

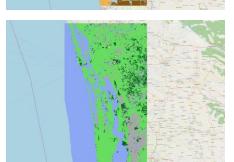
Use of TOSCA for development of flood module for Kochi

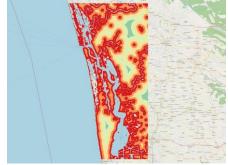
Kochi - Messina City Pairing

The Toolkit for Open Sustainable City Planning and Analysis (TOSCA) developed by HafenCity University Hamburg is a web-based, open-source Geographical Information System toolkit which helps translate large amounts of data into easily understandable spatial representation. This derives into an evidence-based consensus process for a diverse range of stakeholders from planners and regulators, to decision makers and citizens in general

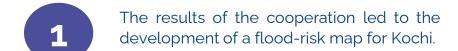
As part of the IURC Kochi/India – Messina/Italy city pairing, a minimal viable use=case on flooding was developed in TOSCA by the Digital City Science team at HafenCity University in cooperation with Cochin University of Science and Technology and University of Messina













The flood risk map shows on a scale from o-20 the areas of Kochi that are prone to flooding. Large part of the city close to the coast is subject to high risk of flooding.

This information is useful for policy makers and urban planners to better understand areas that require more attention in terms of mitigation & adaptation measures. The map can also be used to identify appropriate locations for the installation of surface water level sensors as early warning systems

