

Work Package Sheet

WP 2015 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	JONES Arwyn		
Duration	Start date	01/01/2014	End date 31/12/2016

Policy and Work Package recipients

Policy Area	1.3 Environment
Key orientation	1.3.1.e Measure, model and monitor land and soil degradation and desertification in the EU and globally, including through the Global Soil Partnership. Support the Land Communication and the impact assessment of new legislative proposals. Implement the EU soil thematic strategy. Further develop the soils information system to include analysis of the LUCAS 2015 soil samples, soil quality assessment, spatial modelling of soil properties, soil ecosystem services, and biodiversity.
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 (40%)
- 7 - Scientific, technical & policy consultancy (50%)
- 9 - Education & training (10%)

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	84	2015	Institutional	owner
AST	JRC.H.5	18	2015	Institutional	owner
GH	JRC.H.5	21	2015	Institutional	owner
CA	JRC.H.5	9	2015	Institutional	owner
AD	JRC.H.5	84	2016	Institutional	owner
AST	JRC.H.5	18	2016	Institutional	owner
GH	JRC.H.5	12	2016	Institutional	owner
CA	JRC.H.5	36	2016	Institutional	owner

Linked Work packages

Deliverables

Deliverable 1

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 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	18/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 2

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.
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 3

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 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.
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	18/12/2015
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 sectorial dialogues, will re-address efficient and degradation-free land use in 2015. Policy recommendations, based on comparative assessment, will be delivered for China and the EU focusing on resource use efficiency in agriculture with special focus on land quality. Optimization of land resource use, amelioration/restoration measures and degradation threats 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	29/06/2015
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 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	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 8

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 2015 the JRC will coordinate the Regional Soil Partnership for Europe as established in 2014. 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 9

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. A french language edition of the soil atlas and a new dataset describing soils of Northern Africa will be released.
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	04/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 10

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 school 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 11

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	30/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 12

Title	Soil Contamination
Description	To develop and manage the European and Global data flows related to contaminated sites and their remediation in the framework of the European Soil Data Centre and the Global Soil Partnership, and to compile the EU inventory of diffuse contamination by heavy metals, particularly cadmium in support of the conception and development of the EU fertilizer Regulation.
Collaborating Unit	
Del. Category	2.2.a - Scientific and policy reports
Impact Category	2 - Implementation, monitoring, evaluation of EU policy
Expected release date	18/12/2015
Policy Document	
Sensible Deliverable	No

Deliverable 13

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