



# Partner Searches from Israel H2020 Transport Calls 2018-19 (Brussels, Dec 13 2017)

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**MG-3-2-2018 The Autonomous Ship**  
**MG-BG-01-2018 Unmanned/Autonomous survey activities at sea**  
**MG-2-2-2018: Marine Accident Response**

**Organization: Puzzle Projects** [www.puzzlepro.co.il](http://www.puzzlepro.co.il) (SME)

**Contact Person:** Mr. Jonathan Ericson [Jonathan@puzzlepro.co.il](mailto:Jonathan@puzzlepro.co.il)

- **Provides project life cycle services for Maritime** (design, testing, Integration, operation, training, and implementation)
- Team with operational expertise in the maritime domain
- Expertise in **Unmanned/Autonomous Surface/Underwater Vehicles**
- **Project service manager for the first fully operational autonomous vessel in use today – PROTECTOR USV (Raphael Ltd.)**

**Looking to join** and provide their expertise to projects in the Maritime domain



## MG-3-2-2018 The Autonomous Ship

–**Organization: GPSDome** [www.gpsdome.com](http://www.gpsdome.com) (SME)

–**Contact Person:** Mr. Nir Gartzman  
[nir@thedockinnovation.com](mailto:nir@thedockinnovation.com)

GPSdome develops and manufactures a **Cyber devices against GPS blocking and jamming** designed to protect GPS-based systems for location and time synchronization from short-range disruptors.

Interested to join existing consortium

## MG-BG-01-2018 Unmanned and autonomous survey activities at sea

### MG-2-6-2019: Moving freight by Water

—**Organization:** DockTech <https://www.docktech.net/> (SME)

—**Contact Person:** Mr. Nir Gartzman [nir@thedockinnovation.com](mailto:nir@thedockinnovation.com)

DockTech is a water depth **analysis platform for ports and waterways**, offering **real-time view of water channels** as well as a pattern recognition based prediction

**Proposed Project Description:** Develop algorithms that use ‘crowdsourcing’ depth measurement data and AI analysis to **predict the sea bed depth areas** addressing the challenge to “Minimizing deep sea deployment and recovery costs”.

Interested to join existing consortium

(partners sought: ports, dragging companies, shipyards)

## MG-2-1-2018: Human Factors in Transport Safety

**Organization:** Faculty of Aerospace Engineering, Technion (RES)

**Contact person:** Prof. Arthur J. Grunwald [attiegr@gmail.com](mailto:attiegr@gmail.com)

Lab specializing in cockpit systems and human factors in flight and rail control systems

### **Proposed Project Description:**

- Enhancement of safety of standing passengers (elderly) by increasing their awareness and anticipation of changes in velocity
- Increase drivers performance and awareness of their passengers

**Consortium partners:** University of Montpellier (FR)

**Partners sought:** Metropolitan transport operators; Researchers on human factors related to posture, standing, audio-visual alerts

**MG-2-1-2018 Human factors in transport safety**

**MG-3-3-2018: "Driver" behavior and acceptance of automated transport**

**DT-ART-03-2019 Human centered design for the new driver role**

**Organization:** Studio ED&U (SME)

**Contact person:** Mr. Yakir Yaniv [Yakir@edu-studio.net](mailto:Yakir@edu-studio.net)

**Experts in human factors engineering** and user experience of products, industrial machinery, and working environments.

**Looking to join and contribute to projects in the following aspects:**

- User centered design, HMI, ergonomics and user research activities

**MG-2-1-2018: Human Factors in Transport Safety**

**LC-MG-1-1-2018: Reduction of transport impact on air quality**

**MG-2-9-2019: Low-emission freight transport**

**MG-2-4-2018: Coordinating national efforts in modernizing infrastructure**

**MG-4-2-2018: Building Open Science platforms in transport research**

**MG-2-7-2019: Safety in an evolving road mobility environment**

**Organization:** Israel Traffic Police (END USER)

**Contact person:** Mrs. Mali Sher [msher@police.gov.il](mailto:msher@police.gov.il)

**Looking to join** and contribute to projects that in the following areas:

- Contribute real **data on road accidents** (MG 2-1)
- **Traffic enforcement elements** (e.g. devices for monitoring noise and emissions) – data collection, identification of infringing vehicles (MG 1-1. 2-4, 2-9)
- **Big data analytics** and visualization methods (MG 4-2)
- The traffic police officer duty in the future (MG 2-7)

**MG-2-1-2018 Human Factors in Transport Safety**  
**DT-ART-02-2018 Impact assessment for road automation**  
**MG-3-3-2018 Driver behavior and acceptance of automated transport**

**Organization:** SafeMode [www.safemode.co](http://www.safemode.co) (SME)

**Contact Person:** Mr. Ido levy, [Ido@smode.co](mailto:Ido@smode.co)

Focusing on prevention of human based accidents (based on monitoring and incentivize drivers` behavior)

**Proposed Project Description:**

- Develop a system that monitors and affects drivers` behavior based on AI algorithms and behavioral economics
- Integrate the model into autonomous vehicles decision making systems
- V2V connectivity for real time risk management

**Partners sought:**

- Drivers monitoring solution: car sharing platforms, insurance companies
- Autonomous cars layer: car manufactures, V2V connectivity solutions



**MG-4-1-2018 New regulatory frameworks**

**LC-MG-1-4-2018 Hardening vehicle environmental protection**

**DT-ART-01-2018: Testing and certification for highly automated driving**

**MG-4-5-2019 An interconnected transport system meeting citizens' needs**

**DT-ART-04-2019 Developing and testing shared, connected and cooperative automated vehicle fleets**

**Organization: GuardKnox Cyber Technologies (SME)**

**Contact person: Mr. Dionis Teshler, [dionis@guardknox.com](mailto:dionis@guardknox.com)**

Provides **Cyber Security hardware solutions** for car manufacturers

**Looking to join** and contribute to projects in the following areas:

- Development of **cyber-security vulnerability assessments**
- **Regulatory requirements** (including data protection and privacy)

**DT-ART-01-2018 Testing, validation and certification procedures for highly automated driving functions**

**MG-2-7-2019 Safety in an evolving road mobility environment**

**Organization:** VAYAVISION [vayavision.com](http://vayavision.com) (SME)

**Contact Person:** Mr. Moshe Langer [Moshe.Langer@vayavision.com](mailto:Moshe.Langer@vayavision.com)

**Sensing and cognition systems for autonomous driving** (based on AI sensor fusion platform and “Point and Shoot” LiDAR)

**Proposed Project activities:**

**ART-01:** Develop automated **testing procedures** for automotive driving (eg identification of objects on the road - bicycles ,pedestrian walking between cars...)

**MG-2-7:** Develop automated **safety procedure** (such as: behavior prediction based on threat classification. and define driving route)

**Partners sought:** Automotive Industry (OEM, Tier 1 suppliers, vendors of driving decision and control modules); Academia: autonomous driving, algorithms,, Machine vision, LIDAR, RADAR,

LC-MG-1-1-2018 Reduction of transport impact on air quality

LC-MG-1-2-2018 Sustainable multi-modal inter-urban transport

LC-MG-1-3-2018 Harnessing and understanding the impacts of changes in urban mobility on policy making

**Organization: PGL Transportation Engineering and Planning [www.pgl.co.il](http://www.pgl.co.il) (SME)**

**Contact Person: Dr. Eyal Ashbel, [eyal.Ashbel@pgl.co.il](mailto:eyal.Ashbel@pgl.co.il),**

Transportation planning firm, with a wide variety of field-experts, operating in the domains of:

- **smart mobility**
- **Infrastructures**
- **urban transportation models and simulations**
- **GIS applications development**
- **Emission reduction**

Looking to join relevant projects, providing proven field experience, engineering expertise, software development, and project management capabilities.

## MG-2-8-2019 Applications of drones for ensuring safety in transport MG-2-7-2019 Safety in an evolving road mobility environment

**Organization:** Magna BSP [www.magnabsp.com/Industry](http://www.magnabsp.com/Industry) (SME)

**Contact Person:** Mr. Gideon Rosen [gideon@magnabsp.com](mailto:gideon@magnabsp.com)

3D video surveillance solutions

- Video analytics, incorporating sound, 3D images, HD video, thermal signature
- Based on deep learning algorithms
- Video analytics from drones cameras in real time

### **Project description:**

- Video analytics in real time for all weather conditions
- Camera On chip solutions
- Urban traffic monitoring and control

**Partners sought:** Camera manufacturer, drone manufacturer, drone service, provider, municipality (end user)

**Existing partner:** Imesapi Ltd. (Spain)

## MG-4-5-2019 An inclusive digitally interconnected transport system meeting citizens' needs and possibly

**Organization:** Save A Train [www.saveatrain.com](http://www.saveatrain.com) (SME)

**Contact Person:** Mr. Ishay Erel [ishay@3d-innotech.com](mailto:ishay@3d-innotech.com)

### **Proposed Project Description:**

- Applying **Dynamic Pricing concept/s and business model/s**
- Identifying innovative digitally based mobility solutions and passengers transport services
- Leveraging social media networks, needed in order to fully benefit from digitalization in transport, particularly in the Rail Industry.
- Trace the key obstacles to the adoption of such new digital mobility solutions

**Partners sought:** IT /Travel Technology group (Transport Consulting, Software solutions Groups) or a Revenue Management /Data Analytics consulting group possessing a scientific approach which is already active /offering YMS /RMS either in the Transport/Hospitality industries [Preferably working with Industry].

**MG-4-5-2019 An inclusive digitally interconnected transport system meeting citizens' needs**

**MG-4-2-2018 Building Open Science platforms in transport research**

**Organization: Initech software solutions (SME)**

<https://www.itech.co.il/en/connected-cars-mobility/>

**Contact Person:** Mr. Ishay Tentser [ishay@itech.co.il](mailto:ishay@itech.co.il)

Provides **software services to the automotive sector** (specializing in IoT, Big Data, AI technologies), providing:

- Data collection and storage on cloud platform – collect telmetry data
- Automated processing and analysis using machine learning algorithms.
- Data Analytics and Dashboard for cars, Voice and touch interfaces
- Web, mobile, and wearable applications (that can talk to the car)
- Data security & privacy - data anonymization for commercial usage.

Looking to join relevant projects, providing software and POC services

## DT-ART-04-2019: Developing and testing shared, connected and cooperative automated vehicle fleets

### Organizations:

- **NTB** - Management Planning & Control Ltd. - SME
- **BASHAN** - Command & Control Management Ltd. – SME

**Contact Person:** Mr. Joseph Lieberman [ntbisrael@gmail.com](mailto:ntbisrael@gmail.com)

### Activities:

- Traffic control and management models
- Software systems development for traffic management

Looking to join relevant projects, providing ICT system engineering and software development

## LC-GV-03-2019 User centric charging infrastructure

**Organization:** Bar-Ilan University (BIU), Department of Physics - laboratory for superconductivity & magnetism (RES)

<http://superconductivity.biu.ac.il/>

**Contact Persons:** Prof. Yosi Yeshurun [yesurun@mail.biu.ac.il](mailto:yesurun@mail.biu.ac.il),  
Dr. Shuki Wolfus [shuki.wolfus@gmail.com](mailto:shuki.wolfus@gmail.com)

**Proposed Project Description:** Improving **energy transfer efficiency in wireless charging** of electric vehicles (using advanced design methods from the lab expertise).

### Partners sought:

- Infrastructure companies and academic investigators
- Electric motor manufacturers
- Wireless charge companies and researchers



# LC-GV-03-2019 User centric charging infrastructure

## LC-GV-01-2018: Components and systems for next-gen electrified vehicles

**Contact Person:** Mr. Peter Graner [peterfixgreener@gmail.com](mailto:peterfixgreener@gmail.com)

### **Proposed Project Description:**

Development of an **Urban Autonomous Robotic Parking Facility** for Multiple-EV(18) **with ultra fast Charging** infrastructure and interconnected payment systems . Scalable infrastructure for ramp-up of expected electric mobility needs

**Partners sought:** Research institutes (eg Fraunhofer, Bremen), Industry (Robotics, Parking Infrastructure)



# Thank you for your attention

**For more information:**

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