



URBAN GREENUP NBS WEBINARS RE-NATURING URBANIZATION

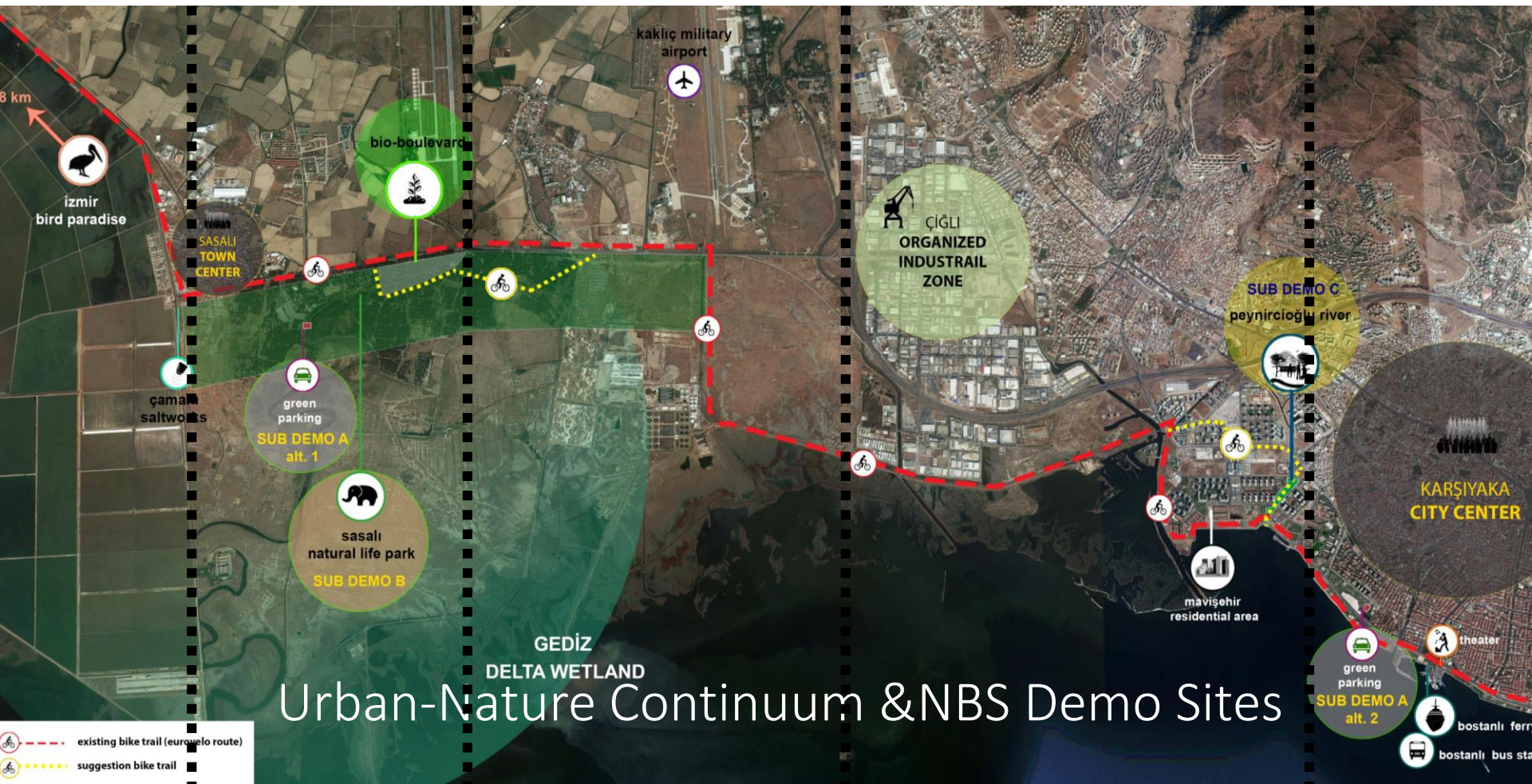
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Urban-Nature Continuum & NBS Demo Sites

Nature

Rural
SUBDEMO B

Suburban

General Urban
SUBDEMO C

Urban Center
SUBDEMO A

RE-NATURING URBANIZATION

List of Interventions

- Installation of Parklets
- Arboreal Areas around Car Parking Areas
- Cycle and Pedestrian Route in New Green Corridor
- Planting 4800 Cool&Shady Trees
- Urban Carbon Sink

Installation of Parklets



Cycle and Pedestrian Route



Urban Carbon Sink



Arboreal Areas around Car Parking Areas



Planting 4800 Cool&Shady Trees

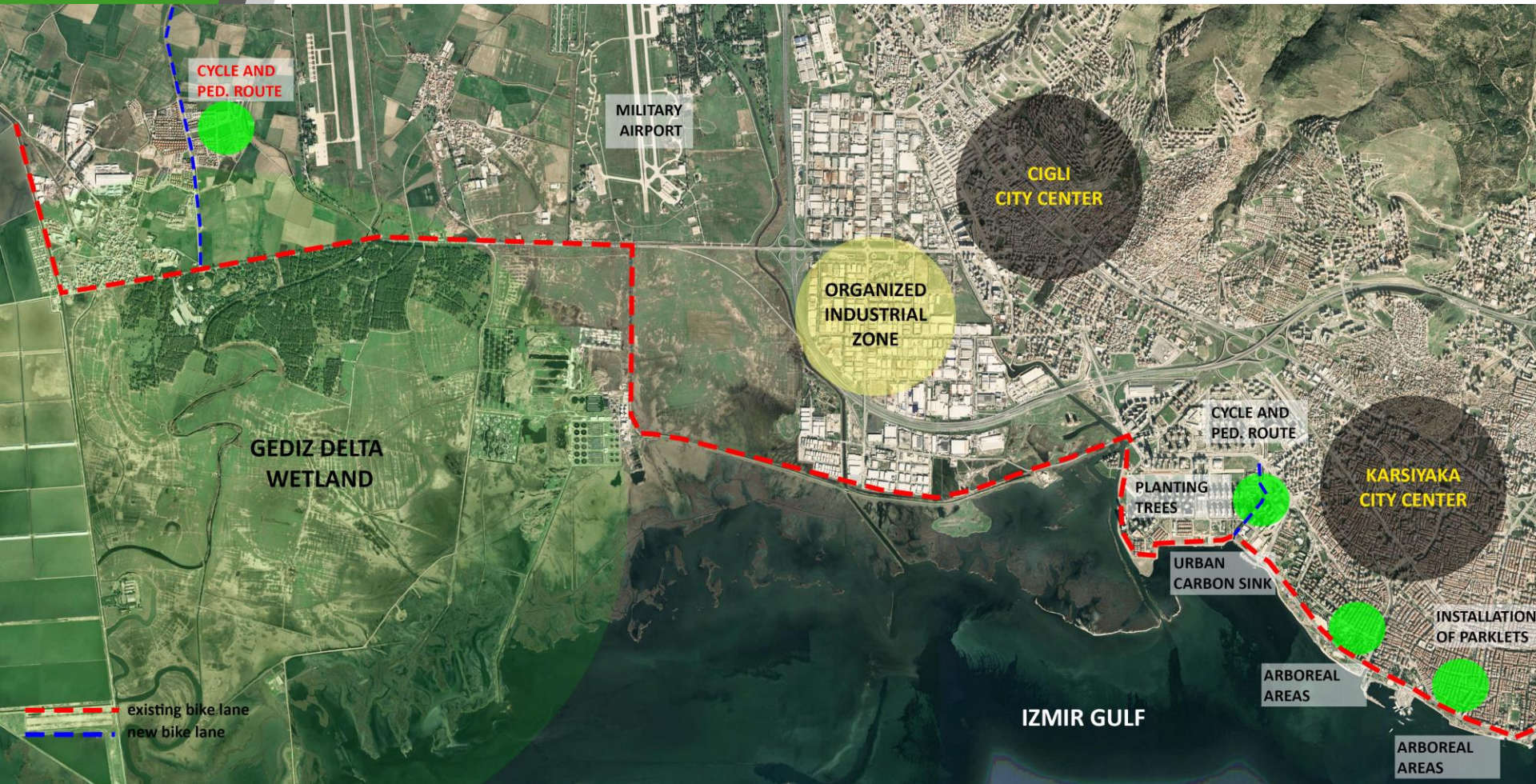


RE-NATURING URBANIZATION

General Impacts

The general impacts of re-naturing urbanization are:

- Reduction of air pollutants through increased deposition
- A number of co-benefits including, microclimate regulation through shading, habitat and food provision for biodiversity, and recreational and social ecosystem services
- Increase in community ties and creates public interaction opportunities
- Increased carbon sequestration and pollutant's removal
- Increased bike and pedestrian mobility,

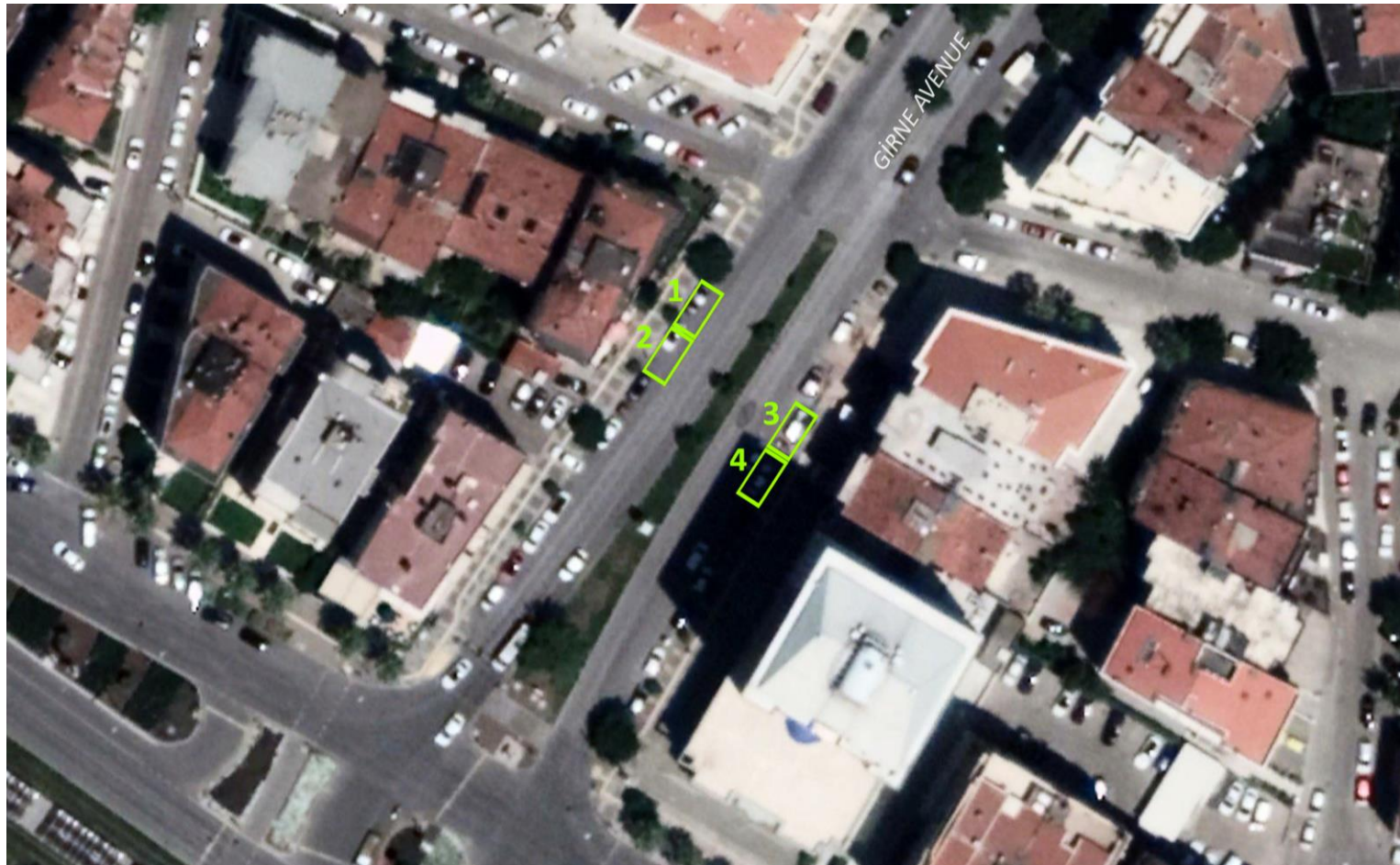


IAC4- Installation of Parklets in Girne avenue

Parklets are on-street units with siting equipment and plant containers. They are primarily designed to increase the amount of carbon sequestration as well as pollutant's removal with their plant cover. As some co-benefits, they are expected to attract some people to spend some time in a green space on a busy and dense urban fabric in Karşıyaka. They may also serve as somewhat cool spots through shading.

IAC4- Installation of Parklets in Girne avenue

Parklets will be deployed in Girne Avenue, which is one of the crowded shopping streets in highly urbanized Karşıyaka Metropolitan District. Girne Avenue is surrounded by high-rise buildings on both sides. There is always a busy vehicle and pedestrian traffic flowing both ways throughout the day.







Urban GreenUP- NBS Webinars Re-naturing Urbanization



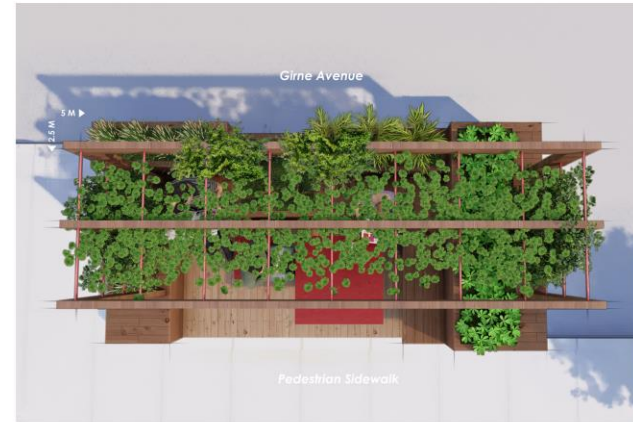
MODULE 1



MODULE 2



MODULE 3



IAC4- Installation of Parklets



Final Views of Parklet Units

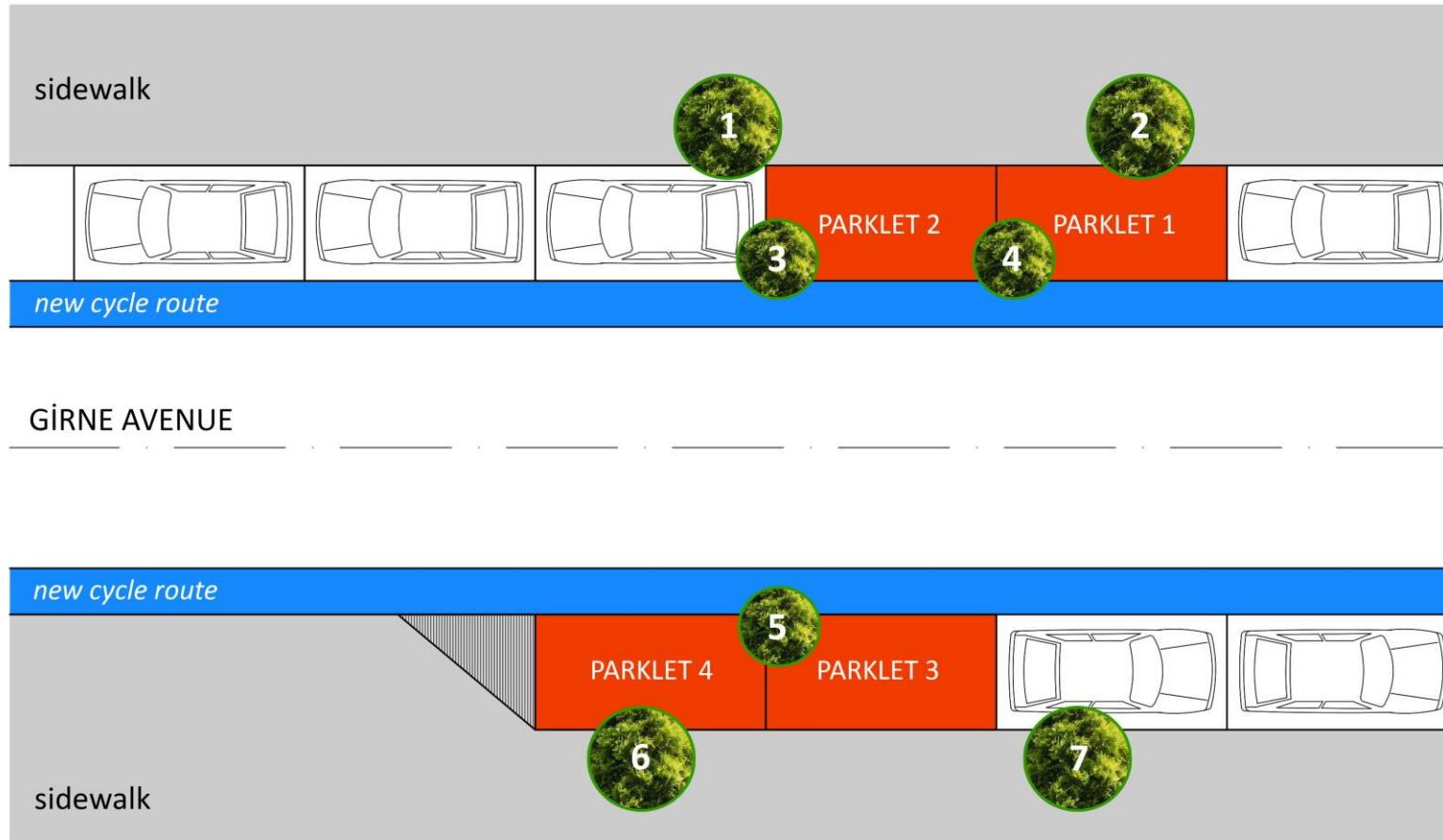


IAC3- Arboreal areas around Sasalı Natural Life Park, İzmir Vilayetler Evi car park area and Parklets in Girne Avenue

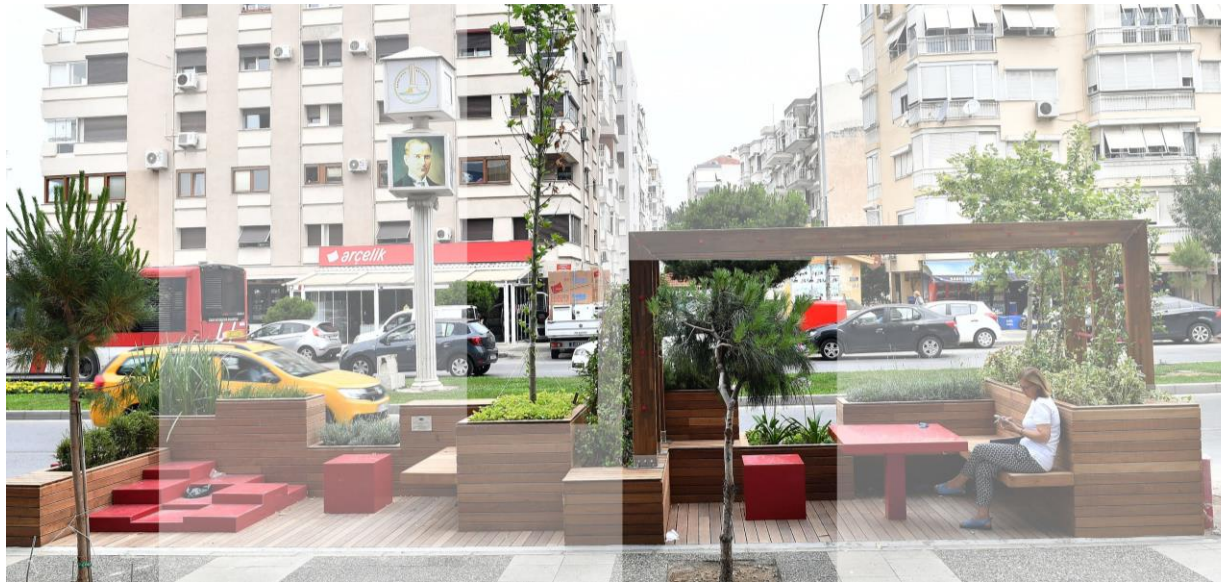
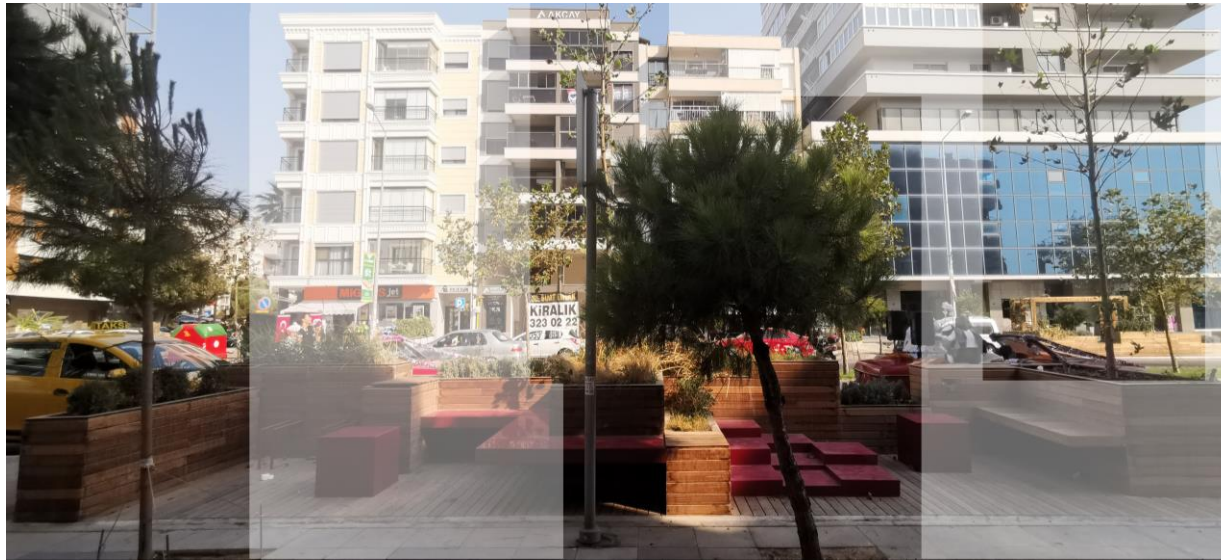
In order to beef up the cooling effect of the pocket parks (parklet) and green shady structures, some wide canopy and tall trees will be planted around them. These trees will provide shady spaces for city dwellers especially in hot summer months, habitat for insects and birds and also serve as stormwater interceptors.

IAc3- Arboreal areas around Sasalı Natural Life Park, İzmir Vilayetler Evi car park area and Parklets in Girne Avenue

7 trees (*Platanus orientalis* tetto) will be planted in **Parklet** areas in Girne Avenue



IAC3- Arboreal areas around Parklets and Car Parking Areas



Final Views of Trees around Parking Lots



Sasalı Natural Life Park Parking Lots

Vilayetler Evi Parking Lots

Iac1-Cycle and pedestrian route in new Green Corridor

It is planned to be formed a new bicycle and pedestrian green route in addition to 10.5 km long existing bike lane. The proposed green route offers a more comfortable, greener and sustainable connection at the northern end of the city. The proposed green corridor includes sustainable transportation options (cycling and walking).

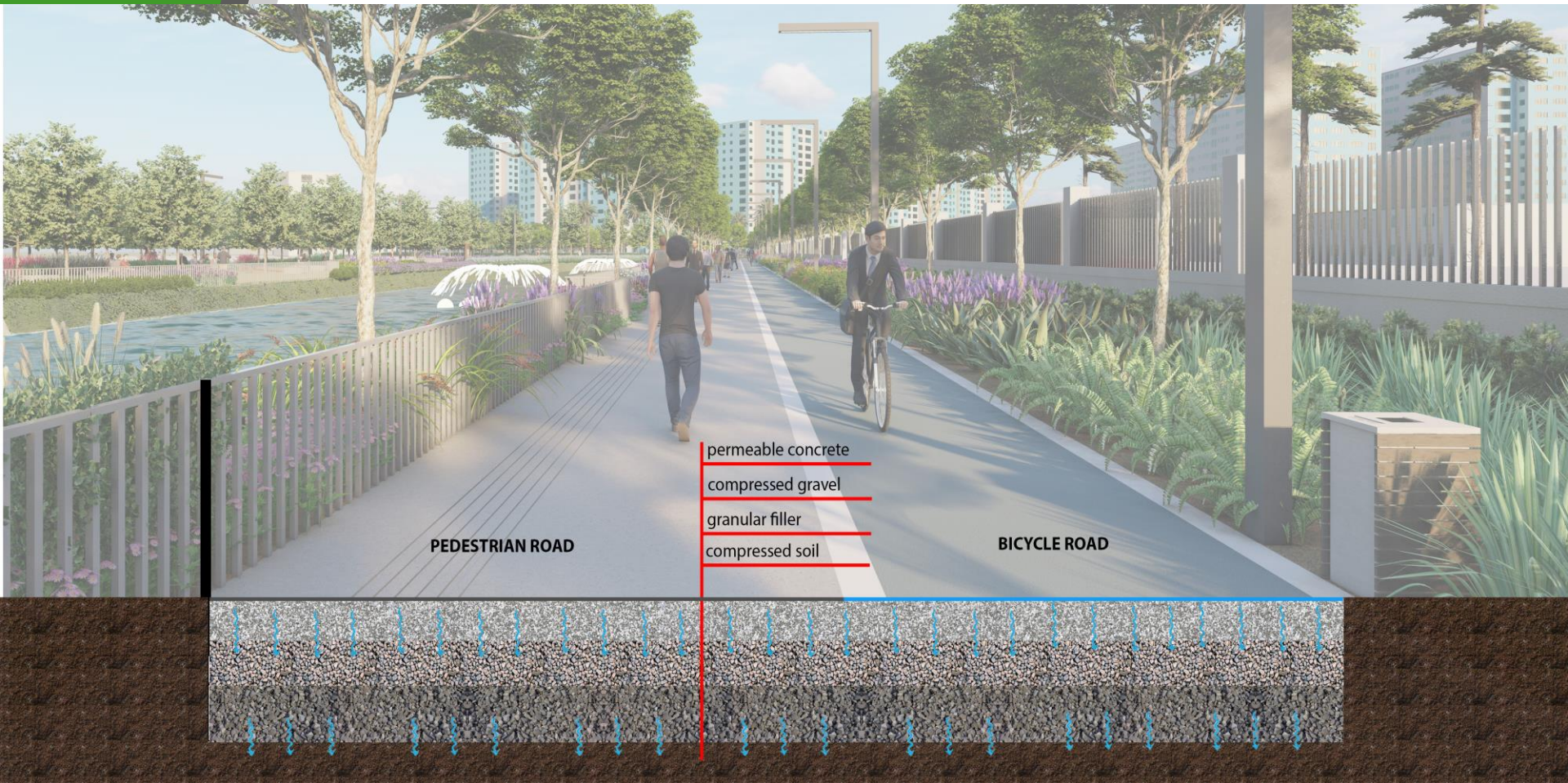
Expected impacts:

- a) Increased bike and pedestrian mobility,
- b) More carbon sequestration and pollutant's removal and
- c) a number of co-benefits including stormwater run-off mitigation, microclimate regulation through shading and evaporation, habitat and food provision for biodiversity and recreational services
- d) Installation of new green surfaces.

IAC1-Cycle and pedestrian route in new Green Corridor



The proposed bicycle and pedestrian route are comfortable, greener ,sustainable and permeable.



Final Views of Cycle and pedestrian route



View from Cycle and Pedestrian Road around Peynircioğlu Stream

Final Views of Cycle and pedestrian route



View from Cycle and Pedestrian Road around Peynircioğlu Stream

Final Views pedestrian route



View from Cycle and Pedestrian Road around Peynircioğlu Stream

IAc2-Planting 4,800 trees

A large number of trees are planted along the new green corridors and Peynircioğlu Stream. The main purpose is to increase the number of wide canopy trees so that carbon sequestration and pollutant's removal level could be maximized. They will improve user's well-being as well as connection to nature. Besides, they will serve as a shady bike and pedestrian route.

IAc2-Planting 4,800 trees

A large number of trees are planted along the new green corridors and Peynircioğlu Stream. The main purpose is to increase the number of wide canopy trees so that carbon sequestration and pollutant's removal level could be maximized. They will improve user's well-being as well as connection to nature. Besides, they will serve as a shady bike and pedestrian route.



View from trees around the peynircioglu stream (approx 1150 new planted trees)



IAc2-Planting 4,800 trees



View from trees around the peynircioglu stream (1150 new planted trees)



Final Views of Planting 4,800 trees



View from trees around Peynircioğlu Stream in new Green Corridor

Final Views of Planting 4,800 trees



View from trees around new Green Corridor

IAc5-Urban carbon sink

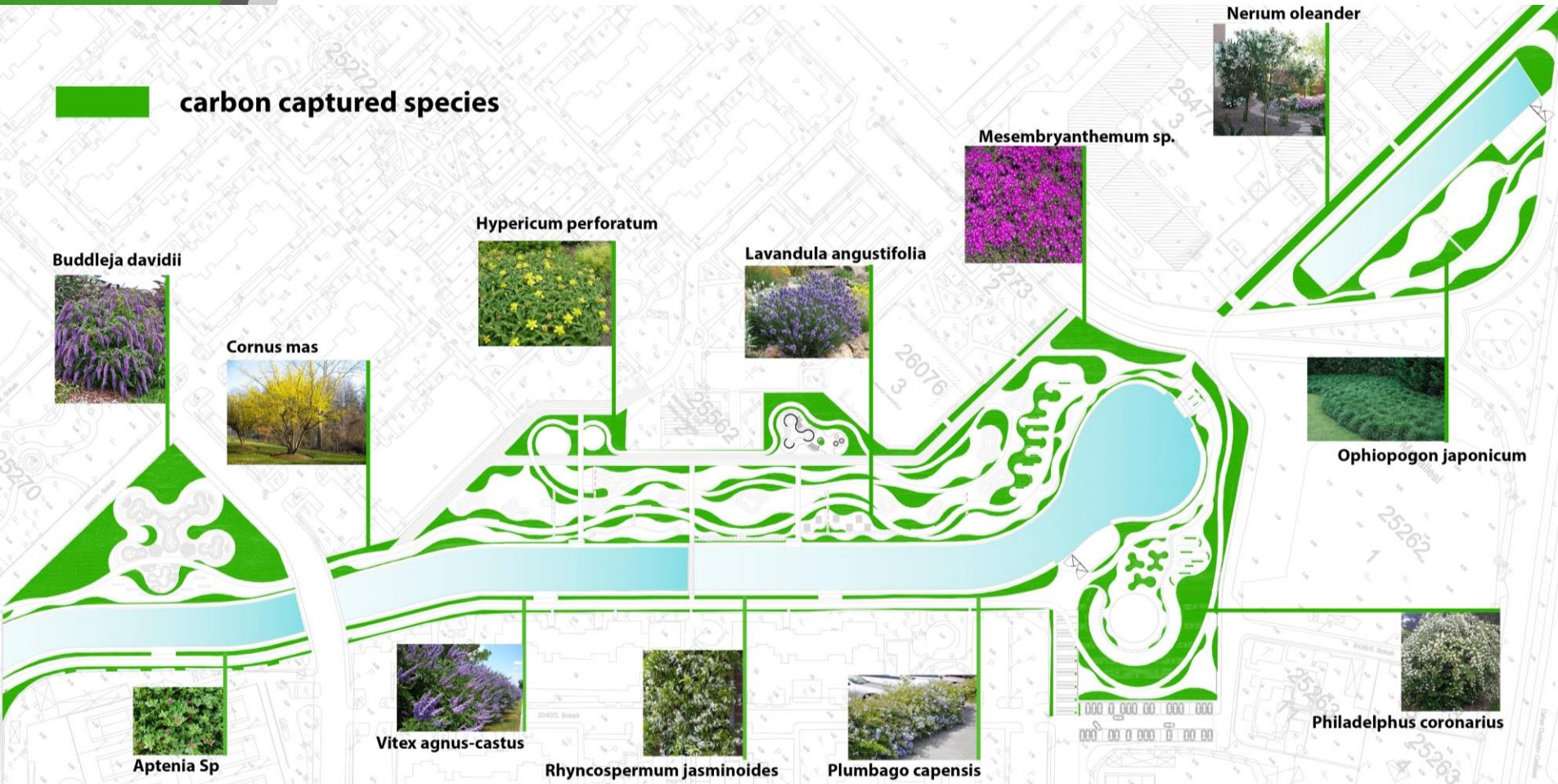
This is related to planting appropriate species around Peynircioğlu Stream adapted to capture carbon CO₂ maximizing carbon sequestration.

Expected impacts;

- a) Increased carbon sequestration and pollutant's removal,
- b) A number of co-benefits including stormwater run-off mitigation, microclimate regulation through shading and evaporation, habitat and food provision for biodiversity, and recreational and cultural services.

IAC5-Urban carbon sink

This is related to planting appropriate species around Peynircioğlu Stream adapted to capture carbon CO₂ maximizing carbon sequestration.



Planting approx. 11.500 m² appropriate species around Peynircioğlu Stream

Final Views of Plants around Peynircioğlu Stream



Planting approx. 11.500 m² appropriate species around Peynircioğlu Stream

IAC5-Urban carbon sink



Planting approx. 11.500 m² appropriate species around Peynircioğlu Stream



Planting approx. 11.500 m² appropriate species around Peynircioğlu Stream



THANK YOU...