

Guideline:	<i>Standard operating procedure for minimal data exchange for the ARPAC.</i>
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Dataset Name (acronym):	Regional Agency for the Protection of the Environment of Campania (ARPAC)
Description of the Dataset:	The environmental dataset is critical for the assessment of potential exposure risk to support epidemiological assessments. The dataset has been designed to have the widest adherence on a European scale. It is built up of registering variables determined in potentially polluted sites (e.g. Contaminated and brownfield sites, Industrial activities) and analytical variables (e.g. air and water quality).
Data Type(s):	Exposome
EOSC4Cancer Use Case:	T4.1
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A. Purpose

This SOP describes the steps required for exposome data from ARPAC ISZM to be accessed and used by researchers in the context of the EOSC4Cancer project and beyond. Based on this information, we will define and suggest broader guidelines for data exchange within and beyond the EOSC4Cancer project. Below you will find an overview of the data models, ontology, vocabulary and dictionaries used by the dataset. Furthermore, data access procedures are described step-by-step.

B. List of definitions and abbreviations

Definitions	
ARIR	Companies at Risk of Major Accidents

C. Data Models and ontology, vocabulary, dictionaries

Exposome	Name	Description <i>-custom-made for project?... -based on?...</i>	References	Is this a standard?	Available conversions for harmonization
Data Models	Air quality	The monitoring and assessment of the state of air quality is aimed at supporting the implementation of environmental policies to prevent or reduce any harmful effects on the environment and health due to air pollution. Assessments at regional, national and/or European level are effective when they are based on accurate, reliable and comparable and compatible measurement data. For this reason, regulatory measures such as Legislative Decree 155/2010 transposing Directive 2008/50/EC, as amended by Legislative Decree No. 250/2012, have established the measurement methods to be used in air quality monitoring and their quality objectives together with a series of requirements and activities to control and ensure the quality and comparability of the data produced by monitoring networks.	https://dati.arpacampania.it/dataset/?groups=rqa-qualita-aria	yes	Yes ? *compatible with EIRENE
	Groundwater quality	The main reference legislation for monitoring water quality in Europe is the Water Framework Directive (WFD), i.e. Directive 2000/60/EC. This directive provides the legal framework for monitoring freshwater, coastal water and groundwater quality in the European Union. The WFD sets out environmental objectives and water quality standards, as well as requirements for the development of monitoring programs and water management plans.	https://dati.arpacampania.it/organizzazione/arpac?group=acque-sotterranee	yes	Yes
	Contaminated and brownfield sites	The problem of the management of contaminated sites is not regulated at Community level by specific legislation. Possible indirect references are represented by Council Directive 96/61/EC of 24 September 1996 concerning integrated pollution prevention and control; Directive 2004/35/EC of the European Parliament and of the Council of 21 April 2004 establishing a framework for environmental liability based on the polluter pays principle for the prevention and remedying of environmental damage. EU member states are engaged in the census and assessment of risks related to contaminated sites with the aim of establishing priorities for intervention.	https://www.arpacampania.it/web/guest/siti-contaminati	no	Yes
	ARIR	Major accidents involving dangerous substances pose a serious threat to people and the environment. Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances ("Seveso III Directive") provides the relevant framework for risk management measures in order to prevent major accidents and limit their consequences. In accordance with Article 21(2), Member	https://dati.arpacampania.it/organizzazione/arpac?organizzazione=arpac&groups=aia	yes	Yes

		States shall submit a four-yearly implementation report to the Commission.			
Vocabularies/ Ontology	NA				
Dictionaries/ Codebooks	Exposome Maps inventory	Description of available variables in the Exposome Surfaces	To create with the sent document		
Formats	csv				
	csv				
	csv				
	pdf				

D. Description of the data exchange process

Step	Action	Responsible (Name, email)	Link	Estimated time
1	The air quality, groundwater quality and ARIR data are in csv format and are downloaded from the Agency's open data by accessing the link provided	NA	https://dati.arpacampania.it/organizzazione/arpac?organizzazione=arpac	1 day
2	The pdf files of the contaminated sites and brownfield sites are downloaded at the link provided. Once downloaded, they are converted to csv format	NA	https://www.arpacampania.it/web/quest/siti-contaminate	1 day

E. Related documents and links

1. [Directive 2008/50/EC]
2. [Directive 2000/60/EC]

3. [Directive 2012/18/EU]