

Work Package Sheet

WP 2014 WPK 899 SRA

Work Package identification

Project	-		
WPK Id	899		
Acronym	SRA		
Title	Soil Resource Assessments		
Description	Healthy soils underpin global economies, food security, water and nutrient cycles. This project analyses data from the EU and beyond to assess soil functions (e.g. fertility, organic carbon cycles) and pressures (e.g. erosion, contamination), develops soil resource indicators and maintains the European Soil Data Centre. The project supports the Commission's commitment to the Rio +20 Action Plan, the Global Soil Partnership and the milestones on land and soil in the Resource Efficiency Roadmap.		
Unit	JRC.H.5		
Wp contact	MONTANARELLA Luca		
Duration	Start date	01/01/2014	End date 31/12/2016

Policy and Work Package recipients

Policy Area	3.1. Environment
Key orientation	3.1.1.c. Further development of information systems on soils. Analysis of soil resources and degradation at a global scale. Implementation of the EU Soil Thematic Strategy
Main policy DG	ENV Environment
Funding DG	
DGs' contact	
Additional Policy DG	<ul style="list-style-type: none"> • GROW Internal Market, Industry, Entrepreneurship and SMEs • AGRI Agriculture and Rural Development • SANTE Health and Food Safety • ESTAT Eurostat • DEVCO International Cooperation and Development • CLIMA Climate Action

External Beneficiaries

Organisation Name	Country	Type	Contact
United Nations Convention to Combat Desertification (UNCCD)	DE	International Organisation	Sergio Zelaya
European Environment Agency	DK	International Organisation	Geertrui Louwagie
European Food Safety Authority	IT	International Organisation	Mark Egsmose
Organisation for Economic Co-operation and Development (OECD)	FR	International Organisation	
Soil Science Department (Agronomic Veterinary Institute Hassan II)	MA	University	Mohamed Badraoui
Soil Science and Conservation Research Institute	SK	Research Institute	Beata Houskova
Soil Survey and Land Research Centre	GB	Research Institute	Thomas Mayer
THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)	IT	International Organisation	Ronald Vargas
UN Convention on Biological Diversity	CA	International Organisation	Braulio Diaz
V.V. Dokuchaev Soil Science Institute	RU	Research Institute	A. Ivanov
World Data Centre for Soils	NL	Government	Peter de Ruiter

Horizon 2020 Specific Objective Non-nuclear direct actions of the JRC - Specific objective 14 : To provide customer-driven scientific and technical support to Union policies, while flexibly responding to new policy demands

Activity type

- 2 - Information systems & services (30%)
- 5 - Monitoring, verification and surveillance (30%)
- 7 - Scientific, technical & policy consultancy (40%)

Resource, Funding and Collaborations

Fundings

Type	Contract n.	Amount
Institutional - Regular Support		€0.00

Human resources

Position	Unit	Effort in PM	Work Package Year	Budget	Role
AD	JRC.H.5	72	2014	Institutional	owner
AST	JRC.H.5	20	2014	Institutional	owner
GH	JRC.H.5	65	2014	Institutional	owner
CA	JRC.H.5	17	2014	Institutional: enlargement and integration	owner
DNE	JRC.H.5	4	2014	Institutional	owner
AD	JRC.H.5	51	2015	Institutional	owner
AST	JRC.H.5	10	2015	Institutional	owner
GH	JRC.H.5	70	2015	Institutional	owner
AD	JRC.H.5	51	2016	Institutional	owner
AST	JRC.H.5	10	2016	Institutional	owner
GH	JRC.H.5	35	2016	Institutional	owner

Linked Work Packages					
ID	Acronym	Title	Unit	Link Type	Note
441	RegInnoPar	Regional Innovation Partnerships	JRC.DDG.03	Support to the Danube Strategy Cluster	
496	GTCAP	Guidance and Tools for CAP implementation	JRC.H.4	Support to implementation of the EU Biodiversity Strategy Hub	
673	S3P - DANUBE	S3P Smart specialisation for the Danube region	JRC.J.2	Support to the Danube Strategy Cluster	
677	S3P -DANUBE- INCO.NET	S3P DANUBE-INCO.NET on smart specialisation strategies	JRC.J.2	Support to the Danube Strategy Cluster	
706	RE-GIS	Exploiting Renewable Energy potential in a changing world.	JRC.F.7	Support to the Danube Strategy Cluster	
742	PAH2DAN	Poly-Aromatic-Hydrocarbons Health impacts assessment for Danube Air Nexus	JRC.I.1	Support to the Danube Strategy Cluster	
799	Stairway2Excellence	Cohesion Policy & synergies with R&D funds: the "Stairway to Excellence"	JRC.J.2	Support to the Danube Strategy Cluster	
894	DRDSI	Danube Reference Data and Service Infrastructure	JRC.H.6	Support to implementation of the EU Biodiversity Strategy Hub	
900	TOGA-EOS	Towards Operational Global Applications from Earth Observation satellites	JRC.H.5	Support to implementation of the EU Biodiversity Strategy Hub	
927	FISE	Forest Information System for Europe	JRC.H.3	Support to implementation of the EU Biodiversity Strategy Hub	
974	LDNC	Land Degradation and land's changing Natural Capital	JRC.H.5	Support to implementation of the EU Biodiversity Strategy Hub	
995	CLIMEcoS	Assessment of climate – ecosystem interactions through Earth System Modelling and Earth Observation	JRC.H.7	Support to implementation of the EU Biodiversity Strategy Hub	
1020	DAN	Danube Air Nexus	JRC.H.2	Support to the Danube Strategy Cluster	
1053	EURO-FRESHWATERS	Futures of European Freshwaters	JRC.H.1	Support to implementation of the EU Biodiversity Strategy Hub	
1075	Danube Water Nexus	Danube Water-Agriculture-Energy-Ecosystems Nexus	JRC.H.1	Support to the Danube Strategy Cluster	
1081	SEACOAST	Monitoring, modelling and assessment of environmental status of marine and coastal waters	JRC.H.1	Support to implementation of the EU Biodiversity Strategy Hub	

Deliverables

Deliverable 1

Title	State of the Environment Report Soil Assessment
Description	The EEA provides quinquennial assessments of the current state of Europe's environment, its future state and what actions are being carried out to maintain or improve it. The deliverable will consist of a fully detailed country analysis for the status of soil resources comparable to the current country analysis for biodiversity and nature information (see for e.g. http://194.30.41.51:9080/Plone/countries/austria). The assessment will be incorporated in the new version of the Soil Atlas of Europe
Collaborating Unit	JRC.H.8
Del. Category	2.4 - JRC contributions to policy documents
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	28/10/2016
Policy Document	
Sensible Deliverable	No

Deliverable 2

Title	Soil indicator development
Description	Indicators on soil quality and soil erosion by water and wind will be provided to monitor the integration of environmental concerns into the CAP(COM(206)508 and as scoreboard indicators of the roadmap to a resource efficient Europe. Existing methods will integrate information derived from the LUCAS Topsoil Survey to improve indicator performance and to enable regular monitoring applications. Updated assessments will be provided to related DGs and the OECD on an annual basis.
Collaborating Unit	JRC.H.4
Del. Category	2.2.f - Scientific information systems and databases
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	19/12/2014
Policy Document	
Sensible Deliverable	No

Deliverable 3

Title	Soil data collection LUCAS
Description	New topsoil sampling in all EU-28 is foreseen in the 2015 LUCAS. The final deliverable will be a fully updated LUCAS soil survey for 2015 allowing a comparative analysis with the previous survey of 2009. This includes support to the LUCAS-Soil Surveys set up, field material, implementation and evaluation of results, its extension to candidate countries and the development of next generation survey [Part of Hub to support EU Biodiversity Strategy Action 5], [Contribution Open Data Strategic Action
Collaborating Unit	JRC.H.4
Del. Category	2.2.c - Validated methods, reference methods and measurements
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	16/12/2016
Policy Document	
Sensible Deliverable	No

Deliverable 4

Title	European Soil Data Centre
Description	Maintenance of permanent repository of EU soil data and information through the EU Soil Data centre & EU Soil Portal: data collection, specification, data harmonization, quality control and distribution to Commission services & other parties. Coordination of formal data requests to Member States will be carried out through the EIONet-Soil. Metadata and access to data will be ensured through the Common OpenData Catalogue and RDSI facility. [Weather-Driven Natural Hazards Strategic Activity]
Collaborating Unit	JRC.H.6
Del. Category	2.2.f - Scientific information systems and databases
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	16/06/2015
Policy Document	
Sensible Deliverable	No

Deliverable 5

Title	Sino-EU Panel on Land and Soil
Description	The Sino-EU Panel on Land and Soil, as part of the EU-China sectoral dialogues, will address degradation-free land use in 2014. Policy recommendations, based on comparative assessment, will be delivered in parallel for China and the EU focussing on the influence of human impact on land availability and the ecological conditions of soil. Land use change, amelioration/restoration measures and degradation effects will be among policy recommendations delivered.
Collaborating Unit	JRC.A.2
Del. Category	2.2.a - Scientific and policy reports
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	30/06/2014
Policy Document	
Sensible Deliverable	No

Deliverable 6

Title	Communication on Land as a Resource
Description	The Commission plans a Communication "Land as a Resource" for 2015. This will address the consequences of pressures on land quality and availability covering EU and global scales. This work, in collaboration with the project LUISA and relevant bodies, will deliver texts, technical annexes and maps to the Communication and its Impact Assessment based on related research at JRC and contributions from expert working groups.
Collaborating Unit	JRC.H.8
Del. Category	2.2.a - Scientific and policy reports
Impact Category	1 - Anticipation, conception, adoption of EU policy
Expected release date	19/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 7

Title	Implementing the Global Soil Partnership (GSP)
Description	The FAO Council, backed by the EC, has endorsed the establishment of the GSP to highlight the critical role of soils for food security and ecosystem services. In 2014 the JRC will establish and coordinate the Regional Soil Partnership for Europe for the GSP. This will develop targeted reports that outline recommendations, priorities and implementation mechanisms for EU and national soil-related policies to the Intergovernmental Technical Panel on Soils.
Collaborating Unit	JRC.H.4
Del. Category	2.2.a - Scientific and policy reports
Impact Category	5 - Support to specific countries/regions and international bodies (other than standardisation or crisis support)
Expected release date	18/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 8

Title	Global Soil Database
Description	The GlobalSoilMap.net Consortium Agreement tasks the JRC to develop a new high-resolution (100 metre) soil database for Europe/Eurasia based on advanced geo-statistical processing of soil and associated covariate data. The output will be Europe's regional contribution to the global database and made available through the European Soil Data Centre. Metadata and access to the soil database will be ensured through the Common OpenData Catalogue and the Reference Data and Services Infrastructure.
Collaborating Unit	JRC.H.4
Del. Category	2.2.f - Scientific information systems and databases
Impact Category	5 - Support to specific countries/regions and international bodies (other than standardisation or crisis support)
Expected release date	18/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 9

Title	Global assessment of soil biology and biodiversity
Description	The need for a better understanding of the role of soil biology in sustaining vital soil functions and ecosystems is increasingly recognised. Through the Global Soil Biodiversity Initiative, the JRC is coordinating a network to synthesize existing knowledge of soil organisms, identify how soil biology and related services can be measured to address potential vulnerabilities through recommend management applications. [Part of Hub to support EU Biodiversity Strategy Action 5].
Collaborating Unit	JRC.H.1
Del. Category	2.2.a - Scientific and policy reports
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	05/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 10

Title	Soil resources of Africa
Description	Competition for soil across Africa is intensifying due to population growth, food security, agriculture and climatic variability. Our understanding of these issues and associated soil degradation is limited by a lack of sub-continental scale information. The state of African soil resources at national level will be described in collaboration with African and other international partners. A new soil database of North Africa and the Sahel will be created. [Food Security Strategic Activity]
Collaborating Unit	JRC.H.4
Del. Category	2.2.f - Scientific information systems and databases
Impact Category	5 - Support to specific countries/regions and international bodies (other than standardisation or crisis support)
Expected release date	05/12/2016
Policy Document	
Sensible Deliverable	No

Deliverable 11

Title	Improving soil awareness and outreach
Description	The Commission wishes to improve the communication of science to society. This is a fundamental pillar of the EU Soil Thematic Strategy. The JRC has taken the lead in organizing the EU's contribution to EXPO 2015. In this framework, and the UN International Year of Soils 2015 a series of public information documents and Soil Atlases will be released and dedicated soil survey summer schools in the Danube region will take place.
Collaborating Unit	JRC.A.2
Del. Category	4.0 - Public information documents
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	05/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 12

Title	Landslide inventories
Description	Landslide inventories of Spain, Cyprus and Andorra and their integration in a new model to update the European Landslide Susceptibility Map (ELSUS1000) Version 1 in collaboration with the JRC-coordinated European Landslide Expert Group and the European Centre on Geomorphological Hazards (CERG).
Collaborating Unit	
Del. Category	4.0 - Public information documents
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	31/12/2014
Policy Document	
Sensible Deliverable	No

Deliverable 13

Title	Soil database at a scale of 1:250,000
Description	Variation in national soil inventories hampers the development of harmonised assessments and analysis across the Danube Basin. Currently, the only effective soil coverage is the JRC's 1:1 Mln European Soil Geographical Database. Collaboration with national soil survey institutions will lead to the development of a new high-resolution soil database (scale of 1:250,000). Metadata and access to the soil database will be ensured through the Danube Reference Data & Services Infrastructure facility.
Collaborating Unit	
Del. Category	2.2.f - Scientific information systems and databases
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	31/12/2016
Policy Document	
Sensible Deliverable	No