Tools4MSP Geoportal and Data Policy

The Tools4MSP Geoplatform (former ADRIPLAN Portal) is a community-based, open source portal based on GeoNode, a web-based Content Management System (CMS) for developing geospatial information systems (GIS) and for deploying spatial data infrastructure (SDI). It includes over 600 geospatial datasets, organised in the following categories: coastal defence and sand extraction, energy, environmental protection, environment and ecosystem, fisheries and aquaculture, maritime transport and tourism, miscellanea. The Geoplatform capitalizes data from other projects (e.g. Shape, CocoNet) and enables access to standard services from other geoportals (e.g. EMODnet, EU Sea Atlas). Moreover the Geoplatform provides a set of MSP-oriented web-tools such as Cumulative Effects Assessment (CEA), Marine Use Conflict Analysis and a Marine Ecosystem Services Threat (MES-Threat) Analysis. The Tools4MSP Geoplatform is regularly updated by the Tools4MSP Development Team, the original version was developed in the context of the ADRIPLAN Project and has been consolidated within the Italian RITMARE Flagship Project and by ongoing projects such as SUPREME. Core functionalities of CEA/MUC have been supported by an MSP pilot study in sea areas of Emilia-Romagna Region (Italy), and incorporated as case studies analyses within the SUPREME (Supporting maritime spatial Planning in the Eastern Mediterranean) and SIMWESTMED (Supporting Maritime Spatial Planning in the Western Mediterranean region) projects. Currently the web-tools are providing core functionalities within PORTODIMARE (geoPortal of Tools & Data for sustainable Management of coAstal and maRine Environment; 2018-2020) Project.

1 Guidelines to support a Geoportal Data Policy

1.1 Open data and Public Sector Information

The European legislation strongly encourages the publishing of publicly-funded scientific research results as Open Access and Open data.
The definition of Open Data is commonly expressed as "data that anyone can access, use and share" (http://opendefinition.org/).
Open data becomes usable when made available in a common, machine-readable format.
Open data must be licensed. Its license must permit people to use the data in any way they want, including transforming, combining and sharing it with others, even commercially.
Starting from 2011, the European Commission has launched an Open Data Strategy for Europe, with the aim to boost economy. The Open Data Strategy led to a revision of the Directive 2003/98/EC on reuse of public sector information (PSI Directive).
The PSI Directive focuses on the economic aspects of the re-use of information rather than on access to information by citizens. It encourages the Member States to make as much information available for re-use as possible. It addresses material held by public sector bodies in the Member States, at national, regional and local levels, such as ministries, state agencies and municipalities, as well as organizations funded mostly by or under the control of public authorities.
Data collected within SOUNDSCAPE project falls also in the scope of application of Directive 2007/2/EC (INSPIRE) that contains the rules about data and services sharing about environmental informations inside the framework of an interoperable Spatial Infrastructure at a national and European level.
In addition to this legal framework requirements, the choice to release scientific data as reusable products gives advantages to the data producer itself:

data will be licensed only once and there's no need to evaluate every single request of access and reuse to data (which requires a great amount of time and effort in legal contracts);
licensed data can reach a wider audience and will contain always proper attribution;
data quality can be checked and improved by advanced users.

1.2 License types

- CC0: Creative commons Zero, applies to content and data on public domain; corresponds to a waiver of all rights including those of attribution.
- PDDL: Open Data Commons Public Domain Dedication and License , same rights as CC0 but applies to data only.
- CC-BY: Creative Commons Attributions, applies to content and data; gives to users the rights to copy and redistribute the material in any medium or format and remix, transform and build upon the material for any purpose, even commercially and the obligation to give proper attribution to the copyright holder.
- ODC-BY: Open Data Commons Attribution License, refers to same rights and obligation as CC-BY but applies to data only.
- CC-BY-SA: Creative Commons Attribution Share Alike, applies to content and data and, compared to CC-BY, requires that users share the derived products with a compatible license.
- OdbL: Open Data Commons Open Database License, refers to the same rights and obligations as CC-BY-SA but applies to data only.

(Source: http://opendefinition.org/licenses/)

Depending on the policies of the partners, this data can have different levels of detail for different levels of sharing.

1.3 License and sharing

Data sharing doesn't mean that the owners shall give up to the intellectual property on their data but, on the contrary, that their data are protected, giving other users some precise rights and obligations.
The rights on the data provided refers to actions like access, view, download, modify, republish, reuse, remix and produce derived products; the obligations imply that the user must give attribution, use the data with spatial/temporal limitations or just for explicitly permitted purposes.

2 Guidelines to access PHAROS4MPAs maps

Geoportal GUIs (Graphical User Interfaces) will allow the visualization of the maps. PHAROS4MPAs project map are are available from the page **http://data.tools4msp.eu/pharos4mpas.**

The 19 maps correspond to 23 maps present in the various reports and to the general map with all the MPAs and other forms of protection in the Mediterranean. Correspondence with the maps of the reports is reported in the

abstract of each map, e.g. the map http://data.tools4msp.eu/maps/5065 corresponds to 4 maps (figures 1, 2, 3 and 4 of the report on Maritime transport).

All the maps by default will be visible but non downloadable. The layers that make up the maps can be used via Web Map Service (WMS), integrating them in any other webGIS or desktop GIS. The WMS URL to be used is: **http://data.adriplan.eu:80/geoserver/wms?**

In order to fully access the Tools4msp geoportal functionalities, following are the instructions for accessing the GeoPortal Tools4MSP:

1) register your user at: http://www.tools4msp.eu/account/signup
2) send an email to tools4msp@ismar.cnr.it from the registered address
3) once the communication of the user authorization has been received by e-mail, the map link will be provided;
4) users can then view the georeferenced layers by selecting them from the left column.

For support contact **tools4msp@ismar.cnr.it.**