



Urban Calculator Workshop Proposal

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<u>Proposers' Institution (if any)</u>	Chalmers University/ Urban Calculator AB
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<u>Proposers' Short Bio</u> (text up to 200 words)	<p>Evgeniya Bobkova is a postdoctoral researcher at Spatial Morphology Group, Chalmers University, and a co-founder of Urban Calculator AB.</p> <p>She is an architect and urbanist with international experience on a variety of multi-scalar urban projects ranging from regional spatial strategies and master planning to local scale public space projects.</p> <p>As a member of Spatial Morphology Group at Chalmers she specializes in the relation between spatial form and urban processes, methodologically focusing on analytical and quantitative methods.</p> <p>Besides that, she has a strong focus on multidisciplinary aspects of urban design, being able to link built form to landscape design and transport planning and mobility.</p>
<u>Workshop Title</u>	Urban Calculator: design support tool for informed decisions in the urban design and planning process
<u>Aim and Objectives</u> (describe the aims and objectives of the Workshop, indicating the scope of the workshop as well as why you think that this is a good topic for the 14 th SSS)	<p>Urban Calculator is a commercial evidence-based design support tool for urban practitioners, easy and user-friendly, that can be used in different phases of the design process. During the first explorative sketches feedback is given to make informed decisions, revise the design and rerun the spatial analysis until the project's ambitions are met.</p> <p>The analysis engine of the tool is based on Space Syntax theory and the open-source GIS-based tool PST (Place Syntax Tool). It includes centrality analysis (angular betweenness and angular integration), accessible building density, accessibility to services and proximity analyses.</p> <p>The aim of the half day workshop is to introduce the tool to a wider audience, but specifically urban practitioners. The workshop objective is to demonstrate participants how centrality and accessibility analyses can be used as a part of design loop to quickly measure potential effects of their spatial interventions and to compare different design alternatives.</p>
<u>Structure</u> (describe the format of the workshop,	<ol style="list-style-type: none"> 1. Presentation 2. Demo session

<p>identifying any keynote speakers, technical information, and so on)</p>	<p>3. Set of design exercises 4. Discussion</p>
<p>Duration (specify the duration of the workshop- whether it is half or full day)</p>	<p>Halfday</p>
<p>Specific Requirements (provide any specific requirements you may request from the organising committee for the implementation of the workshop)</p>	<p>No GIS expertise is needed since Urban Calculator runs advanced spatial analyses at the backend of the tool. Instead, Urban Calculator focuses on visualizing and communicating results. To install the tool for the testing session at the workshop, participants need to have Windows computers (or remote machine on their Mac computers)</p>