

Action plan identifies the climate challenges that City of Zadar is facing and proposes a range of measures to increase nature-based solutions in order to adapt to the expected climate changes.

Since heat and floods are most significant climate challenges for Zadar, City plans to implement three key measures that are estimated to make a major contribution to adaptation: greening/tree planting, improvement of the rainwater drainage system using natural based solutions and construction of permeable surface on parking lots and similar surfaces.



Natural Based Solutions Action Plan for City of Zadar



ANF d.o.o. Medulana 49, 51000 Zadar
tel: +385 1 3883 391 • e-mail: anf@anf.hr • www.anf.hr

2021.

Greening - tree planting

Till 2024, 220 trees will be planted in different parts of city. Types of most suitable trees will be chosen according to recommendations of the profession for each location. This way few more city parts will become pleasant shaded walksides and parks with cooling effect.



Implementation of retention-infiltration area within the stormwater drainage system

Under the larger Project for the improvement of the water and communal infrastructure of the Zadar Petručane agglomeration, the construction of 11 retention-infiltration areas in district Novi Bokanjac will be performed. Implementation of this measure will provide the final disposition of rainwater within the catchment area and infiltration in underground through retention points located at the lowest points of the area. Infiltration-retention points are interconnected by safety overflows so that in the period of heavy precipitation it is possible to redirect the overflow water to the first next point. Infiltration area is generally dry, except immediately after precipitation when water is retained only for a short period. The landscape will be designed with suitable free-growing greenery that will become rest and recreation area during the drought.

This project will ensure the protection of the drinking water resources of the nearby water pumping station, protection of large residential and business complex from flooding and enrichment of area with greenery.



Permeable surfaces

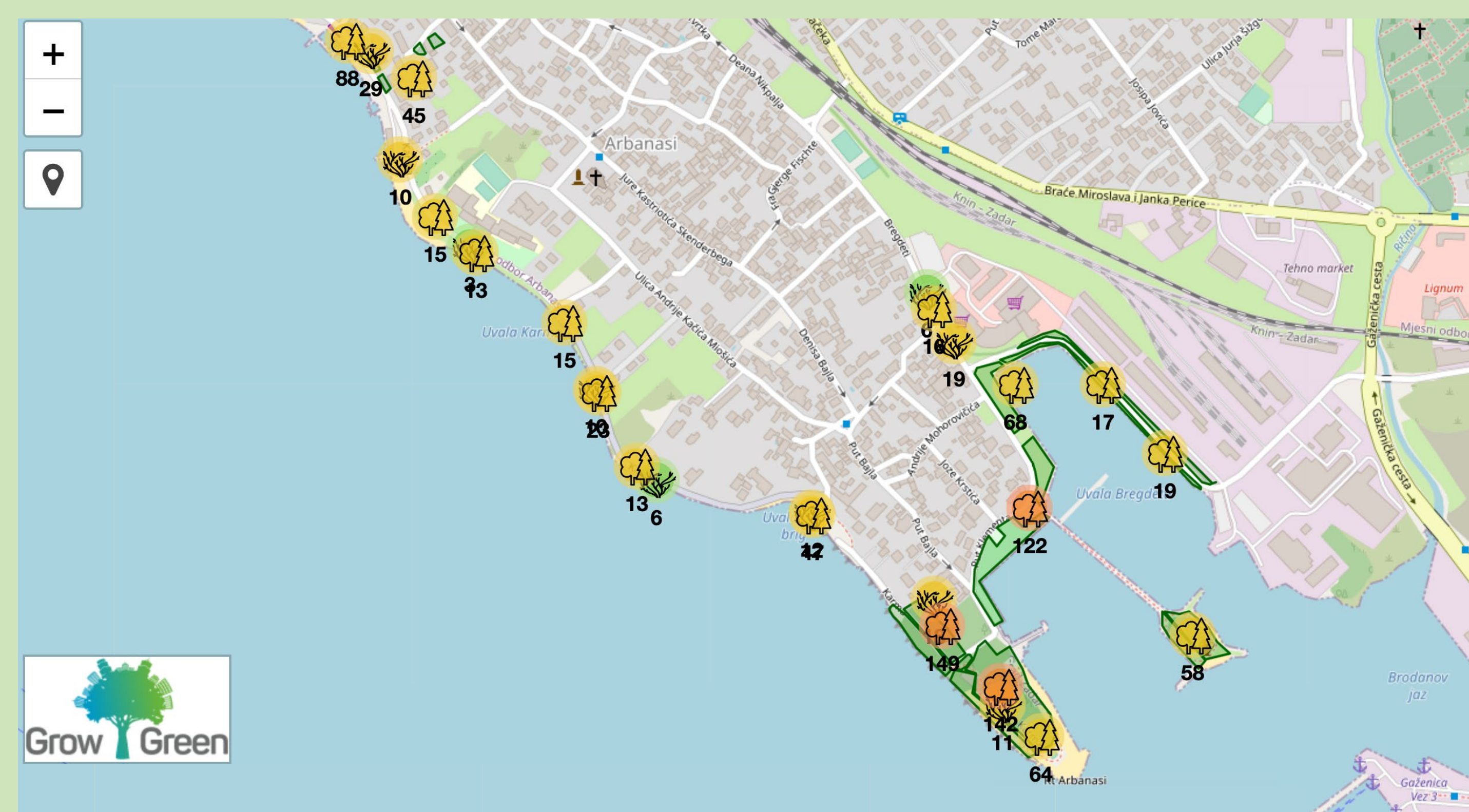
Permeable surfaces are planned on the parking lots, sidewalks and local roads for the purpose of reduction the amount of rainwater that reaches the stormwater drainage system and thus reduce the risk of flooding in urban area. Measure includes, whenever possible, replacement of existing concrete surfaces with permeable surfaces while performing of road maintenance or construction of new parking lots, sidewalks or roads.



Measures planned for implementation under NBS Action Plan

Green Cadastre

A map of green spaces in Zadar which development started in 2018. and within Grow green project has been upgraded with one more city area - Arbanasi. This publicly available GIS application is a base for long-term and sustainable planning of green areas in Zadar.



Pilot Project 1

Tree planting

33 trees are planted in densely populated residential area Red Houses. With the help of employees of the city's company for green areas, students of the Agricultural and Food School and citizens, this residential area became more beautiful and pleasant place for live. This is only the first step in the implementation of the city's plan of planting 220 trees by the end of 2024.



Pilot Project 2