



DELIVERABLE

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Project full title	Rich Internet MAPping tool
Title of deliverable	Test Plan
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Work Package	WP4
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DELIVERABLE PRESENTATION

This deliverable is associated to Work Package 4 Evaluation and Test, of RIMAP project. The aim of this WP is to validate the Mapping-Tool.

The different modules will be checked and different test typologies will be done:

- Acceptance test, verifying that the functionality is developed.
- Functional test, following use cases described in the definition of requirements
- Integration test ensures the proper integration of the different modules of the application.

This document proposes a Test Plan in order to check all the functionalities of the Mapping Tool <http://tool.rimap.aidico.es> and report the bugs to sergio.munoz@aidico.es



TEST PLAN

1. Introduction

Web Mapping Tool offers many functionalities which may be tested to validate them. Following this test plan, developers aim to detect bugs in order to solve them before to launch the Tool.

The test plan is divided into several Areas:

- User mode.
- Indicators selection.
- Study Area.
- Map visualization.
- Graph visualization.
- Indicators Analysis.
- Outputs.

A bug form has been included in this report to be filled by the users once they detect some bugs.



User Mode

Two user modes have been clearly differentiated depending on the user profiles:

- Basic Mode. This mode should be quite simple, offering the most important functionalities.
- Expert Mode. This mode will integrate all the possibilities, integrating some analysis functionalities.

The following issues (in order) must be checked:

1. Default Mode.
In the first access to the mapping tool, Default mode will be the Basic Mode. However, in the following access, Default Mode will be the last mode.
2. Basic Mode.
 - a. Indicators are clustered by theme. Only Core indicators are shown.
 - b. No settings buttons are shown:
 - i. Map settings button.
 - ii. Legend settings button.
 - iii. Graph Settings button.
3. Expert mode.
 - a. Indicators are clustered by theme, policy or project.
 - b. All the settings buttons are shown.



Indicators Selection

The indicators Selection must be done in three steps: Which, Where and When.

The following issues (in order) must be checked in the Basic Mode or Expert Mode:

1. Select an indicator.
2. Pushing the More Info Button, a window should be opened with a detailed description of the Indicator.
3. About NUTS levels, will be active those for which data are available.
4. By Default, NUTS Level will be the lowest level.
5. If there is data available for several years, the Time slider will keep the possibility to change between them. By Default, year selected will be the last available.

These steps must be repeated selecting other indicators. When another indicator was selected, if there is no data available for the NUTS level selected, a message should appear.



Study Area

The following issues (in order) must be checked in the Basic Mode:

1. Study Area Selection.
 - a. By Default, Study Areas available are EU28+4, EU28, EU15 and European.
 - b. Changing the Study Area Selected, the Map and the Graph will refresh.

2. New Study Area.
 - a. *Save Current Selection* option should appear.
 - b. Click onto the map or in the Regions Tree over the regions which should form the new study area.
 - c. Unselect onto the map or in the Regions Tree over those regions which shouldn't form the new study area.
 - d. Push over *Save Current Selection*, and insert the New Study Area Name.
 - e. Change to a default Study Area.
 - f. Delete the New Study Area.

The following issues (in order) must be checked in the Expert Mode:

1. Study Area Selection.
 - a. By Default, Study Areas available are EU28+4, EU28, UE15, European, Alpine Space, Atlantic Area, Baltic Sea Region, Central Europe, Mediterranean (MED), North Sea, North West Europe, South East Europe and South West Europe Danube Region.
 - b. Changing the Study Area Selected, the Map and the Graph will refresh.



Map Visualization

The following issues (in order) must be checked in the Basic Mode:

1. By Default, Map is not showing any indicator.
2. Select an indicator.
3. Map will refresh painting the data over the Study Area selected.
4. Test if the map is correct regarding the data mapped taking account the indicator typology: absolute, relative, and typology.
 - a. Absolute data: A dot with a size proportional to the value. Two colours (positive and negative) will be used.
 - b. Relative data: The region will be painted with a variation of colours (from light to dark).
 - c. Typology data. The region will be painted with an assigned colour (one by typology).
5. Pan and Zoom buttons should be tested.
6. Pan and Zoom handled by the mouse should be tested.
7. Regions will be lighted when mouse over them.
8. Legend Window should be dragged.

The following issues (in order) must be checked in the Expert Mode:

1. Map Settings.
 - a. Push the Map Settings button.
 - b. Check the Capitals options: shown or not, symbol, font, size and color.
 - c. Check the Region borders options: shown or not, size and color to each NUTS Level.
2. Legend Settings.
 - a. Push the Legend Settings button.
 - b. Taking account the indicator typology, different issues can be configured:
 - i. Absolute data: Change the colour for positive and negative values.
 - ii. Relative data:
 1. Modify the number of Ranges.
 2. Change the Ranges calculation method.
 3. Change de Color Scheme between the default schemes.
 4. Create a new Color Scheme.
 - iii. Typology data.
 1. Change de Color Scheme between the default schemes.
 2. Create a new Color Scheme



Graph Visualization

The following issues (in order) must be checked in the Basic Mode:

1. By Default, Graph selected is Bar Chart and is not showing any indicator.
2. Select an indicator.
3. Graph will refresh painting the bar chart.
4. Test if the graph is correct regarding the data mapped taking account the indicator typology: absolute, relative, typology.
5. Regions will be lighted when mouse over them.
6. Check all the graph typologies: pie chart and line chart.

The following issues (in order) must be checked in the Expert Mode:

1. Bar Chart Settings.
 - a. Show or not average line.
 - b. Show additional data for other two years.
 - c. Sort data by region name and value.
2. Pie Chart Settings.
 - a. Show additional data for other two years.
 - b. Select the number of sectors based on several criteria: Number of total sectors, sectors with a lower indicator value than a baseline value and sectors which added arises to a baseline value.
3. Line Chart Settings.
 - a. Show or not average line.



Indicators Comparison

The following issues (in order) must be checked in the Basic or Expert Mode:

1. Select the main indicator.
2. Select the secondary indicator.
3. Automathically, Graph type selected will be scatter.
4. Graph will refresh painting scatter.
5. Test if the graph is correct regarding the data mapped.
6. Map will refresh painting both indicators in a different way depending of the data typologies.

Indicator 2: Indicator 1:	Absolute (A)	Relative (R)	Typology (T)
Absolute (A)	<i>Ratio 1A/2A: area + col.var. based on ratio</i>	1A: dot + size prop. 2R: area + col.var.	1A: dot + size prop. 2T: area + col.diff.
Relative (R)	1R: area + col.var. 2A: dot + size prop.	1R: area + col.var. 2R: area texture	1R: area + col.var. 2T: area texture
Typology (T) (qual. data)	1T: area + col.diff. 2A: dot + size prop.	1T: area texture 2R: area + col.var.	1T: area + col.var. 2T: area texture

7. Test if the map is correct regarding the data mapped.
8. Regions will be lighted when mouse over them.
9. Legend Window will show information about both indicators.



Output

The following issues (in order) must be checked in the Basic Mode or Expert Mode:

1. Select an indicator.
2. Export:
 - a. Push over the Export Button.
 - b. Check all the formats available: .pdf, .png, .jpg and .xls.
3. Print:
 - a. Push over the Print Button.
4. Share:
 - a. Push over the Share Button.
 - b. Several options are available and must to be checked: copy the link, send the link by mail, send the link by social networks (facebook, twitter, linkedin).



Annex I. Bug Report Form

Date:			
Bug Name:			
Indicator:		NUTS Level:	
Year:		Study Area:	
Functionality:		User Mode:	
Web Browser:		Screen Resolution:	
Bug Description:			