Introducing peace operations

George Clooney’s short video in style of this day, “What is peacekeeping?”
www.youtube.com/watch?v=C-2rv8s8Zmg (1:01)
Peace operations

- Peacebuilding
- Peacemaking
- Humanitarian Assistance
- Peacekeeping
- Peace Enforcement

Increasing Force

Conflict Prevention
“Concern for man himself [humanity] and his [its] fate should be the chief interest of all technical endeavors.

“Never forget this in the midst of your diagrams and equations.”

– Albert Einstein
Canadian Coyotes in Ethiopia-Eritrea

- Secure checkpoints
- Temporary Security Zone
- Night observation
Secure Networks

Mali Mission Secure Network
Field Missions

UNHQ

Brindisi (UNLB)

Valencia (UNICTF)

Global Services Centre: “Twin techn centres”
Prototypes

- **document** summaries (trained through feedback from users)
- violence prediction for **elections** (trained with data from previous events)
- political alignment in GA **votes** (using clustering techniques)
- Image **recognition** for humanitarian assessment
- **classification** of humanitarian documents
- Social **media** analysis
• conversational chatbot
• assist Secretariat find UN-related info
  • Email and scheduling
• Grow smarter with use, broaden its scope of knowledge, develop new skills, and converse in other official UN languages
Biometric Recognition: bumpy ride ...

- Congo (EU mission): Iris scanner to pay soldiers

- Yemen: restart food deliveries to
  - biometric registration to monitor supply chain process and reduce food diversion
  - Houthis opposed

- UNHQ security
  - Opposed by Union
Cooperative monitoring

validated information. Indeed, the UN’s power to protect depends on its power to connect. In an age when peace operations are mandated for the protection of civilians, it is essential to connect with them. Population-centric operations give peace a better chance, continuing even after the peacekeepers have left. The United Nations can help turn the fog of war into the clarity of peace, enabled by new technology.
“Participatory Peacekeeping”

- Cell phone revolution
- Social media & crowdsourcing
  - Info gathering & dissemination
- Crisis mapping
- “Protection through Connection”
- “Coalition of the Connected”
Peace monitoring: layered approach

- **Population and Parties** (crowdsourcing and stakeholder inputs)
- **Verification technology** (Vertech)
- **Locally-hired observers**
- **Int. observers**

Big data generation
Cross-referencing
Filter disinformation
AI needed
• Many threats
• Automated, intelligence response
• Protect: UN, peace ops, people in the field
Threats

- State
- Non-state
- Hybrid/proxy actors/systems

- Spying
- Threatening
- Inciting violence
- Undermining democracy
- Damage
From physical space to cyberspace?

- Analogous?
- Attacks, conflict
- Conflict management
- Rules? Agreements?
- **Peacekeeping Roles**?
- Confidence building?

<table>
<thead>
<tr>
<th>Cyber</th>
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<tbody>
<tr>
<td>Attacks</td>
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<tr>
<td>– More frequent</td>
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<td>– Easier to hide; harder to attribute</td>
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Peace Operations

Peacebuilding

Humanitarian Assistance

Peacekeeping

Peace Enforcement

Increasing Force

Conflict Prevention
Investigation & Attribution

Technical
Institutional
Personal
Monitoring & investigation

• Observe attacks
  • Before (for prevention)
  • During (for mitigation)
  • After (for investigation)

Example:
• Border Gateway Protocol (BGP)
• Routing tables

Challenges
• Attribution

Solutions
• Expertise
  • Soln: Experts (cyber-operators) on loan or contracted
• Computer Incident Response Centre
  • Global coordination
Fact-finding in the physical world
UN fact-finding in Cyberspace

UN Security Council panel finds Cosmos Bank cyber attack motivated by N Korea

Its report comes nearly seven months after the malware attack on the bank.

By Rashmi Repat, ET Bureau | Mar 27, 2019, 07:25 AM IST

MUMBAI: A panel of experts appointed by the UN Security Council has stated that the cyber attacks on Pune-based Cosmos Cooperative Bank, from which hackers allegedly withdrew Rs 94 crore from ATMs in 28 countries, was “motivated” by North Korea.

The panel was set up to study various UN sanctions breached by North Korea. Its report comes nearly seven months after the malware attack on the bank.
Interposition

- Internet traffic checkpoints
- Protective layers
- Anti-virus filters

Challenges
- Routing traffic to checkpoints
- Causing slowed traffic

Solutions
- Faster computers
- Cooperation with industry & national authorities
Cyberpeacekeeping roles

Cyber Prevention
- Educate
- Codify best practices
- Inspections and testing

Cyber Investigation
- Investigate events
- Define attack sources
- Estimate damages

Cyber Intervention
- Arbitrate
- Broker non-aggression
- Counter measures
- Enforcement
“Together, let us make sure we use artificial intelligence to enhance human dignity and serve the global good.”

— UN Secretary-General António Guterres, 2017
Professional innovators for peace
Global problems require global solutions!