

How to use the 'Strategies for Urban Ecosystem Services Generation' Map

- Software used: Kumu (<https://kumu.io/>)

1. Open the map via the link shared with you

Link: <https://embed.kumu.io/0853bdea62a409d6dc7f00a636bc6457>

2. Map structure

2.1 Start screen

The first image you will see contains a mind-map and a legend that explains the colours in the map (Image 1)

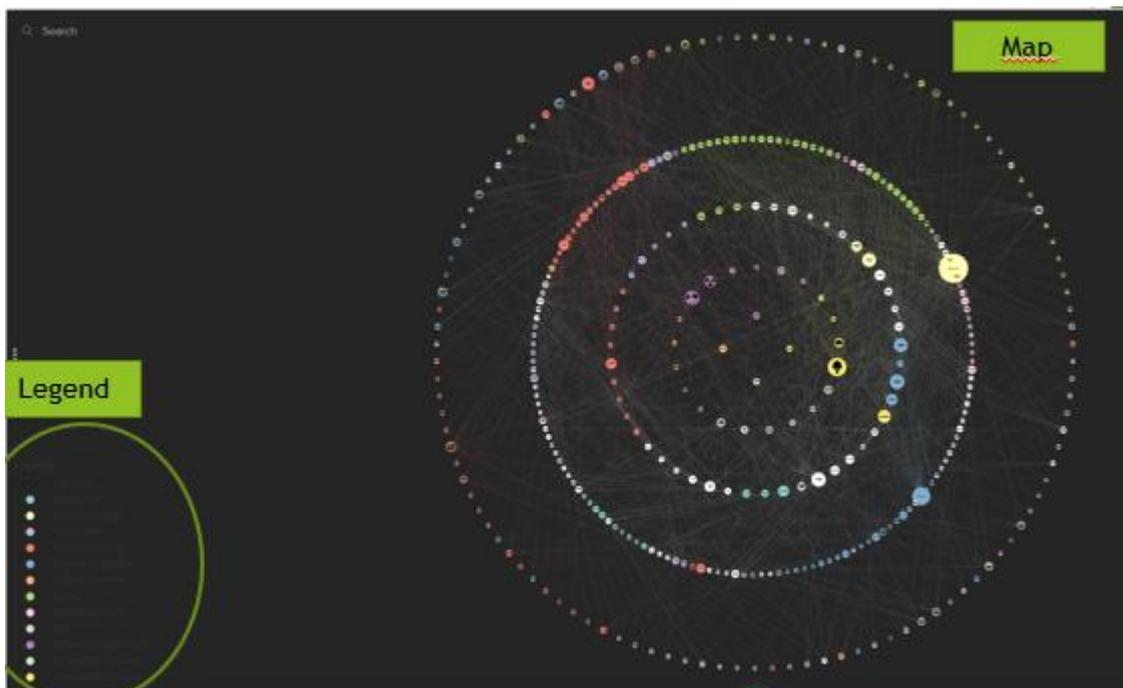


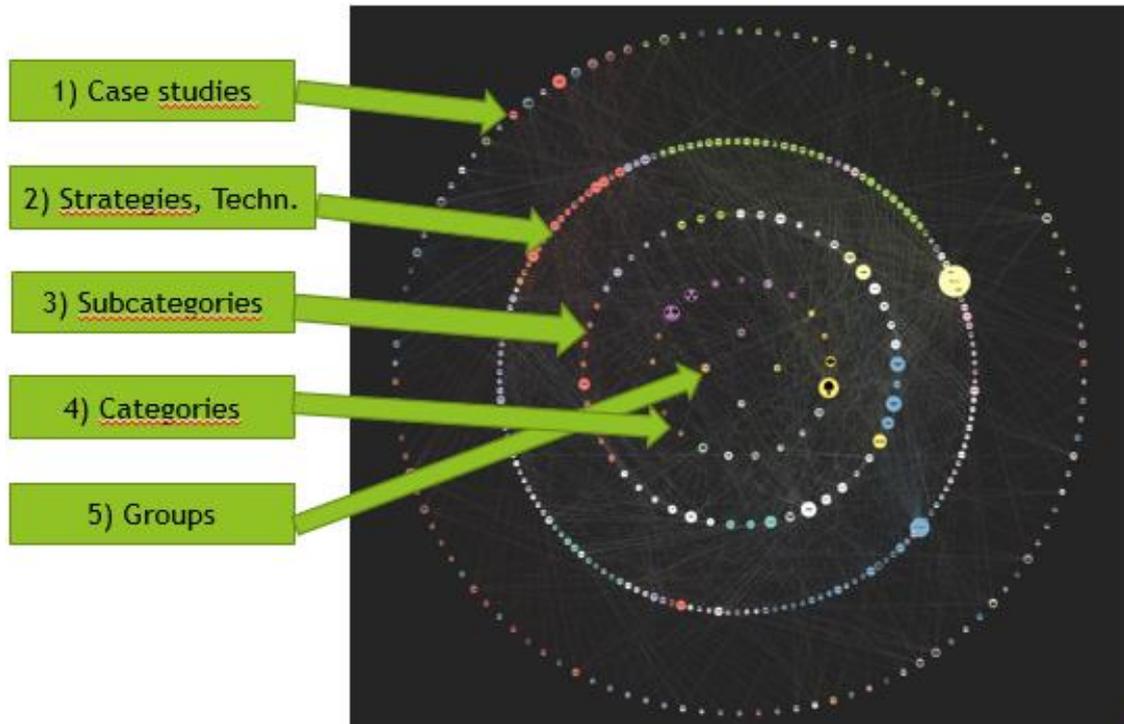
Image 1: Ecosystem Services mind-map (center/right side) and legend (bottom left side).

2.2 Map circles

The map itself consists of five increasing circles (see Image 2). The most inner circle (5) represents the four existing groups of ecosystem services (Provisioning Services, Supporting Services, Regulating Services, and Cultural Services). The second inner circle contains the 21 different ecosystem services categories for urban environments which are described in Maibritt Pedersen-Zari's book "Regenerative urban design and ecosystem biomimicry" (2018). Several categories require subcategories which are presented in the third inner circle. The categories and subcategories connect with the second outer circle which contains a thorough collection of existing and potential design strategies, methods, technologies and techniques for a sustainable urban development that produces ecosystem services. From

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there, selected case studies were added in the fifth circle that connect with various design strategies, methods, technologies and techniques, as well as in some cases with categories or subcategories.



3. Map functions

3.1 Element connections and sidebar

When hovering over an element (“bubble”) all its connections light up (Image 3).

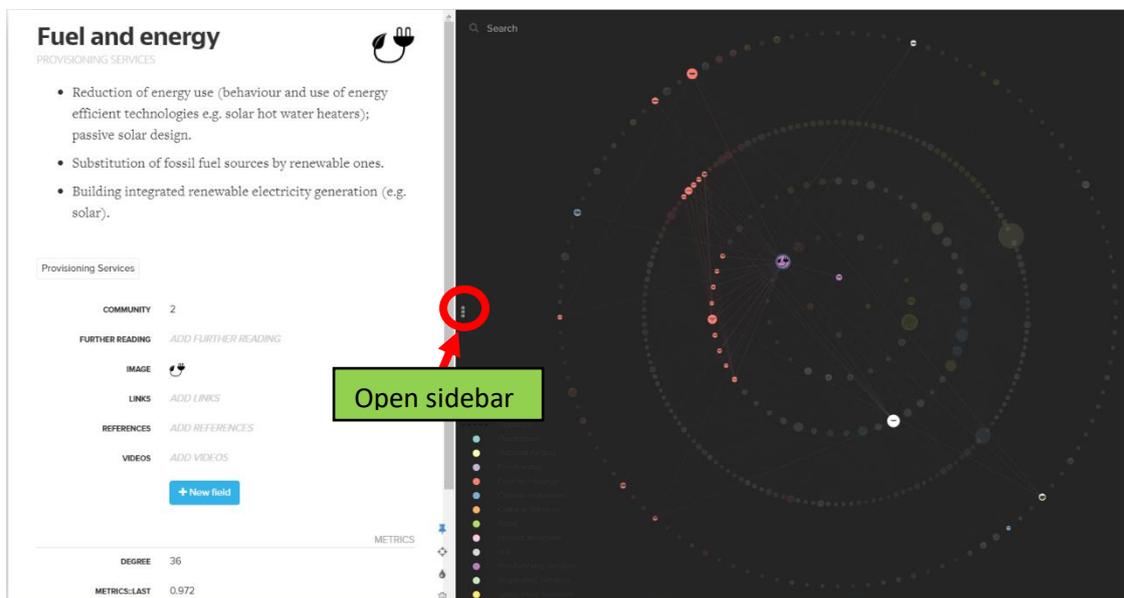


Image 3: Hovering over an element causes connected elements to light up. Clicking on an element allows to open the sidebar on the left side to learn more about the element.

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When clicking on the selected element you can open the sidebar by clicking on the three dots on the left side of the screen. The sidebar contains the element label, an image, a description, further reading and/or links and occasionally also a video (Image 4).

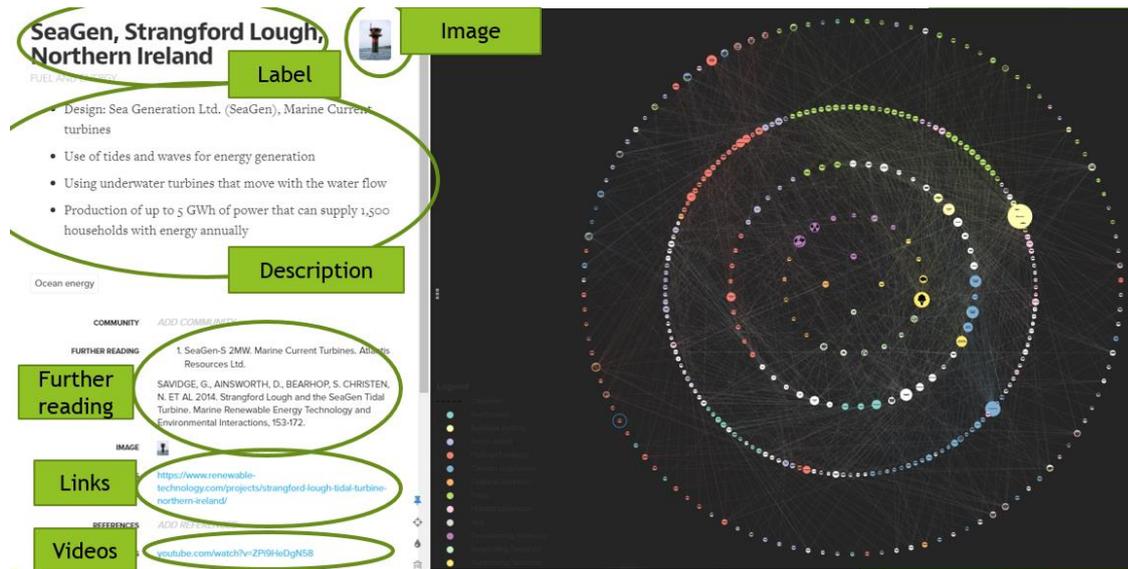


Image 4: The sidebar on the left shows the selected element label (here the example of “SeaGen, Strangford Lough in Northern Ireland” is presented), an image, a description, further reading and/or links and occasionally also a video.

3.2 Display of selected element connections

In order to better analyse the connections of one selected element you can click on the “focus” function on the right side and all not connected elements and connections disappear (Image 5).

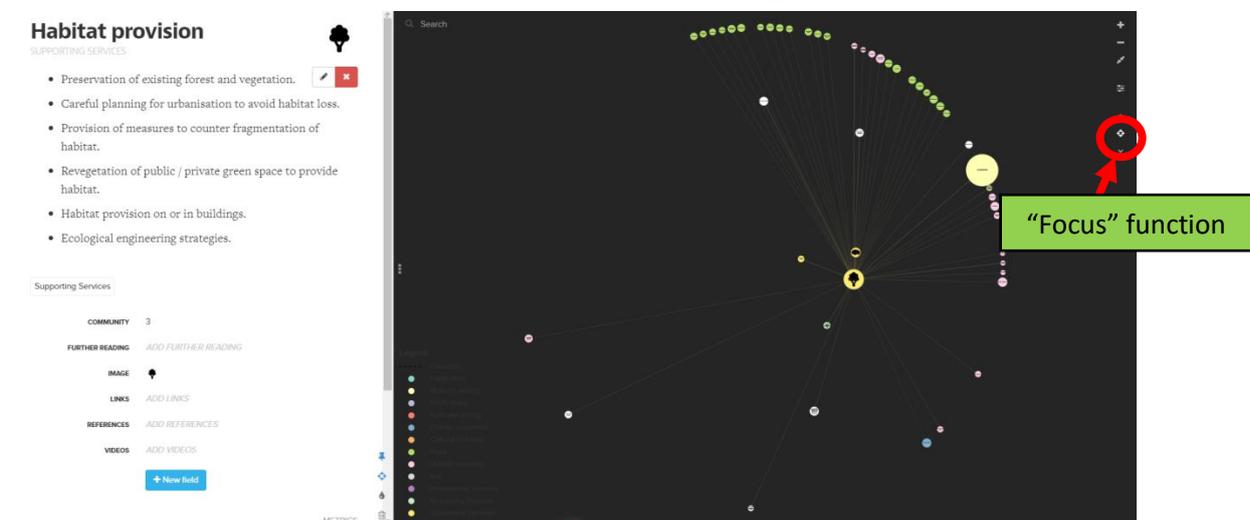


Image 5: The sidebar on the left shows the selected element label (here the example of “SeaGen, Strangford Lough in Northern Ireland” is presented), an image, a description, further reading and/or links and occasionally also a video.