

**Hellenic Institute
of Transport**

**Thessaloniki smart
mobility living lab**

www.imet.gr

Hellenic
Institute
of Transport

Who we are

HIT is a part of a greater team CERTH
which consists of 5 INSTITUTES
www.certh.gr

HIT
established in 2000
scientific team: 80 members

No1 in the top list of
research
organizations in terms
of EU Funding in
Greece

No 17 in EU

Our Institute consists of 3 sectors



**Vehicle Safety
Accessibility**



**Smart
Sustainability
Freight Transport
Networks**



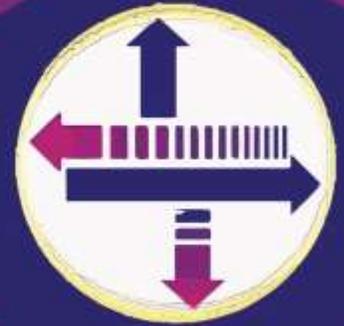
**Transport Economics
Environment
Non-Land Transport**

Research on sustainable mobility, with emphasis on land transport networks.

We develop technologies and techniques for collecting, managing and certifying data from multiple sources. We also develop algorithms for solving specific transportation problems, such as managing fleets and providing routing services

Develop ,Implement,
Deploy , Test and
assess mobility
solutions and services
in a real-world
environment

What we do



Data collection
and processing
Algorithm design
Data analytics
and Data models
Data visualization

Our Offices



Infrastructure

○ Physical (hardware)

- Web, Application, Database and Virtualization servers
- High Performance Clusters

HIT PORTAL



○ Digital (software)

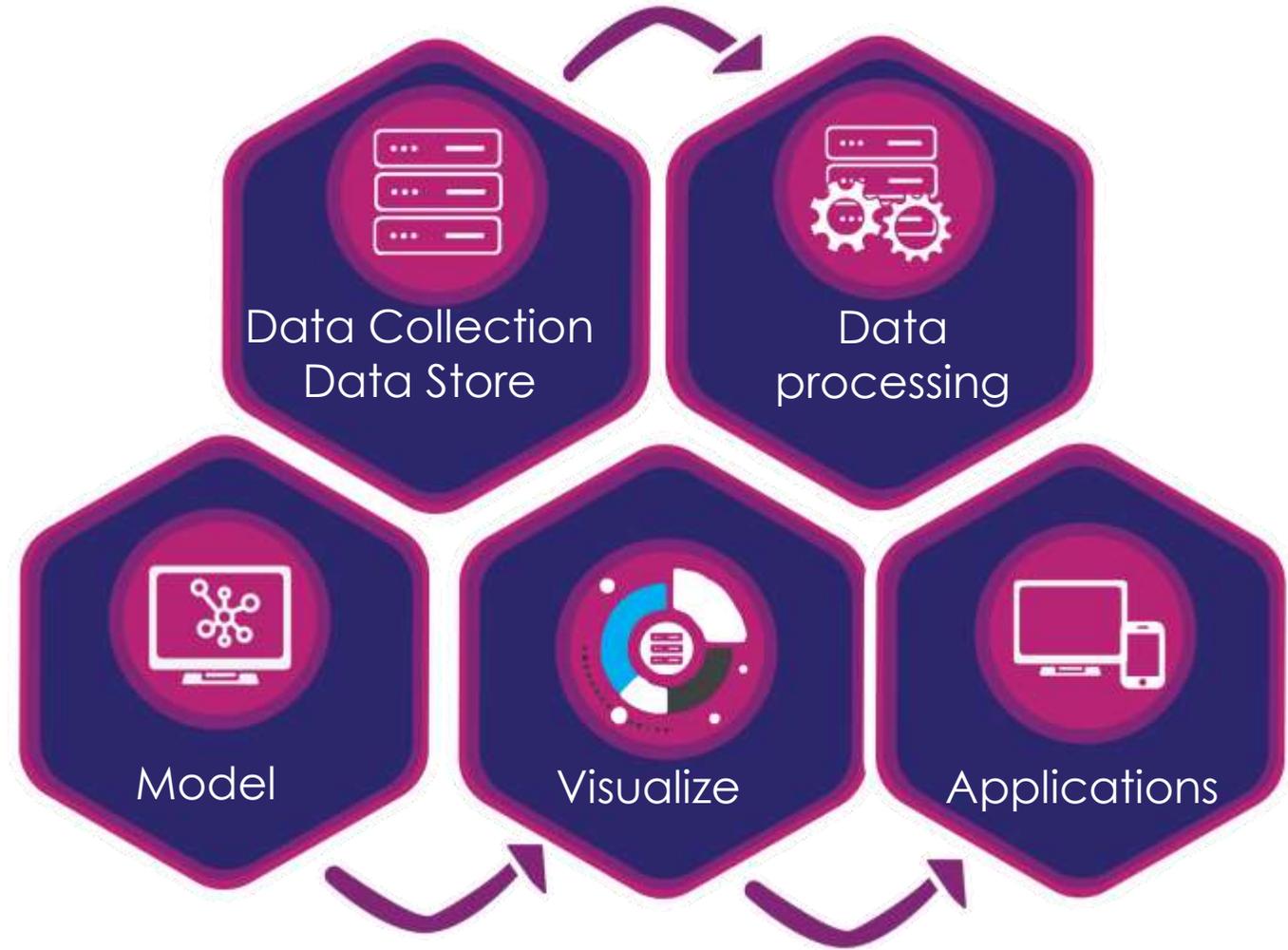
Knowledge creation

- Test beds
- Living labs
- Simulators



The Hit Portal

The H.I.T. Portal is a web-based data collection, management and aggregation provisioning platform designed, developed and maintained since 2008.



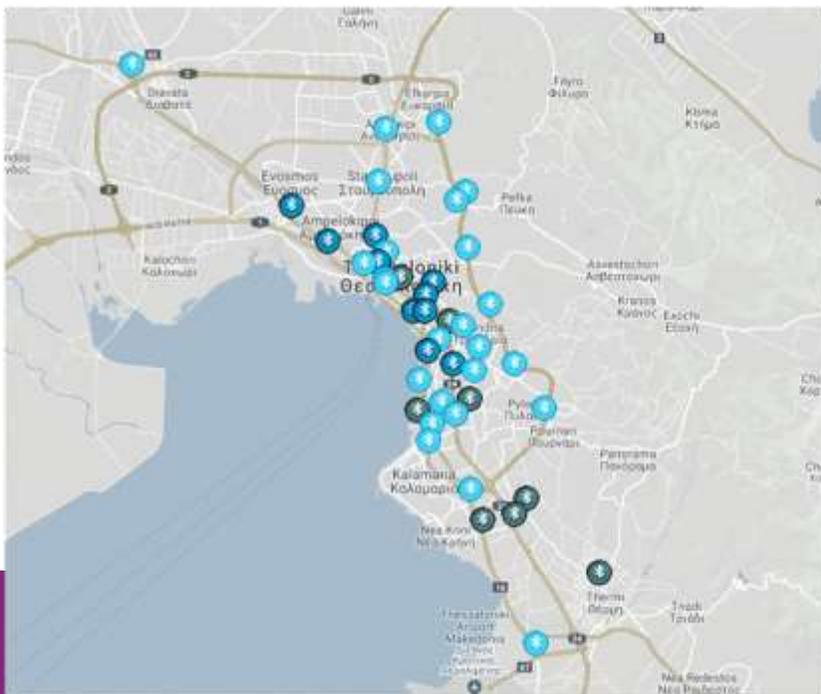


Data

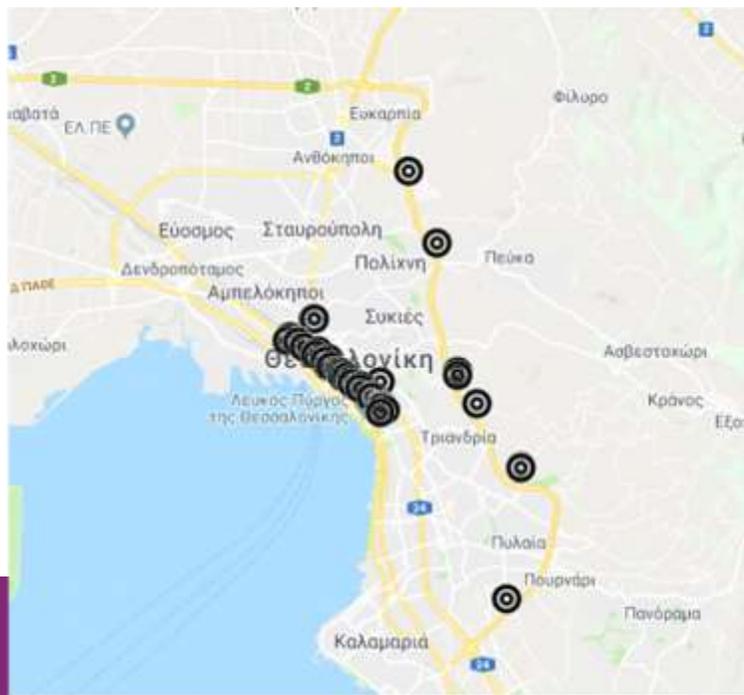
We aggregate data from our eco system with different types of Detectors.



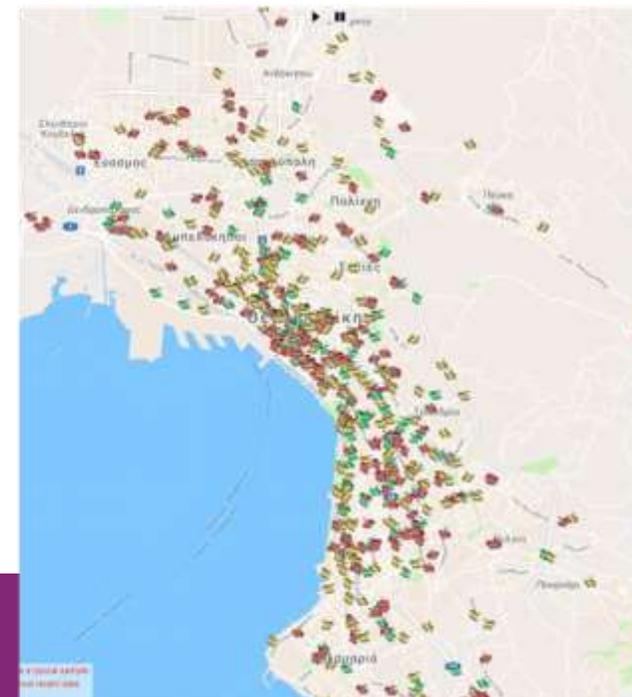
Bluetooth Detectors



Loops and Cameras



Floating Car Data





Data

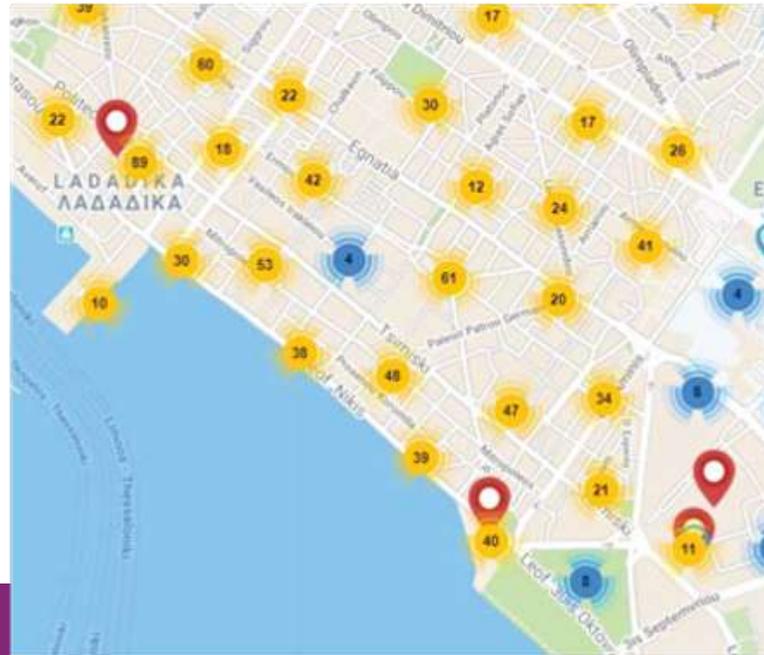
The processing of these data can lead to useful conclusions about current land use and may also reveal mobile mobility patterns that can be used to predict traffic conditions.



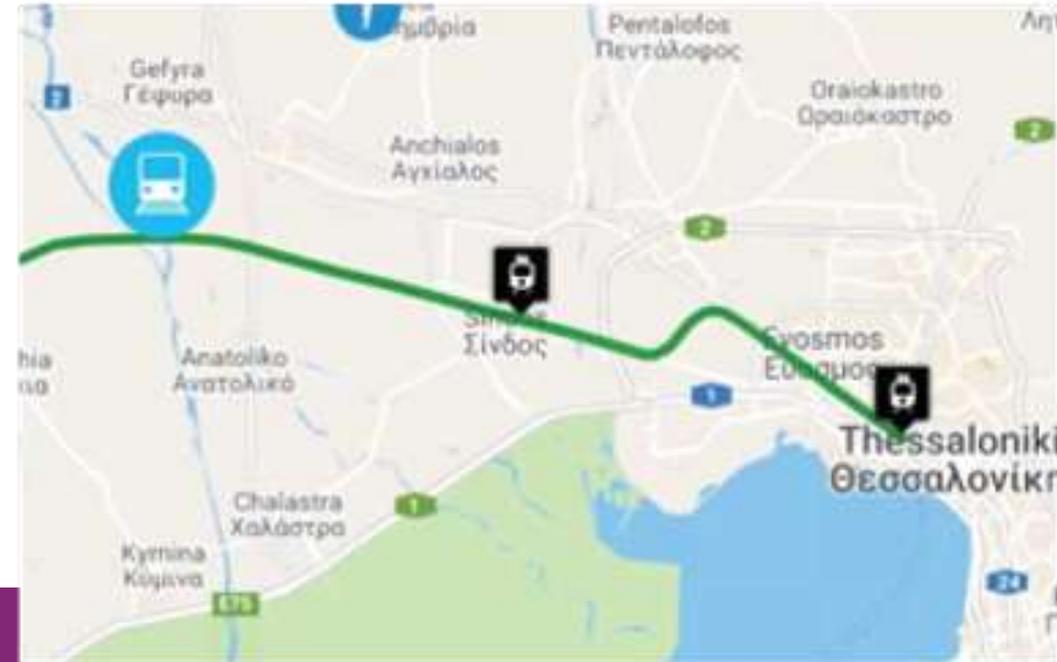
Smart Traffic Lights



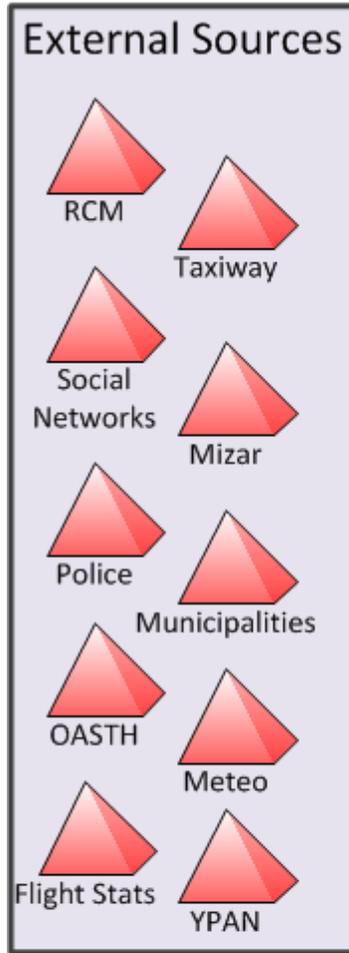
Facebook Graph API



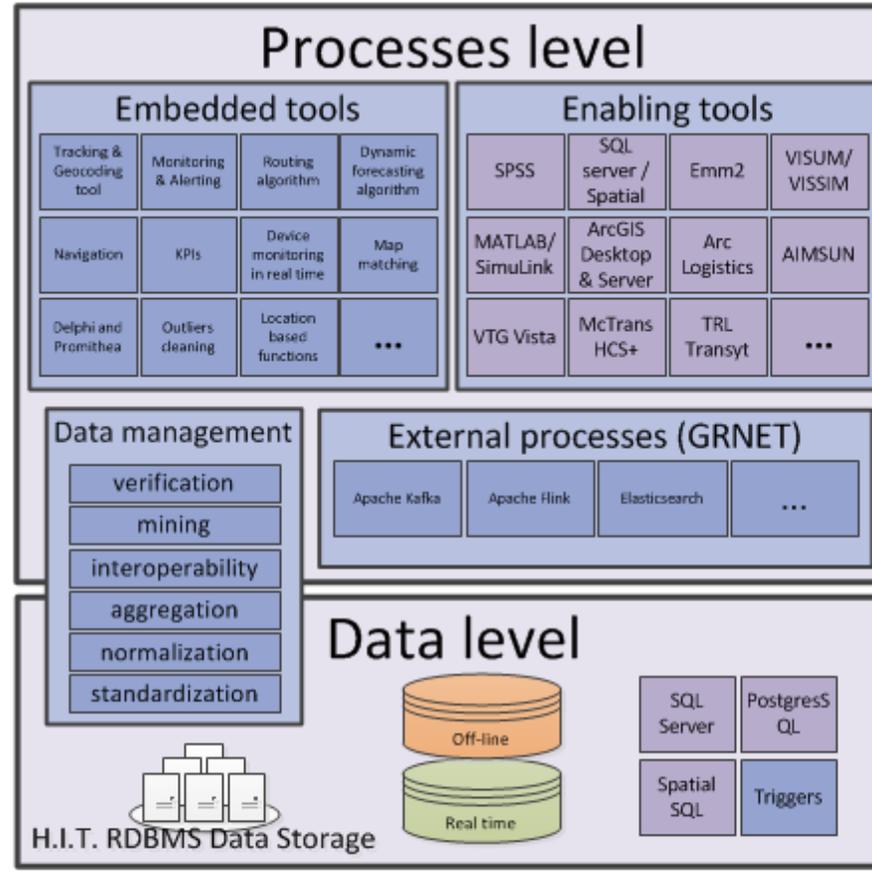
Floating Train Data



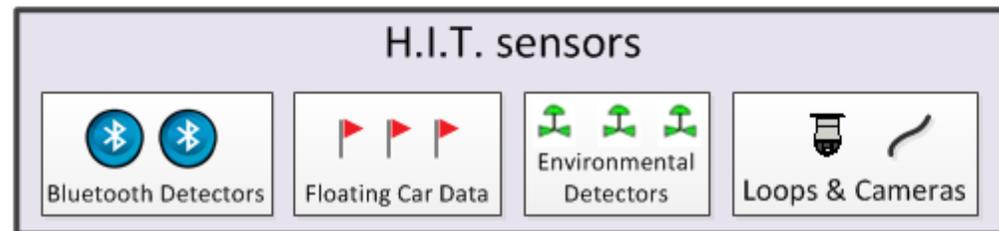
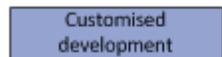
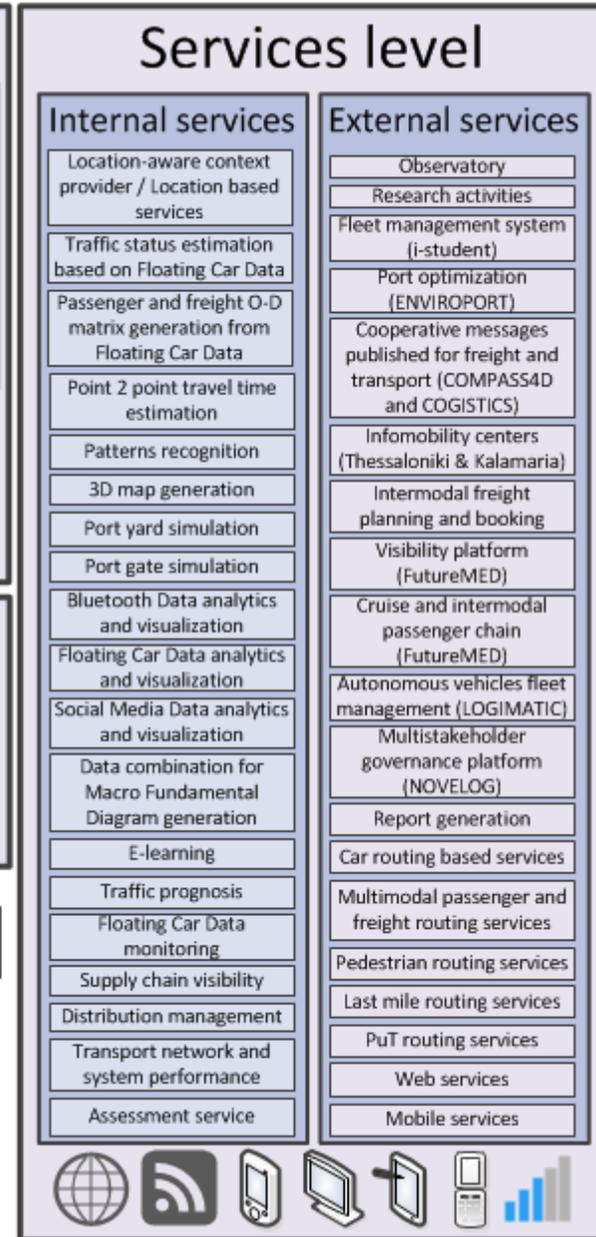
PORTAL SYSTEM



Interfaces, Web Services and data grabbers



Interfaces, Web Services and data grabbers



Services and Applications



Transport Observatory

Search and retrieve transportation related content.



Traffic & Routing Management

Provides information about traffic status in a region. Gives the ability to schedule a route from one point to another by different means of transport.



Network modeling and simulation

Provides tools to model and simulate transportation networks.



Application Development & Testing Platform

Enables users to develop and test their own applications using H.I.T. Portal.



Freight routing and logistics fleet management algorithms



The data of HIT PORTAL is available in the form of useful applications for the end user .

Applications

- www.trafficthess.imet.gr
- www.trafficpaths.imet.gr
- www.trafficthessreports.imet.gr
- www.opendata.imet.gr
- www.thessmd.imet.gr



Home / Organizations / CERTH-HIT / fcd-gps-historical

fcd-gps-historical

Followers: 0

Organization: Hellenic Institute of Transport (IIT)

CERTH-HIT

CERTH-HIT read more

Datasets Organizations Groups About Search

Dataset Groups Activity Stream

fcd-gps-historical

Floating Car Data in Thessaloniki, Greece (Historical datasets)

Data and Resources

Floating Car Data in Thessaloniki, Greece ... Explore

A new dataset is added at the end of each month. Additional information:...

Greece Thessaloniki fcd historical

The Team



The Team



Georgia Aifadopoulou
HIT's Deputy Director

Civil Engineering, Informatics, Transportation Planning Engineering, PhD in fleet routing and scheduling problems of transport fleets



Evangelos Mitsakis

Dipl. Civil-Transport Engineer, PhD in Transport Engineering-



Jason Papathanasiou

Dipl. Physics, PhD in Operational Research



Josep Maria Salanova Grau
Engineering-Management

Civil Engineer, Msc in Transport Engineering, PhD Transportation/ Mobility Management, Specialization in Data Science



Panagiotis Tzenos
Computer Science-IT

Computer Programmer, Msc in Communications Systems and Technologies



Georgios Tsaples

Electrical and Computer, Engineering, Msc in Engineering and Policy Analysis, Operational Research



Define mobility-related indicators
Minor support in the demos
Major support in the replication activities

Projects

Port Vehicle Management
Fleet management algorithm



MaaS algorithms development
System Pilot implementation, testing and reporting
Impact assessment
Data analytics and Business intelligence

Re-design KOMVOS
Big Data tools and knowledge
New data-sets and services



Human behavior modeling
Business model issues
System development
Pilot implementation, testing and reporting



Skills and Expertise



Algorithms development (fleet management, user clustering and vehicle routing)



Mobility modelling and systems simulation



Data analytics and visualization
Business Intelligence
Knowledge extraction



System development,
implementation and testing



Impact assessment and
qualitative interpretation

Stakeholders part of Thessaloniki smart mobility living lab (passenger transport)

Eco-system



Public Administration

- 
 Region of Central Macedonia
<http://www.pkm.gov.gr/>
- 
 City of Thessaloniki
www.thessaloniki.gr



Industry and technology providers

- 
 Intelligent Transport Systems
<http://www.its-hellas.gr/gr/>

Research and Academia

- 
 HIT (Hellenic Institute of Transport – Center for Research and Technology Hellas) Greece
www.hit.certh.gr
- 
 ARISTOTLE UNIVERSITY OF THESSALONIKI
www.auth.gr/en

Transport network operators

- 
<http://www.taxiway.gr>
- 
 Thessaloniki's Integrated Transport Authority
www.thita.gov.gr





Research Interests

