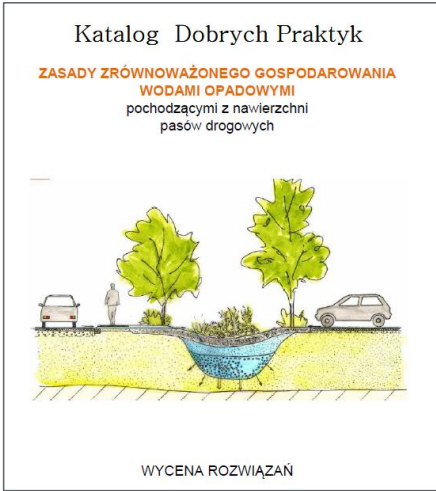


FACTSHEET RISK REDUCTION MEASURES	
<b>Price estimation for solutions from the “Good Practice Catalogue - the Rules for Sustainable Management of Rainwater from Road Surface”</b>	
<b>Where was it implemented?</b>	
Lower Silesia, Poland	
<b>Fields of action</b>	
<ul style="list-style-type: none"> <li>Settlement area</li> </ul>	
<b>Related to measure from the catalogue of measures</b>	
<ul style="list-style-type: none"> <li>Blue and green infrastructure (no 61)</li> </ul>	
<b>Area characterisation</b>	
<ul style="list-style-type: none"> <li><b>Area type:</b> rural / urban</li> <li><b>Landscape type:</b> flat / hilly / mountainous</li> </ul>	
<b>Problem</b>	
Past floods, that happened in Wrocław after heavy rain events, contributed to numerous damages in the city. After these events, it can be seen that a functioning of the city systems like e.g. transport or communication has been disturbed and numerous material losses have occurred.	
<p>Source:  <a href="https://www.wroclaw.pl/srodowisko/files/dokumenty/8811/Katalog%20dobrych%20praktyk-drogi-wycena%20rozwi%C4%85za%C5%84.pdf">https://www.wroclaw.pl/srodowisko/files/dokumenty/8811/Katalog%20dobrych%20praktyk-drogi-wycena%20rozwi%C4%85za%C5%84.pdf</a></p>	
<b>Description and aim</b>	
<p>The “Price estimation for solutions from the Good Practice Catalogue” contains 36 schemes (for 19 measures, for some of the measures there are 2 or 3 schemes). Each scheme contains a description of the measure’s components and a table with the prices for each component and the total amount for each measure (in PLN) proposed in the Good Practice Catalogue. The estimated costs vary between 150 and 41,500 PLN (33 - 9,225 Euro). The given costs are estimated for a specific unit size (e.g. 1 m or 1 m<sup>2</sup>), so in order to calculate the total cost of the investment it is necessary to adapt it to the real size of the planned investment.</p> <p>This elaboration (Price estimation for solutions from the “Good Practice Catalogue”) is a part of the overall concept shown in the factsheet “Good Practice Catalogue - the Rules for Sustainable Management of Rainwater from Road Surface.</p>	
<b>Effect of measure</b>	
<ul style="list-style-type: none"> <li>Prevention and protection by capturing rainwater (including heavy rainfall).</li> <li>Some solutions contribute to water purification.</li> </ul>	
<b>Description of implementation</b>	
<b>Effect horizon:</b> short-term to long-term	<b>Involved stakeholders:</b> spatial planners, designers and engineers
<b>Implementation:</b> January 2019 / ongoing	<b>Initiator / responsible</b> Wrocław City Hall (Urząd Miejski Wrocławia)

Lessons-learned	
<b>Main success factor:</b> Information of residents about the advantages of these solutions (e.g. the possibility of retaining rainwater in-situ) and the positive impacts on the quality of their life. In addition, risk of losses caused by heavy rainfall are mitigated.	<b>Main challenge:</b> Authorities get information on the basis of which they can estimate the budget for future investments.  Simplification and facilitation of preparation of necessary project documents. Facilitating consultation between authorities and designers (engineers).
<b>Synergies / beneficial aspects:</b> Facilitating consultation between authorities and designers (engineers). Schemes and tables simplify finding the best solution for a specific location.	<b>Conflicts / Constraints:</b> The given costs are estimated for a specific unit size (e.g. 1 m or 1 m <sup>2</sup> ), so in order to calculate the total cost of the investment it is necessary to adapt it to the real size of the planned investment.
Key message to others starting with a similar task	
“Public acceptance of the measures is high due to damages caused by past flood events and the benefits of the measures as well as visual value.”	
Contact	
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