

Vivid stripes

Machis Analaton Square

W5

Kallitsi Pinelopi T.E.I Patras Restoration and Renovation of Buildings

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W5: Workshop leaders

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analysis of broader area _ potentials



vision of a potential upgrade of broader area of neos kosmos

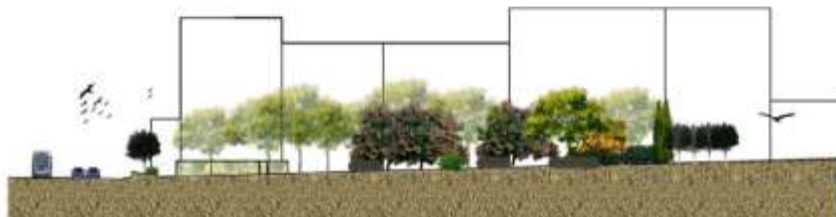
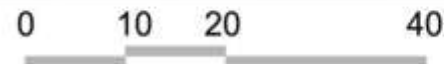
the square as a core that activates the urban green network



Vivid stripe

Goals - Ecological approach






- Bioclimatic materials
- Exploitation of discarded urban materials
- Natural resources – urban green
- Water management
- Social sustainability
- Environmental consciousness
- Low energy lighting systems
- Pedestrian > car





LEGEND

MATERIALS

-  **STABILIZED SOIL - COOL MATERIALS**
ground soil with nanotechnology additives + pozzolanic additives 120kg/m³ + colour sand
-  **NATURAL SOIL**
slightly compacted - random fields of urban biodiversity
-  **CONCRETE SLABS - COOL MATERIALS**
apparent - 30% white cement cool material + photocatalytic nanocomposites
-  **WOODEN PLATFORM**
wooden beams with joints
-  **SITTING ELEMENTS - DISCARDED URBAN MATERIALS**
gabion walls - excavation discarded material with sitting area of wooden beams

ENERGY SAVING METHODS

- LIGHTING SYSTEMS - LED -**
low energy consumption
- PHOTOVOLTAIC PANELS**



LEGEND

TREES

○ existing

● news

EVENGREEN



Citrus aurantium



Citrus limon



Ceratonia siliqua



Cupressus sempervirens



Olea europaea

DECIDUOUS



Cercis siliquastrum



Laurus nobilis



Sophora japonica



Koelreuteria paniculata



Morus alba

--- new evengreen axis

--- new deciduous axis



LEGEND

LOW VEGETATION



GREEN DRY GROUND COVERS



COMMUNAL DRY AROMATIC GARDENS



VEGETAL BARRIERS

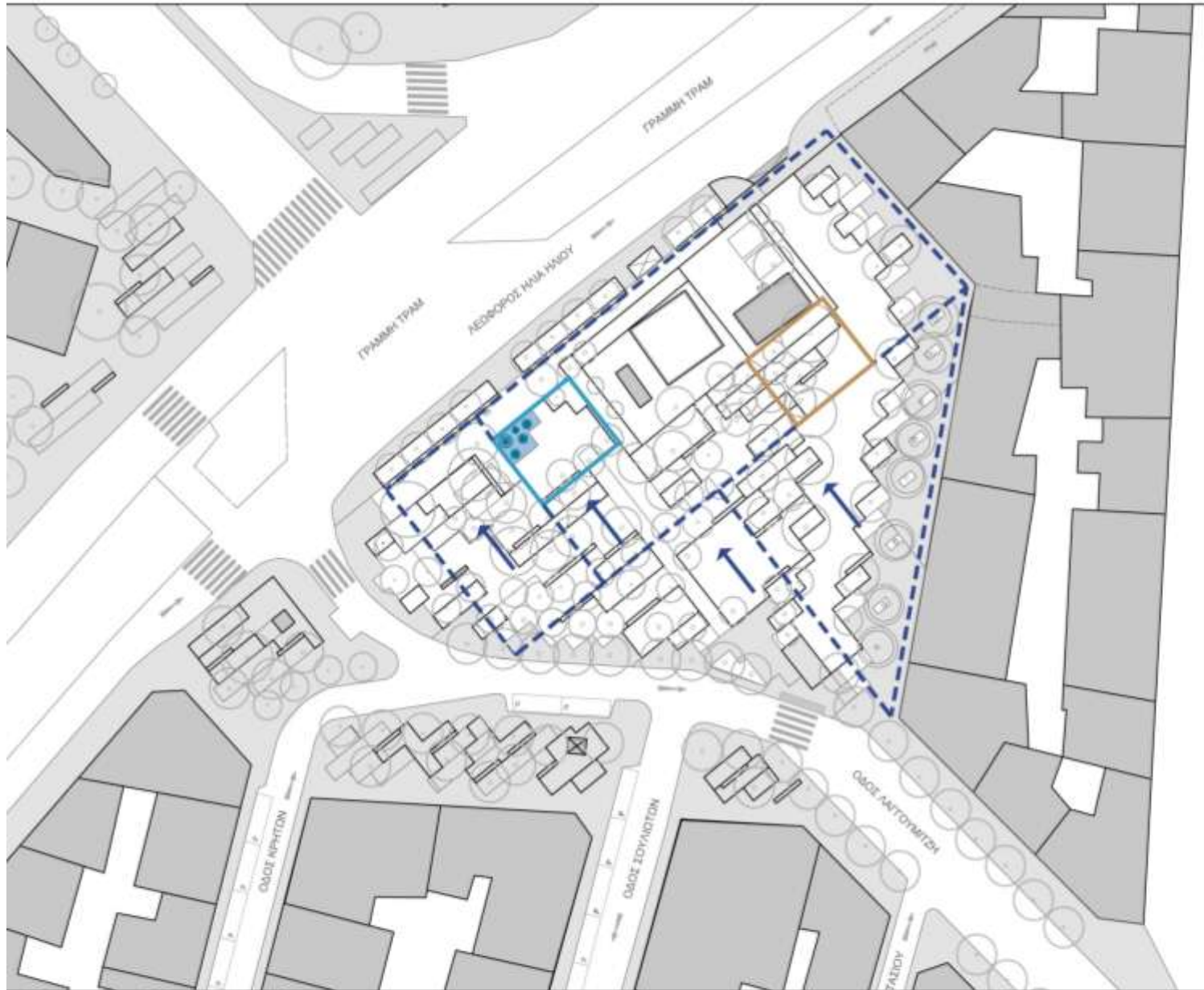


BIODIVERSITY



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LEGEND

WATER MANAGEMENT - FEATURES



UNDERGROUND BASIN - COLLECTION OF RAINWATER



UNDERGROUND BASIN - COLLECTION OF GREY WATER - biological filter



INDICATIVE PIMPE WATER COLLECTION NETWORK



**WATER FEATURE - STREAMS
PLAYGROUNDS - SOUNDSCAPES -
MICROCLIMATE**



**RAINWATER DIRECTION
2.5-3.0% INCLINATION**





- eco point
- collective space 1-urban zone extroverted character
- collective space 2 - park - garden communal dry gardens
- collective space 3 gathering space for the neighborhood
- potential zone of recreation



space qualities



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Thank you!

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