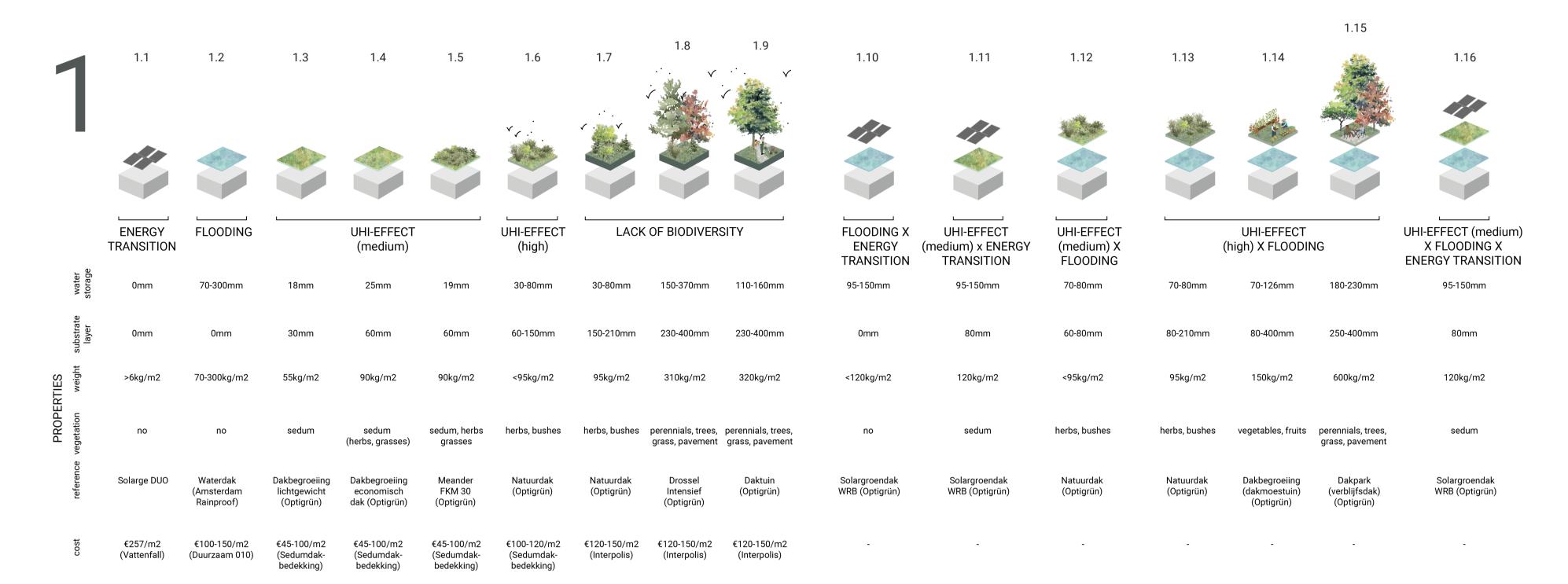
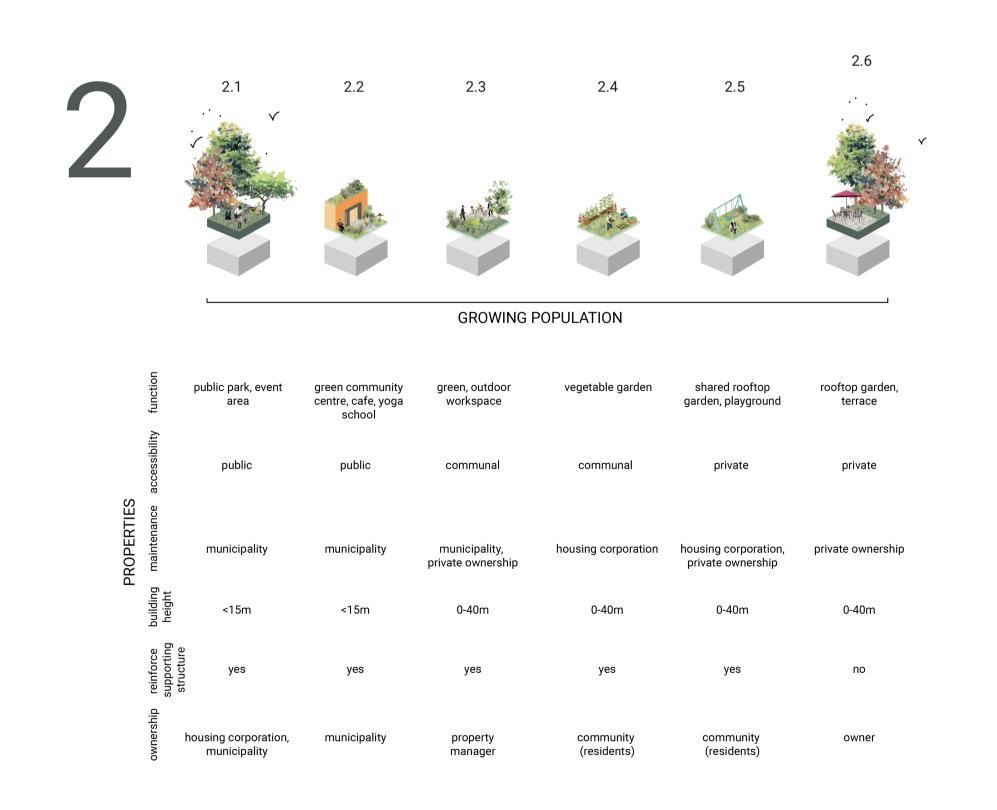




TOOLKIT DESIGN





Rotterdam's almost untapped roofscape offers an exceptional chance to solve large urban, and environmental problems cities are facing nowadays. Take for instance, climate change, energy transition, loss of biodiversity, and the shortage of public places. Therefore we should rethink flat roofs, and expose their potential. In many different ways, they could contribute to the development of a sustainable and resilient city in the future. Especially, multifunctional, green roofs are able to reduce heat stress, store (temporarily) water, purify the air, enrich biodiversity, and accommodate social functions, especially when there is a possibility to connect all those 'hidden', unused spaces in the city.

There are already a lot of initiatives in Rotterdam, that come up with all different ideas to fill in the 18 km2 of flat roofs we have at our disposal. However, there are a handful of flat roofs that are already transformed into green roofs (40.000 in 2019) (Rotterdam, 2022) for instance. This is just 0,2% of the available surface, in other words, almost nothing has transformed yet. If we want to prevent our cities from flooding, heat stress, and overcrowded public squares and parks, we need to do something with our roofs.

In the next 10 years, the municipality of Rotterdam aims for all potential flat roofs in the city center to transform into either green surfaces or surfaces that provide our city with renewable energy, by implementing solar panels. To achieve this ambition we need your help!

green facade

public, community, private

municipality, community,

house owner

housing corporation,

municipality,private ownership

The decision tree on the other page tells you what the potential of your roof is. The potential function of your roof is based on the type of space (whether you have a pitched roof, semi-flat roof, or a flat roof), the amount of surface available on your roof, the location of your roof (in a zone that suffers highly from heat stress or flooding), ownership of the roof (public, private, communal),

and access to the roof (indoor or outdoor). To release the (re)development of your roof, subsidies are available from the municipality. This is about 75-100 €/m2 depending on the multifunctionality of your future roof. When you are not able to transform your roof yourself, it is possible to outsource it to the municipality or another party.

CONNECTION

elevated walkway

public, community

municipality

housing corporation,

municipality

green bridge

municipality

housing corporation,

municipality

green pergolas: enrich, strenghten

connetions for flora and fauna

municipality, community,

housing corporation,

municipality,private ownership

house owner

When we are not going to do this together in the next few years, our urban, living environment will become more and more unpleasant to live and work in. So, rethink your roof!