

## Information about the lecture

---

<b>Speaker</b>	Prof. Dr. Martina Klärle, Dipl.-Geogr. Achim Siehl
<b>Title</b>	The Online Green Roof Cadastre of Marburg city
<b>Group of topics</b>	June 20 <sup>th</sup> , 2017 Rainwatermanagement
<b>Language</b>	German
<b>Content</b>	<p>Is your house qualified for roof greening? Does it have an effect to the urban climate? The first intelligent green roof cadastre of Germany doesn't consider only the general suitability for green roofing, it also provides information about fine dust absorption, CO<sub>2</sub> absorption and sewage savings. There are also plant suggestions depending on the slope of roof, solar radiation and substrate height.</p> <p>The green roof cadastre of the university city of Marburg has been developed by Prof. Dr. Martina Klärle in cooperation with the Klärle GmbH in 2016.</p> <p>With area-wide available high-resolution geo-basic-data the individual location factors for all buildings in Marburg were identified and the suitability for a roof greening was accurately calculated.</p> <p>The green roof cadastre Marburg rates the greening suitable for all roof subareas. The results are represented in an interactive web map. For every roof individual information such as CO<sub>2</sub> absorption, fine dust absorption, moisture absorption or the saving of sewage fees depending on solar radiation and slope will be calculated. Individual plant lists show the owners concrete proposals for suitable plant types, their characteristics and planting information.</p> <p>The green roof cadastre of Marburg is the first intelligent system of its type in Germany. The calculations can be operated for all roofs of Marburg in the interactive web map. The people can detect if their roof is suitable for roof greening. An individual roof analysis of the static and weight reserve couldn't be replaced by the green roof cadastre. Link to the green roof cadastre: <a href="https://www.gpm-webgis-10.de/geoapp/gruendachkataster/marburg/">https://www.gpm-webgis-10.de/geoapp/gruendachkataster/marburg/</a></p>