



**ATHENS METRO –
LINE 4 – ALSOS VEIKOU - GOUDI SECTION
September 25th 2014**



**MINISTRY OF INFRASTRUCTURE
TRANSPORT & NETWORKS**



CO – FUNDED BY THE EUROPEAN UNION



ATTIKO METRO S.A. General Company Profile

- **ATTIKO METRO S.A. (AM)** is a **State owned** company (**Legal Entity of Private Law**) situated in Athens, founded in 1991, and which designs, tenders, supervises the construction, puts into operation and extends **Metro and Tram** networks in Athens and Thessaloniki
- AM also implements related transportation projects (**bus - transfer stations, car-parks, multi-modal transportation facilities, urban redevelopment, etc.**)
- AM is in a position to provide **consulting services** in Metro/Tramway related issues, in Greece and internationally, transferring and exchanging **specialized know-how.**





MAIN PROJECTS

- **ATTIKO METRO SA** in the last 20 years has put into operation or has currently under construction **61 Km** of **Metro lines** with **64 stations** in Athens and Thessaloniki of approximate value **7.2 billion €**
- An additional **53 km** with **46 stations** are in the planning / design stage with an additional budget of **5.2 billion € in total**
- **32 km of Tramway lines** are in operation or under construction. An additional 9 km is in the planning / design stage. The total estimated cost is approximately **600 million €**.
- Other projects include
 - Depots
 - Operation Control Centres
 - Parking / Bus Transfer facilities
 - Reinstatement and Redevelopment of urban areas
 - Project Management of multi-modal transportation facilities
 - Rail connection to the Athens airport with suburban rail interoperability



EXTENSION TO PIRAEUS – (completion 2017) (Currently Under Construction)

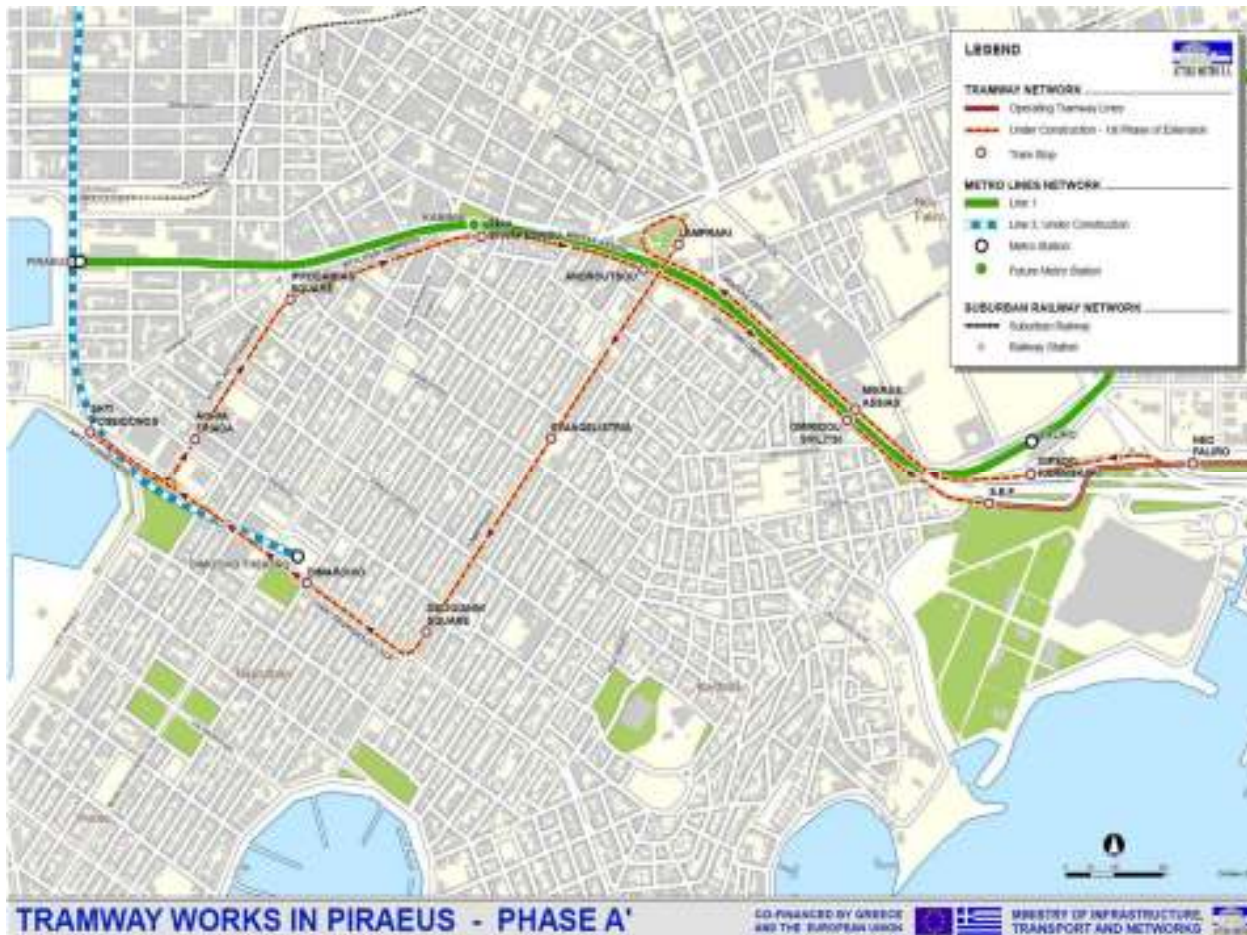


- **7.6 km, 6 Stations**
- Piraeus station will form a **transportation hub** connecting lines 1 & 3, the port, the suburban railway and the tramway. The extension will offer a **direct connection between the port and the airport**
- **Ridership: 132,000 passengers daily**
- **Project Budget : 730 million €**
- **Completion Time Schedule : end of 2017**
- **Commencement of construction : March 2012**





TRAMWAY EXTENSION – PHASE A' TO PIRAEUS (under construction)

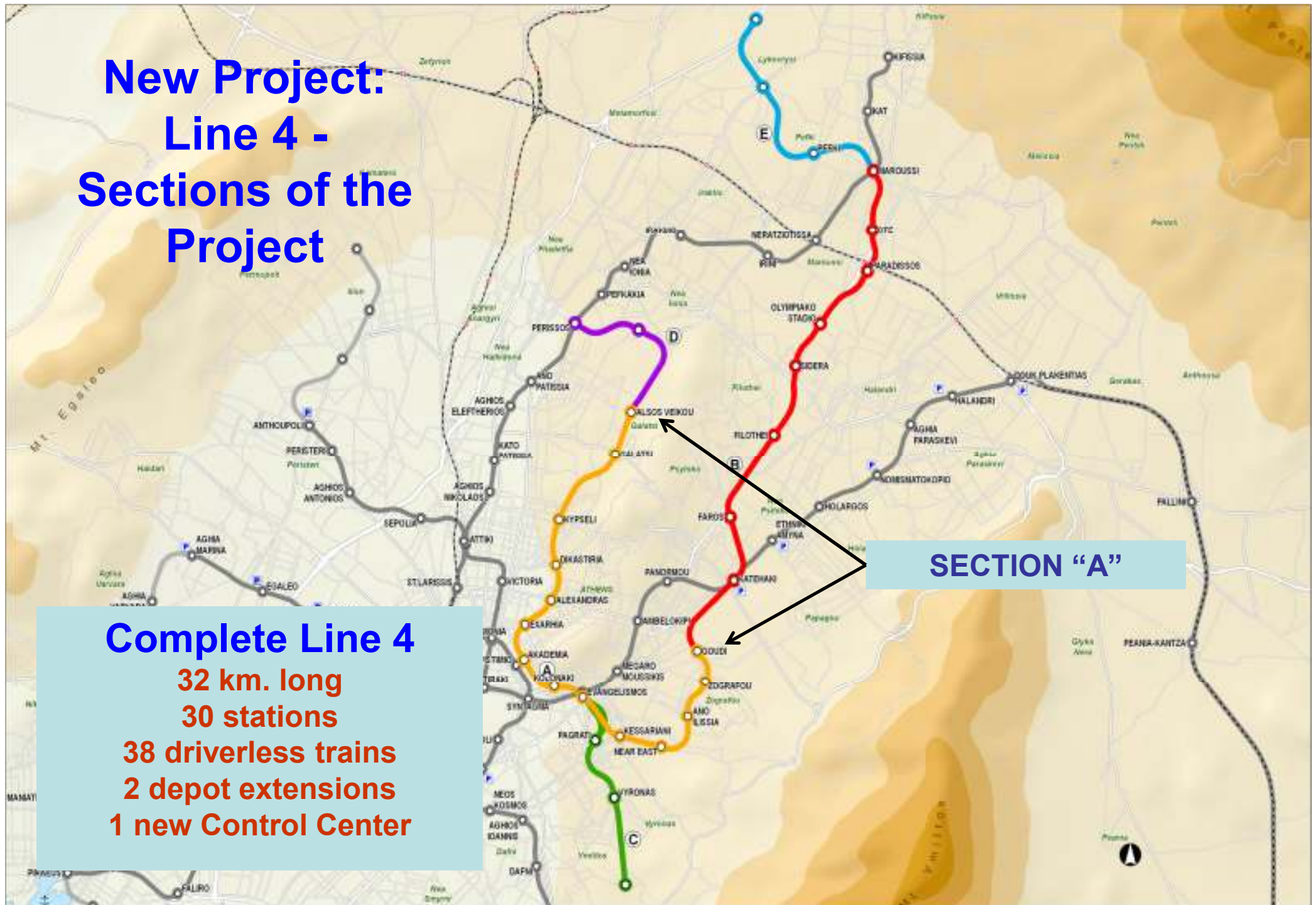


- **5.4 km. χλμ.** of single line
- **12 new stations**
- **Re-construction of the existing terminal station in the area of Piece and Friendship Stadium**
- **Budget: 127 million €**
- **Construction duration: approximately 2 years**

New Project: Line 4 - Sections of the Project

Complete Line 4
32 km. long
30 stations
38 driverless trains
2 depot extensions
1 new Control Center

SECTION "A"





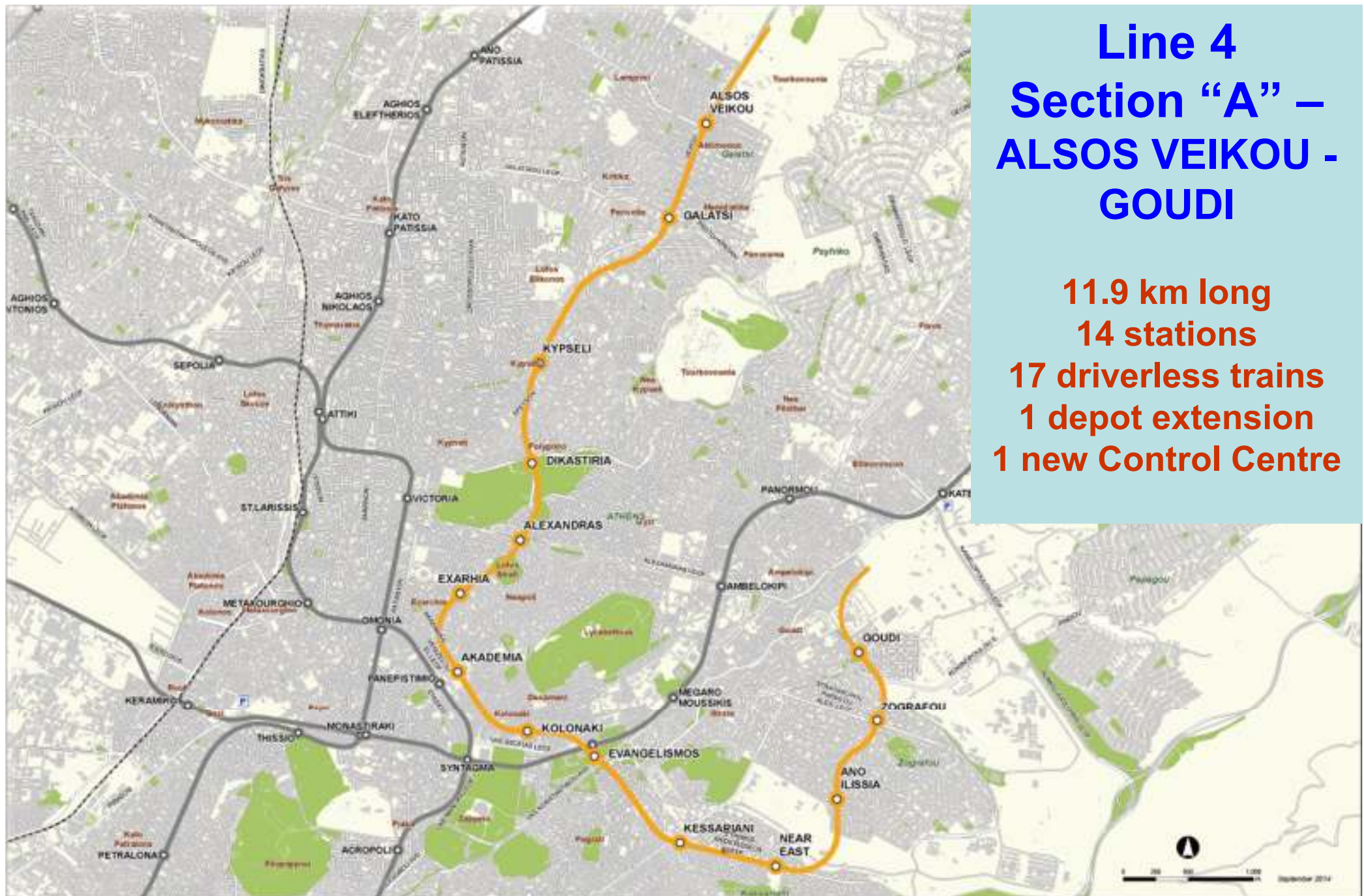
ATHENS METRO – LINE 4

General Information – Complete Line 4

- The new **driverless** Line 4 is **33 km long** with **30 new stations**
- **5 interchange stations** for transfers to Lines 1, 2 and 3
- **530,000** additional passengers / day
- **91,000** less car trips daily
- **480** less tons of CO₂ emitted in the city's atmosphere daily
- Total Project budget : **3.3 billion €** implemented in 5 phases (5 sections)
- Section **"A"** – **ALSOS VEIKOU – GOUDI** will be the first to implement

Line 4 Section “A” – ALSOS VEIKOU - GOUDI

11.9 km long
14 stations
17 driverless trains
1 depot extension
1 new Control Centre



METRO NETWORK - LINE 4 : PHASE A

CO-FINANCED BY GREECE
AND THE EUROPEAN UNION



MINISTRY OF INFRASTRUCTURE,
TRANSPORT AND NETWORKS





LINE 4 – Section “A” – Main Characteristics

- **11.9 km** long plus **800 m** of connection tunnel with lines 2 & 3
- **14** new stations, **110 m** long with side platforms and Platform Screen Doors
- **2** interchange stations for transfer :
 - ✓ to Line 2 (Panepistimio) & to Line 3 (Evangelismos)
- **17** new **driverless** trains (GOA4)
- **Energy saving** principles applied throughout the systems design
- **Workshop** extension in the existing Sepolia Depot to accommodate line 4 trains
- New **Operation Control Centre (OCC)** for all Metro lines in Sepolia Depot
- Underground **Train Cleaning and Light Maintenance** facilities in the line forestation



LINE 4 – ALSOS VEIKOU – GOUDI Section

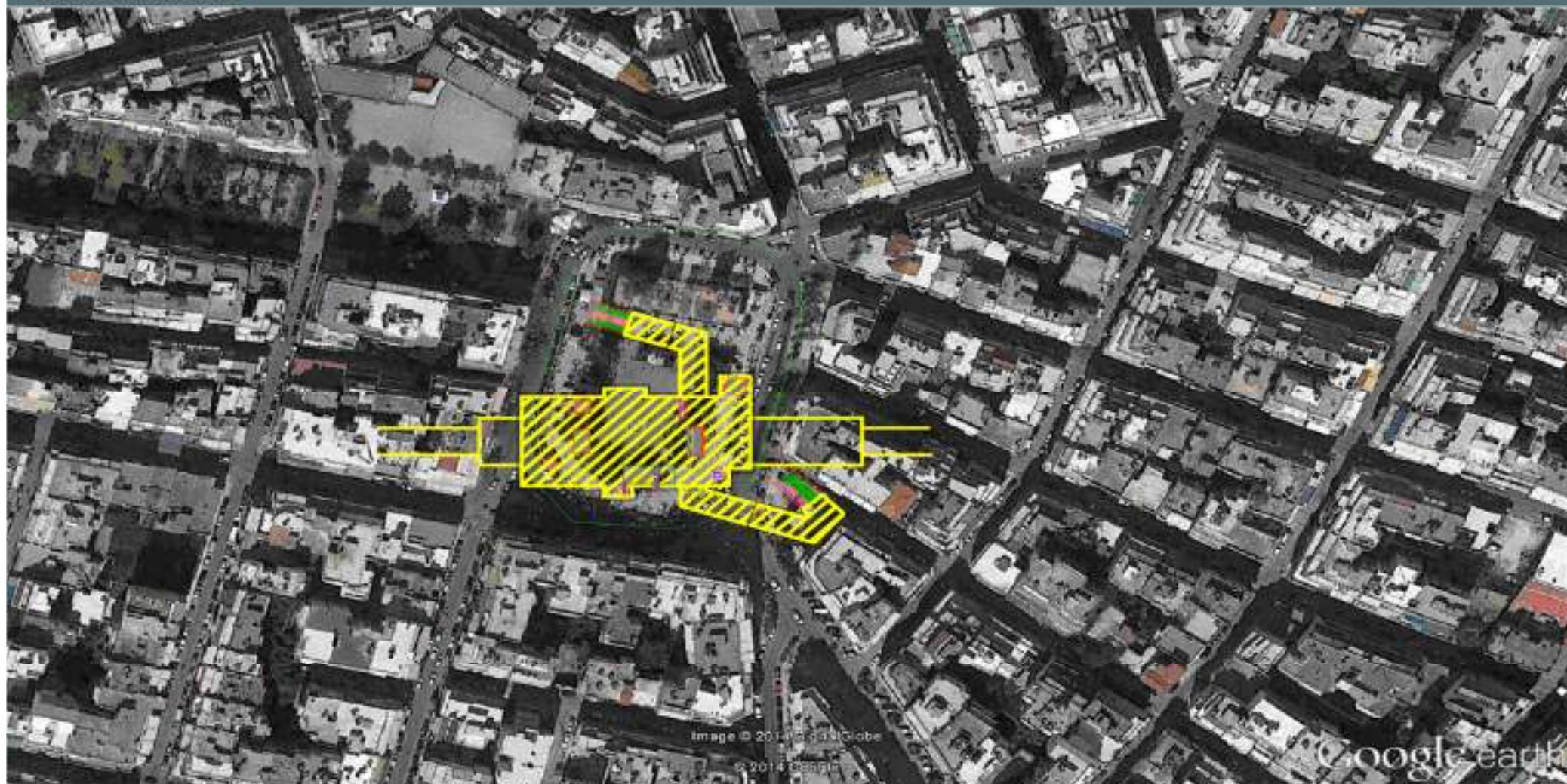
STATIONS LOCATIONS



ALSOS VEIKOU Station, Veikou Avenue and Tralleon Street Intersection



GALATSI Station, Galatsiou and Veikou Avenues Intersection



KYPSELI Station, Kypseli Square



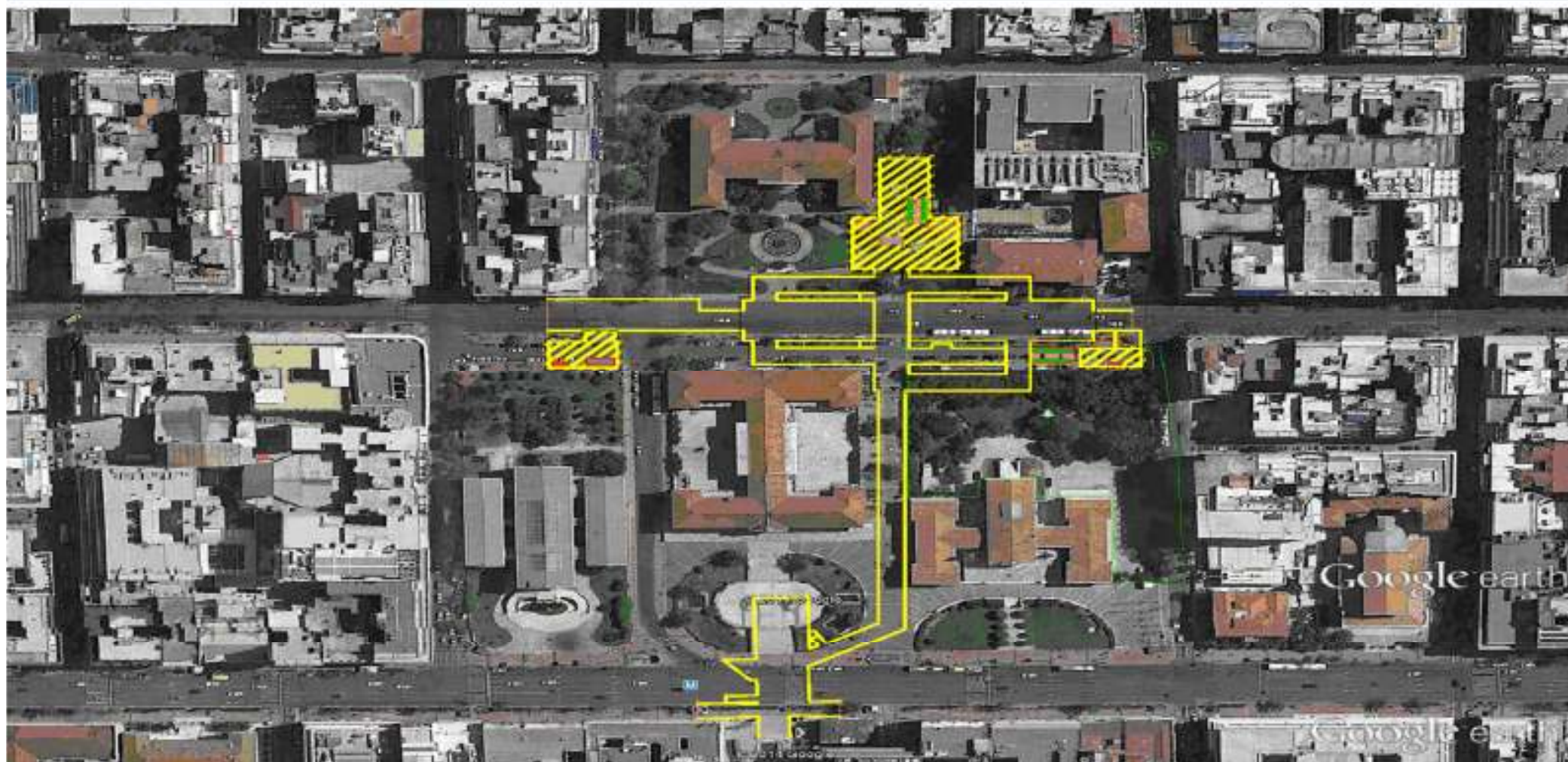
DIKASTIRIA Station, Evelpidon and Moustoxidi Streets Intersection



ALEXANDRAS Station, Alexandras Avenue and Moustoxidi Street Intersection



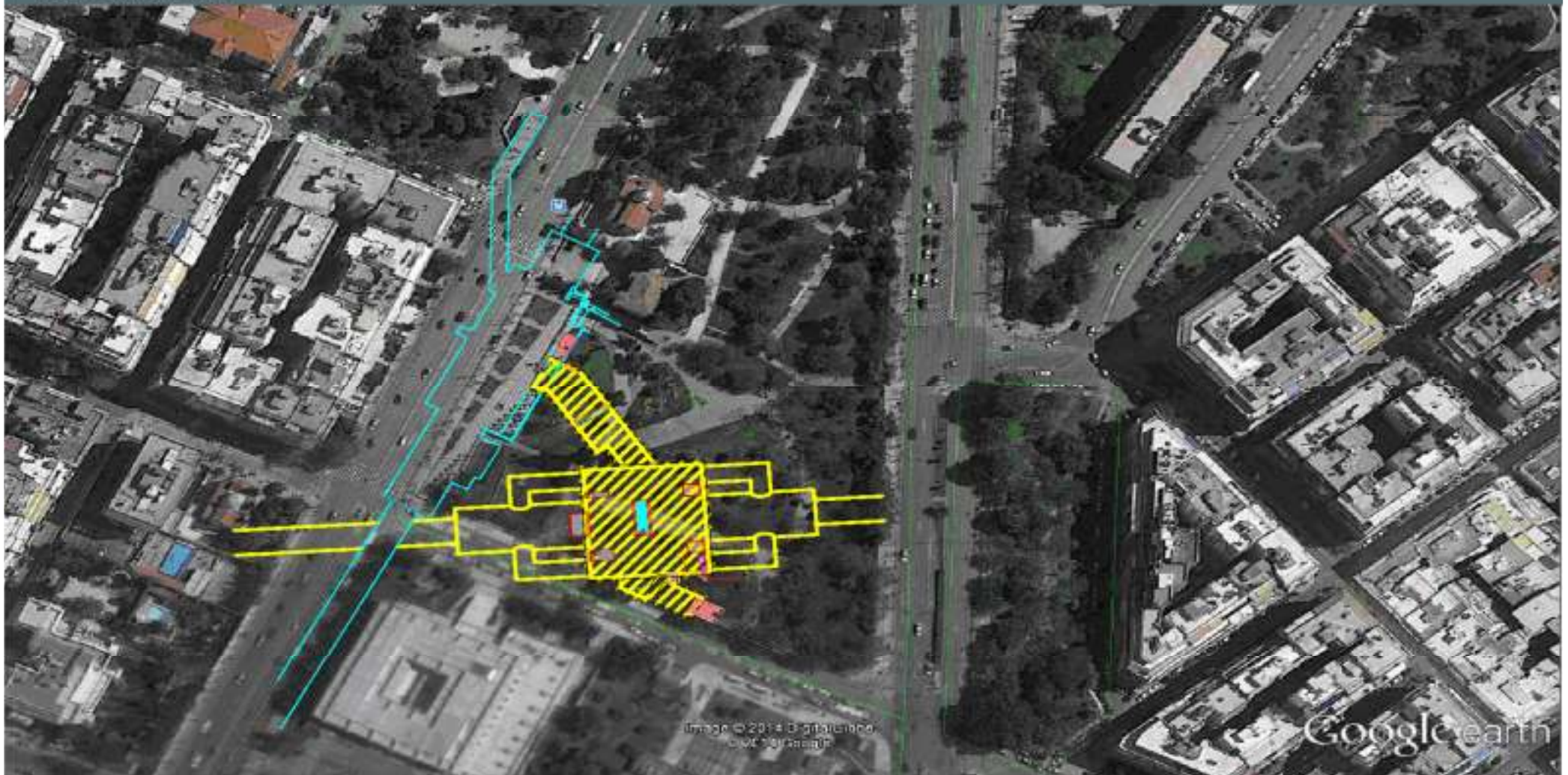
EXARCHIA Station, Exarchia Square



AKADIMIA Station, Akadimias and Sina Streets Intersection



KOLONAKI Station, Kolonaki Square



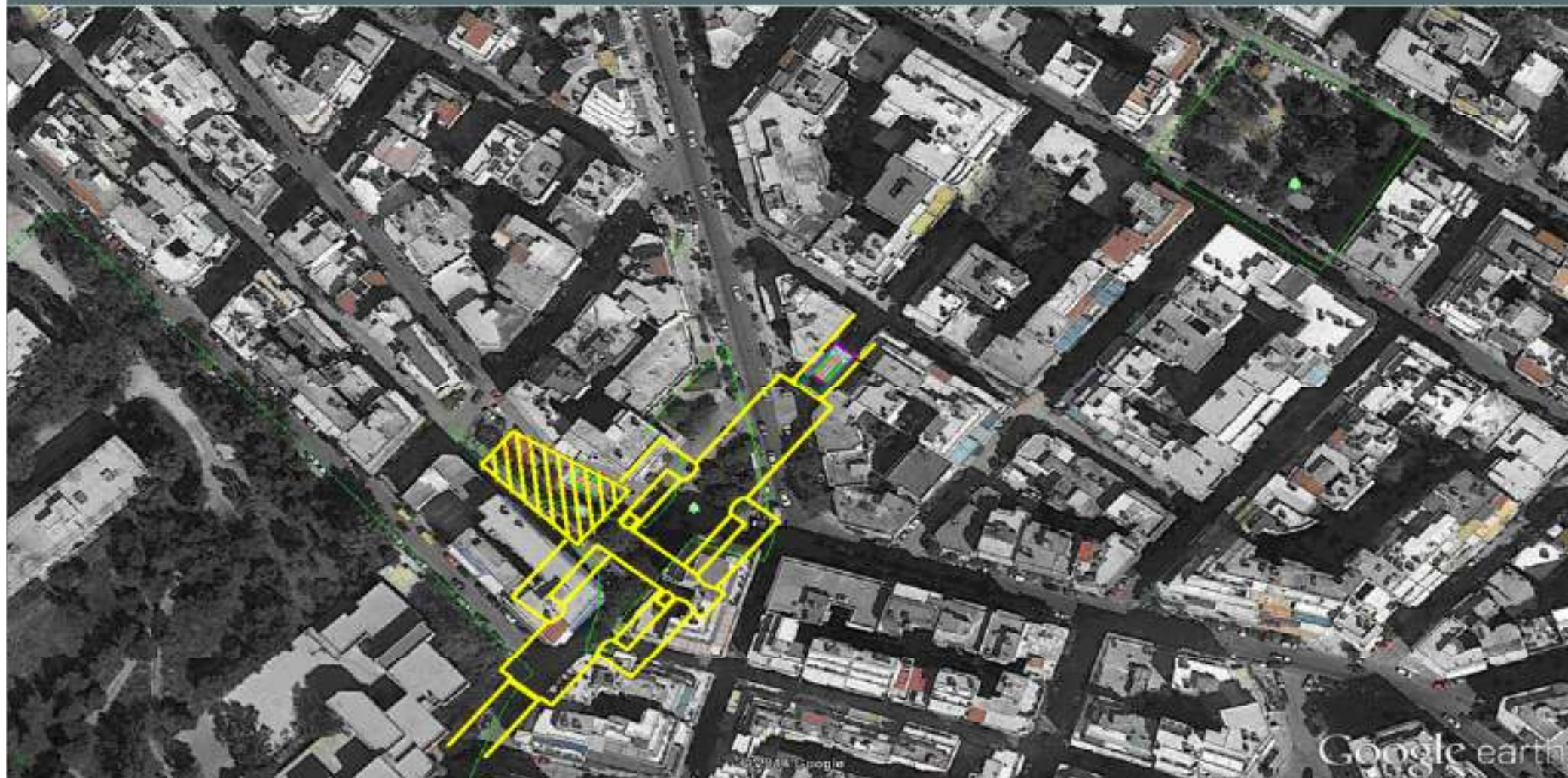
EVANGELISMOS Station, Vass. Sofias Avenue, Rizari Street and Vass. Konstantinou Avenue Intersection



KAISSARIANI Station, Ymittou Avenue and Ethnikis Antistasseos Street Intersection



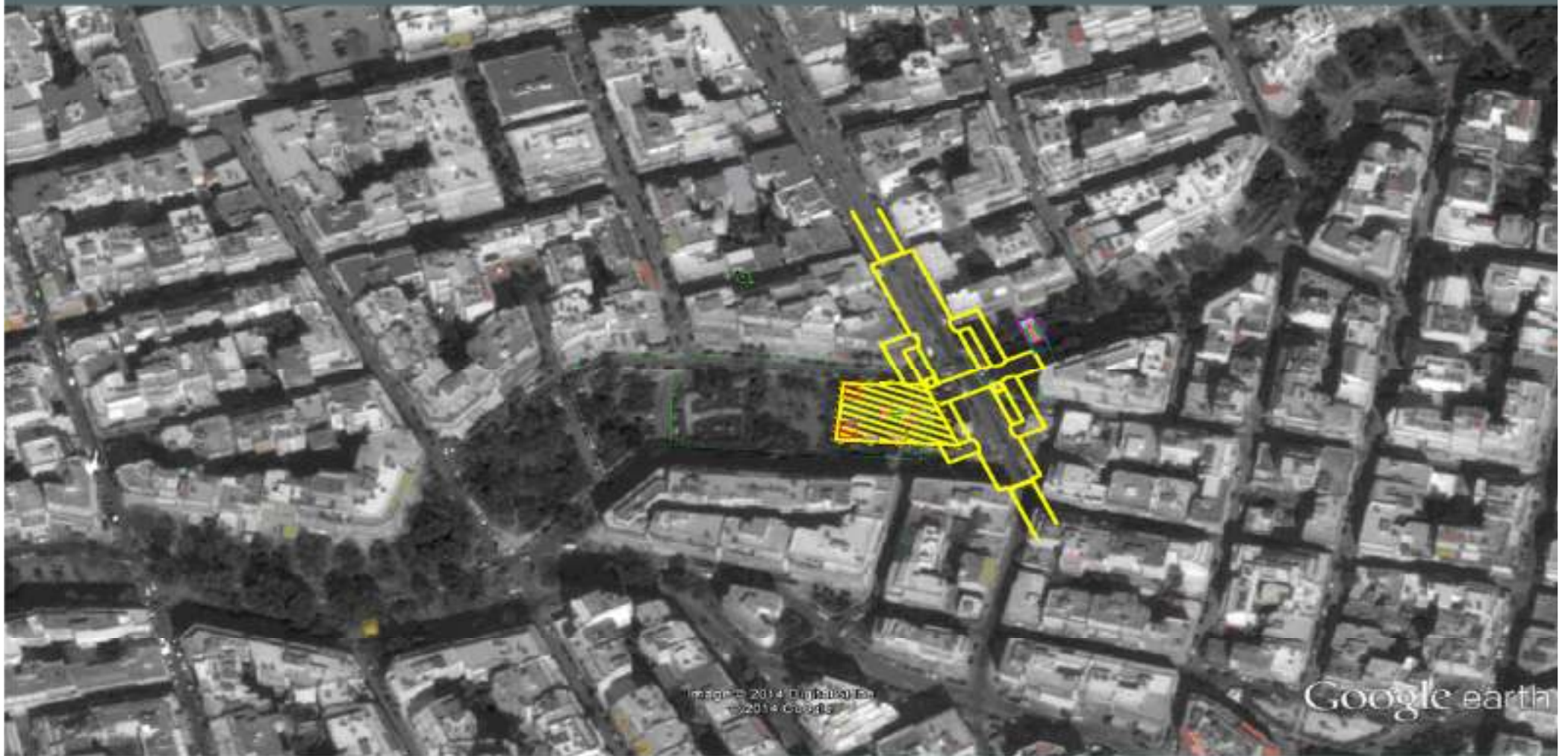
NEAR EAST Station, Ethinkis Antistasseos Street



ILISSIA Station, Kiprou Square



ZOGRAFOU Station, Gardenia Square



GOUDI Station, Eleftherias Square



LINE 4 – Section “A” – Project benefits

- **Ridership**
 - ✓ **310,000** with complete line
 - ✓ **220,000** passengers / day with only section “A” in operation
- Serving **285,000** citizens at **500** m radius from the stations and covering densely populated city areas and business districts, hospitals, universities, courts
- **53,000** less car trips resulting in **280** less tons of **CO₂** emitted in the city’s atmosphere daily
- Relief of excessive passenger loads in existing central metro stations
- Through the construction of the project, approximately **3500 jobs** directly related with the project will be created, as well as an equal or greater amount of jobs indirectly related with it.



LINE 4 – Section “A”– Supplementary Information

- The cost for all designs and the entire preparation for the tendering of Line 4 – Sections “A” amounts to approximately **25 million €**
- Until the present date, the amount of **2.6 million €** has been spent for topographical surveys and geological investigations, for Line 4 – Section “A”
- The major part of the technical preparation, designs, specifications and tender documents for Line 4 is being compiled by ATTIKO METRO S.A. personnel, **saving thus a significant amount of money related to cost.**



Budget , Time Schedule, Contract

- **Total Project budget : 1.2 billion €**
- **Planned prequalification (1st phase) tender date : December 2014**
- **Planned tender date (2nd phase) : Autumn 2015**
- **Construction Time Schedule : 84 months (7 years) from contract signature, i.e. to be completed by end of 2022**
- **Tender Type : Lump-Sum Turnkey Project, with the offers to be based on ATTIKO METRO S.A. design, while the contract will be awarded to the lowest bidder.**



Project Status – section “A”

- The major part of the designs required for the Project has been completed, while their completion at **General Final Design** level is scheduled within **2015**. The tender documents regarding Phase A' (Pre-qualification) is in progress.
- The cooperation with the **Municipalities** involved (Athens, Galatsi, Kaissariani, Zografou), with the **Archaeological Department** and the **Public Utility Organizations** has been established. The subject cooperation will be intensified in the near future for the resolution of all special and local issues.



ATTIKO METRO EXPERTISE AREAS

The areas of **expertise** cover :

- ✓ **PLANNING**
- ✓ **ENGINEERING & ARCHITECTURE**
(Concept/Preliminary/Detailed Design, Technical Specifications etc.)
- ✓ **COST ESTIMATION & FINANCE**
- ✓ **TENDERING**
- ✓ **CONSTRUCTION & PROJECT MANAGEMENT**
- ✓ **TESTING & COMMISSIONING**
- ✓ **ENVIRONMENTAL ASPECTS**

All the design, preparation, tendering, supervision and management work for the Line 4 project will be carried out by the AM staff



THANK YOU FOR YOUR ATTENTION



**MINISTRY OF INFRASTRUCTURE
TRANSPORT & NETWORKS**



CO – FUNDED BY THE EUROPEAN UNION