The Future of the Future

The race for global digital security
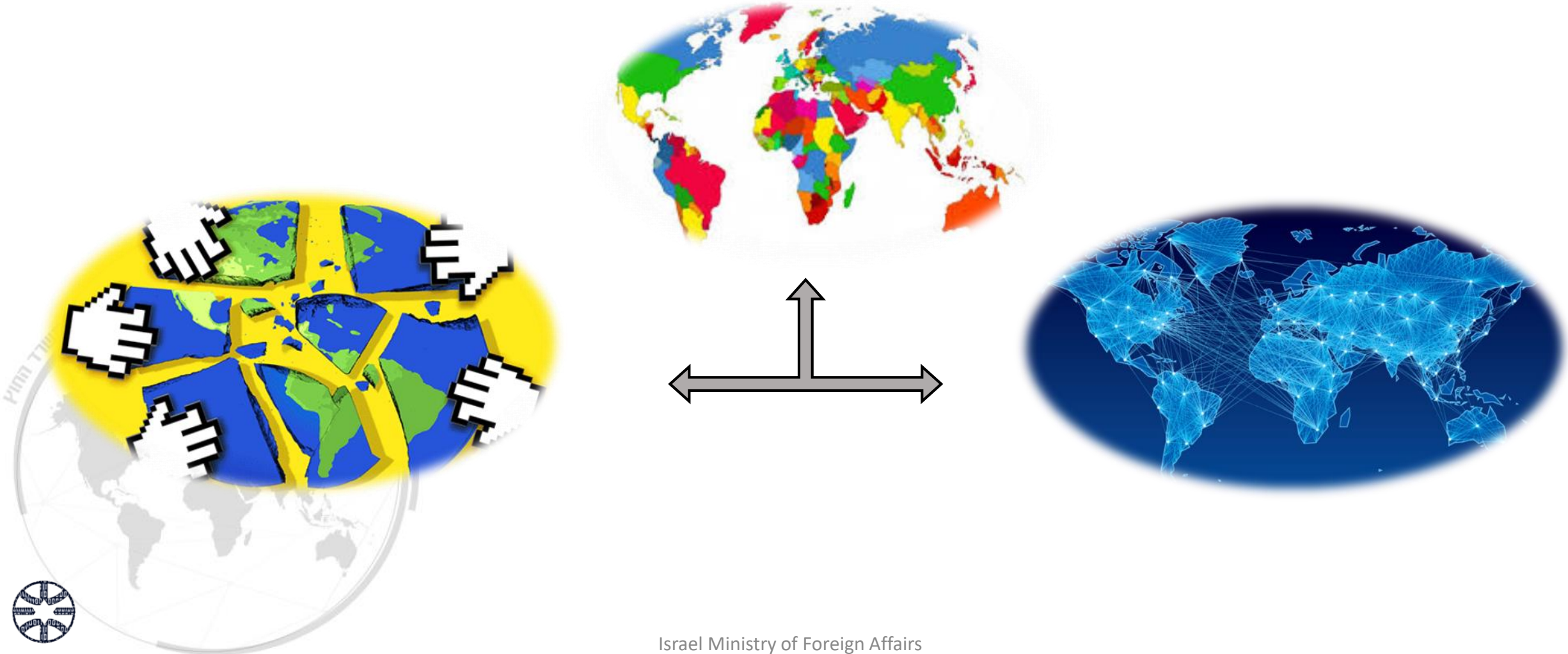
How Technology outpaces Politics

Politics and technology

Security challenges and solutions
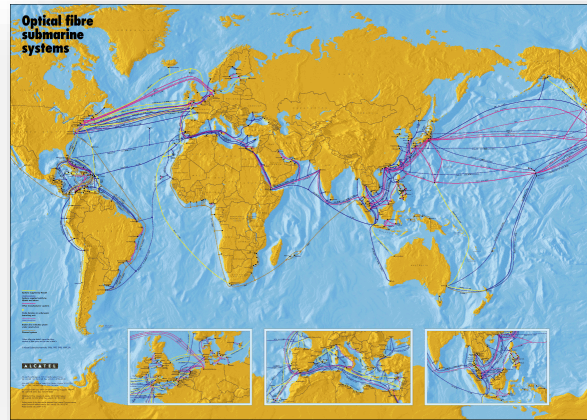
National Approaches

Connectivity vs. Fragmentation

NEW GEOPOLITICAL LANDSCAPE

NEW (application of) NORMS

RESPONSIBLE **STATE** BEHAVIOR

NON-COMMITTED PLAYERS

TECHNOLOGY
- CONNECTIVITY
- DATA QUANTITY
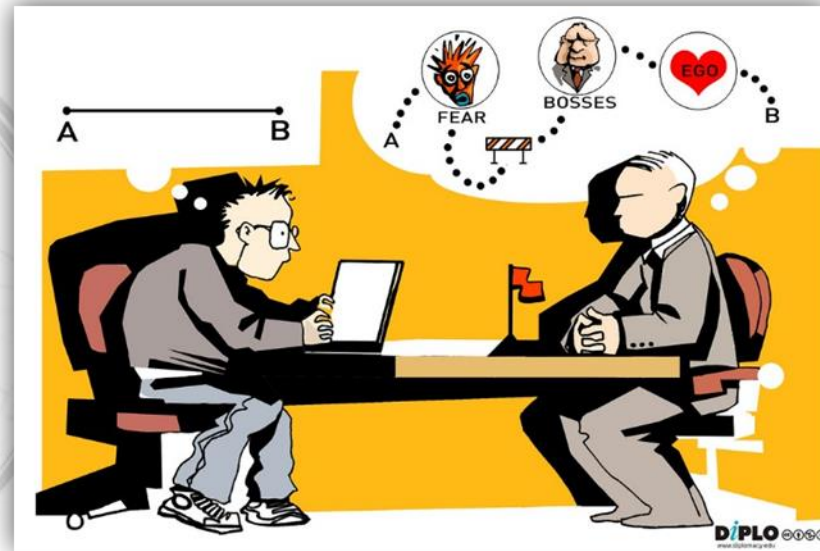- AVAILABILITY

WORLD
- IDEOLOGY
- CAPACITY

STATE
- SECURITY
- PRIORITIES
- CAPACITY

Israel Ministry of Foreign Affairs

CYBERSECURITY

Optical fibre submarine systems

Foreign Relations -Building bridges

- Technology's impact on international relations
- Enhancing **security** and **stability**
- Continuation of …

Israel Ministry of Foreign Affairs

The Players

The nations level – mind the gap

Norms
- Cybercrime Convention ~ 60 countries
- EU regulations (GDPR, NIS)

Political
- Limited G2G cooperation
- "Cross-pollination" regional security and economic cooperation (OSCE, OAS, OECD)
- Global blocks of countries

Sec
- Deterrence (attribution, sanctions)

Intel
- NDA's
- Alliances

Tech
- Capacity Building
- Common technological basis (R&D cooperation)

Cyber politics hybrid dilemma

- East – West: protecting democracy
  - Control over **content** vs. securing the **infrastructure**
  - Countering violent extremism, anti-Semitism etc.
- International regulation: ITU, ICANN.
- Military – civilian approaches
- Non-state actors: GCSC - responsibility, restraint, requirement to act, respect of HR

International Cooperation in Cybersecurity

Trust

Capabilities

Values

Confidence Building
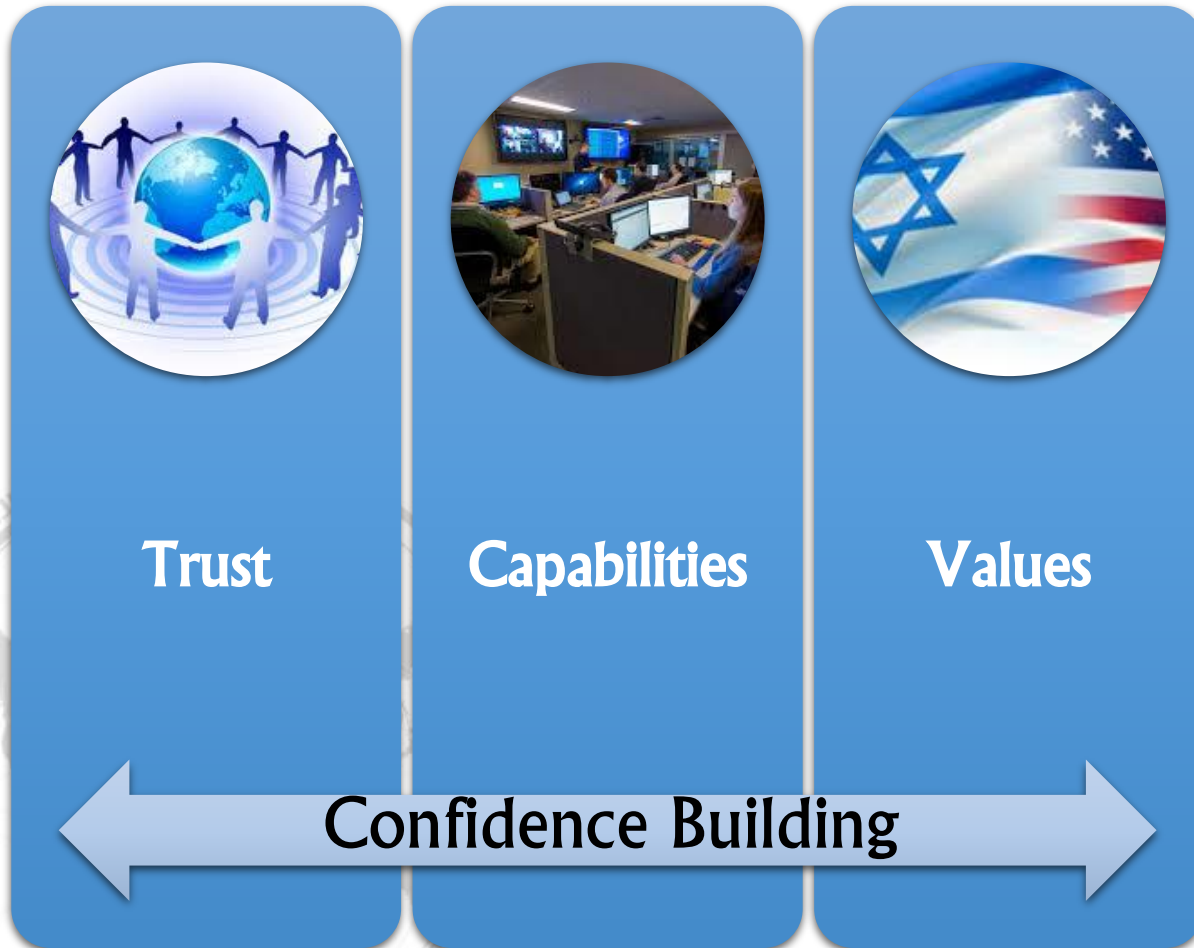
The gaps: State - Private sector

Private Sector Initiatives

Joint Initiatives

Government incentives

Israel and the World

Leadership

Global Agenda

Local Security

Ecosystem

Sharing is caring
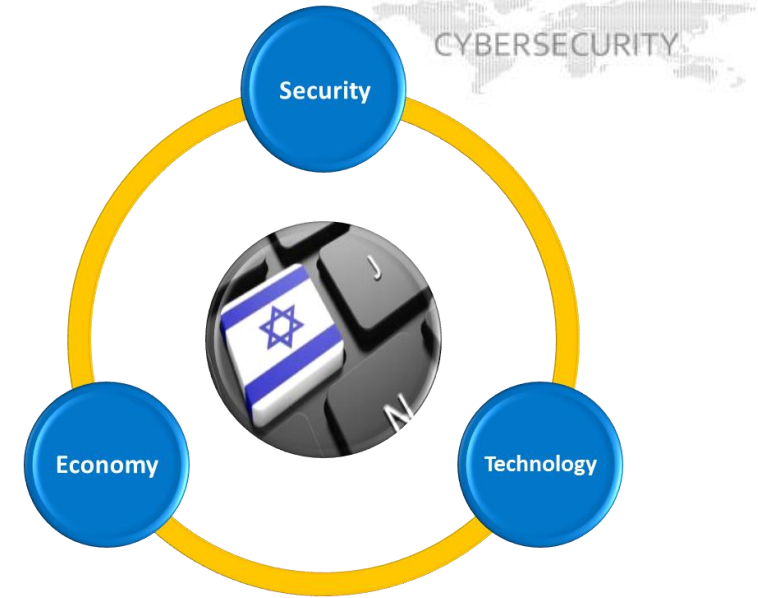
420 Israeli cyber companies + 118 acquired

Towards 10% of global market within 5 years

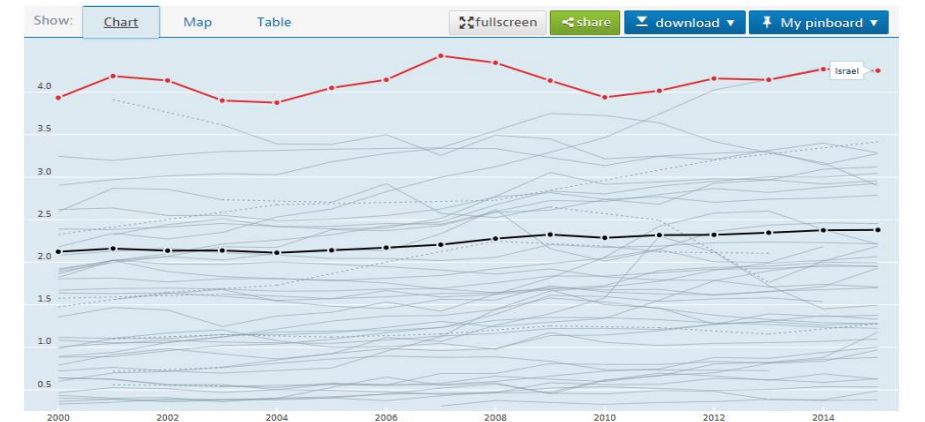25 MNC R&D centers (IBM, Intel, Microsoft, GE, Deutsche Telecom, PayPal)

IL companies raise annually 20% of global investments.

20.5K workers (50% - start-ups)

$5.5-6 bln estimated exports

Gross domestic spending on R&D Total, % of GDP, 2000 – 2015   Source: Main Science and Technology Indicators

Show: Chart   Map   Table   fullscreen   share   download ▼   My pinboard ▼

GDP spending on R&D

New Global Challenges

AI

BIG DATA

QUANTUM

ISO Standardization

GDPR Regulation

R&D

Supply chain security

Multilateral processes & COVID19

|	
UNGGE	• How International Law applies to ICT
OEWG	• Institutional Dialogue
Cybercrime convention(s): 3rd Committee UN, ITU	• Universal Convention
Operational collaboration	• COVID19 related know-how, best practices • Reassessing priorities GFCE
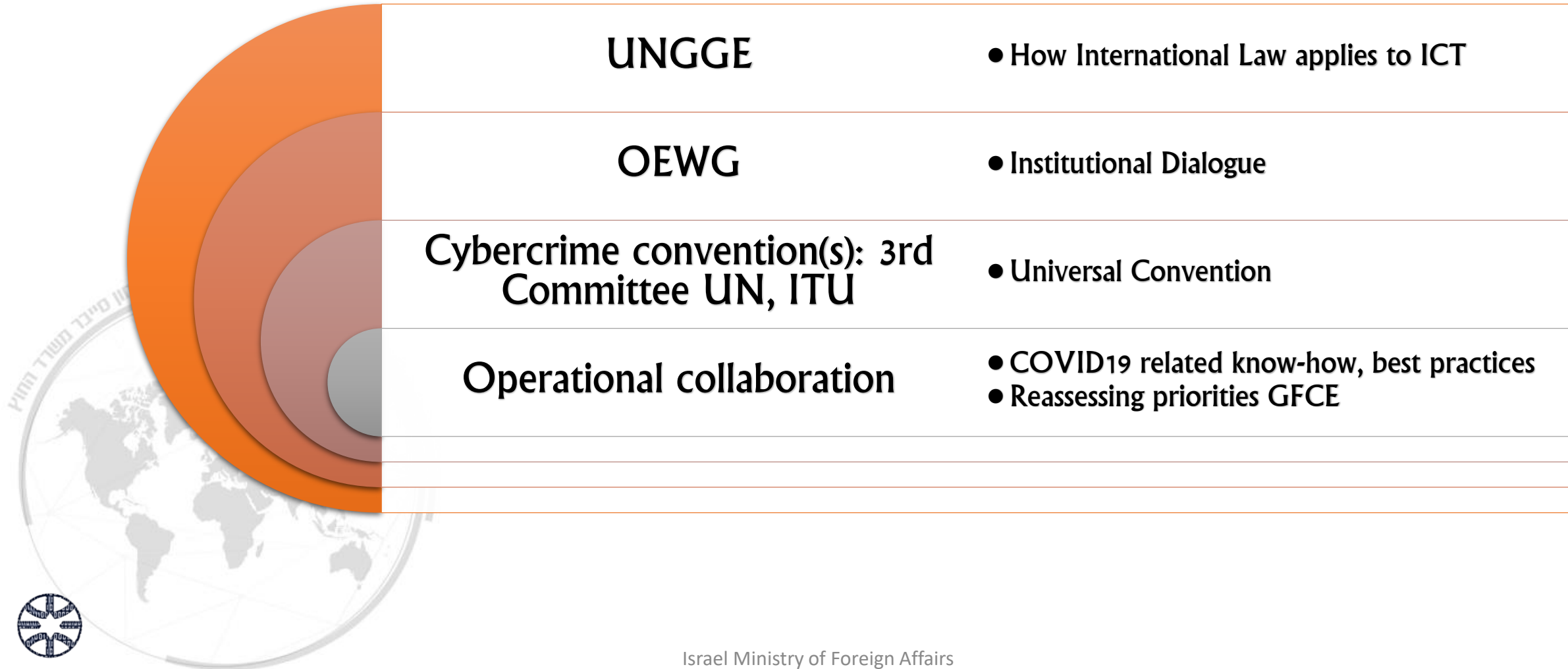
Threats and opportunities under COVID19

- Operational collaboration
  - Mitigating advanced attacks against healthcare organizations, COVID19 related entities – research and commercial
  - Off-line collaboration regarding best practices

- Political cooperation
  - Information sharing
  - Strengthening deterrence
  - Maintaining continuity in multilateral processes

Threat "weight"

Cooperation level
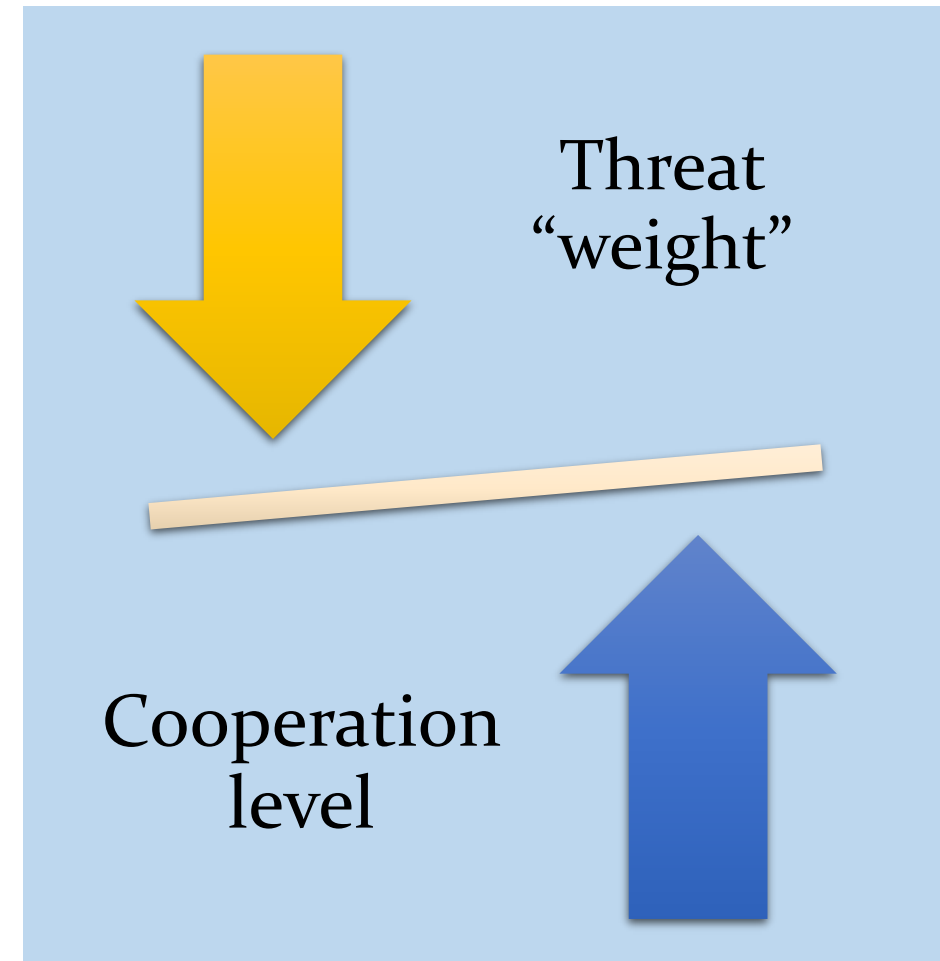
Moving forward

G2G
- Agreements, protocols, online & offline coop.

B2G
- Tailor-made, cutting edge solutions

Deterrence (LM)
- Consequences

Universal agreements (UN)

תודה רבה
Thank you