

# JOINT RESEARCH CENTRE - Draft Work Programme 2013

## Action n° 22004 - SOIL - Soil Data and Information Systems

*Institute for environment and sustainability (Ispra)*

### *Thematic Area*

- TA3 - Sustainable management of natural resources

### *High Level Objectives*

- TA3.HLO1 - To develop multidisciplinary analyses and indicators of the sustainability of current and present use of natural resources
- TA3.HLO2 - To develop scenarios for the efficient use of natural resources in the global transition towards resource efficiency and sustainable development
- TA3.HLO3 - Develop information infrastructures and systems (INSPIRE, SEIS, GEOSS, G M ES, RSDI) to share environmental observations, information and analytical models and promote interoperability and standard setting

*Policy Theme:* 2 Solidarity and the responsible management of resources

*Agenda No & Title:* 2.2 Natural resources

*Web site address (URL):* <http://eusoils.jrc.ec.europa.eu/>

*Type:* Action

*Action Leader:* MONTANARELLA Luca JRC.H.5

*Unit:* JRC.H.5 Land Resources Management

### *JRC Internal Collaborations*

- 11601 - ENABLE
- 11602 - SHAPE
- 13113 - ALFA
- 21102 - GeoCAP
- 21103 - AGRI4CAST
- 21105 - AGRITRADE
- 21106 - SUSTAG
- 21107 - AGRI-ENV
- 22001 - MAPLE
- 22005 - ENSURE
- 22009 - INTESA
- 22010 - FRESHWATERS
- 24008 - CR-LESS-DC
- 32004 - CR-MORE-DC
- 42001 - MONDE
- 42002 - FoodSec

### *Customers*

#### **DG**

#### **Ranked**

- |   |     |
|---|-----|
| • ENV - Environment                               | 40% |
| • AGRI - Agriculture and Rural Development        | 20% |
| • CLIMA - Climate Action                          | 10% |
| • DEVCO - Development and Cooperation - EuropeAid | 10% |
| • ESTAT - Eurostat                                | 10% |
| • RTD - Research and Innovation                   | 10% |

**Total 100%**

#### **Not Ranked**

**Remaining 0%**

- EEAS - European External Action Service

- ELARG - Enlargement
- SANCO - Health and Consumers

### ***External***

- Columbia University
- INSTITUTE OF PHYSICOCHEMICAL AND BIOLOGICAL PROBLEMS IN SOIL SCIENCE OF RUSSIAN ACADEMY OF SCIENCES
- LANDGRAEDSLA RIKISINS\*SOIL CONSERVATION SERVICE OF ICELAND ISCS
- University of Iceland
- V.V. Dokuchaev Soil Science Institute
- FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)
- ACP Sec - African Caribbean and Pacific (ACP) Secretariat - The Secretariat of the African, Caribbean and Pacific Group of States
- AU COM - African Union Commission
- ECDC - European Centre for Disease Control
- EEA - European Environment Agency
- ICL - International Consortium on Landslides (ICL)
- IPCC - Intergovernmental Panel on Climate Change
- UN CBD - UN Convention on Biological Diversity
- UN FCCC - UN Framework Convention on Climate Change (UN-FCCC)
- UNCCD - United Nations Convention to Combat Desertification (UNCCD)
- WHO - World Health Organization

### ***Stakeholders***

#### ***DG***

- EEAS - European External Action Service
- ELARG - Enlargement
- ENER - Energy
- ENTR - Enterprise and Industry
- JRC KB - JRC Knowledge Base

### ***External***

- Alterra - Soil and Landuse
- ASSOCIATION EUROGEOSURVEYS\*
- BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE
- Bundesanstalt für Geowissenschaften und Rohstoffe
- Bureau de Recherches Geologiques et Minières - BRGM
- Central Service for Plant Protection and Soil Conservation
- Centro de Investigaciones Sobre Desertificación
- Centro Interdip.di Ateneo Nucleo Ricerca Desertificazione, c/o Dip. Sc. Zootecniche, Univ. Sassari
- GeoForschungsZentrum (GFZ) Potsdam
- Geological Survey of Denmark and Greenland
- GEOLOGICAL SURVEY OF FINLAND
- Institute for Soil Genesis and Ecology
- Institute for Soil Science and Land Reclamation
- INSTITUTE OF GEOGRAPHICAL SCIENCES AND NATURAL RESOURCES RESEARCH, CHINESE ACADEMY OF SCIENCES\*IGSNRR
- INSTITUTE OF PHYSICOCHEMICAL AND BIOLOGICAL PROBLEMS IN SOIL SCIENCE OF RUSSIAN ACADEMY OF SCIENCES
- Institute of Soil and Plant Cultivation
- INSTITUTE OF SOIL SCIENCE CHINESE ACADEMY OF SCIENCES\*ISSCAS
- INTERNATIONAL SOIL REFERENCE AND INFORMATION CENTRE
- Land Research Centre - Soil Office Palestine
- LANDGRAEDSLA RIKISINS\*SOIL CONSERVATION SERVICE OF ICELAND ISCS
- N. Poushkarov Institute of Soil Science and Agroecology

- Norwegian Centre for Soil and Environmental Research (JORDFORSK)
- RESEARCH INSTITUTE FOR SOIL SCIENCE AND AGRICULTURAL CHEMISTRY (HUNGARIAN ACADEMY OF SCIENCES)
- Research Institute for Soil Science and Agrochemistry
- Soil Fertility Research Institute
- Soil Science and Conservation Research Institute
- Soil Science Department (Agronomic Veterinary Institute Hassan II)
- Soil Survey and Land Research Centre
- V.V. Dokuchaev Soil Science Institute
- EGS - Eurogeosurveys
- FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)
- EEA - European Environment Agency
- EEAS - European External Action Service
- EFSA - European Food Safety Agency
- IPCC - Intergovernmental Panel on Climate Change
- ISRIC - World Data Centre for Soils
- UN CBD - UN Convention on Biological Diversity
- UN FCCC - UN Framework Convention on Climate Change (UN-FCCC)
- UNCCD - United Nations Convention to Combat Desertification (UNCCD)
- UNEP - United Nations Environment Programme (UNEP)
- UNEP/GEF - United Nations Environment Programme/Division of Global Environment Facility Coordination
- WHO - World Health Organization

**Keywords:**

Soil Data Centre, Soil Thematic Strategy, Soil Framework Directive, Desertification, Land Use and Land Use Change, Global Change, Food Security, Bio-economy, Standards, Bio-energy, Rural development, Land degradation, Resource Efficiency, Soil Protection, Sustainability, Organic Farming

**Rationale:**

Soil data and information are relevant for a number of EU policy areas: food security, agriculture, soil protection, bio-energy, water protection, nature protection, development policy, health and sustainable development. The EU Thematic Strategy for Soil Protection addresses these different policy areas in a coherent manner and proposes the way forward towards effective soil protection in Europe. Policy relevant soil data and information therefore play a crucial role in the policy development and implementation process. The Roadmap to a Resource Efficient Europe (COM (2011) 571), the Report from the Commission on the implementation of the Soil Thematic Strategy (COM (2012) 46) and the outcome document of the Rio+20 Conference on Sustainable Development have highlighted the central role that global soil resources will play also in the future. Therefore the successful operation of the European Soil Data Centre (ESDAC) and the related networking and data collection activities in Europe will have to be further expanded towards a fully operational Global Soil Data and Information System as a major contribution of the EU to the implementation of the Global Soil Partnership (GSP). This fully operational global soil information system will be the main goal of the action during the next Horizon 2020 programme, supporting the definition, implementation and monitoring of the Zero Net Land Degradation (ZNLDD) target agreed in the Rio+20 Conference as proposed by the UNCCD. The action will therefore strengthen its support to relevant global multilateral agreements ratified by the European Community (United Nations Framework Convention on Climate Change (UNFCCC), Convention on Biological Diversity (CBD), United Nations Convention to Combat Desertification (UNCCD)) with the necessary soil data and information. Relevant data for food security (Global Soil Fertility Assessment), climate change (Global Soil Organic Carbon Facility), biodiversity (Global Soil Biodiversity Initiative) and

desertification (World Atlas on Desertification) will provide the necessary information for policy relevant assessments at the global scale. These activities will be supported by the Intergovernmental Technical Panel on Soil (ITPS), to be established within the GSP.

This Action supports a large number of other JRC Actions by providing updated soil data and information via the ESDAC and the EU Soil Portal.

#### *Summary of the project:*

Global and EU policy-relevant soil information, from initial data collection right through to final reporting, are managed by this Action. This is achieved by using the European Soil Data Centre (ESDAC) as the single soil information focal point for the EU and by expanding its activity to serve a full global coverage. It serves the Commission's needs in implementing the Thematic Strategy for Soil Protection (COM(2006) 231). Advanced modelling techniques and scenario analyses are used to provide soil information to end users in relation to the major threats to soil identified in the Thematic Strategy for Soil Protection (erosion, decline of organic matter, compaction, salinisation, landslides, sealing, contamination and loss of soil biodiversity). Strong scientific and technical support to the Global Soil Partnership for Food Security and Climate Change Adaptation and Mitigation of FAO as well as to the White Paper and the EU adaptation strategy implementation of the UNFCCC in support of DG CLIMA, Extensive support to the CBD and the UNCCD are provided by the development of an operational Global Soil Information System (GLOSIS) including the Global Soil Biodiversity Atlas (GSBA). This information system will allow for the regular assessment of global soil resources in the framework of the GEO (Group of Earth Observation) initiative and the Global Soil Partnership coordinated by the FAO. The Action acts as well as the specific scientific and technical support for the implementation of the UNCCD, particularly by compiling and maintaining the World Atlas of Desertification (WAD) and by representing the European Community within the Committee of Science and Technology (CST) of the UNCCD.

During 2013 the SOIL Action will focus on the following overarching objectives:

1. The maintenance and daily operation of the European Soil Data Centre (ESDAC) as a single focal point for all soil data and information in Europe.
2. The development of procedures and methods for data collection, quality assessment and control, data management and storage, and data distribution to Commission and external users, which fully comply with INSPIRE principles for spatial data infrastructures.
3. Research and development of advanced modelling techniques, indicators and scenario analyses in relation to the major threats to soil (erosion, decline of organic matter, compaction, salinisation, landslides, sealing, contamination, and loss of soil biodiversity), as identified in the Thematic Strategy for Soil Protection.
4. Supporting other Commission's services with soil information and scientific as well as technical assistance in negotiating the Thematic Strategy for Soil Protection and the proposal for a Soil Framework Directive and their subsequent implementation at Community and Member State level.
5. Extension of the coverage of the European Soil Information System (EUSIS) towards a fully operational Global Soil Information System (GLOSIS), which will provide relevant soil information for the implementation of multilateral environmental agreements such as the UNFCCC, the CBD and the UNCCD, and contribute to the Global Soil Partnership of FAO as well as the follow-up of the Rio+20 meeting in relation to the implementation of the Sustainable Development Goal of Zero Net Land Degradation (ZNLDD).

#### *Specific Objectives for 2013:*

##### **Objective 1**

Operate, maintain and further develop the European Soil Data Centre (ESDAC) towards a Global Soil Data and Information Centre in the framework of the Global Soil Partnership supporting the Food Security foresight activity of the JRC. Use the output and associated research to inform land and soil related policies and activities of DG ENV, DG AGRI, DG CLIMA, DG DEVCO, EUROSTAT and EEA.

**Deliverable 1.1**

20/12/2013

Fully updated and maintained EU Soil Portal as main point of access for policy relevant soil data in Europe  
[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Institutional

**JRC Internal Collaborations**

11601 - ENABLE

11602 - SHAPE

13113 - ALFA

21102 - GeoCAP

21103 - AGRI4CAST

21107 - AGRI-ENV

22001 - MAPLE

22005 - ENSURE

22009 - INTESA

24008 - CR-LESS-DC

32004 - CR-MORE-DC

42001 - MONDE

42002 - FoodSec

**Customers DG**

AGRI - Agriculture and Rural Development

CLIMA - Climate Action

DEVCO - Development and Cooperation - EuropeAid

ENV - Environment

ESTAT - Eurostat

**Customers External**

EEA - European Environment Agency

**Deliverable 1.2**

28/06/2013

Data Specifications for a 1:250,000 soil database for Europe  
[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Institutional

**Customers DG**

AGRI - Agriculture and Rural Development

ENV - Environment

ESTAT - Eurostat

**Customers External**

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

EEA - European Environment Agency

**Deliverable 1.3**

28/06/2013

Soil map of the Saharan region (draft) derived from earth observation data as a further development of the base maps available within the Soil Atlas of Africa and integrating digital soil mapping derived data for Europe with data from the Africa Soil Information Service (AfSIS) towards the achievement of a full data coverage from Northern Europe to South Africa as a contribution to the GlobalSoilMap.net consortium.

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Reference to CWP**

<b>Section</b>	<b>Topic</b>
1: Forthcoming initiatives 2013 - 2014	55:Preparing an EU position on the follow-up to Rio + 20 including the development of Sustainable Development Goals

**Funding** Institutional

**JRC Internal Collaborations**

42001 - MONDE

**Customers DG**

DEVCO - Development and Cooperation - EuropeAid

**Customers External**

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

### **Deliverable 1.4**

28/06/2013

New Technical Platform for ESDAC

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Institutional

**Customers DG**

ENV - Environment

ESTAT - Eurostat

**Customers External**

EEA - European Environment Agency

### **Deliverable 1.5**

30/09/2013

First version of the Global Soil Fertility Database in support to the Food Security foresight activities of the JRC.

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

<b>Section</b>	<b>Topic</b>
1: Forthcoming initiatives 2013 - 2014	54:Preparing an EU position on the post - 2015 developmentagenda
1: Forthcoming initiatives 2013 - 2014	55:Preparing an EU position on the follow-up to Rio + 20 including the development of Sustainable Development Goals

**Funding** Institutional

**JRC Internal Collaborations**

42002 - FoodSec

**Customers DG**

AGRI - Agriculture and Rural Development

DEVCO - Development and Cooperation - EuropeAid

ENV - Environment

**Customers External**

**Deliverable 1.6**

30/09/2013

JRC Reference Report on the "Progress in the Management of Contaminated Sites in Europe for the period 2006 - 2012" (EEA Indicator CSI015)

[JRC Reference Reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Institutional

**Customers DG**

ENV - Environment

ESTAT - Eurostat

**Customers External**

EEA - European Environment Agency

**Deliverable 1.7**

27/09/2013

Maintenance and further expansion of the LUCAS soil information system by integrating EU Candidate countries and expanding the list of measured physical and chemical parameters

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

1: Forthcoming initiatives 2013 - 2014

**Topic**

56:Enlargement package 2013

**Funding** Administrative Arrangements

Enlargement & Integration

Institutional

**JRC Internal Collaborations**

22001 - MAPLE

**Customers DG**

AGRI - Agriculture and Rural Development

CLIMA - Climate Action

ELARG - Enlargement

ENV - Environment

ESTAT - Eurostat

**Customers External**

EEA - European Environment Agency

**Objective 2**

Continue the research and development of advanced modelling techniques, indicators and scenario analyses in relation to the major threats to soil (erosion, decline of organic matter, compaction, salinisation, landslides, sealing, contamination, desertification and loss of soil biodiversity) as identified in the Thematic Strategy for Soil Protection, in the EU Adaptation Strategy and in support of the implementation of the UNCCD.

**Deliverable 2.1**

20/12/2013

Publication on the European Hydropedological Inventory prepared in the support of MyWater: Merging Hydrologic models and EO data for reliable information on Water

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

## Policy Documents

COM 2011 571 Roadmap to a Resource Efficient Europe

**Funding** Indirect Action

## JRC Internal Collaborations

22010 - FRESHWATERS

## Customers DG

ENV - Environment

RTD - Research and Innovation

## Deliverable 2.2

20/09/2013

Publication of the "Atlas européen de la biodiversité du sol" by the Soil Biodiversity Working Group of the JRC

[Scientific Publications]

**Policy** 1.2.2 Sustainable management of natural resources

## Policy Documents

COM 2011 244 COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS Our life insurance, our natural capital: an EU biodiversity strategy to 2020

**Funding** Institutional

## Customers DG

ENV - Environment

## Customers External

UN CBD - UN Convention on Biological Diversity

## Deliverable 2.3

28/06/2013

Coordination of the CAPRESE project (AGRI- 2012-0166 ) and development of a dynamic modelling approach to estimate soil organic carbon on agricultural land

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

## Policy Documents

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

## Reference to CWP

Section	Topic
1: Forthcoming initiatives 2013 - 2014	36:Review of EU political and legal framework for organic production
1: Forthcoming initiatives 2013 - 2014	37:EU's Strategy on adaptation to climate change

**Funding** Administrative Arrangements

## JRC Internal Collaborations

21102 - GeoCAP

21103 - AGRI4CAST

21105 - AGRITRADE

21106 - SUSTAG

21107 - AGRI-ENV

## Customers DG

AGRI - Agriculture and Rural Development

## Deliverable 2.4

28/06/2013

Application of IPCC Tier 1 method for estimating Soil Organic Carbon (SOC) in cultivated and grazing land for selected EU27 countries



[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2012 94 Accounting for land use, land use change and forestry (LULUCF) in the Union's climate change commitments

**Funding** Administrative Arrangements

**Customers DG**

CLIMA - Climate Action

**Customers External**

IPCC - Intergovernmental Panel on Climate Change

UN FCCC - UN Framework Convention on Climate Change (UN-FCCC)

**Deliverable 2.5**

28/06/2013

Assessment of peat areas for improved emission estimates of CO<sub>2</sub> and CH<sub>4</sub> and first draft of the Global Peat Atlas.

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

COM 2012 94 Accounting for land use, land use change and forestry (LULUCF) in the Union's climate change commitments

DIR 2009 28 Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC:

**Funding** Institutional

**JRC Internal Collaborations**

13113 - ALFA

**Customers DG**

CLIMA - Climate Action

ENV - Environment

**Deliverable 2.6**

29/11/2013

Report on land as a resource and proposed land/soil targets in support of the planned Commission communication and the related impact assessment developed jointly with the establishment of the JRC technical working group on land and soil

[JRC contributions to policy documents]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2011 571 Roadmap to a Resource Efficient Europe

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

1: Forthcoming initiatives  
2013 - 2014

**Topic**

55:Preparing an EU position on the follow-up to Rio + 20 including the development of Sustainable Development Goals

**Funding** Institutional

**Customers DG**

ENV - Environment

**Customers External**

EEA - European Environment Agency

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

**Deliverable 2.7**

29/11/2013

Report on Climate change impacts, vulnerability and adaptation in Europe in collaboration with WHO, ECDC, EEA

[JRC contributions to policy documents]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2009 147 Adapting to climate change: Towards a European Framework for Action

**Reference to CWP****Section**

1: Forthcoming initiatives 2013 - 2014

**Topic**

37:EU's Strategy on adaptation to climate change

**Funding** Institutional

**JRC Internal Collaborations**

32004 - CR-MORE-DC

**Customers DG**

CLIMA - Climate Action

**Customers External**

ECDC - European Centre for Disease Control

EEA - European Environment Agency

WHO - World Health Organization

**Deliverable 2.8**

29/11/2013

Refined landslide susceptibility map of Europe fully integrated in the ESDAC and freely accessible by the general public

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Institutional

**JRC Internal Collaborations**

32004 - CR-MORE-DC

**Customers DG**

ENV - Environment

**Customers External**

ICL - International Consortium on Landslides (ICL)

**Deliverable 2.9**

29/11/2013

Progress report on the assessment of soil and human health relations.

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Institutional

**Customers DG**

ENV - Environment

SANCO - Health and Consumers

**Customers External**

WHO - World Health Organization

To provide scientific information in support to the implementation of the Global Soil Partnership, the Rio Conventions (UNCCD, CBD and UNFCCC) as well as the follow-up activities to the Rio+20 Conference and to assure data availability through relevant JRC information portals including the World Atlas on Desertification and the ACP Observatory for sustainable development

### **Deliverable 3.1**

29/11/2013

Report on progress towards a review of the state of soil in Africa including a new Soils Atlas for Africa, associated outreach material (posters) and integrated African soils information layer in the ACP Observatory for sustainable development.

[JRC Scientific Support - Scientific and policy reports]

**Policy** 3.2 Development cooperation

#### **Policy Documents**

INTERNAT 2011 2 Joint Africa EU Strategy Action Plan 2011-2013

**Funding** Institutional

#### **JRC Internal Collaborations**

42001 - MONDE

#### **Customers DG**

DEVCO - Development and Cooperation - EuropeAid

#### **Customers External**

Columbia University

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

ACP Sec - African Caribbean and Pacific (ACP) Secretariat - The Secretariat of the African, Caribbean and Pacific Group of States

AU COM - African Union Commission

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

### **Deliverable 3.2**

31/07/2013

World Atlas of Desertification (WAD) Information Portal including in-depth scientific content, map browser and interactive web applications for further ad hoc spatial and statistical analysis linked to the ACP Observatory

[JRC Scientific Support - Scientific information systems and databases]

**Policy** 3.2 Development cooperation

**Funding** Institutional

#### **Customers DG**

DEVCO - Development and Cooperation - EuropeAid

ENV - Environment

#### **Customers External**

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

### **Deliverable 3.3**

31/07/2013

Soil Atlas of Latin America

[JRC Scientific Support - Scientific and policy reports]

**Policy** 3.2 Development cooperation

**Funding** Administrative Arrangements

Institutional

#### **Customers DG**

DEVCO - Development and Cooperation - EuropeAid

#### **Customers External**

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

### **Deliverable 3.4**

31/07/2013

Report on Soil carbon sequestration for climate change, food security and ecosystem services

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Enlargement & Integration

Institutional

**Customers DG**

AGRI - Agriculture and Rural Development

CLIMA - Climate Action

DEVCO - Development and Cooperation - EuropeAid

ELARG - Enlargement

ENV - Environment

**Customers External**

LANDGRAEDSLA RIKISINS\*SOIL CONSERVATION SERVICE OF ICELAND ISCS

University of Iceland

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

EEA - European Environment Agency

IPCC - Intergovernmental Panel on Climate Change

UN CBD - UN Convention on Biological Diversity

UN FCCC - UN Framework Convention on Climate Change (UN-FCCC)

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

**Deliverable 3.5**

31/07/2013

Training Course on Digital Soil Mapping for Food Security

[JRC Scientific Support - Training]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Funding** Enlargement & Integration

Institutional

**Customers DG**

AGRI - Agriculture and Rural Development

DEVCO - Development and Cooperation - EuropeAid

EEAS - European External Action Service

ENV - Environment

**Customers External**

INSTITUTE OF PHYSICOCHEMICAL AND BIOLOGICAL PROBLEMS IN SOIL SCIENCE OF  
RUSSIAN ACADEMY OF SCIENCES

V.V. Dokuchaev Soil Science Institute

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

EEA - European Environment Agency

**Deliverable 3.6**

31/07/2013

World Atlas of Desertification (WAD)

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

**Topic**

- 1: Forthcoming initiatives 2013 - 2014      54: Preparing an EU position on the post - 2015 development agenda
- 1: Forthcoming initiatives 2013 - 2014      55: Preparing an EU position on the follow-up to Rio + 20 including the development of Sustainable Development Goals

**Funding** Institutional

**Customers DG**

CLIMA - Climate Action

DEVCO - Development and Cooperation - EuropeAid

ENV - Environment

**Customers External**

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

AU COM - African Union Commission

EEA - European Environment Agency

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

**Deliverable 3.7**

31/07/2013

Contribution to the IPCC Fifth Assessment Report (AR5), Climate Change 2013: Impacts, Adaptation, and Vulnerability

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2009 147 Adapting to climate change: Towards a European Framework for Action

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

**Topic**

1: Forthcoming initiatives 2013 - 2014

37: EU's Strategy on adaptation to climate change

**Funding** Institutional

**JRC Internal Collaborations**

32004 - CR-MORE-DC

**Customers DG**

CLIMA - Climate Action

ENV - Environment

**Customers External**

EEA - European Environment Agency

IPCC - Intergovernmental Panel on Climate Change

UN FCCC - UN Framework Convention on Climate Change (UN-FCCC)

**Deliverable 3.8**

27/09/2013

Progress report on the development of the Global Soil Biodiversity Atlas by the expanded Soil Biodiversity Working Group within the Global Soil Biodiversity Initiative (GSBI)

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2011 244 COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS Our life insurance, our natural capital: an EU biodiversity strategy to 2020

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

**Topic**

1: Forthcoming initiatives

55: Preparing an EU position on the follow-up to Rio + 20 including the

2013 - 2014

development of Sustainable Development Goals

**Funding** Institutional

**Customers DG**

ENV - Environment

**Customers External**

UN CBD - UN Convention on Biological Diversity

### **Deliverable 3.9**

29/11/2013

Report on the support activities for the Global Soil Partnership (GSP), including the establishment of the Regional Soil Partnership for Europe extending the mandate of the European Soil Bureau Network (ESBN) and the Intergovernmental Technical Panel on Soils (ITPS).

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

**Topic**

1: Forthcoming initiatives  
2013 - 2014

55:Preparing an EU position on the follow-up to Rio + 20 including the  
development of Sustainable Development Goals

**Funding** Institutional

**Customers DG**

AGRI - Agriculture and Rural Development

DEVCO - Development and Cooperation - EuropeAid

ENV - Environment

**Customers External**

FAO - THE FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

UN CBD - UN Convention on Biological Diversity

UN FCCC - UN Framework Convention on Climate Change (UN-FCCC)

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

### **Deliverable 3.10**

29/11/2013

Report on representation to the Scientific Meetings of the Economics of Land Degradation Initiative (ELD) supported by DG ENV and to the ELD Working Group 1 on Data Analysis and Methodology

[JRC Scientific Support - Scientific and policy reports]

**Policy** 1.2.2 Sustainable management of natural resources

**Policy Documents**

COM 2006 231 EU Thematic Strategy for Soil Protection

COM 2012 46 The implementation of the Soil Thematic Strategy and ongoing activities

**Reference to CWP**

**Section**

**Topic**

1: Forthcoming initiatives  
2013 - 2014

55:Preparing an EU position on the follow-up to Rio + 20 including the  
development of Sustainable Development Goals

**Funding** Institutional

**Customers DG**

DEVCO - Development and Cooperation - EuropeAid

ENV - Environment

**Customers External**

UNCCD - United Nations Convention to Combat Desertification (UNCCD)

