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**data and diagnostic tools**

## DESCRIPTION OF TOOLBOX ELEMENTS – DATA AND DIAGNOSTIC TOOLS

<b>Energy Atlas and TRANSFORM tool</b>	
<b>Purpose of the element</b>	The energy atlas started in Amsterdam and became a national project. It maps the energy consumption, network and (renewable) energy potentials to get a grip on the energy context. The data is detailed and easily accessible. The TRANSFORM tool is developed in de TRANSFORM-project to work and play with the available data during the energy planning and spatial development process. It's meant for decision support and informed dialogue. Part of the tool is the setting of measures, scenario making and cost and benefit calculation.
<b>Description of the element</b>	The energy atlas consists of about 90 maps. Half of them are about the existing situation, the other half is about the potential for more sustainable solutions. Part of the energy atlas are the current energy use, sources for sustainable energy, and relevant characteristics of the (built) environment. Most of it is open data and can be used by anyone.  The TRANSFORM-tool makes the real data easily accessible in a visual and playful model. It is interactive, user can select, calculate, formulate its own measures and scenario's and set the context in time and trends. Sixteen measures are predefined. Results of the measures are given for energy consumption, costs, emission and renewables.
<b>Key benefits</b>	Data Treasure / Energy and context 90 maps / existing and potential Tool to integrate data / play and decision support Upscaled to national level / Energy atlas
<b>Status (planned/in-use)</b>	In use
<b>More info</b>	<a href="http://www.nationaleenergieatlas.nl">http://www.nationaleenergieatlas.nl</a> <a href="http://maps.amsterdam.nl/?LANG=en">http://maps.amsterdam.nl/?LANG=en</a>
<b>City</b>	Amsterdam and Zaanstad

<b>Geoportal</b>	
<b>Purpose of the element</b>	GeoPortal is online GIS tool with complete spatial and partial socio-economic data for the whole Zagreb area. It provides access to spatial information from all planning documents.
<b>Description of the element</b>	All existing and planned infrastructure systems and energy generation facilities are displayed.  The intention is to include energy consumption and supply data. In the first phase, Zagreb will implement/map existing consumption data and define procedure for future updates of relevant energy demand and



	supply. In this way insight on energy use will be integrated and available for planning process.
<b>Key benefits</b>	Hotspot for Zagreb spatial data infrastructure Layout of information from all planning documents Displays existing and planned infrastructure Integrates cadastral plan Provides fast access to information when planning projects
<b>Status (planned/in-use)</b>	In-use
<b>More info</b>	<a href="https://geoportal.zagreb.hr/">https://geoportal.zagreb.hr/</a>
<b>City</b>	Zagreb

<b>The Assumptions for Plan of Supply with Heat, Electricity and Gas Fuels</b>	
<b>Purpose of the element</b>	The Assumptions for Plan of Supply with Heat, Electricity and Gas Fuels are an inventory of all energy systems and forecast on energy demand. This document in its amended form will be a digital model of the city.
<b>Description of the element</b>	The database created for the Assumptions for Plan of Supply with Heat, Electricity and Gas Fuels will describe all energy systems in digital form easy available for everyone.
<b>Key benefits</b>	Database describes both the city's current energy situation and the energy forecast, including: 261 balancing areas; Population changes; Energy demand; Balancing demand taking into account building stock changes; All relevant data on the level of the city, its 18 districts and balancing areas.
<b>Status (planned/in-use)</b>	In-use
<b>More info</b>	<a href="http://infrastruktura.um.warszawa.pl/">http://infrastruktura.um.warszawa.pl/</a> <a href="http://www.um.warszawa.pl/en/">http://www.um.warszawa.pl/en/</a>
<b>City</b>	Warsaw

## Open Government Data

<b>Purpose of the element</b>	Providing a comprehensive set of data in different formats for the population, businesses and scientific community. Could be used for the development of apps as well as for GIS analysis.
<b>Description of the element</b>	<p>Relevant data range from statistics and geographic data or traffic and transport to economic figures. The data is published under a Creative Commons Licence (CC BY 3.0 AT). It can be used without any further restrictions, provided that the source is stated clearly.</p> <p>There are a lot of building data available – for instance a 3d model of the basic shape of all buildings as well as the terrains or zoning information or the newest orthophotos. Vienna provides also energy data as open data in different formats (geodata or tables) about:</p> <ul style="list-style-type: none"> <li>• Potentials of renewables (geothermal, solarthermal, pv, wind)</li> <li>• Power plants</li> <li>• Innovative energy projects</li> <li>• Existing subsidised renewable facilities</li> <li>• Basic energy data about energy consumption, share on renewables, energy generation</li> </ul> <p>All these data provide a good basis for energy assessments.</p>
<b>Key benefits</b>	
<b>Status (planned/in-use)</b>	In Use
<b>More info</b>	<a href="https://open.wien.gv.at/site/open-government-data-in-vienna-2/">https://open.wien.gv.at/site/open-government-data-in-vienna-2/</a>
<b>City</b>	Vienna