

**Photonics Israel**

The Association of Photonics  
Industries in Israel

לשכת המהנדסים  
האדריכלים והאקדמאים  
במקצועות הטכנולוגיים  
בישראל

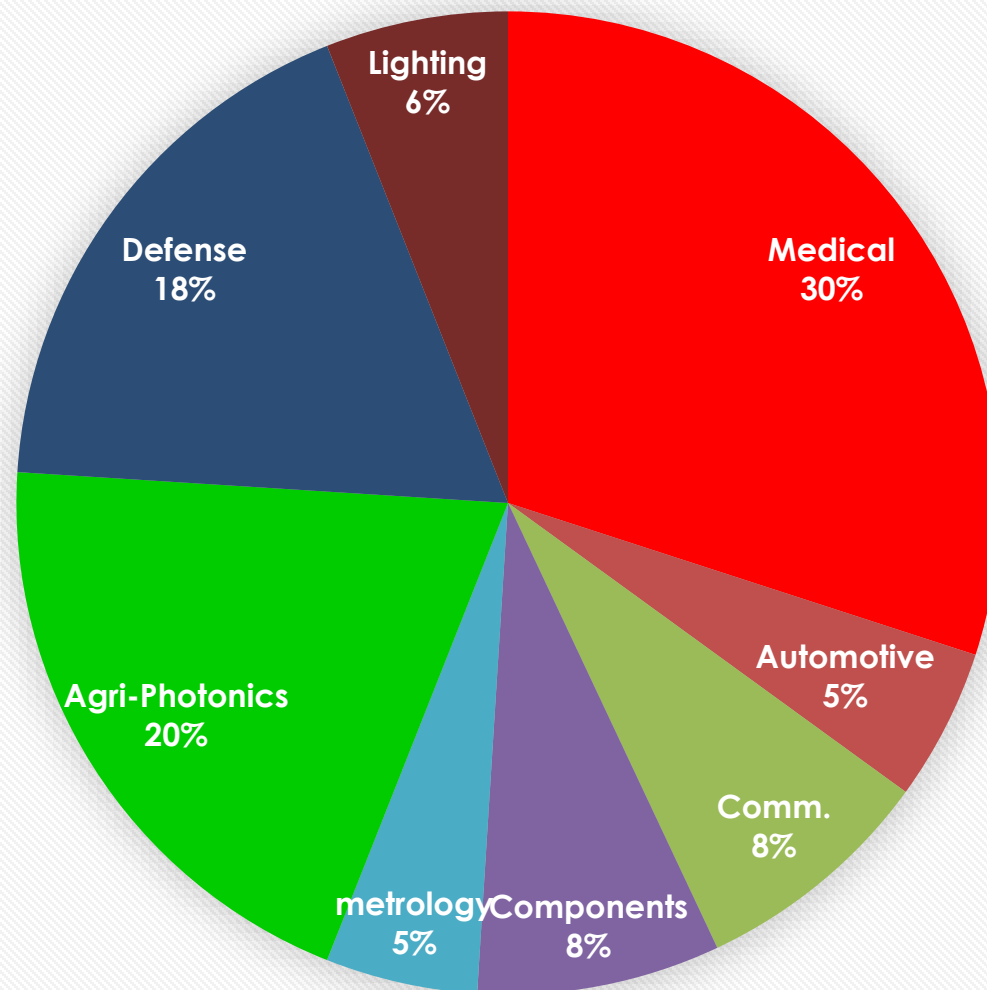


# Photonics Israel Association

- ❖ Strong academic basis – more than 500 researches in 7 universities.
- ❖ More than 400 Photonics entities.
- ❖ About 80% are startups.
- ❖ Advanced National Photonics center – ICAP (Israel Center for Advanced Photonics).
- ❖ Strong infrastructure for research, development, production, assembly & testing.
- ❖ Total industrial revenues – above \$6B (90% export).
- ❖ More than 20,000 employees (5,000 in R&D). Significant shortage of engineers and technicians.

# Photonics Entities in Israel

## Sectors



- 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.

☐ Monthly newsletter.

☐ Seminars:

- German - Israeli on Medical Photonics: 01/2020
- German - Israeli on Agri-Photonics: 09/2020
- German - Israeli on Agri-Photonics: 10/2020
- German - Israeli on Automotive Photonics: 02/2021

- ☐ 40 webinars, address various Photonics topics.
- ☐ Conducting a course for engineers on “Introduction to Photonics systems”.
- ☐ In our Queue, photonics courses for engineers (as of 2021/2) on:
  - System Engineering.
  - Lasers.
  - Optics.
  - Photonics Sensors.
  - Photonics [Instrumentations](#).

The courses will address the characterization, design considerations, Integration and Testing.

- ☐ Conducting the Photonics Days IL conference on June 7 – 9, 2021. Topics were covered technologies & applications.

**Photonics Israel site:** <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

## Goals:

To represent and promote all those involved in technology and to assist in their professional development as innovative entrepreneurs, movers and leaders throughout their professional lives and according to the economy's changing needs.

To promote the entire range of **engineering, architectural and technological professions** in both academic and industrial fields and wherever they intersect.

To unite all those involved in technological development under one roof, as one, **innovative community** that initiates, cooperates, develops, contributes and grows.

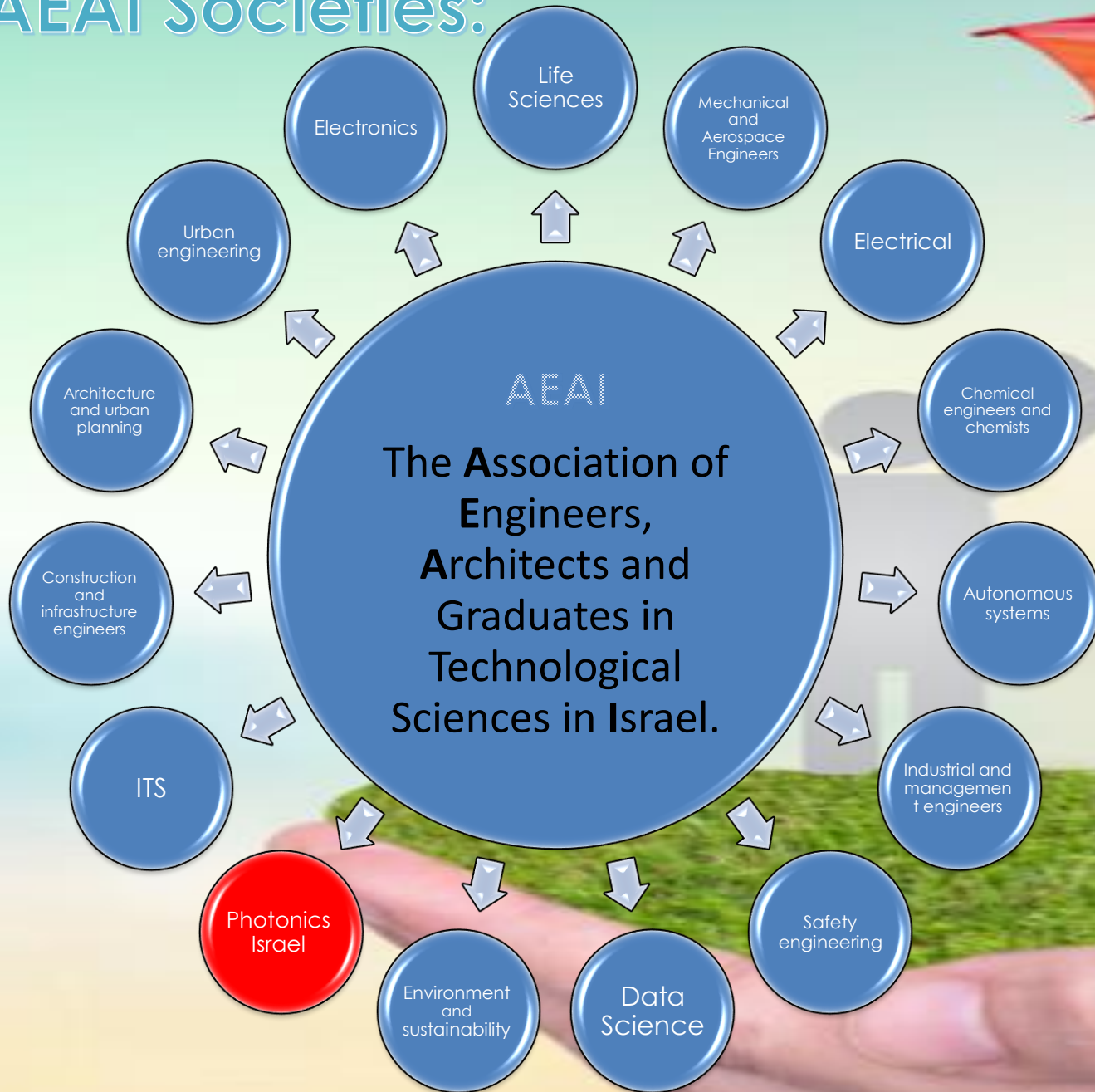
- ❑ Within AEAi there are several professional Engineering **Associations**\*
- ❑ Each one of them is conducting:
  - **Courses.**
  - **Seminars.**
  - **Conferences.**

- \*Mechanics, Electronics, Electrical, Data Science, Civil, Architecture, ITS, Chemistry, Autonomous, Photonics, Environmental, Industry, Safety, life science, Urban.



# International Collaboration

# AEAI Societies:



# How do we operate

## ➤ Photonics Israel is a member of the GPA – Global photonics Alliance.

- GPA is an organization that includes representatives from tens of photonics clusters all over the world.
- The GPA facilitates a lot of the communication between photonics companies in different countries

## ➤ Mr. Haim Rouso as the Co-Chairman of Photonics Israel, is a member at the board of stakeholders of Photonics 21

- Photonics 21 is the European technology platform for photonics. The platform represents the European photonics community from industry and research organizations and develops the European photonics strategy for future research and innovation in Europe. There are 2,500 members at Photonics 21

# Employees Annual Needs

Employees:  
More than  
20,000

Annual  
reduction  
1% » 200

Growth rate  
~ 2.5%

Needs:  
~ 600

Universities: ~100 engineers annually.

# Instrumentation

Interferometer

MTF

Collimator

Spectrometer

Power-meters &  
Energy meters

Integration  
sphere

Spectrograph

Monochromator

Colorimeter

Photometers

Polarimeter

Lux meter

Beam Profiler

- עקרון פעולה
- יכולות ומגבלות מדידה
- אופן הצבה מודד – נמדד ורגישויות ההצבה.
- תנאי סביבה למדידה כמו רעידות מותרות, שכבתיות אויר היכן שנדרש וכו'.
- אופני הפעלה
- תובנות מתפוקות המדידה.
- כיוול.



# Thank You