ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ ΤΜΗΜΑ ΠΟΛΙΤΙΚΩΝ ΜΗΧΑΝΙΚΩΝ

ΜΑΘΗΜΑ: ΕΥΦΥΕΙΣ ΠΟΛΕΙΣ, ΥΠΟΔΟΜΕΣ ΚΑΙ ΜΕΤΑΦΟΡΕΣ

Ακαδημαϊκό έτος 2015-2016 10° Εξάμηνο

<u>ΕΥΦΥΕΙΣ ΠΟΛΕΙΣ ΣΤΗΝ ΕΛΛΑΔΑ</u> ΗΡΑΚΛΕΙΟ ΚΑΙ ΠΑΤΡΑ – ΙΙ





GIFT 2.0: Logistics and Passenger transport in the Adrionion Macro-Region





GIFT 2.0: Greece-Italy Facilities for Transport

- Improvement of multimodal transportation for passengers and freight (Apulia, Western Greece) by coordinated management of existing infrastructure and services
- Personalized travel options, by combining realtime information on services, budget and preferences





Objectives

- Reduction of time&cost of transportation
- Better travel services in large hubs
- More effective function of hubs with less cost
- Strengthening of smart cross-border lines of multimodal transport
- Promoting training in innovative multimodal transport tools
- Support of transportation sustainable growth: ports, airports, suburban lines





«GIFT-freight» pilot for freight transport

- Platform and mechanism for matching supply and demand in freight transport
- Maximum coverage of vehicle capacity
- Use of information and user's dynamic profile
- Development of a reliable system, for achieving trust among members
- Support of a certification mechanism for transport quality





«GIFT-freight» pilot for freight transport

University of Patras established basis for:

- Logistics exchange of freight supply/demand data
- Maximizing use of full capacity using the electronic shipping manifest and participants dynamic profile





GIFT-freight pilot – Methodology (1/2)

- Development of a relational freight supplydemand database
- Development of a geographical information system
- Identification and establishment of user roles
- Integration of supply-demand matching logic





GIFT-freight pilot – Methodology 2/2

- Actions to attract qualified users
- Integrated installation/test of the pilot case
- Development of pilot case scenarios
- Exchange of freight data related to:
 - businesses,
 - o shippers,
 - shipping needs,
 - o shipping offers.





GIFT-freight pilot

Less-than-Container-Load

University of Patras:

- supports pilot platform optimization for freight modules (architecture, parameterization for EL application)
- uses GIFT platform to realise pilot for container traffic by testing EL application for:
 - data input,
 - user registration,
 - start-up operation.





«GIFT-passengers» pilot for passenger transport

- Platform for matching needs and preferences
- Full package for user (transportation, accommodation, touristic guide etc)
- User-friendly services (organized combination of wishes and needs)
- More credibility for participating companies, since participation works as a quality label
- Reduction of promotion & advertising expenses





«GIFT-passengers» pilot

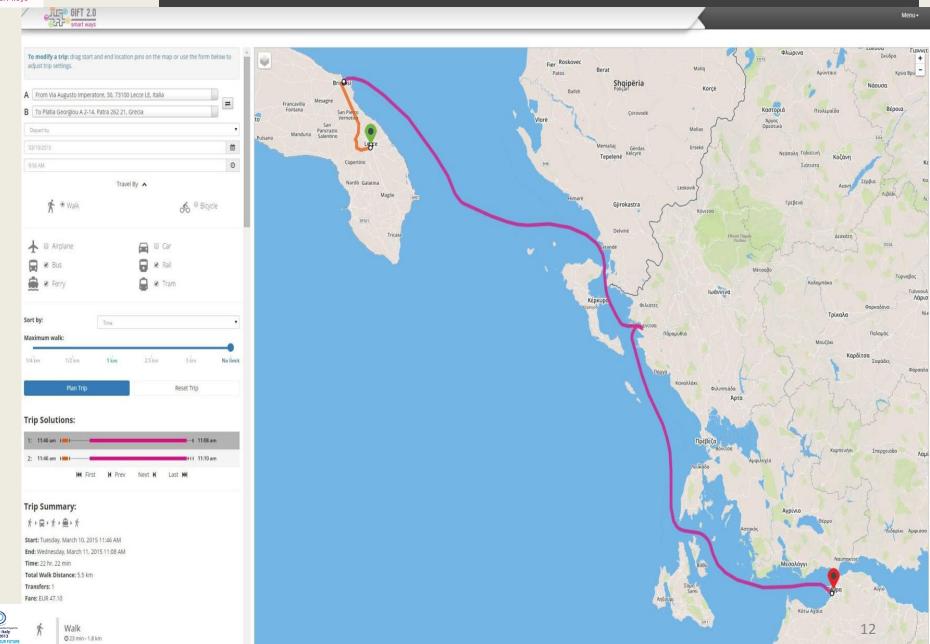
Tools for occasional users (integrates transport modes)

- Actors were brought together by Region of Western Greece
- Chambers provided participation of their members
- UPatras worked on development and parameterization of EL database by providing database architecture
- UPatras realized pilot for occasional users using GIFT platform





Example on use of platform

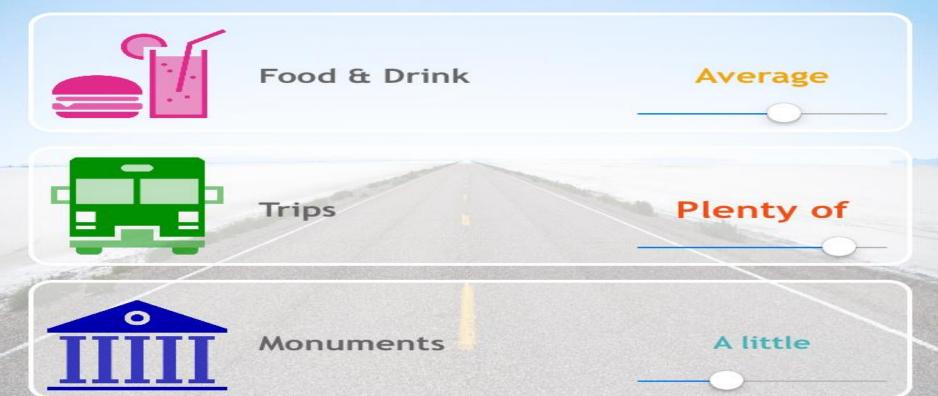








Adjust your route preferences:





GIFT 2.0

Input your route costs:



Budget

200,00



Time

260 min

Go back

Submit



GIFT 2.0

Suggested Points of Interest

	Juggesteu I	0111112	
1	Naupakto	s	

2 Georgiou I Square

Patras Castle

Old Municipal Hospital

Ancient Olympia

Sinialo

Vino di Vino

Mr Burger

100%



Participating enterprises

- Restaurants
- Coffee shops
- Gift shops
- Museums
- Car-rental companies
- Tourist agencies
- Site-seeing operators





Obligations

- Entering the system daily
- Presentation of the services which are provided
- Updating about special offers
- Real-time information when service is not available or service hours and days have changed





GIFT2.0 training activities

- Handbook about Training
- Training days/Workshops
- International Course about ITS and GIFT 2.0 content:
 - o student exchange,
 - short courses, presentations, labs, workshops, demonstration activities.





Capitalisation activities

- Megaregions
- TEN-T
- Connecting Europe Facilities
- Smart Cities and Communities
- Centre of Competitiveness



Crocodile 2 Connecting Europe Facility Transport

Member States

- Austria
- Cyprus
- Czech Republic
 - Germany
 - Greece
 - Italy
 - Poland
 - Romania
 - Slovenia



Crocodile 2

Project Coordinator: AustriaTech Beneficiaries & Implementing bodies in Greece:

- Ministry Infrastructure, Transport & Networks (Beneficiary)
- Egnatia Odos A.E. (Implementing body)
- Centre Res. & Technology Hellas (CERTH) -Hellenic Inst. Transport (HIT) (Implem body)
- University of Patras (Implem body)
- TEI Western Macedonia (Implem body)

Scope

 CROCODILE 2 involves public authorities, road administrations and traffic information service providers to ensure coordinated traffic management and control resulting in high quality traveler information services.

 Partners work together to improve crossborder traffic and transport through harmonized and synchronized ITS applications.

Objectives

University of Patras will:

- Develop & deploy technologically advanced systems for national highway network management
- Provide innovative services to travelers and contribute to key activities for ITS deployment on TERN in Greece.
- Support:
- (a) Exchange of information within the country and between countries, including info for safe travelling and safe and secure freight transport
- (b) Data management via coop across management plans
- (c) Positive impact on CO2

Actions

 Data collection and exchange: Systems and interfaces with National ITS Single Access Point and Data Warehouse.

2. Information for safe and secure freight transport: Coordination and communications for safe and secure parking places for commercial freight truck drivers along TERN, including information, communications and reservation services. Focus on transport of dangerous goods.

Actions

3. Architecture will support interoperability with road operators data centers, weather stations, ITS platforms.

Will develop simple, reliable and autonomous ITS service, based on fast transmission of road traffic data to travelers and truck users, especially on Truck Parking Areas (TPAs).

Low-cost, low-energy consumption devices installed permanently along road and low-cost, simple nomadic devices for trucks.

Actions

- **4. Information provision** to travelers: Multiple communications channels, including RDS-TMC.
- **5. Cooperation** for integrated traffic management and control via **national traffic management and coordination centre**: Virtual national traffic management centre covering all TERN, to process traffic data of all highway operators and owners in Greece, for integrated/coordinated traffic management plans.

Expected Results

Directly contribute to:

- Commission Delegated Regulation (EU) No 886/2013 on the provision of road safety-related minimum universal traffic information free of charge to users.
- Provision of information services for safe and secure parking places for trucks and commercial vehicles.
- Provision of EU-wide real-time traffic information services in line with EU regulation and policy.