

TEAM A1

18-05-2023

OSIEM MINUT OLIWA

FINAL PRESENTATION

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SWOT ANALYSIS

Helpful

Harmful

Internal Origin

Strengths

Mobility:

- Access to public transportation
- Railway station

Olivia center place:

- Convenient access to commercial spaces
- BREEAM features for certification in Olivia center --> would need connection to the outside
- Diversity of activities around olivia

Re-shape green spaces:

- Large land area

Weaknesses

Mobility/accessibility:

- Red light waiting minutes are considered too long
- Bike usage lower than expected
- Limited paths that help pedestrian mobility
- Access to public transport requires more time (limited access)
- "Missing horizontal connections"

Lack of green spaces=building heat stress zones:

- South east part of our project compound of a lot of car centered shops (huge parkings with only concrete)
- Not much shade brought by trees

Accessibility:

- Olivia center not inviting to outsiders ("like a castle")

External Origin

Opportunities

Energy:

- High sun and wind exposition: Renewable energy sources (wind and solar)

Mobility:

- High amount of parking spaces: Use of parking spaces for other purpose
- Coexistence with the residential area
- Already existing network: "Reshape the train system"

Green spaces:

- Possibility to bring water storage in green spaces

Threats

Environmental risks:

- Heat stress : glass building
- Drought : soil not infiltrating
- Flash rains : localised at the bottom of a hill

Individual use:

- Abundant parking space
- Gentrification
- "Flooded with private cars"

IDENTIFIED PROBLEMS



Lack of connection between public transport's stops

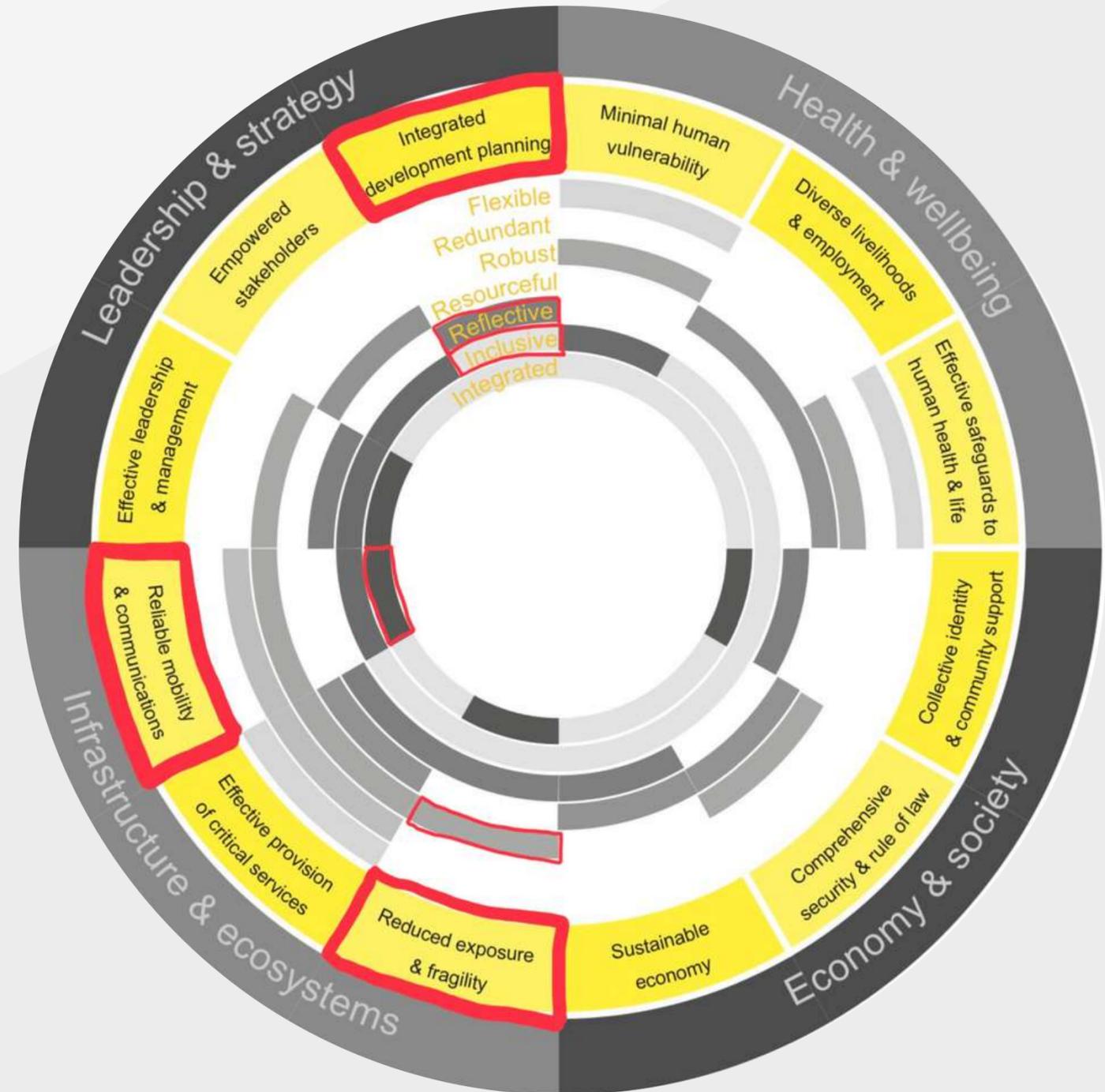


Very prone to heat stress and is highly paved=> not mitigating water runoff

Car-centric space



Low friendliness of sidewalks to access surrounding buildings



City Resilience Framework- ARUP

PROJECT PROPOSAL



University

Green corridors,
multipurpose water
basin



Olivia Center

Recreational land use,
accessibility, diversity
in commercial
facilities



Mobility

Parking spots,
horizontal connection,
pedestrian safety



Sports Center

Multipurpose area to
connect stakeholders
of the area & its
surroundings

MOBILITY

Goals

- Connect public transport stations
- Work on heat stress problems
- Ease pedestrian's, cyclist's and public transport user's journey



Mobility - Connected pedestrian network

MOBILITY

Mobility - Green corridor

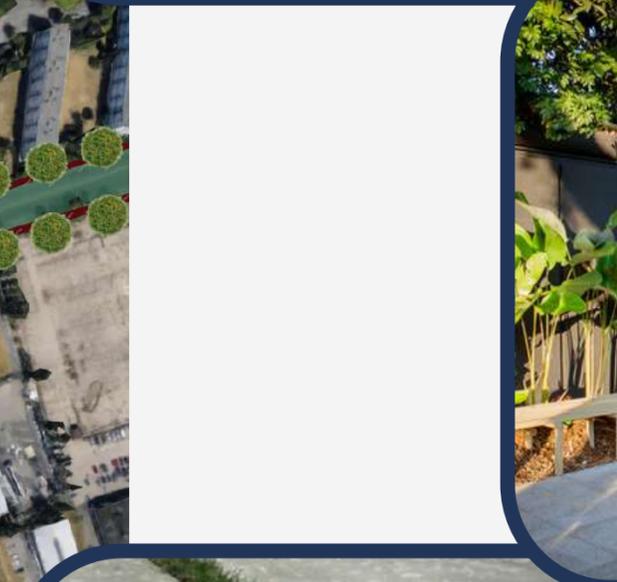


Google Earth
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

300 m



Green corridor - GUT



Urban furniture design - © Sissy Eiko



MOBILITY

Goals

- Convenience and distinction
- Safety and Security
- Transportation cohesiveness



Colored bike facilities



International trends



Commonly used colors



Color-coded design



Reasons for color choice



Colored pavement types



Color application methods

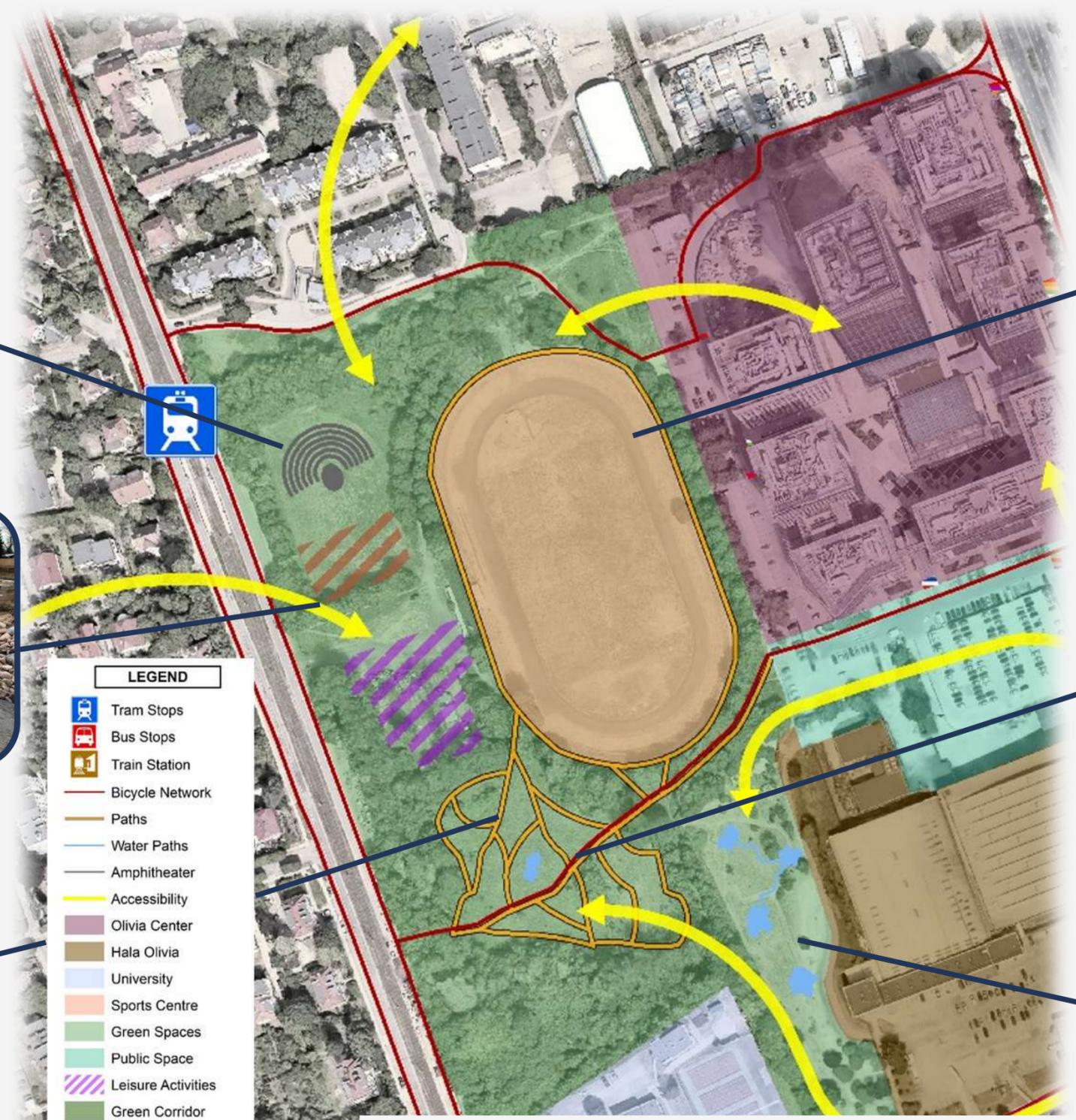
Colored bicycle lanes and
intersection treatments:
International overview and best
practices

Federico Autelitano  , Felice Giuliani 

“The distinctive coloration provides a clearly delineated route, making it more attractive and at the same time legible and intuitive.”



SPORTS CENTRE



Prebys Amphitheater



Sport center with accessible roof



Playground possibilities - 100architects, Colorado



Benches and features - Gdansk



Rain garden Gdansk



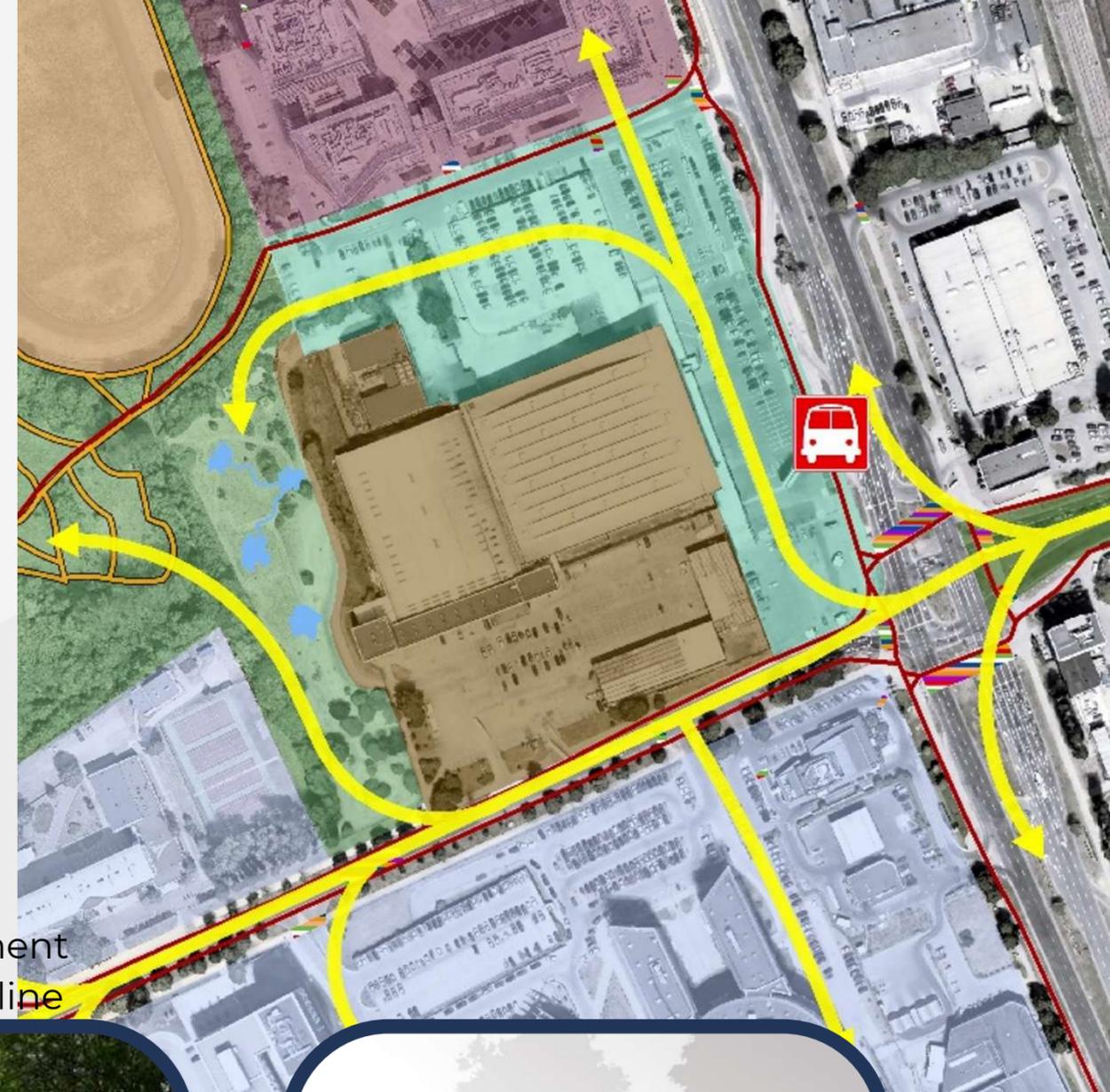
Open water features - Vallon du tang Alar, Brest

Sport center - Accessibility

RESHAPING HALA OLIVIA'S PARKING

ACTIONS

- Continuity from the green corridor following desired path
- Tackle heat stress & flood rain
- Bring peaceful environment



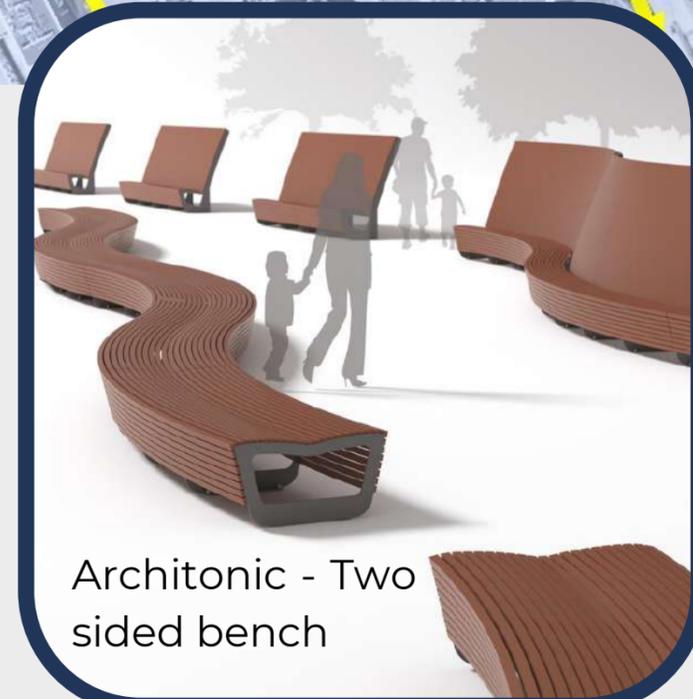
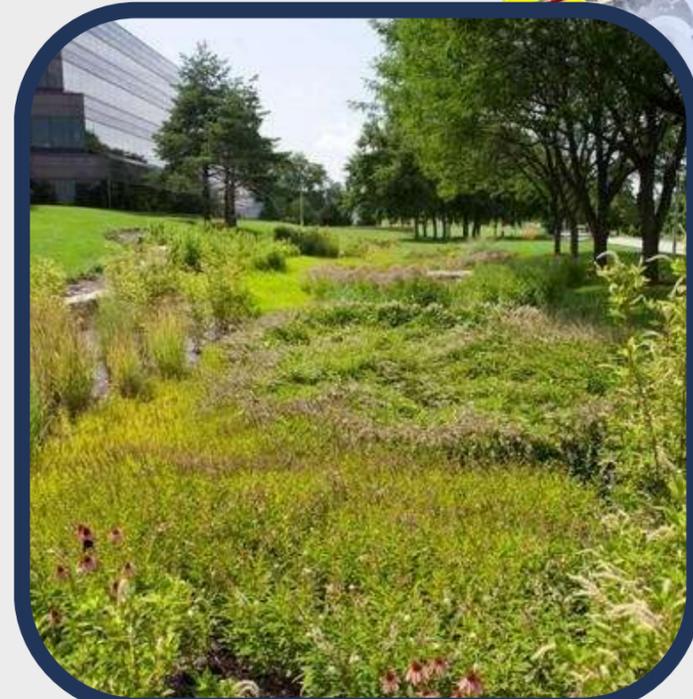
Eduardo Paolozzi -
Rheingarten-Brunnen



Thornton Creek Water
Channel



Missouri Department
of Conservation Online



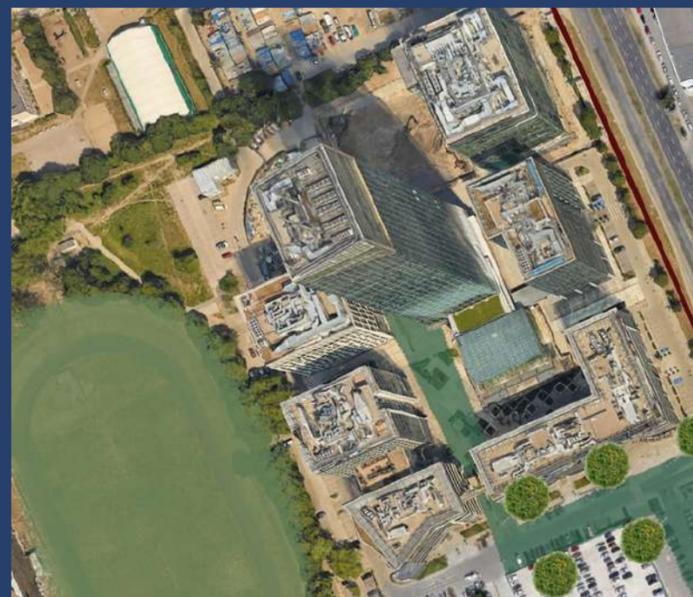
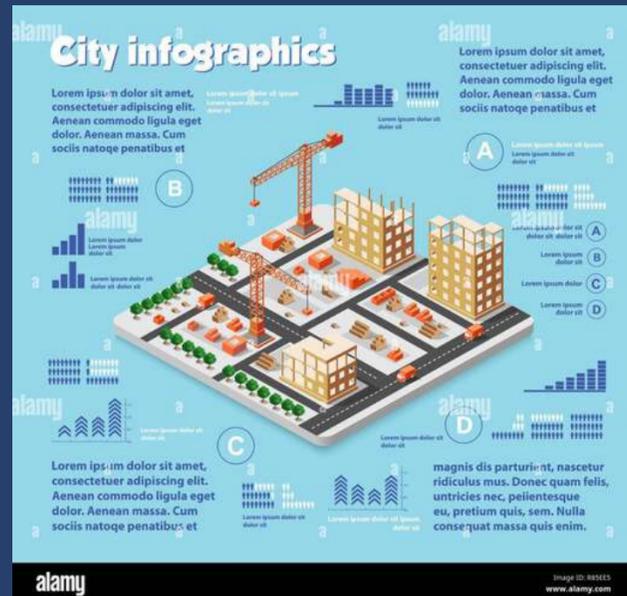
VISIBILITY- ACCESSIBILITY

Goals

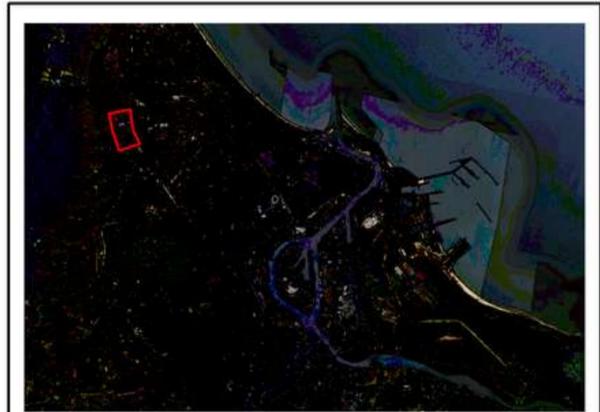
- Make Olivia Center accessible to the community, especially residents around the area
- Make it easier for people to navigate around and save travel time, thus OMO

Actions

- Restaurant diversity/options
- Green corridor going through the center



PROPOSAL MAP



Proposal Map: Osiem Minut Oliwa

LEGEND

-  Tram Stops
-  Bus Stops
-  Train Station
-  Bicycle Network
-  Paths
-  Water Paths
-  Amphitheater
-  Accessibility
-  Olivia Center
-  Hala Olivia
-  University
-  Sports Centre
-  Green Spaces
-  Public Space
-  Leisure Activities
-  Green Corridor
-  Playground
-  Colorful Crosswalks

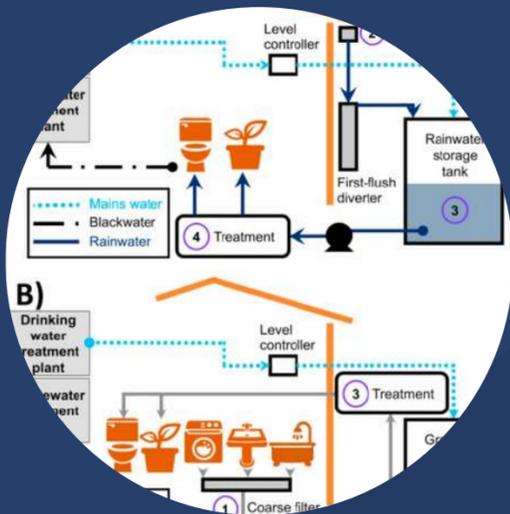
 Hogeschool Rotterdam
 Rotterdam University of Applied Sciences
 Creating Resilient Cities – CRC Minor

Module code: CRC52
 Module name: Project Creating Resilient Cities
 Lecturers: Remy Jansen, Rick Heikoop, Shy Shavit & Matthijs van Lente

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SOLAR
ENERGY



RAINWATER/
GREYWATER
SYSTEM

**NICE TO
HAVE**

The Louisiana Wind Energy Hub will be housed at
The Beach at UNO, the University's Research &
Technology Park.



WIND
ENERGY

Kumbhani, R. (2021). Need of urban multifunctional spaces for the over growing urban population. RTF | Rethinking the Future. <https://www.re-thinkingthefuture.com/2021/01/07/a2778-need-of-urban-multifunctional-spaces-for-the-over-growing-urban-population/>

Public spaces for a water-sensitive city | Places for People: Public Space Strategy 2022-32. (n.d.). Have Your Say Port Phillip. <https://haveyoursay.portphillip.vic.gov.au/public-space-strategy/public-spaces-water-sensitive-city>

Hickman, M. (2019). Desire Paths: The Unsanctioned Shortcuts Crisscrossing Public Spaces. Treehugger. <https://www.treehugger.com/desire-paths-shortcuts-public-sidewalks-4867870>

Thornton Creek Water Quality Channel | ASLA Climate Change Exhibition. (n.d.). <https://climate.asla.org/ThorntonCreek.html>

Giuliani, F. (2021). Colored bicycle lanes and intersection treatments: International overview and best practices. Journal of Traffic and Transportation Engineering, 8(3), 399–420. <https://doi.org/10.1016/j.jtte.2021.03.003>

A Ibrahim Abd Alaziz et al Int. Journal of Engineering Research and Applications www.ijera.com
ISSN : 2248-9622, Vol. 4, Issue 3(Version 1), March 2014, pp.208-215

Leong, J. Y. C., Oh, K. S., Poh, P. E., & Chong, M. N. (2017). Prospects of hybrid rainwater-greywater decentralised system for water recycling and reuse: A review. Journal of Cleaner Production, 142, 3014–3027. <https://doi.org/10.1016/j.jclepro.2016.10.167>

Breathing Ecological Roads – Official Site of the International Road Federation. (n.d.). https://www.irf.global/breathing-ecological-roads/?fbclid=IwARISfoYRXRJSJsUraOKAbpGGaJTYnMo521d-uZOPIS0avSeKGgrRv_WRumA

M, P. (n.d.). Grey Water Treatment Systems. Pure Aqua. Inc. <https://pureaqua.com/grey-water-treatment-systems/>

Common land and village greens - Gloucestershire County Council. (n.d.). <https://www.gloucestershire.gov.uk/business-property-and-economy/land-and-property/common-land-and-village-greens/>

The Public Green, country and urban living at the same time. (2022, March 7). <https://www.agora.lu/en/blog/article/article/2022-03-07-the-public-green-country-and-urban-living-at-the-same-time>

The Editors of Encyclopaedia Britannica. (1998, July 20). Commons | public land area. Encyclopedia Britannica. <https://www.britannica.com/topic/commons>

The University of New Orleans Launches Louisiana Wind Energy Hub at UNO. (2022, August 8). The University of New Orleans. <https://www.uno.edu/news/2022-08-08/uno-launches-louisiana-wind-energy-hub-uno>



THANK YOU



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