The Institute for Applied Research in Responsible Artificial Intelligence

Shaping the Future of AI – Responsibly
Holon Institute of Technology (HIT), Israel

About the Institute

The Institute for Applied Research in Responsible Artificial Intelligence at HIT was established with the goal of ensuring that transformative developments in AI are pursued with ethical, regulatory, and social responsibility at their core.

The institute brings together academic research, technological innovation, and field-based implementation. Through partnerships with government agencies, industry, healthcare systems, and educational institutions, we promote applied, cross-sector approaches to ensure that AI serves society—rather than shapes it unchecked.

Mission and Objectives

- Advance interdisciplinary, applied research in artificial intelligence with an emphasis on ethics, regulation, and public policy.

- Support the responsible development and deployment of AI technologies across critical domains, including healthcare, smart cities, mobility, and education.

- Establish professional consortia to facilitate collaboration among key stakeholders—governments, industry, and civil society.

- Develop innovative implementation models, including regulatory sandboxes and clinically guided frameworks.

- Cultivate the next generation of AI professionals: researchers, policymakers, developers, and regulators.

Core Areas of Activity

The Institute currently operates across three flagship consortium tracks:

1. Health & AI Consortium – Personalized Medicine

We are currently developing Israel's first regulatory sandbox for AI in personalized medicine. The pilot, in collaboration with healthcare providers, hospitals, and tech companies, aims to test AI-based clinical decision support tools designed to serve complex patients with multiple chronic conditions (*multi-morbidity*).

Key components include:

- Secure research environments with access to real-time, anonymized clinical data

- Personalized decision support models

- Transparent, auditable, and explainable AI systems

- Local and international clinical-regulatory partnerships

2. Smart Cities & Mobility Consortium

A dedicated working group is advancing AI-based applications for urban services, infrastructure management, road safety, and sustainable mobility.

Focus areas include:

- Traffic flow forecasting and congestion mitigation
- Real-time video analysis from urban cameras
- Inclusive transportation solutions for varied populations
- Smart energy and fault prediction in municipal systems

Future projects will involve collaborations with municipalities (including neighborhood-scale pilots), infrastructure providers, and AI startups.

3. Future Workforce Consortium – *"A New Gateway"*

In partnership with Israel's Employment Service, Ministry of Economy, and National Insurance Institute, the Institute is developing an innovative pilot to enable unemployed individuals to become tech entrepreneurs—even while receiving unemployment benefits.

Pilot stages include:

1. Mapping of emerging labor market trends
2. Designing policies for "entrepreneurial unemployment"
3. Launching practical training in entrepreneurship, AI, and digital tools
4. Continuous mentoring and impact evaluation (business resilience, long-term success)

Our Team

- **Dr. Hadas Lorber** – Director, member of Israel's National Expert Forum on AI Policy; Chair of International AI Strategy Working Group
- **Dr. Hadas Levi** – Head of Digital Health
- **Dr. Galit Wollner** – AI Ethics
- **Dr. Kobi Barda** – Labor & Social Resilience
- **Dr. Hagit Mishor-Tal** – EdTech & AI in Education
- **Dr. Meital Amzalag** – AI Ethics
- **Dr. Maya Osher** – AI Ethics
- **Dr. Mali Shar** – Smart Mobility
- **Dr. Anat Meir Shade** – Smart Mobility
- **Dr. Eran Barak Medina** – Learning and AI

Supervision

- **Dr. Refael Barkan** – Vice President for Innovation, Entrepreneurship, and Internationalization

- **Prof. Ilya Levin** – Head, School of Computer Science

Interested in Collaborating?

We invite academic institutions, governmental bodies, tech companies, healthcare systems, municipalities, and civil society organizations to join us in designing frameworks for the responsible implementation of artificial intelligence.

✉ Contact us: hadaslo@hit.ac.il

"Technology is just the tool—our responsibility is to shape the way it shapes us."