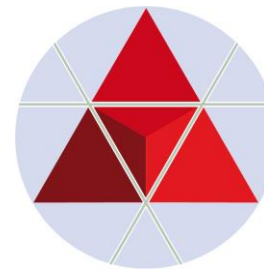


IKT-Sicherheitskonferenz 2023

Linz/Österreich, am 03.10.-04.10.2023

Raum: **KONGRESSAAL**

Vortragdatum/-zeit: **03.10.2023, 14:25-14:50 Uhr**



Zentrum für
Risiko- & Krisenmanagement

Cybersecurity and humanitarian neutrality (Cybersicherheit und humanitäre Neutralität)

Mika LAUHDE

Head of Technology: Delegation for Cyberspace,
International Committee of the Red Cross

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connected.
individual.



ICRC¹

Agenda:



ICRC

1. ICRC's role, mandate & working modalities
2. Why and how ICRC is part of the CyberSpace
3. Neutrality?
4. How to create neutrality and ensure acceptance?
5. Not without community work
6. What are the biggest challenges?
7. Targets





ICRC

ICRC's role, mandate & working modalities

ICRC's mandate and role

To protect and assist people (*in armed conflicts & other situations of violence*);
To promote and work for the faithful application of international humanitarian law; and
To serve as a neutral intermediary between parties to armed conflicts.

Fundamental humanitarian principles

Neutrality, Impartiality, Independence, Humanity

Confidentially

Information we gather and protect
With special mandate to protect information we have (IHL)



Why and how ICRC is part of the CyberSpace?

The ICRC embraces digital transformation in a responsible manner, making the most of the opportunities provided by digital technologies, to make its work more effective and efficient for people in need.

The ICRC's digital infrastructure and footprint is:

- NIIHA
- not a vehicle for surveillance: affected communities, parties
- not a vehicle for commercial exploitation
- approach to partnerships that is mindful of the above
- put affected communities at the center, uphold their dignity, agency, and ensure accountability as to the processing of their data
- is secure, lean, affordable, and resilient. It is fit for the operations of an organization that is active in humanitarian emergencies.



Neutrality?

The ICRC is not seeking neutrality in cyberspace due to the digital sovereignty but due to the acceptance.

THE PILLARS

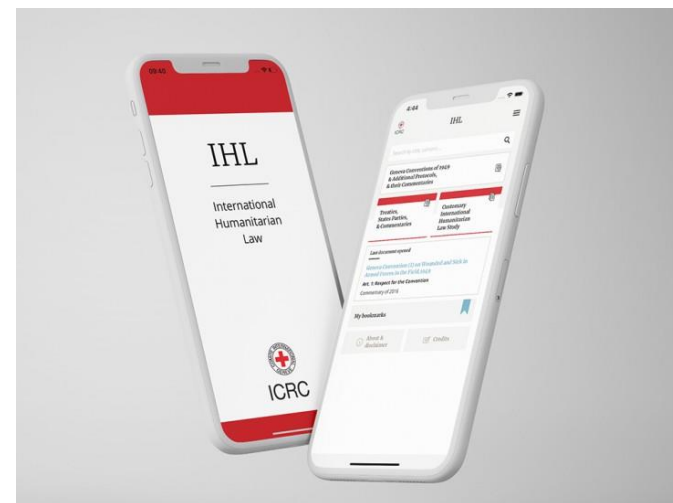
 POLICY & LAW

 TECH R&D

 COMMUNITY

 TRAINING

These components are intrinsically interdependent.



So, what's wrong in current situation?

How to create neutrality and ensure acceptance?

Activities under implementation

R&D test environment:

- Digitally independent **Data Center**.
- **ICRC's own domain [.int]** and registry, AS number, and **IPV4 and IPV6 addresses**.
- **ISP type of peering solutions which works globally**
- **Post-Quantum crypto**
- **Key management, CA, etc.**



MoU with CERN to mutualize efforts on Free and Open-Source Software.

Development of the first prototype of **ICRC mobile-phone operating systems**.

Researching on specific FOSS solutions e.g.: secure video communication, browser...



Not without Community work

Current activities



Creating community to engage FOSS, and White Hat Hacking

Explore avenues to **involve, leverage, and mobilize** the expertise, willingness, and skills with:

- **the tech “Free” communities**
- **National Societies**
- **Tech Sector Companies**

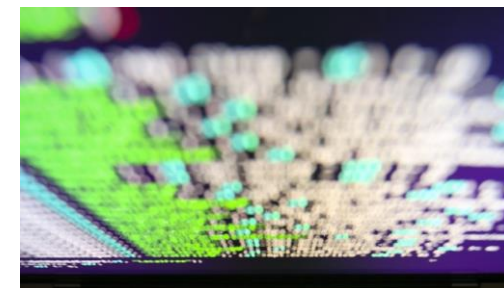
Explore possibilities of mutualization with states and entities in “digital sovereignty” quest.



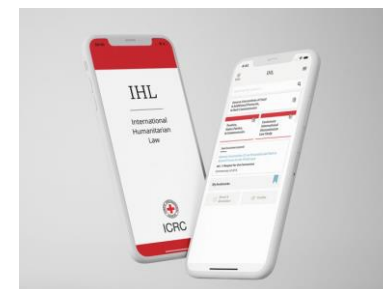
What are the biggest challenges?

World has been changing

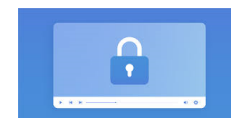
- Shift from vertical to horizontal high-tech countries?
- Self-sufficiency?
- Shift in global cyber security strategies?
- Fourth industrial revolution?
- Digital cap?
- Sanctions, restrictions, etc.?
- Transparency and simplicity?
- People? 15 years ago?



BACK TO THE BASIC?



Technically: Not Ferrari but Land Cruiser
-phones, data center, crypto, communications
services, etc.

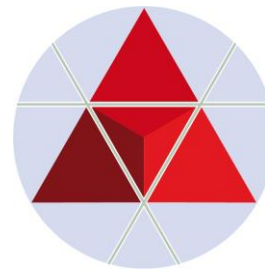


Politically: Attention to International Humanitarian law
also in cyberspace.



Operationally: acceptance to help impacted people, every
corner of the world without limitations.





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Thank you for your attention.

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***Kontakt Daten des
Vortragenden:***

Mika LAUHDE

***Head of Technology, Delegation for Cyberspace
International Committee of the Red Cross***

1 Rue Jean-Pierre Brasseur, 1258 Luxembourg, Luxemburg

<https://icrc.org>

email: mlauhde@icrc.org



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