

WMD



PEER DISCUSSION

- Does it really make sense to talk about WMD?

NUCLEAR PROLIFERATION

- In order to understand nuclear proliferation, you must understand the nature of nuclear technology and the ways we try to control it.
 - Nuclear Energy
 - Nuclear Weapons
 - NPT and systems of control

CASE STUDY: IRAN AND JOINT COMPREHENSIVE PLAN OF ACTION

- After years of negotiations, in 2015 US, UK, Russia, China, France, EU (P5+1) and Iran signed the JPCOA.
- Iran:
 - limits centrifuges and phases out a specific type
 - limits uranium enrichment (no accumulation above 3.67%, and only 300 kg or less)
 - redesign and rebuild a heavy water reaction at Arak, transition to light water reactors
 - Accedes to NPT Additional Protocol and IAEA monitoring

CASE STUDY: IRAN AND JOINT COMPREHENSIVE PLAN OF ACTION

- P5+1
 - Lift all UNSC, multilateral and national nuclear-related sanctions
- Dispute resolution
 - If Iran or P5+1 think the other side is not in compliance, complaint is referred to Joint Commission
 - If Joint Commission fails to resolve after 15 days, complaint referred to Ministers of Foreign Affairs, which can consider for 15 days. Possibility of a non-binding opinion from Advisory Board.
 - If still no resolution, the UNSC must vote on a resolution to *continue* the lifting of sanctions. If any P5 member vetoes, sanctions 'snap back'

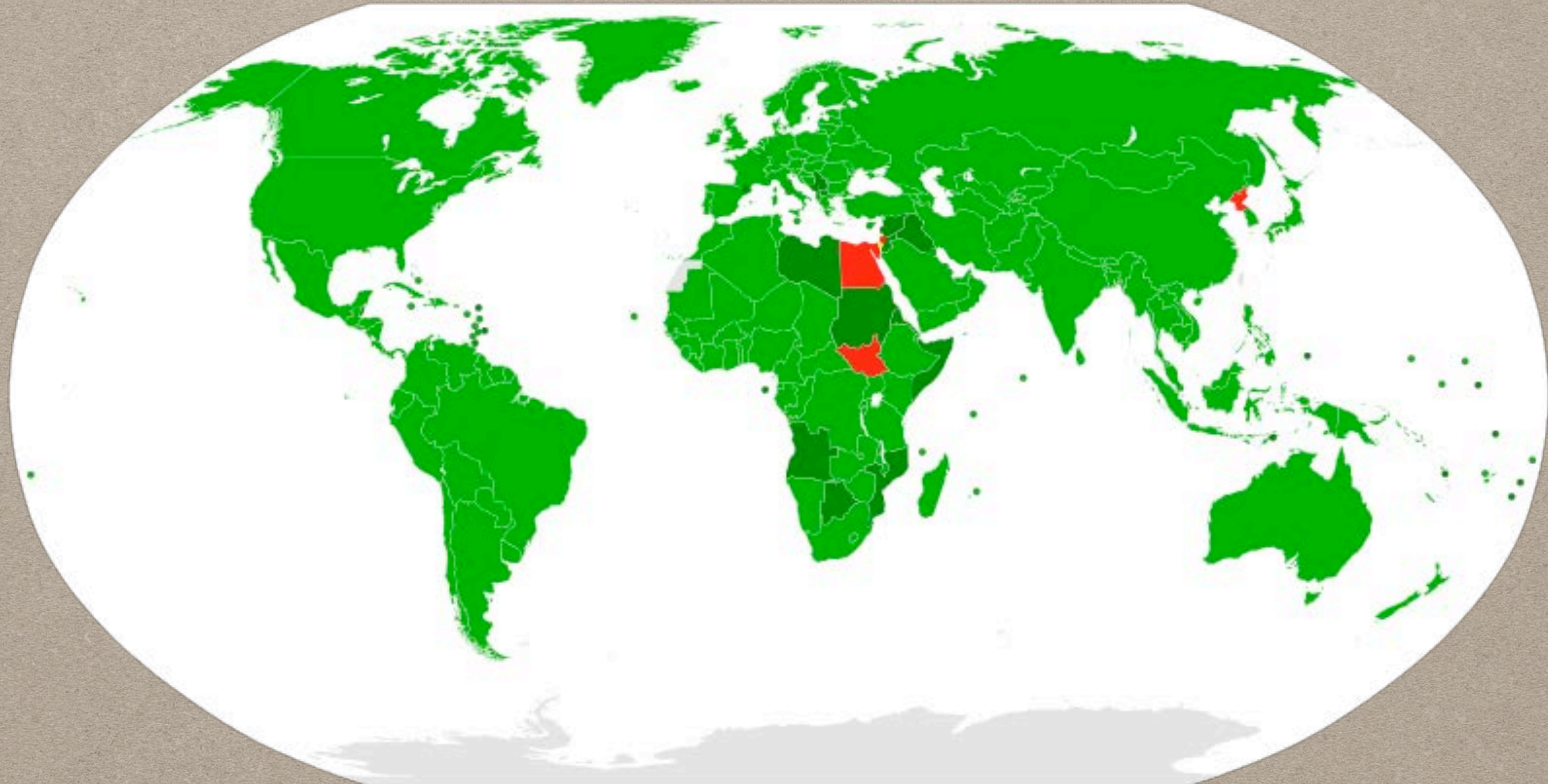
CHEMICAL WEAPONS

- Multiple classes of weapons
 - Asphyxiants: Chlorine gas
 - Blistering agents: Mustard gas
 - Blood agents: Cyanide
 - Nerve agents: Sarin, VX
 - Riot control: Tear gas (CS)

CHEMICAL WEAPONS

- Area effect
- Difficult to weaponize for non-state actors (Aum Shinryko tried)
- Not legal under Chemical Weapons Convention (1993/1997)
 - Monitoring and non-proliferation managed by Organization for Prohibition of Chemical Weapons
- Dual use is still a problem!
- Syria and the red line?

CWC



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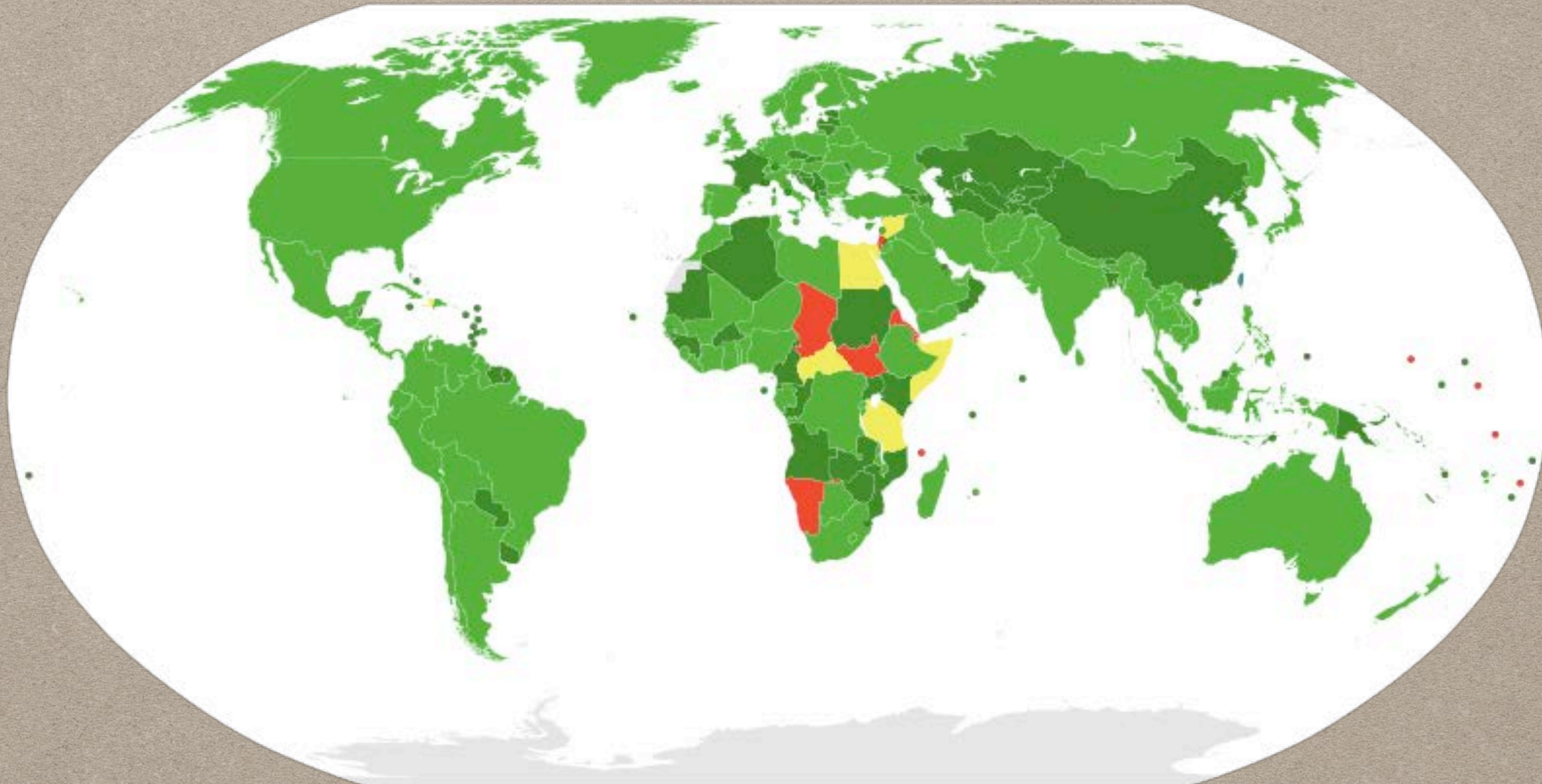
BIOLOGICAL WEAPONS

- Ancient: flinging bodies of plague victims over walls
- Types
 - Bacterial agents: Anthrax
 - Viral: Smallpox, hemorrhagic fevers
 - Toxins: Ricin, Botulinum

BIOLOGICAL WEAPONS

- Not area effect: potential to boomerang
- Not legal under Biological Weapons Convention (1972/1975)
- Problem: How to enforce?
 - Soviets signed BWC, then cheated (Biopreparat)

BWC



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