





GREEN INTER-E-MOBILITY UPatras progress issues

5th Project Meeting

28/03/2022

Olybia Ageli, Junior Project Manager

UPatras activities

- Project Management & Communication activities (WP1 & WP2).
- Deliverable 3.6.3: Studies for the most efficient electric minibuses' route schedule (i.e., tourist-route, school-route) per Municipality
- Contribution to Del. 3.6.4: Study for the Vehicle-to-Infrastructure (V2I) communication systems & Tender Preparation for their procurement (WP3).
- Contribution to Del. 6.6.2: Tender Preparation & Procurement of the specialized equipment (instruments for the surveillance of the consumed energy, tracking of the e-vehicles, etc.) & Technical Evaluation of the whole system (i.e., installed charging-stations, route-network efficiency) (WP6).



University of Patras studies

Deliverable 3.6.3

Studies for the most efficient electric minibuses' route schedule per Municipality

(Bitola, Resen, Prespes & Florina)

Routes

Scheduling



Data Collection(1/2)

Data on current mobility needs & requirements

Modes that local citizens use for their daily transport

Awareness of public needs, including origins and destinations

Positions of stops and their popularity

Citizen needs and requirements for education, fitness, recreation, health & markets



Data Collection(2/2)

Electric vehicles characteristics

1 electric minibus (e-minibus)

- seven seats
- ☐ combined cycle autonomy: 389km
- ☐ mixed cycle autonomy: 200km
- ☐ city cycle autonomy: > 300km

1 electric utility car

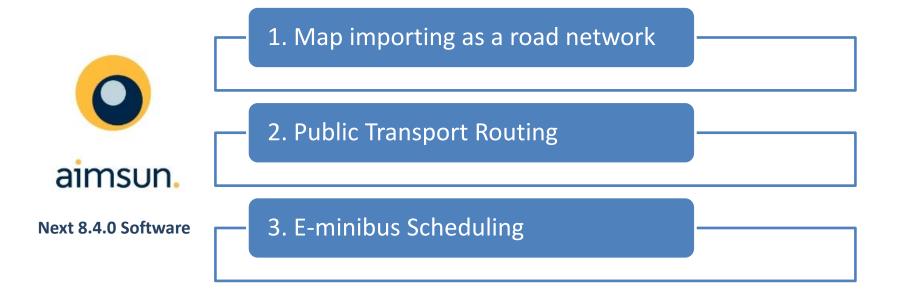
- ☐ five seats
- ☐ combined cycle autonomy: 270km

Charging of electric vehicles

charging station & grid-connected photovoltaic (PV) system

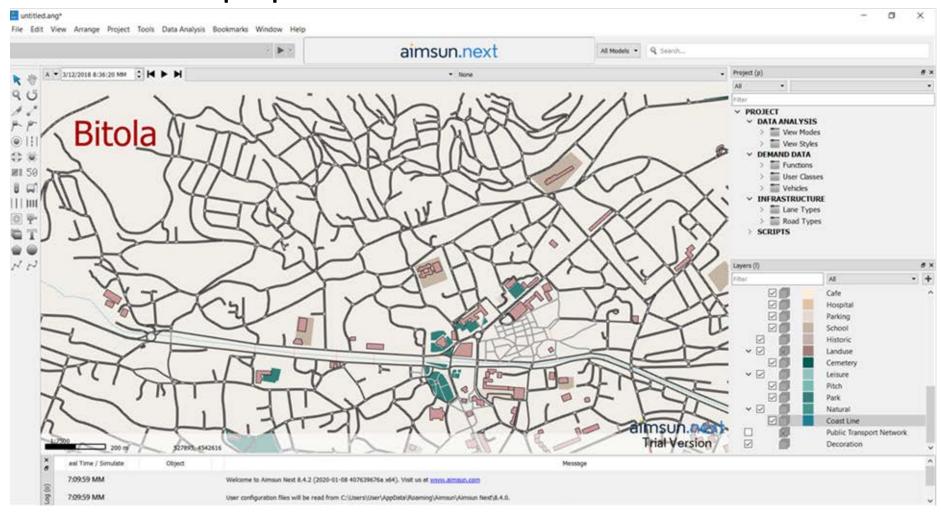


Public Transport Simulation





Bitola's map imported as a road network in Aimsun Next software



Main routes destinations

- 1. City Library St. Kliment Ohridski
- 2. City Stadium Tumbe Kafe
- 3. Trnovo Baba Mountain village
- 4. Pretor village- Prespa Lake
- 5. Krushovo town
- 6. Ohrida city
- 7. to Resen-Prespes-Florina



Route 1 (City Library St. Kliment Ohridski) and the intermediate stops



The suggested e-minibus scheduling for the four (tourist) routes

	1st Saturday of the month	
Time	Stop	
09:00 PM	Sports Hall Boro Churlevski	4
09:05 PM	Vero Super Market	4
09:08 PM	Faculty of Pedagogy	4
09:39 PM	Pretor village-Prespa Lake	4
10:08 PM	Faculty of Pedagogy	4
10:11 PM	Vero Super Market	4
1017 PM	Sports Hall Boro Churlevski	4

	2nd Saturday of the month	
Time	Stop	
09:00 PM	Sports Hall Boro Churlevski	6
10:03 PM	Ohrida	6
11:02 PM	Sports Hall Boro Churlevski	6

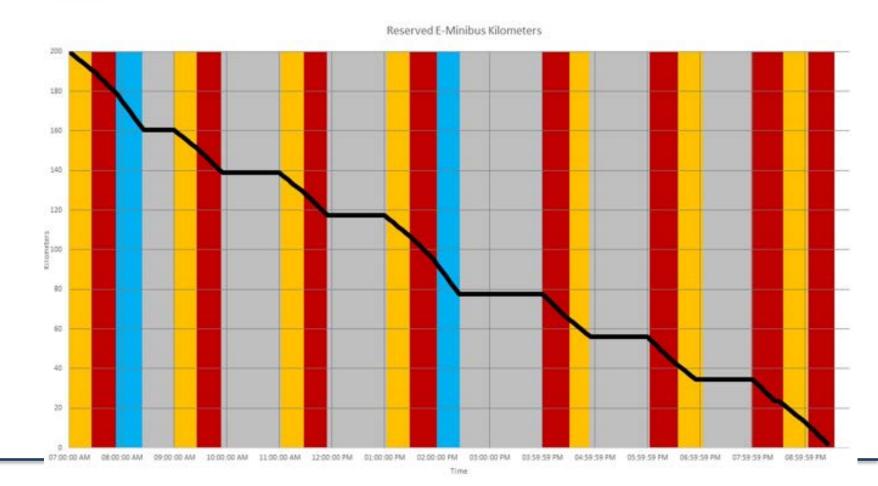
	1st Sunday of the month	
Time	Stop	
09:00 PM	Sports Hall Boro Churlevski	5
10:02 PM	Krushevo	5
10:52 PM	Sports Hall Boro Churlevski	5

	2nd Sunday of the month	
Time	Stop	
08:00 PM	Sports Hall Boro Churlevski	7
09:34 PM	Resen Town Hall	7
09:11 PM	Prespes Town Hall	7
09:54 PM	Florina Town Hall	7
10:23 PM	Sports Hall Boro Churlevski	7



The e-minibus' energy reserve, in kilometers remaining during a day





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Thank you!

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