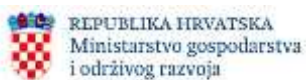




LIFE CROLIS
ACTION C1 – CROLIS data concept and model
Sub-action 1. Compilation of user requirements





ACTION C1 – CROLIS data concept and model

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Implementing Action C1 – sub-action 1 was completed in July 2022.

The activity resulted with:

- Established exhaustive list of users/institutions/experts in LC and LU field,
- Comprehensive list of policy domains for which implementation of LC and LU information are needed (International, European and National policy),

The work was performed primary by MESD:

- Mr Branimir Pavlinec, MESD-Institute GIS IT project manager
- Mrs Hana Mesić, MESD-Institute LULUCF senior expert (soil, LU/LC)
- Mrs Vida Posavec Vukelić, MESD-Institute Nature senior expert I: NATURA, Habitats, Grasslands
- Mrs Ana Grđan, MESD-Institute GIS Advisor (from Oct/2021 – Feb/2022)
- Mrs Martina Pekčec, MESD-Institute GIS Data Analyst

EkonerG team assisted during questionnaire formulation.

Other activities performed under this Action:

- Collection of necessary spatial data in GIS format

Description:

As part of Activity C1: *Data and Conceptual Model*, Sub-Activity 1: *Gathering information about user needs*, the activities listed below were carried out and the deliveries were made, which are attached to this Report.

1. Survey of potential users of the future CROLIS system

The questionnaire on the needs of users of spatial data in the Republic of Croatia was created in cooperation with the Institute for Environmental and Nature Protection (MINGOR) and the company EkonerG d.o.o. with the aim of obtaining the necessary information in order to create a unique information system for land in such a way as to provide the data and information needed by all government bodies and other users of the mentioned data. Information on spatial data currently used by institutions in Croatia was collected, as well as information on data known to be needed in the future.



Data collection via questionnaires took place in two rounds:

Results of the first round

In the first round (July - November 2021), the questionnaire was sent to 99 institutions, of which responses were received from 81 institutions (82%).

The questionnaire could be completed in two ways: online (<https://forms.gle/rfv3nvdhHztJjrN7>) and in Microsoft word form.

According to the distribution of respondents by main activity, the most responses were recorded by public institutions and agencies (53%), the share of public enterprises and companies is 18%, state administration bodies are 15% and 7% each are local authority units and scientific-research institution.

The collection of responses lasted from 1st July 2021 until 15th November 2021 which was followed by the analysis of the received answers.

The questionnaire found that public institutions (PI) are the largest group of stakeholders (53%, 42 PI) to which the questionnaire was addressed and to a large extent (92%) use spatial data, most often national and local ones. A frequent source of data in public institutions is a field survey which provides spatial data for specific microlocations and as such could be used for a more detailed representation of land within the CROLIS system.

Public enterprises and companies are the second most represented stakeholders (18%, 14 enterprises/companies) and all except Croatian Post Ltd. use spatial data. This stakeholder group often has reporting obligations and uses spatial data for this purpose (69%, 9 enterprises/companies).

State administration bodies (SAB) that responded to the questionnaire use spatial data (11/12) in 92% of cases. Most state administration bodies have an obligation to report and use spatial data for this purpose (72%, 8 SAB).

Since the questionnaire was sent to a small number of scientific and research institutions and local governmental offices, the conclusions obtained from the questionnaire should be taken in consideration with the reserve. According to the questionnaire results, 50% (3) of scientific-research institutions do not use spatial data and 100% of local governmental offices use spatial data (6).

The main purpose of using spatial data was visualization of spatial data, interpretation and analysis. Spatial data are used for these purposes by all categories of respondents, both state administration bodies, companies and public institutions.



From the point of view of the CROLIS project and the interest for detailed and unified spatial data at regional and local level, it can be concluded that there is data in most public institutions dealing with nature protection (26) and they are mostly available for free download via network services, while a smaller number of them (6) stated that their data are not available or do not possess land-related data.

What has been identified as a problem is that 64 respondents (33 PI and 10 SAB together with agencies) conclude that they will have to increase financial requirements considering production or ensuring access to future spatial data, while at the same time the highest expenditures would go to employee education (39/58 regarding PI, SAB and agencies) and purchase additional necessary equipment (25/51 regarding PI, SAB and agencies).

The results of the questionnaire are detailed in the document “LIFE CROLIS questionnaire Report” and presented to project partners through the online workshop on 14th December 2021. The report is given in Annex 1 (in Croatian language).

Results of the second round

During March 2022, the decision was made to send the already created questionnaire to an additional group of potential stakeholders, regional and local governmental offices (RLGO). The questionnaire was sent to 570 regional and local governmental offices, out of which we received replies from 150 institutions (26%).

The collection of responses lasted through the month of May 2022, followed by the analysis of received responses and a “LIFE CROLIS questionnaire Report - Regional and local governmental offices” was compiled as part of activity *C1: Compilation of beneficiary requirements* (Annex 2).

A small number of responses from regional administrative departments have arrived. The questionnaire was sent to 33 addresses of administrative departments dealing with physical planning, environmental protection, agriculture or forestry and communal services. 6 of them sent their answers.

Among local governmental offices, the highest turnout was in the municipalities (111; 74%), while the turnout in towns was slightly lower (33; 22%).

Expected, local spatial data are mostly used by local governmental offices with the aim of planning future development and management of agricultural land.

The problem observed by the analysis of this questionnaire is that it will be necessary to increase financial requirements considering production or ensuring access to future spatial data (multiple



response capability), while the largest expenditures would go to employee education (70/97) and the purchase of additional equipment (62/97), since regional and local governmental offices largely use spatial data in their daily duties.

2. Creating a list of policy domains relevant to the CROLIS concept

Based on the results of the questionnaire referred to, in the first point and on the information of the project partners, a list of relevant regulations was created with the following data:

- type of regulation (international, European, national),
- regulation name, Official Gazette number

The list contains data on 113 regulations, of which 11 are international, 21 European and 81 national.

List of policies and regulations is available in [Annex 3](#).

A list of potential stakeholders was also created on the basis of the processed questionnaires and is available in [Annex 4](#).

Both lists (List of policies and List of potential stakeholders) are subject to revision during the project, since it is to be expected that new policies and stakeholders will be recognised in the process of designing the system.

3. Collection of spatial data relevant to the CROLIS project

In the period from November 2021 until March 2022, spatial data of relevant stakeholders were obtained. These are georeferenced data of competent authorities of the Republic of Croatia that can potentially contribute to the CROLIS system for obtaining information on land use and changes in land use. The data cover a wide range of information – from the transport network (roads, railways) and orthophotos to protected areas.

A complete list of collected spatial data can be found in [Annex 5](#).

Milestones and Deliverables

C1, Sub 1 Milestones:

Establish exhaustive list of user institutions/experts in LC/LU field

Milestone is achieved in 07/2022

Refine list of policy domains for which implementation of LC/LU information are needed

Milestone is achieved in 07/2022



Annexes:

Sub-action 1. Compilation of user requirements (MESD)

1. Report on the LIFE CROLIS questionnaire (available only in Croatian language)
2. Report on the LIFE CROLIS questionnaire – Local and regional authority units (available only in Croatian language)
3. List of policies (available only in Croatian language)
4. List of potential stakeholders (users/institutions/experts) (available only in Croatian language)
5. List of collected relevant spatial data (available only in Croatian language)