

W E L C O M E

Launch Event

03.06.2020

PROGRAM



Greetings

Dr. Anat Bonshtien, Chairwoman and Director, Smart Mobility Initiative
at Israel's Prime Minister's Office

Powering Public Mobility

Dr. Oren Shoval, Co-founder and CTO, Via

The Israeli Smart Transportation Research Center (ISTRC) - Presentation

Prof. Yoram Shiftan, Head, ISTRC and **Tchiya Allon**, General Manager, ISTRC

The Rapidly Changing Landscape of Traveler Behavior and Values: Emerging Technologies and an Unexpected Pandemic

Prof. Ram Pendyala, Professor, School of Sustainable Engineering
and the Built Environment, Arizona State University



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The Israeli Smart Transportation Research Center

Prof. Yoram Shifan, Tchiya Allon
Technion





About The Center

The Israeli Smart Transportation Research Center at the Technion in collaboration with Bar-Ilan University was established jointly by the Smart Mobility initiative in Israel's Prime Minister's Office and the Council For Higher Education, with the aim of encouraging research and development, entrepreneurship and industry in the field of smart mobility in Israel.

The establishment of the center represents a significant and important step in the implementation of the Israel's National Plan for Smart Mobility, and another step towards making Israel a leading center of knowledge in this area.

Smart Transportation Zero Externalities Vision





Vision

Be the center of choice for smart transportation

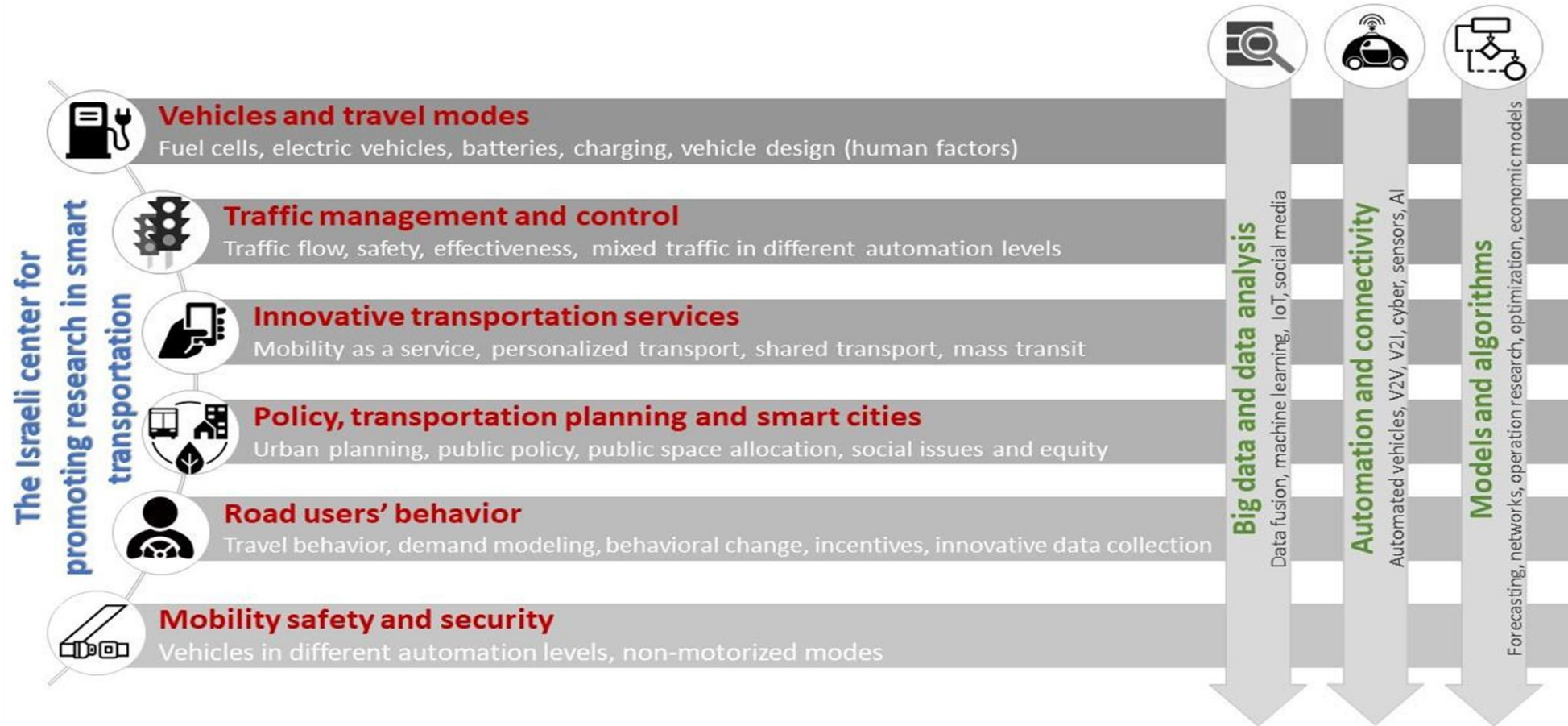
Research and Development community; leverage the overall research activities and position Israel as a world leader in the field

Goal 1 - Research

Generate cutting edge collaborative research, insights and knowledge

- Initiate and leverage joint research
 - Inter disciplinary
 - Inter sectorial
- Professional committees (needs and gap analysis)

Professional Committees



Goal 2 – Human Capital

Develop and empower human capital

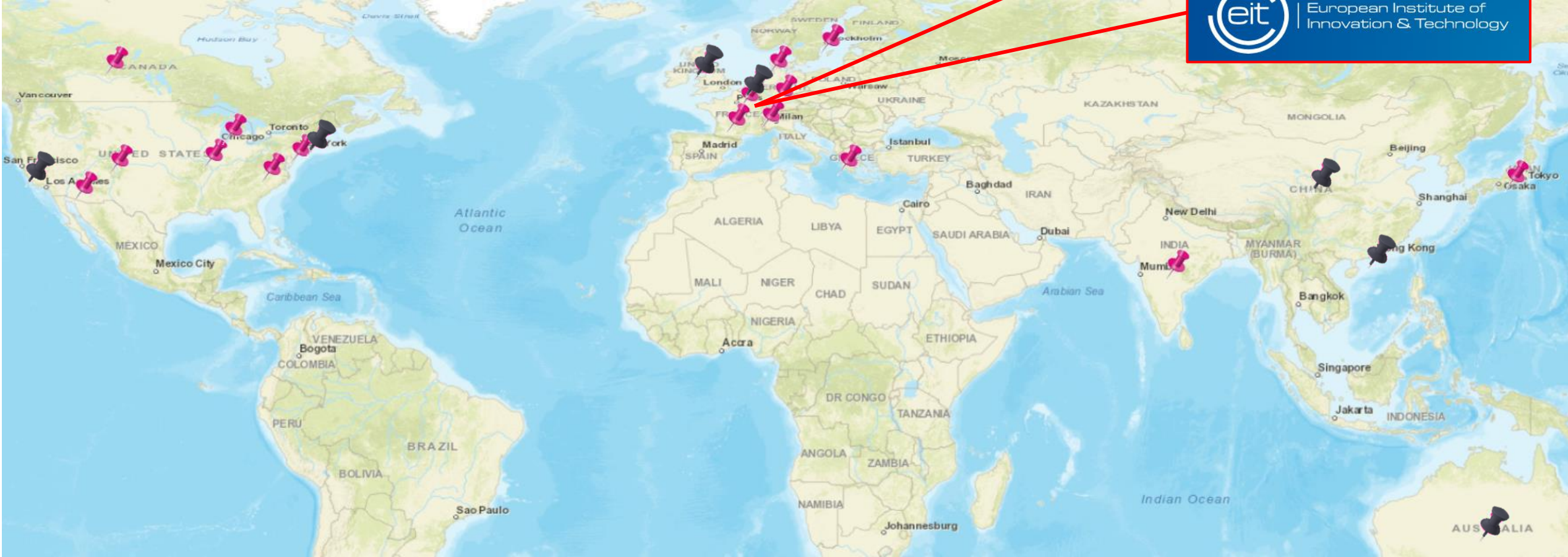
- Scholarship for students and researchers
- Dedicated learning program

Goal 3 - Community

Establish an R&D community to boost effective collaboration and inspire innovation

- Professional committees (interdisciplinary, all academics)
- Local and international conferences

International Support & Collaboration



Goal 4 – Hub

Knowledge Center for Research & Development

- Portal & support center
- Expand open data bases

Advisory Board

- Dov Moran, Grove Ventures
- Zohar Zisapel, Rad Group
- Rafi Nave, Samuel Neaman Institute
- Barak Goldstein, Terra Venture Partners
- Prof. Nathan Gartner
- Prof. Dan Arieli
- Prof. Nicole Adler
- Prof. Hillel Bar Gera
- Prof. Moshe Ben-Akiva
- Dr. Tsippy Lotan
- Orlie Dahan, EcoMotion

Center Management



Erez Dagan



Gai Berkovich



Prof. Yoram Shiftan
Head of Center



Prof. Avigdor Gal



Prof. Itzhak Benenson



Avi Tamir



Dr. Oren Shoval



Tchiya Allon
General Manager



Prof. Sarit Kraus



Prof. Doron Aurbach

Steering Committee

- Prof. Yuval Alovichi - Ben-Gurion University of the Negev - Committee Chair
- Dr. Anat Bonshtien - Chairwoman and Director, Smart Mobility Initiative at Israel's Prime Minister's Office
- Dr. Irit Juwiler - Shamoon College of Engineering
- Prof. Daniel Shefer - Technion
- Shimon Yitzhaki - Planning & Budgeting Committee, Council For Higher Education

First Year - Focus

Establish the center foundations

- Define working plan, roles, processes & methodologies and recruit staff

Establish the Smart Transportation Research Community

- Nominate 9 professional committees chairs & forum
- Academy survey - design to map researches, areas of interest, willingness to participate & review proposals
- Knowledge gap research
- Launch event
- Annual conference

Needs assessment - Define operational activities promoting research and human capital development

- Stakeholders survey

Call for Scholarship - Research Awards & Conferences

Call for Research - “CoroNa” and first main call

Portal - Put in place effective up-to-date knowledge center, reflecting the accumulated knowledge in the field



Committees Chairs - Transportation content

1. Vehicles and transport modes - Prof. Amir Shapiro, Ben-Gurion University of the Negev
2. Traffic management and control - Prof. Jack Haddad, Technion
3. Innovative transport services - Dr. Yuval Hadas, Bar-Ilan University
4. Policy, transportation planning and smart cities - Prof. Eyal Yaniv, Bar-Ilan University
5. Road users' behavior - Prof. Erel Avineri, Afeka, Tel Aviv Academic College of Engineering
6. Mobility safety and security - Prof. Wafa Elias, Sami Shamoon College of Engineering, Ashdod

Committees Chairs - Additional disciplines

1. Big data and data analysis - Dr. Ayelet Gal-Tzur, Ruppin Academic Center
2. Automation and connectivity - Prof. Shraga Shoval, Ariel University
3. Models and algorithm - Prof. Alfred M. Bruckstein, Technion

Professional Committees Roles & Responsibilities

Committees Members

Academia, Industry and Decision Makers / Public Sector

Roles & Responsibilities

- Define focus areas & recommend activities
- Define Priorities
- Define Call for Research
- Take part in proposals review & selection
- Gather cutting-edge knowledge & activities in the committee domain
- Bring together stakeholders in the field
- Identify strategic interfaces & encourage research collaboration
- Provide cutting edge knowledge to the center's newsletter, portal, center conferences and workshops

Committee Chairs' Forum

- Discuss center's strategic issues and recommend research directions

Outcome

Call for Scholarship – Overall 53 applications (7 Israeli academic institutions)

- Research Awards - 41
- Conferences – 12

Research Gap Analysis – 9 in progress

“CoroNa” Call for Research – Overall 38 proposals (13 Israeli academic institutions)

- Traffic management & control - 2
- Transport planning - 20
- Road safety - 1
- Electrical engineering - 2
- Chemistry - 1
- Mechanical engineering - 4
- Computer science - 2
- International trade, ships - 1
- Industrial/technological management - 5

Coming Soon

- Virtual Annual Conference – **Smart Transportation in Challenging Reality**
- Call for Research – Main call for next year (תשפ"א)
- Call for Scholarship - Research Awards & Conferences (תשפ"א)
- Students' Conference
- Web Site → Portal

Thank you and **PLEASE CONTACT US**

istrc@technion.ac.il

Fill out our [Stakeholders survey](#) or [Academy survey](#)