



# Partner Searches from Israel H2020 Transport Calls 2020

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## MG-2-12-2020: Improving road safety by effectively monitoring working patterns and overall fitness of drivers

**Organization:** Tel-Aviv University, The Faculty of Medicine Israel

**Contact Person:** Prof. Navah Ratzon, [navah@tauex.tau.ac.il](mailto:navah@tauex.tau.ac.il)

<https://english.tau.ac.il/profile/navah>

- Research area: The use of innovative technology, such as In-Vehicle Data Recorder, eye trackers, etc., as well as traditional evaluations as part of off-road and on-road evaluation of fitness to drive.
- The research incorporates various populations, including the elderly, youth with ADHD, people rehabilitating from various health conditions (ex: CVA) and various professional groups (ex: bus drivers).

Prof. Ratzon would be interested in joining a multidisciplinary research project.

- Profile of partners: Academia, industry, government, NGOs

# LC-MG-1-12-2020: Cities as climate-resilient, connected multimodal nodes for smart and clean mobility: new approaches towards demonstrating and testing innovative solutions

**Organization:** The Environmental unit of the Sharon region

**Contact Person:** Ms. Hila Rotbart, [Ecoinnocationsharon@gmail.com](mailto:Ecoinnocationsharon@gmail.com)

<https://svivasharon.tik-tak.net/>

- **Main activity:** Consult, Develop and Implement for Innovative Environmental Solutions for the Sharon Municipalities.
- **Project Description:** Low Emission Mobility neighborhoods – The Sharon region, Israel Development and implementation of a comprehensive model to minimize the transport systems impact in urban neighborhoods.
- Currently they are coupled with Urban Living Lab for Smart Transportation in cooperation with the Sustainable Mobility forum of the Porter school of environment at Tel-Aviv University.

**MG-3-5-2020: Next generation multifunctional and intelligent airframe and engine parts, with emphasis on manufacturing, maintenance and recycling**  
**LC-GV-06-2020: Advanced light materials and their production processes for automotive applications**

**Organization:** Ben Gurion Univ. of the Negev, Israel

**Contact Person:** Prof. Eli Aghion, [egyon@bgu.ac.il](mailto:egyon@bgu.ac.il) or [nahmanym@bgu.ac.il](mailto:nahmanym@bgu.ac.il)

- Joining of AM components by fusion and solid state welding
- Integrating monolithic AM components & lattices with die casting products to create super light weight structures
- Joining AM products with wrought alloys

❖ **Proposed Project Idea: Developing innovative super light weight structures that combine AM components and cast/wrought products using welding and other advanced process technologies**

**Profile of partners: Academia and industry**

## DT-ART-06-2020: Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars

**Organization:** The Interdisciplinary Center Herzliya Israel (academic)

**Contact Person:** Yair Amichai-Hamburger, [yairah@idc.ac.il](mailto:yairah@idc.ac.il)

<https://www.idc.ac.il/en/research/cip/pages/home.aspx>

- Main reserach area: How to enhance wellbeing in the digital world.
- Proposed Project Idea: The researcher's expertise is how an individual's personality influences their behaviour in the digital world and the effect this has on their wellbeing. The researcher is looking to join a consortium for developing a project of designing an autonomic car with aspects of individual personality needs of the user. This will help to overcome the natural fears of this new technology and greatly increase the comfort levels of the users.

## LC-BAT-10-2020: Next generation and realization of battery packs for BEV and PHEV

### LC-BAT-13-2020: Sensing functionalities for smart battery cell chemistries

**Organization:** ALGOLiON Ltd. [www.algolion.com](http://www.algolion.com) Industry/SME

**Contact Person:** Niles Fleischer, CEO [niles@algolion.com](mailto:niles@algolion.com)

- Main reserach area: predective diagnostic software for preventing battery safety hazards; embedded firmware; market entry level
- Advanced functionalities of safety prognostics to battery management.
- **Warning diagnostic software** for hardware BMS of **electric vehicle** to enable trigger for cooling system, safer fast charging, and real time detection of state of safety.
- **Battery testing services** for degrading cells to point of failure thermally, physically, and performance ageing.
- Partners sought: Looking for good mix of automotive OEMS, electronics/BMS companies, and academia.

## MG-3-7-2020: Improved Production and Maintenance Processes in Shipyards

**Organization:** Smart Israeli Chemicals for Sustainability Ltd

**Contact Person:** Haim Sternfine, CEO [niles@algolion.com](mailto:niles@algolion.com)

- Using a catalytic oxidation process based on the circulation of water suspension carrying nanomaterials across open spray tower.
- Dual/Hybrid scrubber. Can treat SO<sub>2</sub> by seawater FGD in open-loop working mode or both SO<sub>2</sub>/NO in a close loop in NECA areas
- Partners sought: Looking for potential partners: Shipyards ,ship owners ,ship designers ,metal works for scrubber fabricator, fertilizer producer (NaNO<sub>3</sub>)

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## More topics with very high interest in Israel

- **LC-GV-06-2020: Advanced light materials and their production processes for automotive applications**
- MG-2-12-2020: Improving road safety by effectively monitoring working patterns and overall fitness of drivers
- **MG-3-6-2020: Towards sustainable urban air mobility**
- MG-3-5-2020: Next generation multifunctional and intelligent airframe and engine parts, with emphasis on manufacturing, maintenance and recycling
- **MG-2-11-2020: Network and traffic management for future mobility**
- MG-3-7-2020: Improved Production and Maintenance Processes in Shipyards
- MG-BG-03-2020: Under water noise mitigation and environmental impact
- DT-ART-05-2020: Efficient and safe connected and automated heavy-duty vehicles in real logistics operations
- DT-ART-06-2020: Large-scale, cross-border demonstration of connected and highly automated driving functions for passenger cars
- **And more... come to speak with me to explore more opportunities.**



# Thank you for your attention

**For more information:**

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