This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No730313

Synergic Circular Economy across European Regions
SCREEN

Deliverable D1.4

Updated Data Management Plan

Main Autor(s)	Regione Lazio
Due Date	31th August 2018
Delivery Date	31th August 2018
Work Package	WP1 Project Management
Dissemination level	Public

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Introduction

This document is an updated version of the deliverable D2.1 "*Draft Data Management Plan*" and contains more details about the format of the data and their availability

SCREEN is an H2020 Coordination and Supporting Action that aims at the definition of a replicable systemic approach towards a transition to Circular Economy in EU regions within the context of the Smart Specialization Strategy, through the identification and implementation of operational synergies between R&I investments from H2020 and the European Structural and Investment Funds, thus contributing to novel future eco-innovative and horizontal business models across different value chains.

Regions participating at the project (directly or through their own agencies) are:
− Regione Lazio, Italy
− Regione Lombardia, Italy
− Comunidad Foral de Navarra - Gobierno de Navarra, Spain
− Comissao de Coordenacao e Desenvolvimento Regional do CENTRO, Portugal
− Wojewodztwo Lodzkie (Lodzkie Region), Poland
− KRITI (PERIFEREIA), Greece
− Agence Regionale de Developpement d'investissement et d'innovation (NEXA), France
− Knowledge Transfer Network Limited (The KTN), United Kingdom
− Limburg Province, The Netherlands
− Provincie Fryslan, The Netherlands
− Pirkanmaan Liitto (Tampere), Finland
− IAU, Ile de France
− Extremadura, Spain
− Flanders, Belgium
− Azores, Portugal
− Primorje-Gorski Kotar, Hungary
− North-East Romania, Romania

The project foresees local analyses of the circular capabilities of the participating Regions and a tool to identify cross regional value chains.

This deliverable outlines how the data collected and the tools developed by the project will be handled during and after the SCREEN action; this document follows the template provided by the European Commission "Guidelines on FAIR Data Management in Horizon 2020", version 3.0 of 23rd of July 2016. Such a template is a set of questions answered with a level of detail appropriate to the project, that in the case of SCREEN is a Coordination Action, not expected to generate research data. Therefore some questions having the answer "not applicable" have been grouped in the following text.

1. Data Summary

What is the purpose of the data collection/generation and its relation to the objectives of the project?

The regions participating to SCREEN sent data on their smart specialization strategies with specific focus on the areas and sectors to be prioritized for the diffusion of circular economy focus sectors, R&D capabilities, education capabilities, and emerging ideas.

What types and formats of data will the project generate/collect?

Excel files only, like the one shown in the following figure.

Partner	Region	Country	Date Delivery Excell-Tool		Data Complete
			Draft	Final	Step 1 - RIS3 & SWOT
REGIONE LAZIO	Lazio	Italy	13-2-2017	27-4-2017	
UNIVERSITA DEGLI STUDI DELLA TUSCIA	Tuscia	Italy			
REGIONE LOMBARDIA	Lombardia	Italy	13-3-2017	9-5-2017	
COMUNIDAD FORAL DE NAVARRA - GOBIERNO DE NAVARRA	Navarra	Spain	24-2-2017	21-3-2017	
COMISSAO DE COORDENACAO E DESENVOLVIMENTO REGIONAL DO CENTRO	CCDRC	Portugal	24-2-2017	24-2-2017	
WOJEWODZTWO LODZKIE	Lodzkie	Poland	6-5-2017	6-5-2017	
KRITI	Crete	Greece	15-2-2017	15-2-2017	
NEXA - AGENCE REGIONALE DE DEVELOPPEMENT D'INVESTISSEMENT ET D'INNOVATION	NEXA/La Reunión	France	24-2-2017	24-2-2017	
KNOWLEDGE TRANSFER NETWORK LIMITED	KTN	United Kingdom	22-2-2017	22-2-2017	
Limburg Province	Limburg	Netherlands			
Provincie Fryslan	Fryslan	Netherlands	23-1-2017	23-1-2017	
Pirkanmaan liitto	Tampere	Finland	10-2-2017	24-2-2017	

Legenda
Complete/applicable
Partialy incomplete/reasonably applicable
Incomplete/ non-applicable

Will you re-use any existing data and how?

Due to the scope of the Action, that is a Coordination Action, only existing data provided by the participating regions will be collected and analysed. The main scope is to collect data in a way that can be used for the project purposes, basically matchmaking between different regional initiatives and possible synergies.

What is the origin of the data?

Regional data base of other regional sources, only from the participating regions

What is the expected size of the data?

Extremely variable, depending on their availability in each region; however, for the project purposes, they are contained in small excel files like the following one

RIS3 Filter				
Objective				
Identifying broad RIS3 Ambition/Area's | coherency with Smart Specialisation Platform				
Partner	**Region**	**Country**	**SCREEN RIS3 Area's Mapping Tool**	**Check Smart Specialisation Platform**
REGIONE LAZIO	Lazio	Italy	Aerospace; Life Sciences;cultural heritage;digital creative industries;agrofood;Green economy	**Complementair**
REGIONE LOMBARDIA	Lombardia	Italy	Advanced manufacturing; environment and green chemistry industry; agribusiness	Complementair, including Aeronautics and Space, Cultural and creative industries, sustainable mobility
COMUNIDAD FORAL DE NAVARRA - GOBIERNO DE NAVARRA	Navarra	Spain	Renewable Energy & Natural Resources	Complementair, including Biomedicine; Business services;ecofriendly ageing;education; environment and waste;health care services;mechatronics;medical equipment;sustainable construction;sustainable outrism;sustainable vehicles
COMISSAO DE COORDENACAO E DESENVOLVIMENTO REGIONAL DO CENTRO	CCDRC	Portugal	Agrobusiness;Forestry;Sea; ICT;Materials;Tourism	Complementair, including Advanced manufacturing&industry;alternative (energy)sources;ICT; Health & Life Sciences
WOJEWODZTWO LODZKIE	Lodzkie	Poland	innovative agriculture and agrifood; energy	Complementair, including Advanced construction, IT&Telecommunications, medical industry; modern textiles;
KRITI	Crete	Greece	Agroculture;culture & tourism; environmental	No RIS3 found
NEXA - AGENCE REGIONALE DE DEVELOPPEMENT D'INVESTISSEMENT ET D'INNOVATION	NEXA	France	(Tropical) Bioeconomy; experential eco-tourism; resillient, low-carbon economy	Complementair, including aquaculture; biofuel; environmental monitoring; fishing; lifesciences; marine energy; watertechnology
KNOWLEDGE TRANSFER NETWORK LIMITED	KTN	United Kingdom	Environment & Energy;Food&Beverages;Marine Energy;Life Sciences	Complementair, including Creative Industries;Financial & Business Services;Tourism;Education
Limburg Province	Limburg	Netherlands		
Provincie Fryslan	Fryslan	Netherlands	Watertechnology;Agrofood&Dairy	Complementair, including Sensortechnology, Energy, Healthy Ageing;
Pirkanmaan liitto	Tampere	Finland	Bioeconomy;Sustainability;Manufacturig;High level of Expertise as a succes factor	No RIS3 found

RIS3 Filter sheet

To whom might it be useful ('data utility')?

To other regions willing to use the tools developed by the project for the analysis of potential cross-regional value chains. Also to relevant public and private stakeholders interested to be part of a circular economy value chain.

2. FAIR data

2.1 Making data findable, including provisions for metadata

Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?

Not applicable: only Excel files

What naming conventions do you follow?

Name of the deliverable, according to the list in the Grant Agreement, with extension xls or xlsx.

Will search keywords be provided that optimize possibilities for re-use?

No

Do you provide clear version numbers?

Yes, complying with the version of the deliverable or internal report

What metadata will be created? In case metadata standards do not exist in your discipline, please outline what type of metadata will be created and how.

No metadata will be created

2.2 Making data openly accessible

Which data produced and/or used in the project will be made openly available as the default?

Data on the smart specialization of the participating regions, related to the circular economy. Data on the mapping made by each region about potential circular economy value chains

How will the data be made accessible (e.g. by deposition in a repository)?

All the technical reports are public and available on the project website http://www.screen-lab.eu/Deliverables.html. These reports also contain the above mentioned excel files.

What methods or software tools are needed to access the data?

Any tool able to read Excel files

Is documentation about the software needed to access the data included?

No need of any documentation

Is it possible to include the relevant software (e.g. in open source code)?

Free software available on the Internet (such as Open Office and similar)

Where will the data and associated metadata, documentation and code be deposited?

Not applicable

Have you explored appropriate arrangements with the identified repository?

Not applicable

If there are restrictions on use, how will access be provided?

No restrictions

Is there a need for a data access committee?

No

Are there well described conditions for access (i.e. a machine readable license)?

How will the identity of the person accessing the data be ascertained?

Not applicable

2.3. Making data interoperable

Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organisations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?

Yes, Excel file format (xls od xlsx) compliant with open software applications

What data and metadata vocabularies, standards or methodologies will you follow to make your data interoperable?

No metadata, the standard adopted is the excel file one

Will you be using standard vocabularies for all data types present in your data set, to allow inter-disciplinary interoperability? In case it is unavoidable that you use uncommon or generate project specific ontologies or vocabularies, will you provide mappings to more commonly used ontologies?

Not applicable

2.4. Increase data re-use (through clarifying licences)

How will the data be licensed to permit the widest re-use possible?

Not applicable

When will the data be made available for re-use?

Immediately after the publication of the related SCREEN deliverable

Are the data produced and/or used in the project useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why.

Yes, without any restriction

How long is it intended that the data remains re-usable?

3 years or more

Are data quality assurance processes described?

No

3. Allocation of resources

What are the costs for making data FAIR in your project?

No specific cost, being public deliverable containing excel files

How will these be covered? Note that costs related to open access to research data are eligible as part of the Horizon 2020 grant (if compliant with the Grant Agreement conditions).

Not applicable, covered by the project

Who will be responsible for data management in your project?

Project Coordinator

Are the resources for long term preservation discussed (costs and potential value, who decides and how what data will be kept and for how long)?

No

4. Data security

What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?

Back up assured by the service provider hosting the SCREEN web site, plus the deliverable repository managed by the European Commission

Is the data safely stored in certified repositories for long term preservation and curation?

Not applicable, see the previous answer.

5. Ethical aspects

Are there any ethical or legal issues that can have an impact on data sharing? These can also be discussed in the context of the ethics review. If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA).

No

Is informed consent for data sharing and long term preservation included in questionnaires dealing with personal data?

Yes

6. Other issues

Do you make use of other national/funder/sectorial/departmental procedures for data management? If yes, which ones?

No