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**Flood resilience in Urban areas by incorporating ‘Sponge City’ techniques, A case of Aluva**

Climate change and continuous urbanization results in vulnerability towards urban flooding. A flood resilient city is one which can adapt to a flood event efficiently without getting the city’s functionality getting compromised.

(deBrujin, 2004)describes flood resilience as the “ability of a system to recover from the flood impacts in the area”.

There are various methods of flood resilience in practice all around the world. Flood concerns are rising for urbanizing areas. This gives the scope for finding a better solution for urban floods. Sponge city is a method for flood resilience which combines the practices of Low Impact Development and Water Sensitive Design. The various methods to develop a city into sponge city is studied.

Aluva, a fast urbanizing satellite town of Kochi is facing rising flood concerns which provide an opportunity to identify natural methods to overcome flood in the future. These natural methods can be identified for Aluva by finding out the deficiencies in spatial requirements as a sponge city for Aluva. This helps to develop the guidelines for developing Aluva as a Sponge City.

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