

AgriFoodIndustry Expo

May 2021

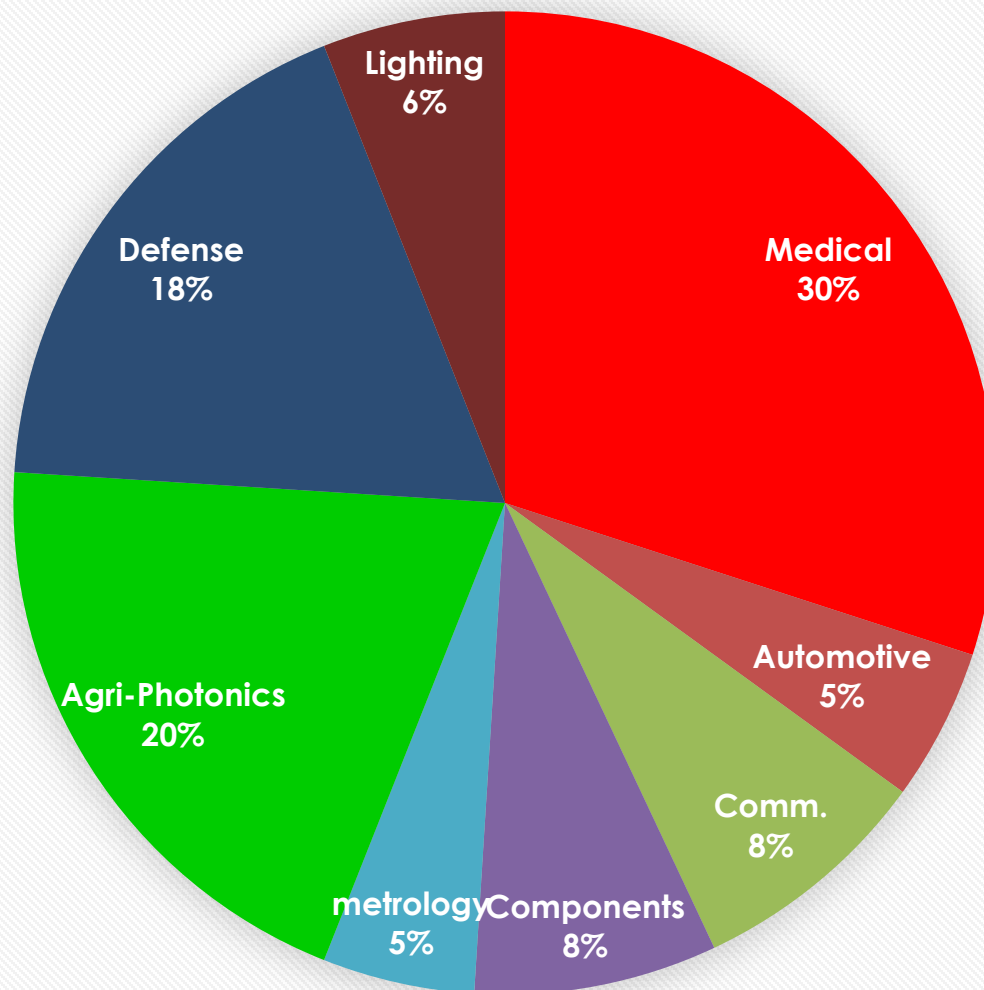
Photonics Israel Association

Israeli Photonics Ecosystem

- ❖ Strong academic basis – more than 500 researches in 7 universities.
- ❖ More than 350 Photonics entities.
- ❖ More than 20,000 employees (5,000 in R&D).
- ❖ About 80% are startups.
- ❖ Advanced National Photonics center.
- ❖ Strong infrastructure for research, development, production, assembly & testing.
- ❖ Total industrial revenues – above \$6B (90% export).

Photonics Entities in Israel

Sectors



Agri-Photonics entities in Israel

❖ About 70 Entities.

❖ Academic Institutions:

- Hebrew University.
- Weizmann Institute.
- Technion.

❖ Research Institutions:

- Agricultural Research Organization (ARO) - Volcani Center.
- MIGAL Galilee Research Institute Ltd.

❖ Example of Agri-Photonics branches:

- Detecting disease and pests in crops.
- Monitoring of the growth process.
- Sensing systems for irrigation and fertilization.
- In-field testing laboratory.
- Robotic fruit harvesting.
- Farm management platforms.
- Automated crop monitoring.
- Vertical hydroponic platforms.
- Soil sensor technology for precise irrigation.

Photonics Israel Association

- Photonics Israel is the association of the Photonics entities in Israel.
- Our mission: Joining forces of all the members in the photonics ecosystem in Israel, in order to enable a significant growth of the photonics entities, the national economy and promote international cooperation.
- We are operating within the AEAi* – The **A**ssociation of **E**ngineers, **A**rchitects and **G**raduates in **T**echnological **S**ciences in Israel.

How do we operate

- Enhancing cooperation between all Photonics entities in Israel.
- Establishing communication channels with the international photonics community.
- Promoting the needs of the industry at the national level.
- Intensifying Photonics education and training at all levels.
- Participating in international committees and forums.

Snapshot on last year activities

Monthly newsletter.

Seminars:

- German - Israeli on Medical Photonics.
- German - Israeli on Agri-Photonics.
- German - Israeli on Automotive Photonics.

Snap-shot on last year activities-Cont.

- Weekly webinars, address various Photonics topics.
 - Conducting a course on “Introduction to EO systems” for engineers.
 - Preparing the syllabus of Photonics courses for engineers (as of 2021) on:
 - System Engineering.
 - Lasers.
 - Optics.
 - Sensors.
- The courses will address the characterization, design considerations, Integration and Testing.

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- Organizing the Photonics Days IL conference To take place on June 7 – 9, 2021. Topics will cover technologies & applications.

Conference site, program & registration: <https://photonics.aeai.org.il>

ORGANISATIONAL CHART

Photonics Israel Team



HAIM ROUSSO

CO-CHAIR



DAN VILENSKI

CO-CHAIR



JUDITH LEVINSON

SCIENTIFIC INFO.



SHLOMO GLAZER

GM



NOFAR
SHARAN REICHER

COO & CMO

COO - Chief Operation Officer
CMO - Chief Marketing Officer
GM - General Manager



Thank You