact and laying a foundation for successful commercialisation. Thus, the project has a strong scientific foundation, informed by two significant digital cultural resources and associated communities, and supported by experienced and effective project management.
European Network of		Project cost:1199043	The main objective of EuroRIs-Net+ is to provide value-added services,
National Contact Points for	Victoria DAMYANOVA	EURO	through the Network of NCPs for Research Infrastructures. These
Research Infrastructures			services will facilitate transnational cooperation of NCPs, promoting the
moving forward	Coordinator: Theodora FARMAKI	Project	effective implementation of the RI programme, highlighting
Start date:	Organization name:	Funding:949984 EURO	opportunities offered by Research Infrastructures - at the European and international level - and their impact on e-science. The Network will
2011-10-01	ETHNIKO IDRYMA		develop observatory functions for EC and national Research
End date:	EREVNON		Infrastructures policies, programmes and initiatives, supported by an
2013-09-30			efficient dialogue scheme for RI NCPs with the RI ecosystem and a
Project Acronym:			sustainable and comprehensive RI Knowledge Repository. Specifically:
EURORIS-NET+			Provision of high level services to our clients (RI scientific communities,
Programme Acronym:			industry and public stakeholders) and promotion of best RI NCP
FP7-INFRASTRUCTURES			practices will be supported through training, peering and helpdesk
Project Reference:			activities for all RI NCPs, whereas development of systematic partnering
283663			activities will increase collaboration among RI stakeholders Increased

				visibility of the RI programme to all thematic areas of FP7 will empower and support bottom-up approaches for scientific and user communities in the RI programme, facilitated through cooperation with other NCP networks, with direct benefit on focused scientific communities. Moreover, the network will implement targeted dissemination activities to improve visibility of the projects services and the RI programme, contributing to the broader use of Research Infrastructures An interactive platform for communication among the Network, EC, RI policy bodies and RI stakeholders will constructively support policy design, through a dialogue - among RI ecosystem actors - which will facilitate diffusion of RI policy bodies recommendations to the relevant public authorities and, vice-versa, will permit collection and analysis of integrated data on countries participation in Research Infrastructures, to support, wherever possible, their integration within the ERA
UpgradiNg ICT excellence	5		cost:560222	UNITE develops a set of activities to reinforce the cooperation between
by strengthening cooperation	DOBREV	EURO		research teams and improve the level of excellence of ICT research
between research Teams in	Coordinator:			across an Enlarged Europe, in the federated theme of 'Future of the
an enlarged Europe	Steiger Garção ADOLFO			Internet'.
	SANCHEZ (Professor)	Funding:4	195995 EURO	
Start date:	Organization name:			The project takes benefit from the large experience of the consortium in
2010-02-01	UNINOVA - INSTITUTO			research oriented collaborative activities, and uses the collaborative
End date:	DE			platform of I-VLab to support its activities. Secondment is the priority
2013-01-31	DESENVOLVIMENTO			for UNITE, taking most of the project budget. Moreover, UNITE will
Project Acronym:	DE NOVAS			not develop its secondment activities from scratch, as relevant
UNITE	TECNOLOGIAS			preparatory work with effective results was already done during the
Programme Acronym:				project proposal preparation.
FP7-ICT				UNITE consortium sent out in advance a call to organizations around the
Project Reference:				Enlarged Europe, and got 121 written interests to participate in the
248583				UNITE secondment activities, i.e., UNITE has at project starting time a
				committed offer/demand matrix that identifies organizations interests
				and contact responsibles within the UNITE secondment. Thus, UNITE
				proposes to start the secondment activities as soon as the project begins,
				based on the pre-elaborated secondment matrix involving now already
				more than 120 institutions across the enlarged Europe, and containing

the number secondment activities, whenever possible programme will be considered. UNITE organizes open 2 doctoral symposiums to opportunity to enlarge the community in collaboration sending and receiving institutions. A restrict management place, to control the costs in a correct timing and pre- each work package; and regulate and manage the Secon For ensuring a long-term cooperation and the pursuit of actions, UNITE creates an 'Eastern Europe' INTER- enabling to build up consortiums to widen the particip	hat provide the on with both the ent will be put in ogress control of ndment activities. of the secondment ROP-VLab Pole,
Europe in EC ICT research projects.	
Pan-European coordination Partner from SU: Georgi Project cost:2619558 The EU has made significant progress in CCS as a brid	
action on CO2 Geological GEORGIEV (Professor) EURO for combating climate change, but this must now a	
Storage Coordinator: spread evenly throughout EU Member States and Asso	
Isabelle Project In this context, CO2GeoNet, CO2NET EAST and EN	
Start date: CZERNICHOWSKI- Funding:2236837 forces, pooling their expertise and building on t	Ũ
2010-11-01LAURIOL (Dr)EUROexperience to form CGS Europe, a unique concerted Europe	uropean reference
End date:Organization name:point on CO2 storage.	
2013-10-31 DE The objective of CGS Europe is to build a credible,	independent and
Project Acronym: RECHERCHES representative pan-European scientific body of ex	pertise on CO2
CGS EUROPE GEOLOGIQUES ET geological storage that will: (i) create a durable network	rking of research
Programme Acronym:MINIEREScapacity on CO2 storage in Europe, (ii) liaise and coord	inate its activities
<u>FP7-ENERGY</u> with other stakeholders, including the ZEP Technolo	gy Platform, (iii)
Project Reference: facilitate the large-scale demonstration and industria	al deployment of
256725 CCS, (iv) support the implementation of the EU	Directive on the
geological storage of CO2 and other regulatory regimes	
This will be achieved by: (i) setting up coordination	n and integration
mechanisms between the CO2GeoNet Association a	and the 23 other
participants, thus covering most of Europe with 24 E	U Member States
and 4 Associated Countries, (ii) setting up links and	
other initiatives at national, European and international	
preparing a framework enabling the consortium to be	
EC funding after the end of the project.	L

			CGS Europe will strive to compile and structure the existing research results, policy and regulations in a centralised knowledge repository to enable stakeholders to easily find pertinent information. Knowledge development will be ensured by the sharing of good practices, the assessment of research needs and the fostering of new research projects. A major effort will be dedicated to knowledge dissemination and capacity building, aiming at giving impartial and understandable information to the different stakeholders, according to their specific needs in each country.
Increasing the impact of		Project cost:1011868	Based on indications from EC and FP7 statistics, the Central and Eastern
Central-Eastern European	Bojil DOBREV	EURO	European (CEE) countries participate at low rate in the FP7 Environment
environment research results			theme. On the other hand air pollution, chemical pollution and
through more effective	Coordinator:	Project	environmental risks should be handled with expressed interest in this
dissemination and	Dora GROO (Dr)	Funding:851584 EURO	region, due to severe environmental damages caused by decades of
exploitation	Organization name:		negligence and mishandling. CEE researchers have been conducting
	TUDOMANYOS ES		research in the mentioned fields since the middle of the 20th century,
Start date:	TECHNOLOGIAI		however, their results did not reach and influence - either the policy
2011-01-01	ALAPITVANY		makers of their own country, or their academic counterparts in EU-15.
End date:			The main objective of ENVIMPACT is to enrich the EU knowledge base
2013-06-30			with the environment-related results of the CEE researchers, thus
Project Acronym:			inducing new collaborations under FP7/FP8 which may lead to
ENVIMPACT			innovative solutions for the lasting protection of our environment.
Programme Acronym:			Using local contacts, knowledge and the insight of expert groups
FP7-ENVIRONMENT			consisting of relevant academic, industrial/ETP and policy
Project Reference:			representatives, the innovative environmental research practices and
265275			results originating from Central and Eastern Europe will be identified,
			mapped and made available for the governmental, academic and
			industrial stakeholders all over Europe. After analysing the presently
			applied dissemination and exploitation practices of CEE research results
			(by SWOT analysis), good and bad practices will be presented in an
			online catalogue. Recommendations will be prepared for the
			development a tailor-made toolkit. To close the communication gap,
			CEE researchers will be offered trainings and online mentoring services,
			based on the recommendations for communication and exploitation of

Smart light collecting system forfortheefficiency enhancement of solar cellsStart date: 2009-02-01End date: 2013-01-31Project Acronym: EPHOCELLProgramme Acronym: FP7-ENERGYProject Reference: 227127	Partner from SU: Asen PASHOV (Dr) Coordinator: Cristina BARRAGAN (Ms.) Organization name: ACONDICIONAMIENTO TARRASENSE ASSOCIACION	Project cost:3418683 EURO Project Funding:2500293 EURO	research results. Partners from 7 NMSs will ensure the availability of local research results, while representatives from 4 EU-15 countries will help to identify and match the needs in terms of communication of CEE/EU-15 researchers and will provide the expertise in reaching the relevant stakeholders. The main objective of this project is the study of the various intra and intermolecular energy transfers with the aims to modify the solar spectrum by means of an adequate molecular system. This will permit to improve the similitude between the solar radiation and the absorbance of the photovoltaic materials. This change of spectrum must be realized without significant loss of energy by means of energy up and down-conversion cascades supported by a photoluminescent compound able to emit in the maximum absorption band of the photovoltaic material. The concentration of the solar light wavelength in the absorption band of the photovoltaic material may determine an increase in the number of photons able to excite the photovoltaic compound. This will result in an improvement of the electrical energy delivered by the solar cell. The research and development to be realized during this project will be essentially centred on the studies of molecular mix able to generate adequate energy cascades and their evaluation in terms of efficiency and chemical stability. Another part of the work will consist in the development of the results and for a quick emergence of such light concentrating devices.
A high intensity neutrino	Partner from SU:	Project cost:	The recent discovery that the neutrino changes type (or flavour) as it
oscillation facility in Europe	Vassil KALKANDZHIEV	13490368 EURO	travels through space, a phenomenon referred to as neutrino oscillations,
	(Dr)		implies that neutrinos have a tiny, but non-zero mass. This implies that
Start date:		Project Funding:	the Standard Model of particle physics is incomplete. The implications
2008-09-01	Coordinator:	4000000 EURO	are far reaching: e.g. neutrino interactions may be responsible for the
End date:	Tony WELLS		removal of all the anti-matter created in the Big Bang from the early
2012-08-31			Universe and that the neutrino may have played a crucial role in the birth
Project Acronym:	Organization name:		of the Universe itself. Knowledge of the contribution of neutrinos in
EURONU	SCIENCE AND		these areas requires precise measurements of parameters governing

Programme Acronym:	TECHNOLOGY		neutrino oscillations, which will require new high intensity neutrino
FP7-INFRASTRUCTURES	FACILITIES COUNCIL		oscillation facilities in which neutrino beams are generated using new
Project Reference:			and highly challenging concepts.
212372			The construction of such a facility in Europe would reassert Europe s
212372			position as the lead region for high energy particle physics and it would
			be in line with the strategy for the future of European particle physics, as
			recommended by the CERN Scientific Policy Committee. The design
			study will review the three currently accepted methods to realize such a
			neutrino facility (the so-called neutrino Superbeams, Beta Beams and
			Neutrino Factories) and do detailed studies of potential show stoppers, it
			will define the detector options necessary to measure the neutrino
			oscillation parameters and it will perform a critical physics evaluation of
			these facilities. The design study will also perform a cost assessment,
			that coupled with the physics performance, will permit the European
			research authorities to make a timely decision on the lay-out and
			construction of the future European neutrino oscillation facility. Doing
			this work now will enable Europe to secure the lead in this field.
Inter-sectoral mobility of	Partner from SU:	Project cost:	The I-SEEMob project is a bottom-up policy coordination initiative
researchers in South-Eastern	Roumen NIKOLOV	767744 EURO	undertaken by 8 countries in the region of South-eastern Europe (SEE).
Europe	(Professor)	707744 LOKO	The proposal focuses on the specific research policy issue of enhancing
Europe	(110103501)	Project Funding:	the career development and the inter-sectoral mobility of R&D personnel
Start date:	Coordinator:	658160 EURO	in SEE. The aim of the project is to develop a set of policy
2009-01-01	George ADAMOPOULOS	050100 LEKO	recommendations targeting national governments for the removal of
End date:	debige ADAMOI OCLOS		existing legal and policy obstacles hampering the inter-sectoral mobility
2012-06-30	Organization name:		of researchers and their career development towards the realization of
Project Acronym:	GENIKI GRAMMATIA		the Lisbon Strategy goals.
I-SEEMOB	EREVNAS KAI		The main activities that are foreseen to be carried out are: a mapping
Programme Acronym:	TECHNOLOGIAS,		exercise on the current state of industrial representation on R&D sector
FP7-REGIONS	YPOURGIO PAIDIAS,		in SEE and its respective needs; a legislation gap analysis; an exploration
Project Reference:	DIA VIOU MATHISIS &		of synergies with other networks or initiatives in SEE and EU and,
234629	THRISKEVMATON		finally, the development of a set of policy guidelines for national
			governments so as to formulate research policies based on the EC
			reforming processes of Lisbon Strategy and its relevant policy tools. The
			impact of the project is expected to be the formulation of national
		l	impact of the project is expected to be the formulation of hatfold

required for an efficient development of future particle experiments, such as: test beam infrastructures (at CERN, DI LNF), specialised equipment, irradiation facilities (in several I countries), common software tools, common microelectron system integration tools and establishment of technology deve roadmaps with a wide range of industrial partners.		
Policy-oriented marine Partner from SU: Project cost: The overall scientific objectives of PERSEUS are to iden		
Environmental Research in the Southern EUropean SeasJoanna STANEVA (Dr)16947071 EUROinteracting patterns of natural and human-derived pressures Mediterranean and Black Seas, assess their impact on marine economic	al Research in	5

Start date: 2012-01-01 End date: 2015-12-31 Project Acronym: PERSEUS Programme Acronym: <u>FP7-ENVIRONMENT</u> Project Reference: 287600	Coordinator: Evangelos PAPATHANASSIOU (Dr) Organization name: HELLENIC CENTRE FOR MARINE RESEARCH	Project Funding: 12973123 EURO	and, using the objectives and principles of the Marine Strategy Framework Directive as a vehicle, to design an effective and innovative research governance framework based on sound scientific knowledge. Well-coordinated scientific research and socio-economic analysis will be applied at a wide-ranging scale, from basin to coastal. The new knowledge will advance our understanding on the selection and application of the appropriate descriptors and indicators of the MSFD. New tools will be developed in order to evaluate the current environmental status, by way of combining monitoring and modelling capabilities and existing observational systems will be upgraded and extended. Moreover, PERSEUS will develop a concept of an innovative, small research vessel, aiming to serve as a scientific survey tool, in very shallow areas, where the currently available research vessels are inadequate. In view of reaching Good Environmental Status (GES), a scenario-based framework of adaptive policies and management schemes will be developed. Scenarios of a suitable time frame and spatial scope will be used to explore interactions between projected anthropogenic and natural pressures. A feasible and realistic adaptation policy framework will be defined and ranked in relation to vulnerable marine sectors/groups/regions in order to design management schemes for marine governance. Finally, the project will promote the principles and objectives outlined in the MSFD across the SES. Leading research Institutes and SMEs from EU Member States, Associated States, Associated Candidate countries, non-EU Mediterranean and Black Sea countries, will join forces in a coordinated manner, in order to address common environmental pressures, and ultimately, take action in the challenge of achieving GES.
Towards COast to COast		Project cost:	Environmental policies focus on protecting habitats valuable for their
NETworks of marine	Joanna STANEVA (Dr)	11360729 EURO	biodiversity, as well as producing energy in cleaner ways. The
protected areas (from the			establishment of Marine Protected Area (MPA) networks and installing
shore to the high and deep		Project Funding:	Offshore Wind Farms (OWF) are important ways to achieve these goals.
sea), coupled with sea-based	Annamaria TONCINI (Dr)	9000000 EURO	The protection and management of marine biodiversity has focused on
wind energy potential.			placing MPAs in areas important for biodiversity. This has proved

	Organization name:		successful within the MPAs, but had little impact beyond their
Start date:	CONSIGLIO		boundaries. In the highly populated Mediterranean and the Black Seas,
2012-02-01	NAZIONALE DELLE		bordered by many range states, the declaration of extensive MPAs is
End date:	RICERCHE		unlikely at present, so limiting the bearing of protection. The
2016-01-31	MCLICEIL		establishment of MPAs networks can cope with this obstacle but, to be
Project Acronym:			effective, such networks must be based on solid scientific knowledge and
COCONET			properly managed (not merely paper parks). OWF, meanwhile, must be
			placed where the winds are suitable for producing power, but they
Programme Acronym: FP7-ENVIRONMENT			
			should not have any significant impact on biodiversity and ecosystem
Project Reference:			functioning, or on human activities. The project will have two main
287844			themes:
			- identify prospective networks of existing or potential MPAs in the
			Mediterranean and the Black Seas, shifting from a local perspective
			(centred on single MPAs) to the regional level (network of MPAs) and
			finally the basin scale (network of networks). The identification of the
			physical and biological connections among MPAs will elucidate the
			patterns and processes of biodiversity distribution. Measures to improve
			protection schemes will be suggested, based on maintaining effective
			exchanges (biological and hydrological) between protected areas. The
			national coastal focus of existing MPAs will be widened to both off
			shore and deep sea habitats, incorporating them into the networks
			through examination of current legislation, to find legal solutions to set
			up transboundary MPAs.
			- explore where OWF might be established, producing an enriched wind
			atlas both for the Mediterranean and the Black Seas. OWF locations will
			avoid too sensitive habitats but the possibility for them to act as
			stepping-stones through MPAs, without interfering much with human
			activities, will be evaluated.
			Socioeconomic studies employing ecosystem services valuation methods
			to develop sustainable approaches for both MPA and OWF development
			will also be carried out, to complement the ecological and technological
			parts of the project, so as to provide guidelines to design, manage and
			monitor networks of MPA
Development of high	Partner from SU:	Project cost:	Buildings account for 40% of total energy consumption in the European

EFFiciency Stirling HEAT	Stoyan GUTZOV (Dr)	1561327 EURO	Union and the sector is expanding. Therefore, reduction of its energy
pump	Coordinatory	Ducient Frandin as	consumption (by 20% by 2020) and the use of energy from renewable
Start data.	Coordinator:	Project Funding: 868100 EURO	sources constitute important measures needed to reduce EU energy
Start date: 2011-10-01	Danguole DRAGUNIENE	808100 EURO	dependency and greenhouse gas emissions. A significant number of
End date:	Organization name: UAB PRECIZIKA		buildings must become energy positive integrating renewable energy
2013-09-30	METROLOGY		sources. One of the main energy saving measure is the improvement of
Project Acronym:	METROLOGI		energy conversion in buildings by substitution of the less efficient technologies (EE) with more efficient ones: the most prominent growth
EFFIHEAT			of market share occurs for solar heating and heat pumps.
Programme Acronym:			However, high initial costs and long return on investment time caused by
FP7-SME			insufficient efficiency of heat pumps are limiting the penetration of
Project Reference:			market for this EE technology. The efficiency of heat pumps is mainly
286814			determined by the background technology thermodynamic cycle
			realisation employed.
			The proposed project focuses on development of ground source heat
			pump technology (GHP) enabling up to 75% energy savings and reduced
			costs for heating energy consumption. To achieve this goal EFFiHEAT
			will develop, prototype, test and validate cost-efficient Stirling cycle
			based GHP with 25% higher COP comparing to technologies in
			operation. This and 30% of initial cost savings achieved due to
			innovative Stirling engine design concept will increases consortium
			competitiveness in high growth GHP market. Application of the
			EFFiHEAT GHP has potential savings of over 0.03 billion EUR
			annually. Such savings will contribute to EU targets on reduction of
			energy consumption and CO2 emissions.
			The consortium combines know how on electro-mechanical design,
			process control and material research. Contract research will be
			performed by a Lithuanian, Spanish and Bulgarian research institutions
			which provide a unique integration of know how on high efficiency
			Stirling engine based GHP development
Working Environment with		Project cost:	weSPOT aims at propagating scientific inquiry as the approach for
Social and Personal Open	Krassen STEFANOV (Dr)	3738930 EURO	science learning and teaching in combination with today's curricula and
Tools for inquiry based			teaching practices. It lowers the threshold for linking everyday life with
learning.	Coordinator:	Project Funding:	science teaching in schools by technology. weSPOT supports the

	Jos VAN DEN BROEK	2899996 EURO	meaningful contextualization of scientific concepts by relating them to
Start date:	Organization name:		personal curiosity, experiences, and reasoning. weSPOT addresses
2012-10-01	OPEN UNIVERSITEIT		several challenges in the area of science learning and technology support
End date:	NEDERLAND		for building personal conceptual knowledge. The project focuses on
2015-09-30			inquiry-based learning with a theoretically sound and technology
Project Acronym:			supported personal inquiry approach. In inquiry based-learning learners
WESPOT			take the role of an explorer and scientist and are motivated by their
Programme Acronym:			personal curiosity, guided by self-reflection, and develop knowledge
FP7-ICT			personal and collaborative sense-making and reasoning. weSPOT will
Project Reference:			work on a meta-inquiry level in that it will (a) define a reference model
318499			for inquiry-based learning skills, (b) create a diagnostic instrument for
			measuring inquiry skills, and (c) implement a working environment that
			allows the easy linking of inquiry activities with school curricula and
			legacy systems. The foreseen weSPOT Toolkit gives smart support for
			personal scientific inquiry to address a lack of scientific inquiry skills in
			an age group of 12-25. Furthermore, weSPOT will unleash support of
			triggering and leveraging curiosity that is missing in today's learning
			technology.
			weSPOT will develop:
			(1) An open source service framework for inquiry workflows;
			(2) Tools for mobile data collection and personal experience sampling.
			Additionally, it will develop:
			(3) learning analytics tools for collaborative and personal reflection;
			(4) a badge system for linking formal and informal learning activities via
			social media.
			These products will be customized and evaluated in at least 8 primary
			test-beds in a European wide approach in 8 European member states.