



# Partner Search Stop Press

February 2008



Due to continuing high levels of activity in the run up to the ENV-2008-1 and KBBE-2008-2B call deadlines, we have published a second STOP PRESS eBulletin, to provide up to date partner search information. Please use contact details provided to contact project coordinators and/or potential project partners.

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## FP7 PROJECT/PARTNER PROFILES

### Bio Partner Searches

**Project title: Biocides and Antimicrobial Resistance in Food-borne and Nosocomial Pathogens**

**Project abstract:** The BAR project will study the resistance against the biocide molecules family. The project will aim at identification of biocide resistant Salmonella with a large screening and molecular characterization from different sources (clinical, food and environmental samples). The research shall also determine whether the increased use of this molecules family is associated with an increase of antibiotic resistance in food microorganisms, studying DNA mobile elements (as for example integrons) that can capture and integrate antimicrobial resistance genes, and their localisation (transposons, plasmids, but also chromosome).

**Experience Required:**

- Bacteria and biocides interactions
- Antimicrobial resistance
- Biofilms preferably in food and nosocomial sector

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**Project title: Interactive Informative System to asses risks from agriculture impact on environment and biodiversity**

**Project abstract:** The Mediterranean has a rich patrimony of biodiversity. Within the EC, a tool to census autochthonous genetic resources and to assess their sustainable use and the impact of agricultural practices is missed. Research work to provide information for monitoring the loss of biodiversity is needed. The acquired scientific knowledge can provide tools for monitoring biodiversity within ecosystems type (ET). The idea is: - to define ET conserving biodiversity; - to identify ET within the Mediterranean region; - to define bio-indicators (BI) for monitoring ET biodiversity; - to make use of BI for developing monitoring actions; - to define an international protocol (IP) to guarantee univocal use of BI, to be adopted by EC and ICPC countries; - to collect information into a database (DB); - to create a software for an interactive informative system (IIS) for assessing the conditions of pressure on biodiversity.

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**Project title: Biowastes as source of bioactive or industrial added value products**

**Project abstract:** Biologically active compounds BAC's from plants in different vegetative stages as alternative sources for the synthesis of bioactive/industrial added value products are most interesting with promising benefits. The group has expertise in: isolation/structure elucidation of BAC's from different plant sources; quali-quantitative analysis of BAC content of plants collected in different vegetative stages/harvested after influences of external factors to obtain material having elevated levels of BAC's with health benefits.; protocol development ensuring most effective extraction/purification of BAC's from agrofood industry wastes; analysis of antioxidants/antimicrobials from plant material, pure and derivatives of BAC's; evaluation of cytotoxicity of new substances for industrial use; membrane separation and developed a new configuration i.e. Stagnant Sandwich Liquid Membrane, that could allow simultaneous separation, concentration and purification of bioproducts.

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**KBBE-2008-1-2-06 - Forecasting forest diversity under the influence of climatic changes and the consequences for stability and productivity of forest ecosystems**

**Project title:** The influence of inbreeding on the display of some quantitative features in a downy birch and silver birch

**Project abstract:** Inbreeding, or closely related crossing, is always connected with the decrease of phenotypical values of quantitative features in certain groups of plants. Inbreeding in self-pollinating plants (wheat, barley, peas, beans, peppers, citrus plants, cotton, etc.) is a normal phenomenon. In cross-pollinating plants and animals inbreeding can result in the action of harmful recessive genes, which in a homozygous state cause partial (sublethal and subvital genes) or full (lethal genes) destruction of organisms. Harmful influence of inbreeding is often revealed, for example, in self-pollination of corn, potatoes or cabbage (the decrease in intensity of growth, fertility; the appearance of anomaly and deformities).

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**BBE - 2008- 1-2-01 - Development of appropriate indicators of the relationship between organic/low input farming and biodiversity**

**BBE - 2008- 1-2-08 - Novel approaches for reducing nitrogen losses**

Expertise offered:

- Animal Production
- Nutrition, digestive efficiency
- Minerals

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KBBE-2008-1-2-01: Development of appropriate indicators of the relationship between organic/low-input farming and biodiversity

KBBE-2008-1-2-03: Assessment and mitigation of the impact of aquaculture on wild

KBBE-2008-1-2-07: Forest energy - Short rotation forestry as a sustainable and eco-efficient land use management system for fossil fuels substitution within CDM-projects

KBBE-2008-1-2-08: Novel approaches for reducing nitrogen losses

KBBE-2008-1-4-04: Common Agricultural Policy - the spatial dimension in EU rural development programmes

Organisation: The Institute for Land Reclamation and Grassland Farming carries out research and application works in the field of environmental sciences and agronomy, in particular: preservation of natural values of rural environment, water management issues in rural areas, irrigation and agromelioration of agricultural lands, flood and droughts problems, sanitary issues in rural areas, management of pastures and meadows, multifunctional and sustainable development of rural areas (at the level of village, commune, region, river basin), preservation and proper utilization of the natural resources and values of regions (bio- and landscape diversity, protection of water, soils and air), development of technical and natural infrastructure for water supply and sewage management in rural areas.

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KBBE-2008-1-2-01: Development of appropriate indicators of the relationship between organic/low-input farming and biodiversity

KBBE-2008-1-4-08: Characterisation and valorisation of Andean soil microbial diversity to support sustainable crop production and agro-ecosystems - SICA (Latin America-Andean region)

**Expertise offered:**

- Molecular biology approaches to understand rhizobia and rhizobia-legume interaction
- Biodiversity and phylogeny of rhizobia (phylogenetic analysis based on 16S rDNA and other housekeeping genes)
- Symbiotic effectiveness (SE) (Plant growth chamber assays, analysis of rhizobia symbiotic genes)
- Stress tolerance of rhizobia (Evaluation of bacterial growth and SE under temperature, pH and salt extreme conditions)
- Molecular basis of stress tolerance (protein profiles, gene expression analysis by Northern, RAP-PCR, etc)

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**KBBE-2008-1-3-01: Improving production animal health and food safety through investigating the gut function of farm animals, the gastro-intestinal microflora and their interactions**

Project title: Development of recommendation on ecological safety agricultural technology and management quality of the agricultural product on base of the progressive methods to agricultural biotechnology

Project abstract: The elements of the functional feeding are firmly present in life of the person. The necessary development alternative modern biotechnological ways of increasing to productivity animal and birds. This will provide the arrivals on modern market of the ecological clean product. Resistance to medicinal preparation beside agricultural animal is presently discovered beside bacterial intestinal flora person. So follows to spare emphases for biotechnological aspect of medical microbial ecology. There are developed biotechnologies of increasing to productivity agricultural animal and birds with using modern ecological preparation: probiotic, symbiotic and prebiotic on base of the medicinal plants. There are studied new characteristic, created in laboratory, the probiotic directed actions, selected from organism of bird. Technological acceptance will is perfected for its industrial production. Created biotechnological preparation is used as alternative antibiotic.

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**KBBE-2008-1-4-10: Agriculture and sustainable development in a rural development context**

Organisation: The Department was established 55 years ago as the special unite in the structure of economic university. During that time the members of the team played fundamental role in public life as the members of polish Government, presidents of many institutions, well known experts at the field of food economy, marketing in agrobusiness, food security, food safety, EU-accession, rural development and regional policy as well. This team consists of professors, who have experiences as the members of Government and National institutions since Poland start preparing to EU-accession. They were responsible for agriculture, food industry, CAP-implementation and the whole institutional system concerning common agricultural market organization and rural development policy. Having close cooperation with proper laboratories and scientific institutes, in the years 1994-2004, the group was also involved in many EU-Projects concerning education and training of trainers on national as well as on regional level.

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**KBBE-2008-2-1-01 Measures aimed at promoting healthy eating habits**

Expertise offered:

- Nutrition
- Healthy food
- Elderly people
- Milk consume
- Calcium
- Osteoporosis

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**KBBE-2008-2-2-03 Obesity prevention in the Mediterranean area - SICA (Mediterranean Partner Countries)**

**Expertise offered:**

- Nutrition
- Healthy food
- Mediterranean Diet
- School
- Childhood
- Obesity prevention

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**KBBE-2008-2-2-01 Optimal human cell function and nutrition**

**KBBE- 2008-2-3-03 Training and career development for future food scientists**

**KBBE- 2008-2-5-01 Influence of food contaminants on early programming leading to obesity**

**KBBE- 2008-2-5-03 Dissemination of research projects in the food sector**

**Expertise offered:**

- Food safety and nutrition
- Human health

- Infant and young children foods
- Food contaminants toxicology
- Mycotoxins
- Heavy metals
- OGM toxicology
- Risk assessment
- Chemical and biological methods for toxin determination
- Bioavailability of nutrients and contaminants
- Students training.

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**KBBE-2008-3-3-01 Upgrading of wood, wood-related residues and humic-origin substances to value-added chemicals and materials: from biological understanding to innovative applications - SICA (Russia)**

Expertise offered:

- Raw material harvesting / collecting; conditioning / transportation
- Soil incorporation.

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**KBBE-2008-1-3-01: Improving production animal health and food safety through investigating the gut function of farm animals, the gastro-intestinal microflora and their interactions**

**KBBE-2008-1-2-02: New and converging technologies for Precision Livestock Farming in European animal production systems**

**KBBE-2008-2-4-02: Biocides and antibiotic resistance**

Project Title: Design of the programme of animal health improvement, food products safety for people and ecologically safe technologies of feeding and management of animals on the basis of digestive and intestinal tracts microflora activity increase and its influence on digestion

Project abstract: Animal production quality is strongly connected with feeding and management technology.

Feeding stuffs, received in these or those conditions, manner of their production and processing is an important factor, providing the health of animals. In this connection the development of alternative programmes, providing biotechnological way of productivity and animal health improvement, ecologically

clean and safe products of animal origin is necessary

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**KBBE-2008-3-2-02: Industrial bioprocesses for fine and speciality chemicals**

Expertise offered:

- Develops enzymes and enzyme based processes for industrial applications.

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**KBBE-2008-1-2-05: Improved agro-forestry systems for sustainable farming - SICA**

**KBBE-2008-3-1-05: Development of fermentor-like applications and other plant-based containment systems for molecular farming**

Project title: Development and introduction new on base of aboriginal rhizobacterias the bacterial preparation for growing soybean in condition Belgorod area

Project abstract: The object of the studies serves the aboriginal populations Bradyrhizobium japonicum. We have selected Bradyrhizobium japonicum from the cortex of the local sort of soybean. The plant of the master, with cortex, which selected the bacterias of this sort to soybean: early-ripening Lancetnaya and Belgorodskaya-48. Conducted the experiences in condition of the hothouse and permanent establishment of the academy. Our problem: define the parameters main factor ambiances optimum for realization potential activity for use the nitrogen, define efficiency specificity of the symbiosis, study the influence rhizobacterias on productivity, quality grain and productivity of the miscellaneous sort of soybean and create the new bacterial preparation.

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**KBBE-2008-1-2-07: Forest energy - Short rotation forestry as a sustainable and eco-efficient land use management system for fossil fuels substitution within CDM-projects**

**KBBE-2008-1-2-08: Novel approaches for reusing nitrogen losses**

**KBBE-2008-3-1-01: Plant natural products**

**KBBE-2008-3-3-01: Upgrading of wood, wood-related residues and humic-origin substances to value-**

added chemicals and materials: from biological understanding to innovative applications - SICA (Russia)

Project title: Recycling and processing all kinds of wood wastes, manufactures of plywood, fibreboards, wood-shaving plates; phenolic-carbamide-formaldehyde pitches, their components and wastes; wastes of the chemical and biochemical industry, animal industries and poultry farming and other kinds of wastes

Project abstract: Recycling and processing approximately 30 % of a lump of wastes; their use in an agriculture as inexhaustible multipurpose effective fertilizer UOMDD. Their using in an agriculture as multipurpose, inexhaustible, adaptive, resource-saving, effective, certificated fertilizer long-acting organic-mineral UOMDD. New technologies in agriculture and plant growing. Sanitary-ecological actions. Restoration of the degraded grounds and reproduction of a fertile ground layer. New resource-saving, adaptive technologies in agriculture and plant growing.

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## Environmental Partner Searches

Project title: Ecologically dangerous sources of pollution and problem areas of Upper Don river basin in Large Black Sea Region

Project Objectives:

- A estimation of the natural preconditions (the dynamics of climate, annual drain, processes of water erosion) and man-caused factors (agricultural development, urbanization, industrial - transport influence - polluted drains, river navigation, mining industry), , forming waters quality of the river Don and the river Don's basin
- Definition of structure, volumes and periodicity of receipt of the polluting agents from the land in reservoirs of Upper Don river basin
- The analysis of natural and man-caused risks, connected with global hydrometeorological changes, modern urbanization and intensive economic development (mining area of Kursk magnetic anomaly, Lipetsk mining and smelting area, agrarian-industrial Central Black Soil Region etc.)
- An estimation and map-making of risk zones for health of the Upper Don river basin population, caused by the water factor and comfort of residing in conditions of intensive man-caused pollutions of habitat.

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Project title: Global climatic changes impact on plant cover of industrially developed regions of Europe

Project abstract: According to several sceneries of global climatic warming, an increasing probability of changes in native flora and vegetation of the Westeurasian Biogeographic Regions has to be expected, especially in industrial regions. Species (alpha-) and vegetation (beta-) diversity will be represented, concerning different biogeographic regions and habitats using GIS-Software and statistic tools as CANOCO. For the habitats, also space photos of industrial regions and the hemeroby stage will be used. An



international concept on valuation of distributional efficiency and gravity of potential ecological impact will be developed. These modern climatic changes are accompanied by spreading of aggressive plant species and creation of new evolutionary isolated dangerous invasive races and forms in Europe.

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**Project title: The late Pleistocene and Holocene soils in the Parana - Plata river basin as objects of paleo-ecological and paleo-climatic reconstructions**

**Project abstract:** In a number of methods for study of the geographic ambience evolution the method of soil chronosequences has an important significance. The method is consisted of combined study of unequal-age paleo-soils and their modern natural analogs. Comparison of properties of the modern (full - holocene) soils with ancient soils makes it possible to establish of bioclimatic situations and other factors of natural environment evolution. The greater quantity of unequal-age soils is studied in the concrete territory, the more complete information about changes in time of climate, soils, vegetation and other components of natural landscapes becomes.

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**Project title: Analysis of the influence of global climate changes on erosion and deflation in the agricultural areas of Europe and development of projects of soil fertility reproduction**

**Project abstract:** Present change of climate in agricultural area of Europe is related to the change (increase or decline) of total amount of precipitations, their kind and season, and the increase of average annual temperature mostly during winter months. This process consequently resulted in the increase of the proportion of rainfall erosion in the total erosive destruction of soils (especially on the territory of the Ukraine, Moldova and other countries), and nearly complete failure of erosion during melting of snow.

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**Project title: Automated Geographic Information System of the ecological monitoring and decision-making**

**Project abstract:** Elaboration of the automated system of the ecological monitoring and decision-making which consists of several hundreds of smart ecological characteristic inspection sensors. Such sensors transmit digitized and compressed information to the communication points that are situated close to them using radio channel. From there this information is transmitted to the regional monitoring centre by the standard means of the Internet. As an option of this system or an independent project we suggest to

elaborate the monitoring system of the coast demolition of the Sea of Azov and the Black sea on the basis of satellite Geographic Information System data. In the centre of the monitoring there is an analysis of the measurement data with an automatic representation on the electronic field. The cumulative data allows the Automated Geographic Information System of the ecological monitoring and decision-making to forecast the events in case of emergency and to evaluate the tendency of the ecological environment changing at the real-time.

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**Project title: The Russian steppe - the unique European ecosystems of Eurasia**

**Project objectives:**

- Definition of stages of partition of the virgin Russian steppes "Wild Field" in XIV-XIIV cc. and formation disjunctive area
- Srednerusskaya eminence as ecotone steppe landscape of the West Europe, Crimean-Caucasian and Mild Asia ecosystems
- Cadastre development of the types of the Russian steppes with building of the ecological framework saving steppe ecosystems
- Organization to preservations ecosystems as the most important principle of the conservation of the variety of the Russian steppes landscape
- Development denaturalization Russian steppes
- Preparation cartographic material types of the Russian steppes with motivation of the new look at determination of the borders of the steppe type ecosystems on the base of hydrothermoedafential fitogradient landscape

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**Project title: Computer technologies for the increasing of coniferous forests**

**Project abstract:** Mathematical modeling for the age dynamics of diameters, heights, sums of area, cut, stores, accelerations on the 1 hectare of stemwood (pine trees, fir trees) is conducted. Reaction models of such taxation indexes on the periodic thinning algorithm technologies programmes for the increasing of coniferous forests productivity is developing. Results create the system of computer management by means of increasing of coniferous forests productivity with definition and realization of optimal periodicity property, intensification of age thinning of fir woods with minimization of ecologic damage to trees.

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**Project title: Nature management conflicts of the regions where mining complexes in the Black Sea region and criteria of their sustainable development (in comparison of Belgorod region with similar European regions)**

**Project abstract:** Intensive agricultural use of the black soils of Belgorod area, wide development of mining, high level of economic developing of the area create the basic types of the conflict nature management firstly as regards the choice between the requirements of agricultural and industrial use of the lands, secondly, as regards the task of the preservation of environmental stability. Artificially underestimated profitability of the agricultural production, absence of economic estimations of the natural component does not allow them to solve these problems applying only market methods.

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**Project title: Elaboration of profitable environment protecting technologies for treatment of air and waste waters from highly toxic organic substances at woodworking enterprises**

**Project abstract:** The main components of gaseous and liquid wastes from woodworking industry are phenol, formaldehyde, styrene, acetic and formic acids and several other substances highly toxic for environment. In order to elaborate profitable, resource-saving and environment protecting technology it is suggested to apply new economically sound high effective adsorbents on the bases of natural materials (clay minerals), as well as synthetic sorbents obtained from wastes of woodworking industry.

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**Project title: Optimization of technology of the petro-polluted objects microbiological cleaning under conditions of the Black Sea coast**

**Project abstract:** The Black sea is the unique geographical object demanding steadfast attention of ecologists because of high ecological vulnerability. The big anthropogenesis loading alongside with growing export of hydrocarbonic raw material, and also drill works on the Black Sea shelf makes dependent recreational function of the Black Sea coast from technologies of liquidation of pollution by mineral oil. Because of specificity of distribution of living organisms in its water area, the significant role in preservation of a biodiversity belongs to coastal zones.

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**Project title: The high-frequency ozonizer with using supersonic Laval's nozzle**

**Project abstract:** At present time there are different ways and constructions of plants for ozone getting,

including the most perspective ozone generators which use the electromagnetic field of high frequency (HF (high-frequency)-ozonizer). But the known ways and plants, including HF-ozonizers, cannot always provide the sufficient output of ozone in case when it is necessary to get a great deal of it. The aim of the project is to accomplish a task of increasing the ozone output (kg and dozens of kg), to simplify the construction of the ozonizer and to reduce the price of it, to miniaturize its size and to reduce power inputs, this will make it possible to bring down the price of ozone and to diminish the production space.

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ENV.2008.1.2.1.2 - Comparison of health risks in populations in the Arctic and selected areas in Europe due to the spreading of contaminants resulting from climate change

ENV.2008.1.2.1.4 - New, improved and validated biomarkers to investigate long term health impacts of exposure to environmental pollutants

**Project objectives:**

- Ecological estimation of air pool quality of advanced industrial cities in Central Black Soil Region and European countries in conditions of "global warming"
- The analysis of potential of pollution in urban agglomeration
- Estimation of parameters of microclimate in industrial cities and formation of "islands of warmth"
- The analysis of meteopathic reactions and sickness rate of the population connected to the factors of a microclimate and pollution of air of megalopolises
- Revealing of zones of ecological risk for the population of industrial cities owing to air pollution
- Geo-information maintenance of monitoring of population health in industrial megalopolises

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ENV.2008.1.2.1.4. New, improved and validated biomarkers to investigate long-term health impacts of exposure to environmental pollutants

ENV.2008.2.2.1.2. Deep-Sea ecosystems

**Expertise Offered:**

- Molecular Biology
- Gene Manipulation
- Protein Expression

**Contact:**

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#### ENV.2008.1.2.1.4 - New, improved and validated biomarkers to investigate long term health impacts of exposure to environmental pollutants

##### Project objectives:

- Estimation of the role of factors of environmental comfort, i.e. risk factors influencing the health of the population of the Central Black Soil Region
- Detection of geo-pathogenic zones increasingly hazardous for the health of the population
- Estimation of influence of ecologically hazardous objects on environment and health of the population
- Ecological zoning of the Central Black Soil Region territory and industrial agglomerations of large cities in accordance with the levels of environmental comfort under the conditions of intensive man-caused influence on the environment
- Organization of monitoring of the environment and the health of the population in zones of ecological hazard
- Development of regional ecological policies, directed at sustainable ecological and economic progress of the region and recovery of the environment of the least comfortable areas

##### Contact:

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#### ENV-2008-2.1.2.1. Groundwater systems

#### ENV-2008-2.1.2.3. Assessing the ecological status of water bodies

#### ENV-2008-3.1.1.1. Rehabilitation technologies for degraded water systems presenting quantity and quality problems

#### ENV -2008-3.1.1.2. Nanotechnologies for water treatment

#### ENV-2008-3.1.3.1. Waste prevention: Industrial networking and zero-waste entrepreneurship

#### ENV-2008-3.1.3.2. Technologies for high added value production from waste

##### Expertise offered:

- Design, construction and operation of water treatment plant and biosolids.

##### Contact:

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#### ENV.2008.3.1.4.1. Substitution options for Brominated Flame Retardants (BFRs): a prototypical case

## for source control of Priority Pollutants in a Life Cycle Thinking perspective

Project abstract: There are plenty of retardants which are regularly used for civil and military technical equipment, creation of foam, textiles, electronics and other fire-resistant products. In the Saratov area there are manufactures that use brominated flame retardants (BFRs). The most dangerous are haloid containing substances. These enterprises are a good base for monitoring sources of especially dangerous polluting substances, for estimation of consequences of such pollution for ground and water (in particular for the grounds of agricultural purpose) and working on the technologies that can make safer alternatives.

### Contact:

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## ENV.2008.3.2.1.1. Development and application of methodologies, technologies, models and tools for damage assessment, monitoring and adaptation to climate change impacts (excluding extreme events)

Organisation: The Department of Earth Sciences - University of Naples Federico II (DSTUNINA) carries out researches in all fields of earth science. Geomorphology, micropaleontology, palynology volcanology, geophysics, petrology and quaternary geology are among the most forefront disciplines applied in many Italian and European areas.

Concerning coastal environments (emerged and submerged) the DST studies the genesis and evolution of coastal plains as well as the impact of climate changes and the interaction with human activities.

Micropaleontology embraces the systematic study of Ostracods, Foraminifers and calcareous Nannofossils with the aim of giving stratigraphic constraints as well as support in environmental and climatic reconstructions. Volcanology and petrology are mainly focused on the study of active volcanoes from the Neapolitan area (Sum-Vesuvius and Phlegrean Fields) and on their impact on environmental changes.

The facilities available at the DST are, among others, a computerised mapping laboratory, diffraction, electron microscopy, micro and macro paleontology, palynology, RX fluorescence spectrometry, geochemistry with AAS.

### Expertise Offered:

- World Heritage Sites,
- climate Change,
- sedimentology,
- stratigraphy,
- palynology and paleontology,
- coastal morphology,
- Impacts,
- Conservation

### Contact:

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ENV.1.1.3.1. Impacts of climate variability, extreme events and increasing atmospheric greenhouse gas concentrations on terrestrial carbon storage, exchange flows and soil carbon dynamics

ENV.2008.1.1.5.1 Addressing deforestation in tropical areas: Greenhouse gas emissions, socio economic drivers and impacts, and policy options for emissions reduction

ENV.2008.1.1.6.1 Impacts of Himalayan glaciers retreat and monsoon pattern change on the water resources in Northern India, and adaptation strategies

ENV.2008.2.1.2.3. Assessing the ecological status of water bodies

ENV.2008.2.1.3.1 Assessment of methods to combat desertification

ENV.2008.2.2.1.1 Monitoring and evaluation of Spatially Managed Areas (SMA)

ENV.2008.3.3.3.1. Harmonised approaches towards the development of international technology verification systems

ENV.2008.4.1.1.1 European Environment Earth Observation system supporting INSPIRE and compatible with the GEOSS (Global Earth Observation System of Systems)

Expertise offered:

- Watering planning support
- Fire detection and monitoring
- Land use land cover maps

Contact:

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FP7.ENV.2008-1.2.1.5 - Quantification of changing surface UV radiation levels and its impact on human health

Project

The focus of the proposed consortium will be on personal UVR dosimetry and measured biological outcome in different human populations.

Expertise needed

- We seek a partner with expertise in radiative transfer models, climate models and prediction of future UVR levels.

Contact:

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