



KEY ELEMENTS OF A TREATY ON FULLY AUTONOMOUS WEAPONS

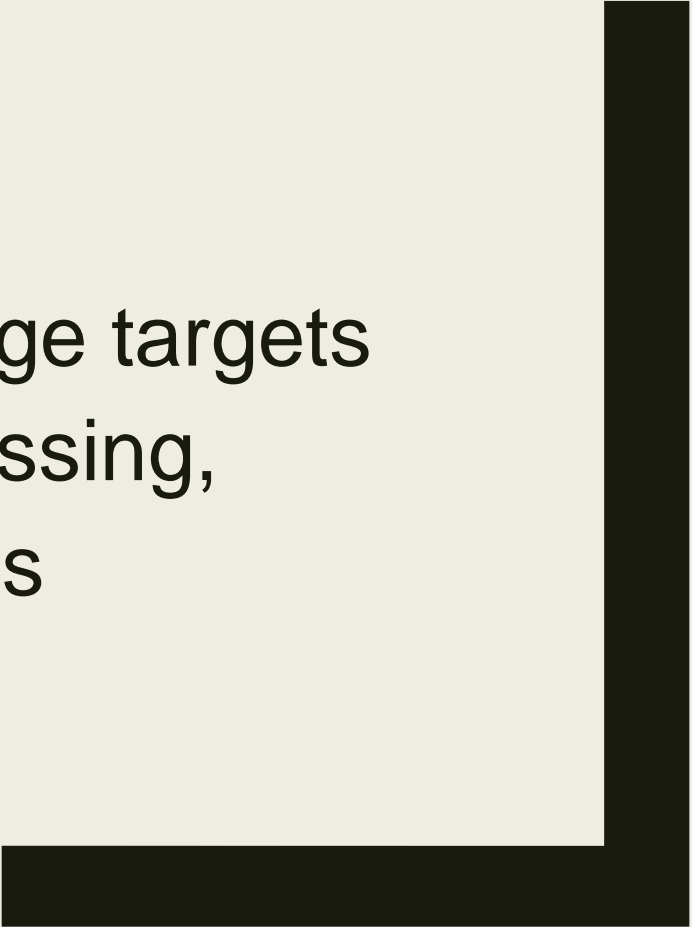
Bonnie Docherty, Harvard Law School and Human Rights Watch
Berlin Webcast Forum on LAWS
April 2, 2020





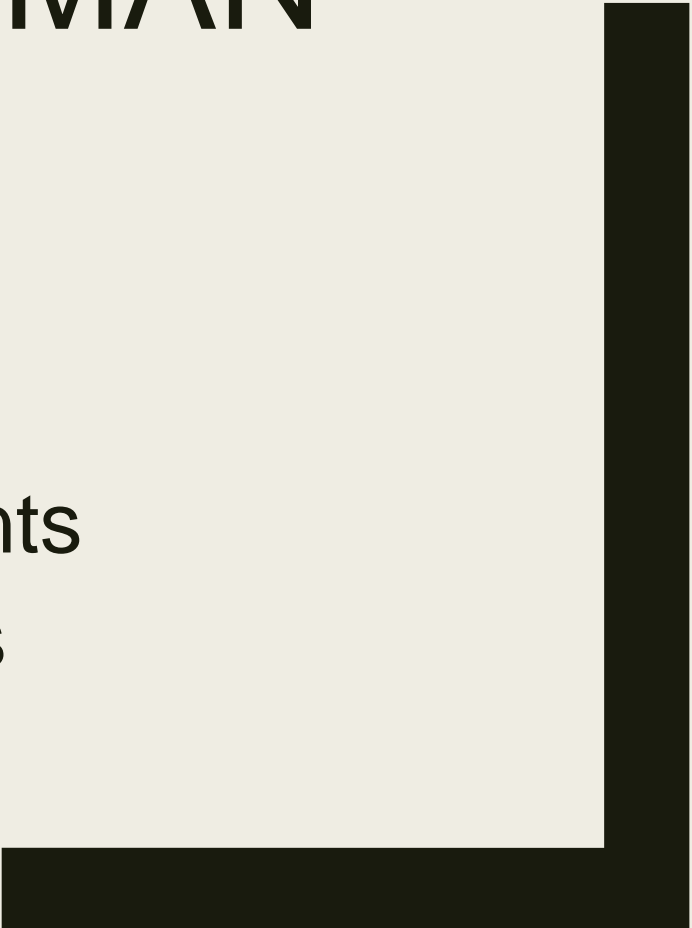
SCOPE

All systems that select and engage targets
on the basis of sensor processing,
rather than human inputs





MEANINGFUL HUMAN CONTROL

- Decision-making components
 - Technological components
 - Operational components
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MEANINGFUL HUMAN CONTROL

Decision-making components include:

- Understanding of operational environment
- Understanding of how system functions
- Sufficient time for deliberation

MEANINGFUL HUMAN CONTROL

Technological components include:

- Predictability and reliability
- Ability to relay information to human
- Ability for human to intervene

MEANINGFUL HUMAN CONTROL

Operational components include:

- Time between assessment of target and application of force
- Duration of operation
- Geographic scope of operation

GENERAL OBLIGATION

A general obligation to maintain
meaningful human control over the use of force

PROHIBITIONS

Prohibitions on specific weapon systems that select and engage targets and by their nature pose fundamental moral or legal problems

PROHIBITIONS

Inherently problematic weapons systems include:

- Systems that always operate without meaningful human control
- Systems that use proxy data to represent people

POSITIVE OBLIGATIONS

Specific positive obligations to ensure that meaningful human control is maintained in the use of all other systems that select and engage targets

OTHER ELEMENTS

- Preamble
- Reporting requirements
- Compliance and verification mechanism
- National implementation measures
- Meetings of States Parties
- Entry into force threshold