Military Technology 2003

RQ-7 Shadow
Few units
Unmanned aerial vehicle

iRobot’s PackBot
0 units
Unmanned Ground Vehicle
Military Technology 2016

MQ-9 Reaper
Tens of Thousands
Unmanned aerial vehicle

iRobot’s PackBot
Tens of Thousands
Unmanned Ground Vehicle
Civilian Technology in 2003
Civilian Technology in 2003
The future?

“More things will look like science fiction”
- Andrew McAfee, MIT
Risk-Benefit Duality
AI contribution to all UN SDGs

Example

Comprehensive analysis to support small producers to find the best markets for their products
AI contribution to UN SDGs

Example

Analyze trends, make projections about disease outbreaks - to eradicate disease and reduce mortality rates
AI contribution to UN SDGs

Example

Analyze patterns of student learning and prescribe individual learning plans to improve results
AI contribution to UN SDGs

Analyze crisis information following or prior to a natural or man-made disaster, allowing appropriate responses to be made

Example
New opportunities?

Advances in AI and robotics can play an important role for CWC, for example:

**Inspections** in areas too dangerous (contaminated or unfriendly) for OPCW staff or too hard to reach.
New Risks?

Drone carrying a radioactive material was landed on top of the roof of the Japanese prime minister's office.
New Risks?

Various locations in France, October, 2014 - February, 2015

French authorities report multiple occasions of drone flying over nuclear facilities in France at night.

The incident spark independent report by British nuclear expert, warning British authorities that Britain’s nuclear facilities are at serious risk of terrorist attacks involving drones.
An Existential Risk?
International legal framework
AI and Robotics at UNICRI

UNICRI AI and Robotics Programme launched in 2015, to:

- develop an **international infrastructure** to identify and understand risks and benefits

- facilitate **stakeholder discussions** (technical experts, policy makers, private sector, academia, etc)

- develop appropriate and informed **international and national approaches** to minimize risks and maximize benefits, contributing to United Nations Sustainable Development Goals (SGDs)
UNICRI Centre on AI and Robotics

UNICRI Centre on AI and Robotics in the Hague

... To enhance understanding of the risk-benefit duality of AI and robotics through improved coordination, knowledge collection and dissemination, awareness-raising and outreach activities
UNICRI Centre on AI and Robotics

... and to provide policy makers with improved knowledge and understanding so that discussion are informed and any resulting policies are balanced.
At the General Assembly

Discussing emerging technologies with academia (Prof. Max Tegmark and Prof. Nick Bostrom) in October 2015 and the private sector (Landon Downs, 1Qbit) in October 2016
At the General Assembly

UN Group of Friends of CBRN Risk Mitigation and Security Governance

“... enhancing international awareness of the current and future capabilities of artificial intelligence and autonomous robotics”

Ambassador Imnadze, Chair of the UN Group of Friends
New York, 07 December 2015
Training media

Specialized training for journalists and media professionals on Robotics and Artificial Intelligence

The Hague, Clingendael Institute,
23-24 March 2016
Training media and security

Next addition: 6-7 February, 2017, University of Cambridge
Thank you!

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