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COOLING HAVENS

Water-Powered Neighborhood Cooling and Engagement Stations

1st Site Visit in TPs

Budapest | 8, 9 September 2026

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Geologist-Environmentalist, MSc
Cooling Havens Project Manager

Current Project Status

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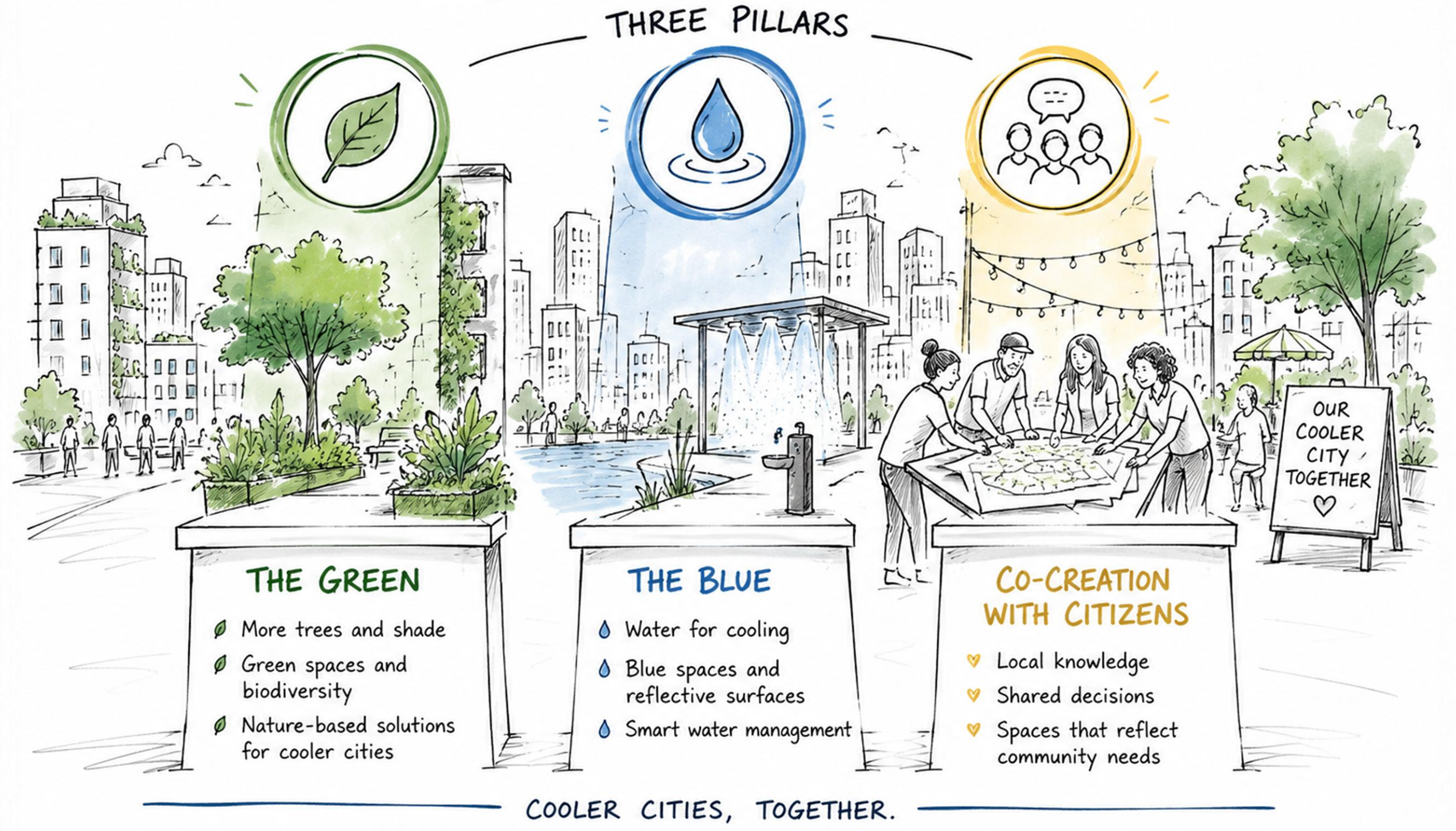

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Intervention Sites

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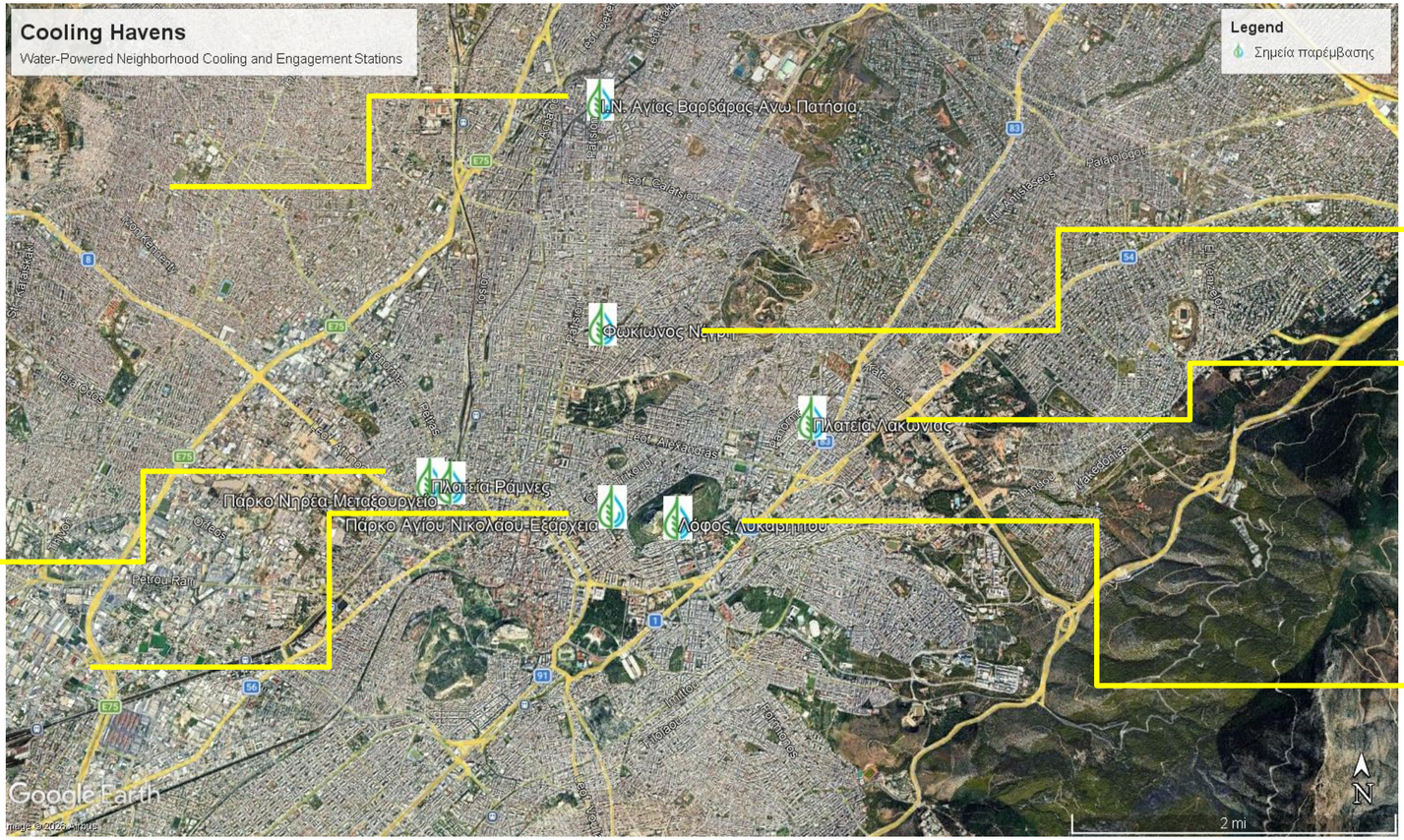
Agia Varvara Square, Ano Patissia area



Fokionos Negi Str., Kypseli area

Lakonia Square, Ampelokipoi area

Ramnes Square, Metaxourgio area

Agios Nikolaos Park, Exarcheia area

Lycabettus Hill

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From design and adaptation to implementation

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Final Designs - Procurement Readiness - Major Changes Integration

Technical & Design

- Final architectural and engineering studies have been consolidated.
- Interventions are being aligned with available budgets and permitting requirements.
- Digital Twin development is progressing, with a demo presented in July 2026.

Procurement & Delivery

- Tender documents have been completed.
- Tendering follows completion and validation.
- The implementation schedule is being updated to reflect site changes and dependencies.

Governance & Transfer

- Project Team coordination continues on a regular basis.
- Monitoring and KPI framework is being refined toward outcome and impact indicators.
- Transfer activities continue in parallel with implementation preparation.

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Key adaptations to the original intervention plan

Changes respond to community feedback, technical constraints and opportunities for stronger integration

ILISIA PARK
Sewage Treatment Plant + rainwater treatment & Large-scale Nature-based Solutions originally planned

↓

LYCABETTUS HILL
Requested relocation of I.5.2 / I.5.3 into a wider approved intervention

↓

LAKONIA SQUARE
A new concept integrating water storage tank and treatment system along with Nature-based Solutions

Transfer lesson: urban innovation requires an adaptive pathway—preserving project objectives while changing the spatial and technical configuration.

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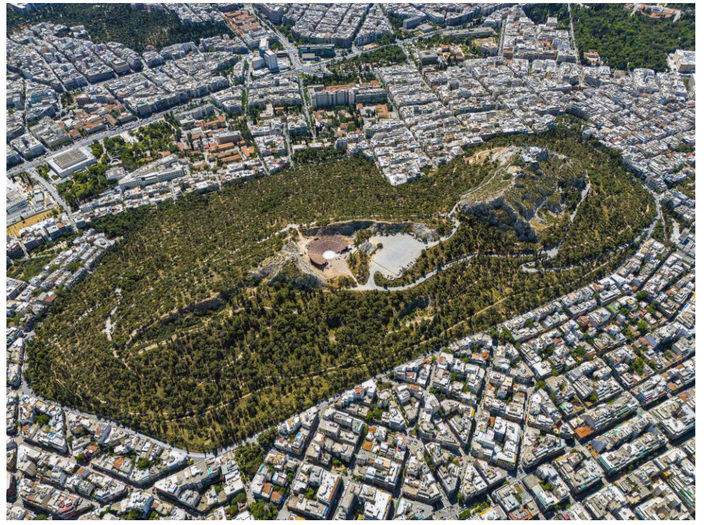
Lycabettus Hill





- Lycabettus Hill is the highest landmark peak in central Athens, rising to 277 meters above sea level, and one of the city's most important elevated green areas
- It is a prominent green lung and regional tourist destination experiencing severe climate vulnerabilities, including acute urban heat island effects, flood and soil erosion risk (due to its significant relief slopes), vegetation stress and the need for more resilient irrigation and rainwater management solutions.
- The site, which is owned by the Municipality of Athens, was selected because it offers a stronger combination of technical readiness, public ownership / control, environmental relevance and demonstration value.
- It is considered "shovel-ready" because it can be integrated into an already prepared wider intervention framework.

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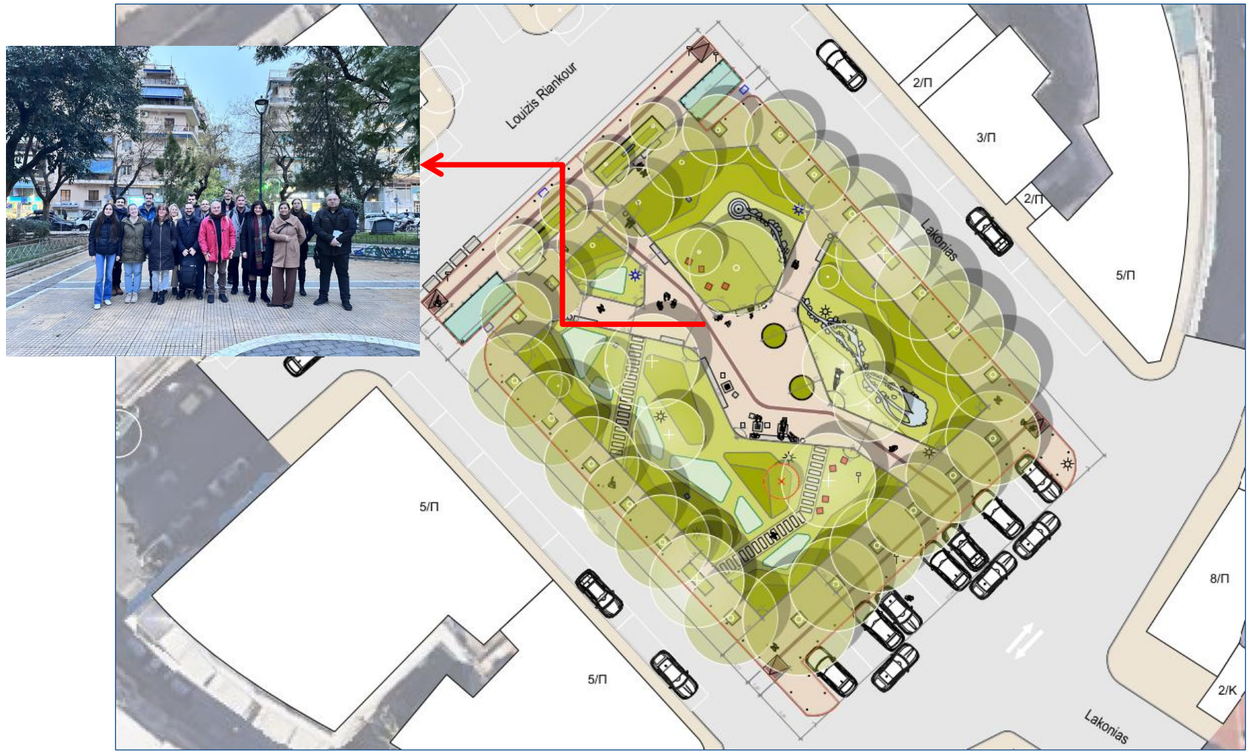
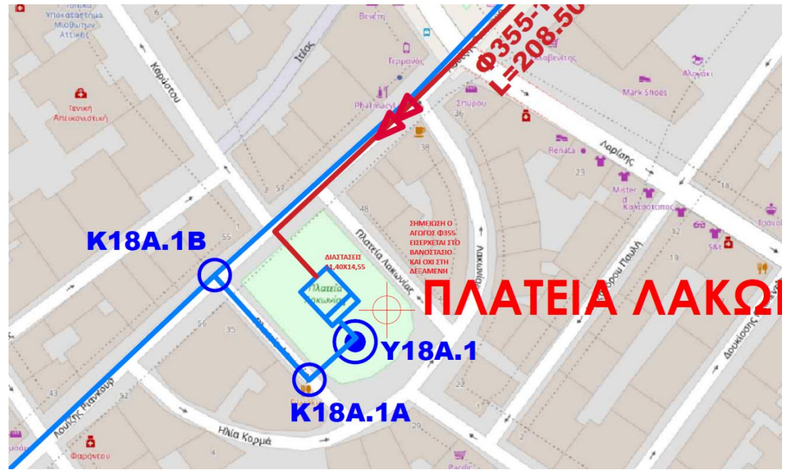
Lakonia Square, Ampelokipoi area



Proposed Intervention Design

PROPOSED DESIGN

- Integration of blue-green infrastructure at both the plaza and street levels
- Reallocation of space to prioritize planting and infiltration, creating continuous green belts that function as linear water management systems.
- Installation of a water tank as part of efforts to highlight and utilize the waters of the Hadrian Aqueduct. The aqueduct runs underground through Lakonia Square, without being visible or accessible at this point.



- The proposed location of the tank is roughly in the center of the square
- The tank measures 11,40 m × 14,55 m, with a total area 165,87 m².

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HADRIAN'S AQUEDUCT

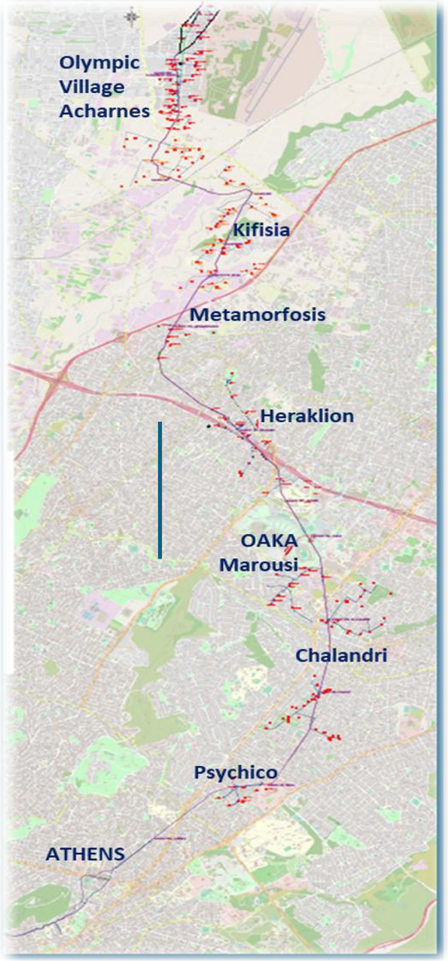
STILL FLOWING AFTER ALMOST 2,000 YEARS

After decades without supplying the city, Hadrianic water is being brought back into use — this time as a non-potable water resource.

A UNIQUE ASSET
A nearly 2,000-year-old underground aqueduct that remains hydraulically active.

BACK IN USE
Hadrianic water will once again support irrigation and urban green spaces.

NO WATER WASTED
At Lakonia Square, water will be collected, stored and treated before being put to beneficial use.





24 km underground aqueduct

~2,000 years of hydraulic history

Non-Potable water for irrigation

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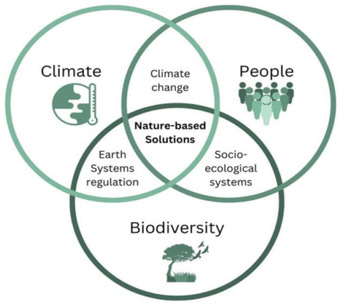



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Thank You

Dimitris Karapanos
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Our Consortium

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