

Connecting PeaceTech and Disarmament

How digital tools can strengthen verification, reduce risk, support diplomacy, and protect communities

FUTURE
WITNESS

1

Monitoring, verification, and transparency.



PeaceTech can support independent assessment of whether states comply with arms-control and disarmament commitments.

- **satellite imagery and geospatial analysis** can identify changes in facilities and military infrastructure
- **data analysis** can strengthen and investigate possible treaty violations
- **secure data-sharing platforms** can help experts compare information and communicate findings



Summary: Technology can strengthen the evidence base, although official verification depends on the applicable treaty and its authorised institutions.

3

Dialogue, trust-building, and diplomacy.



Digital platforms can connect researchers, diplomats, civil society groups, and other stakeholders with opportunities to engage.

- **structured online dialogues** can maintain contact across political divides
- **collaborative platforms** can help experts exchange evidence and develop shared terminology
- **digital facilitation** can broaden participation in peace and security discussions



Summary: Negotiations require communication, trust, and the ability to clarify intention. Tech can facilitate these processes but cannot substitute for political agreements or diplomatic commitments.

5

Nuclear verification and scientific diplomacy.



Nuclear disarmament creates demanding challenges re. sensitive information, verification, and strategic trust.

- **data analysis** can support processing environmental measurements and other monitoring information
- **privacy-preserving methods** can help researchers share limited evidence without exposing sensitive information
- **digital tools** can support scientific collaboration and public access to reliable info about nuclear risks.



Summary: Technology could support future arm-to-control verification and communication building if tested, independently assessed, and compatible with safeguards in place.

Source: UNIDIR

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AI, cyber risks, and nuclear risk reduction.



AI and digital systems can assist military decision-making, early-warning systems, communications, and strategic stability.

- **research** can identify how automated, unreliable data or cyber interference might contribute to escalation
- **scenario simulations** can help policymakers explore crisis pathways and communication failure
- **secure communication tools and incident-reporting protocols** can support crisis management.



Summary: PeaceTech can reduce the risk of accidental or unintended escalation, including involving nuclear-armed states. However, AI and automation can also increase risk.

4

Humanitarian disarmament and post-conflict recovery.



PeaceTech can support work on landmines, explosive remnants of war, small arms, and light weapons.

- **geospatial tools** can map hazardous areas and prioritize clearance
- **community reporting systems** can help identify unexploded ordnance
- **digital information systems** can support weapons collection, tracing, and stockpile management.



Summary: These applications link arms control with civilian protection, recovery, safe access to land, and the rebuilding of communities. Local knowledge must be incorporated into technological design.

6

Public engagement, education and accountability.



PeaceTech can make complex disarmament questions more accessible beyond diplomatic and technical circles.

- **interactive educational resources** can explain nuclear risks and arms-control agreements
- **digital storytelling** can document humanitarian consequences and local experiences
- **open research repositories** can help journalists, civil society, and policymakers examine evidence.



Summary: Public knowledge and participation can strengthen accountability and bring humanitarian considerations into security debates. Responsible design must prevent disinformation, harassment, and exposure of vulnerable people.

PeaceTech can strengthen evidence, communication, and civilian protection, but it cannot replace treaties, institutions, or political commitment.