



Course material

Course:

Understanding the digital supply chain and its stakes for humanitarian actors

Video:

0.1 General Introduction - Greg, Maria Elisa, Dimitri, invitees

Concepts (extracted from automatically generated subtitles):

International humanitarian law. Digital technologies. End of this first part. Ubiquitous tech companies. Humanitarian organisations. Armed conflicts. Provision of essential services. Control of this ecosystem. Basic knowledge. Geopolitical debate. Tech companies. Global powers. Intricate network of dependencies. Full week. End of this section.



[to video sequence search](#)

(within Understanding the digital supply chain and its stakes for humanitarian actors.)



[to video](#)

Center for Digital Education. More educational support material here:

<https://www.epfl.ch/education/educational-initiatives/cede/educational-technologies-gallery/boocs-en/>

UNDERSTANDING THE DIGITAL SUPPLY CHAIN AND ITS STAKES FOR HUMANITARIAN ACTORS

EPFL
EssentialTech
Centre



EPFL
**Center for
Digital Trust**

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notes

summary

0m 0s





Digital technologies and data have become critical elements

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0m 6s





in today's world. An increasing number of processes heavily rely on digitisation at every level of society.

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Even the provision of essential services such as energy, water, or healthcare is dependent on digital technologies to operate. The control of this ecosystem has a growing geostrategic importance

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as global powers compete over access to key resources and expertise needed for the digitisation of everything. Ubiquitous tech companies and their owners govern large part of this ecosystem

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and become global stakeholders on par with Nation States. Digitisation is also reshaping how armed conflicts unfold. New technologies such as artificial intelligence

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0m 49s





and autonomous systems are increasingly used on the battlefields of today, and this raises real questions when it comes to accountability and compliance with international humanitarian law.

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summary

1m 1s





Fundamentally, from an ICRC perspective, what is important to understand is behind these systems, behind the technologies, behind the decision support systems, are impacts on human lives, and this must never be forgotten.

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People affected by conflict and humanitarian organisations are indeed increasingly relying on digital technologies. The disruption of such services might have serious consequences

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in healthcare, for instance. There is an interface. There is an interface between conflict, the digital tools that we put in place, and especially the health services that we provide.

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When conflict erupts, those digital tools might stop working. What that does mean is that doctors don't have access to that information that was digitalised when it comes to the patient's disease or the patient condition,

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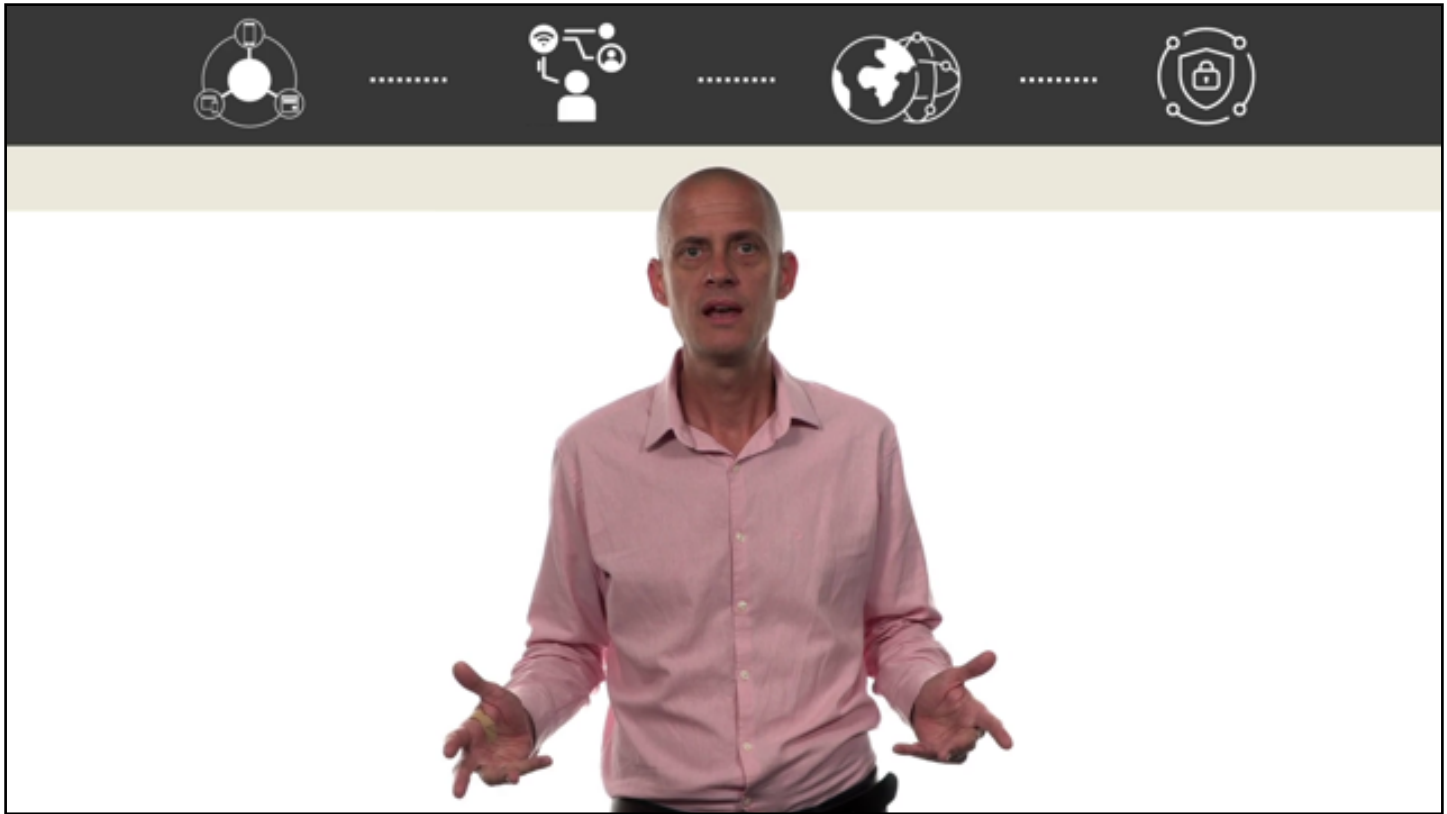
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and that puts the care to a lower degree in terms of quality. Humanitarian organisation themselves must find ways of navigating this landscape and managing new risks.

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2m 1s






WHAT ARE THE CHALLENGES FOR HUMANITARIAN ORGANIZATIONS IN THIS CONTEXT?

VALERIE ABRELL DUONG
DIRECTOR OF SUPPORT AND DIGITAL TRANSFORMATION - ICRC

In such an intricate network of dependencies, to remain independent and neutral while making the most adequate use of technology is a complex task. Tech companies are today more and more engaged in conflicts, or at least in the geopolitical debate. They continue also to significantly increase their price

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summary

2m 13s



WHAT ARE THE CHALLENGES FOR HUMANITARIAN ORGANIZATIONS IN THIS CONTEXT?

VALERIE ABRELL DUONG
DIRECTOR OF SUPPORT AND DIGITAL TRANSFORMATION - ICRC

while there is almost no alternatives.

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WHAT ARE THE CHALLENGES FOR HUMANITARIAN ORGANIZATIONS IN THIS CONTEXT?

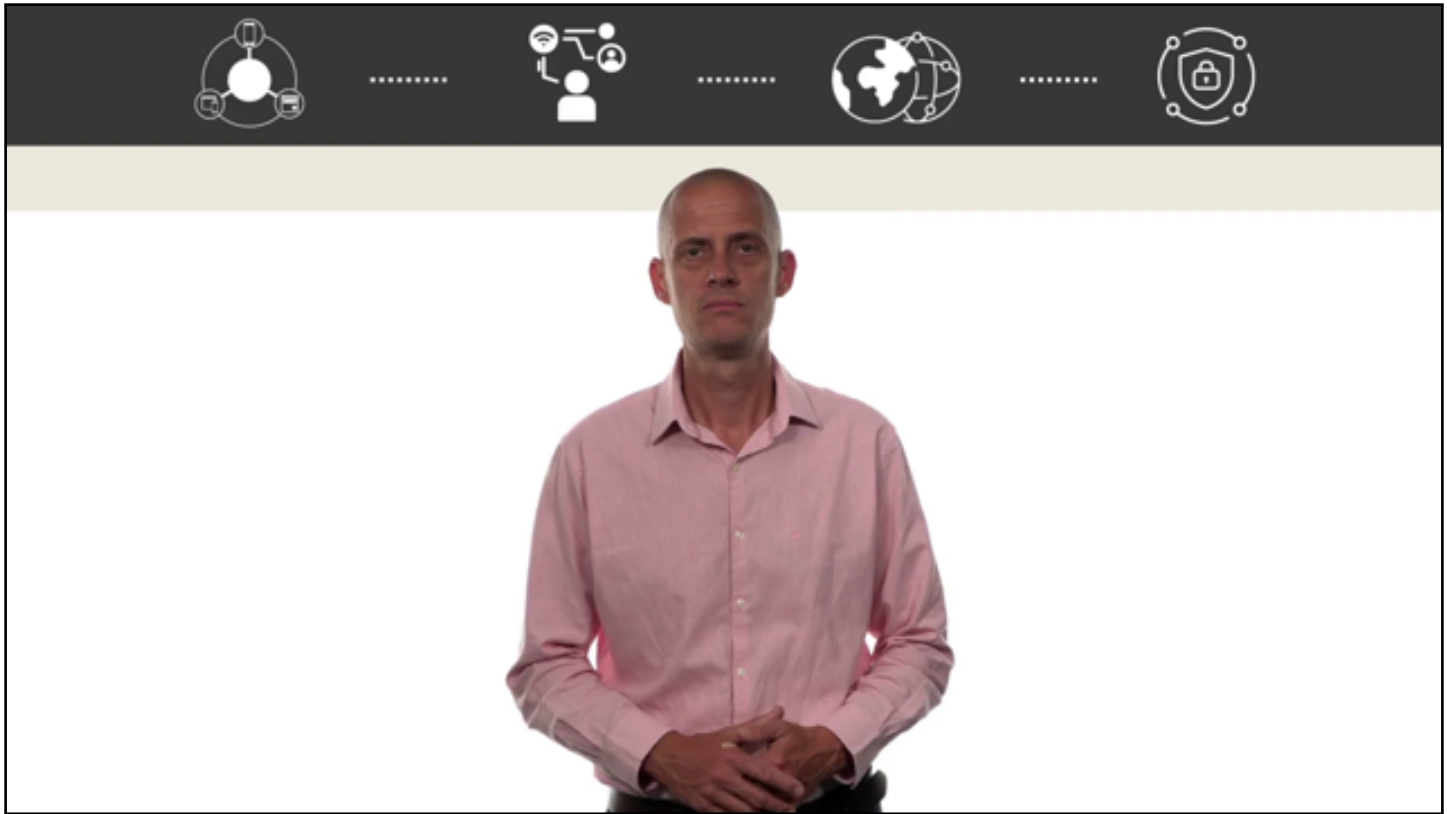
VALERIE ABRELL DUONG
DIRECTOR OF SUPPORT AND DIGITAL TRANSFORMATION - ICRC

How do we preserve our independence or neutrality while our dependence, on tech to operate continues to increase?

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That's one of the biggest challenges that we have to face. It is essential for humanitarian practitioners to understand this ecosystem and to integrate these elements into their analysis.

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We need to integrate this digitally-born risk into our assessment of the needs and vulnerabilities of the population we serve. And I hope this training will help you exactly do that.

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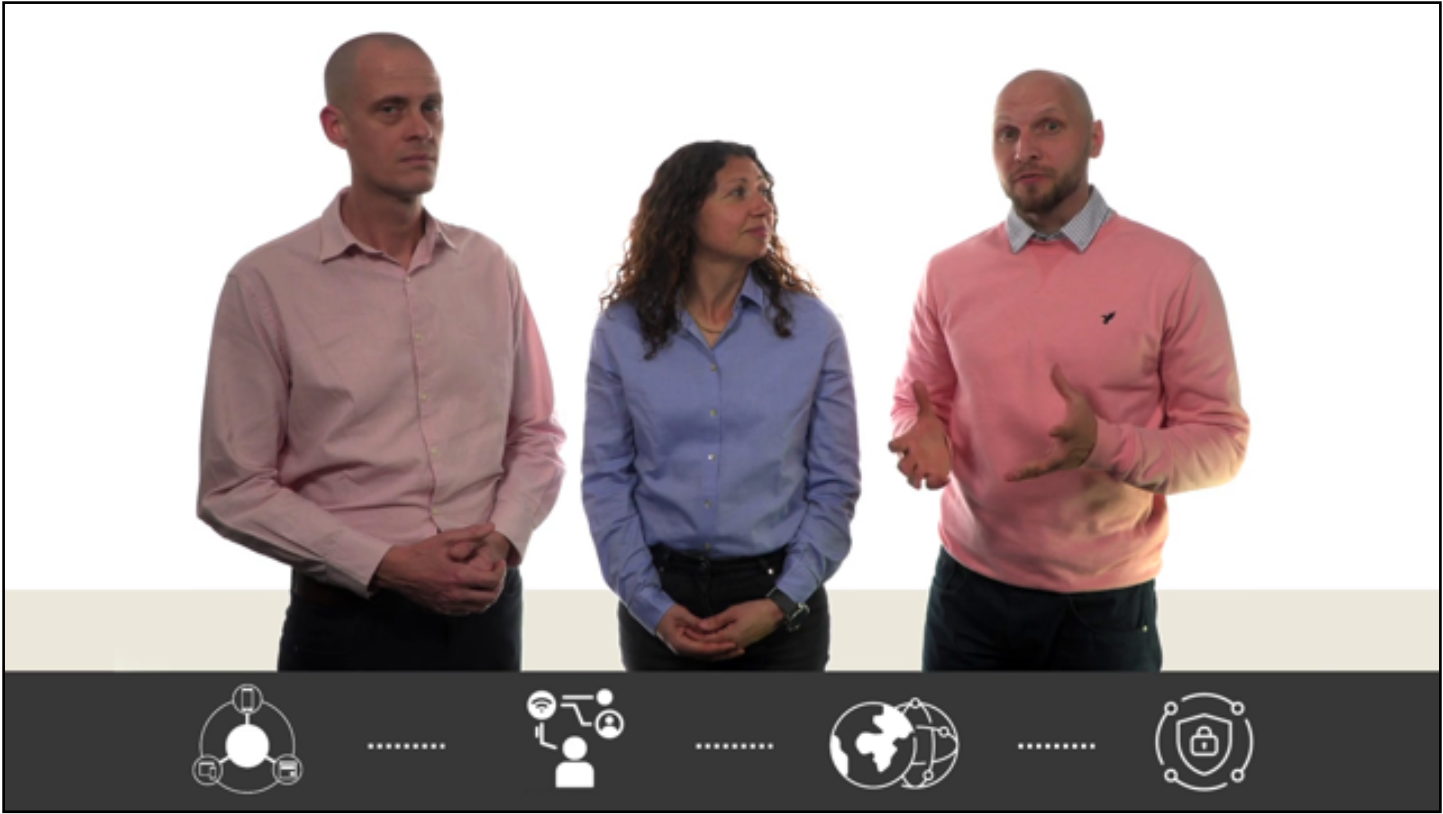
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Humanitarian staff needs to better understand the global digital ecosystem and its interactions with humanitarian crisis. We must also build more cyber-resilient organisations

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and live up to the trust people put in us. These are the conditions to prepare ourselves to increasingly be active stakeholders in cyberspace. Hello, I'm Greg from the Swiss Institute of Technology in Lausanne.

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Hi, I'm Dimitri from Doctors Without Borders. Hi, I'm Maria Elisa from the International Committee of the Red Cross. Welcome to our full week, massive open online course

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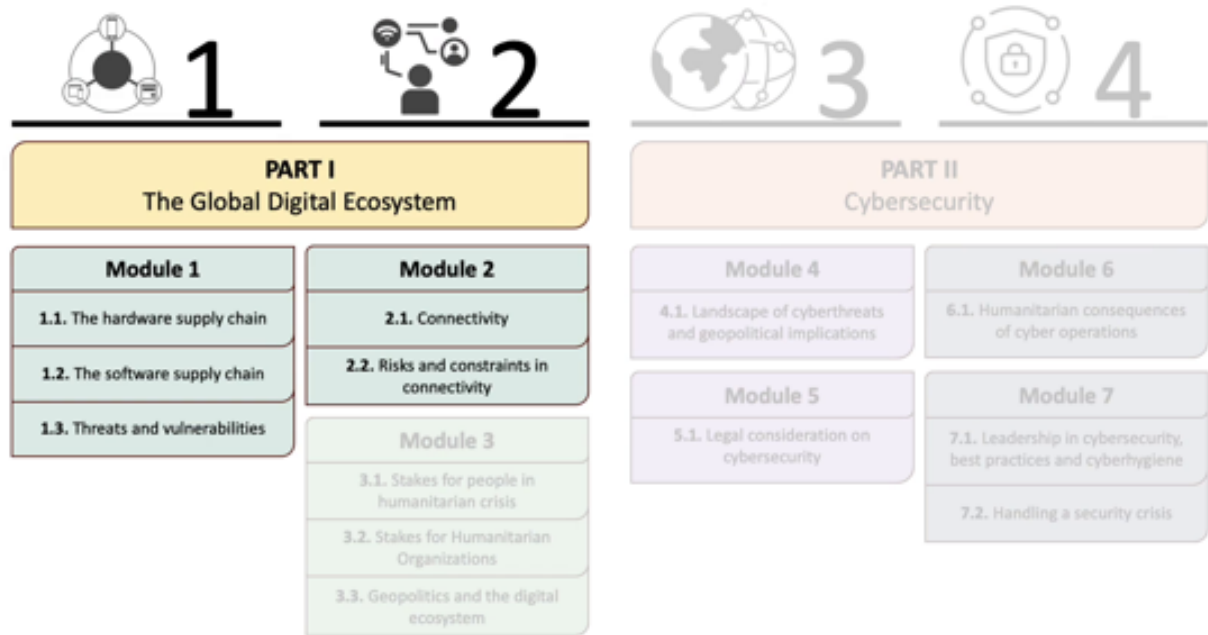
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WEEKS



on understanding the digital supply chain and its stakes for humanitarian actors. During the first 2 weeks, you will explore the global digital ecosystem,

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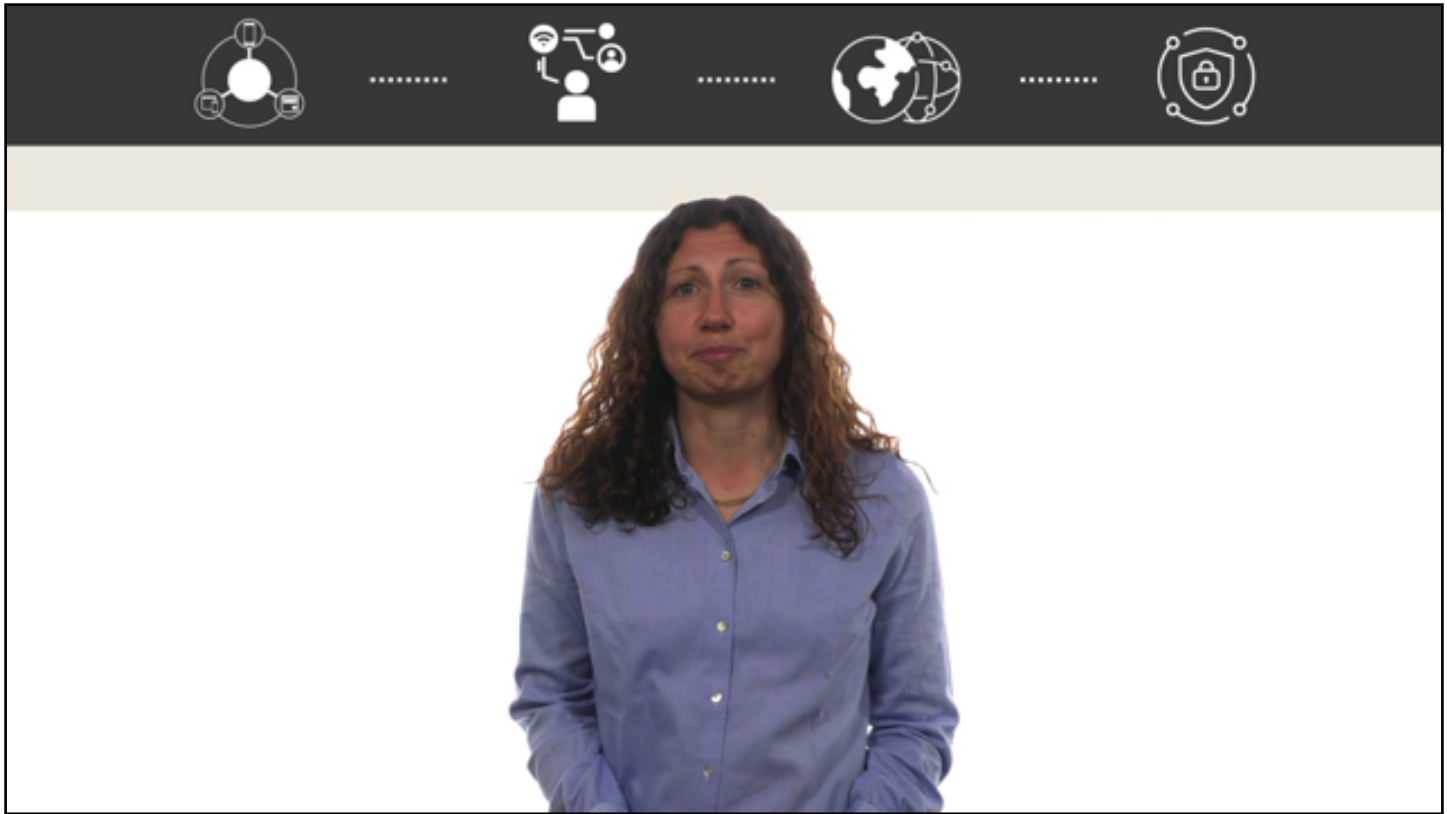
understand how hardware, software, and connectivity interact and discuss its stakes for the people and organisations that use them. At the end of this first part, you will be able to recognise and assess organisational risks,

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4m 1s





geopolitical stakes and threats to the people affected by humanitarian crisis in the context of the global digital ecosystem.

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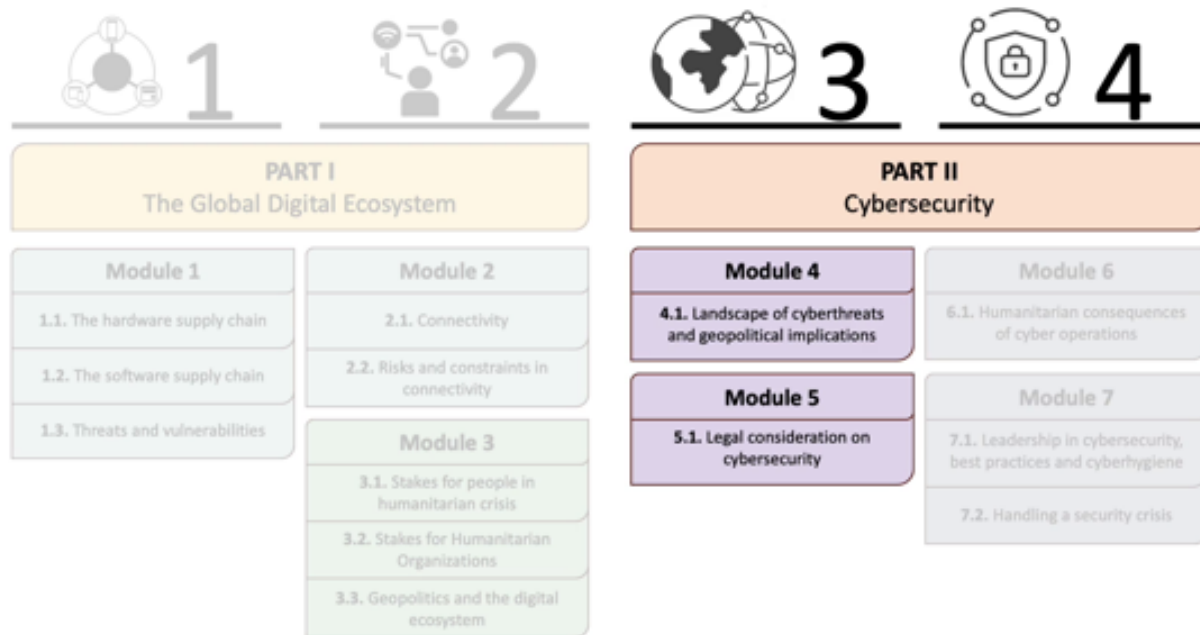
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4m 13s



WEEKS



During weeks 3 and 4, you will investigate cybersecurity from various angles. Geopolitical and legal perspectives on cybersecurity will be explored

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4m 20s



WEEKS



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3



4

PART I The Global Digital Ecosystem

Module 1
1.1. The hardware supply chain
1.2. The software supply chain
1.3. Threats and vulnerabilities

Module 2
2.1. Connectivity
2.2. Risks and constraints in connectivity

Module 3
3.1. Stakes for people in humanitarian crisis
3.2. Stakes for Humanitarian Organizations
3.3. Geopolitics and the digital ecosystem

PART II Cybersecurity

Module 4
4.1. Landscape of cyberthreats and geopolitical implications

Module 5
5.1. Legal consideration on cybersecurity

Module 6
6.1. Humanitarian consequences of cyber operations

Module 7
7.1. Leadership in cybersecurity, best practices and cyberhygiene
7.2. Handling a security crisis

and humanitarian consequences of cyber operations described.

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summary

4m 30s



General Introduction



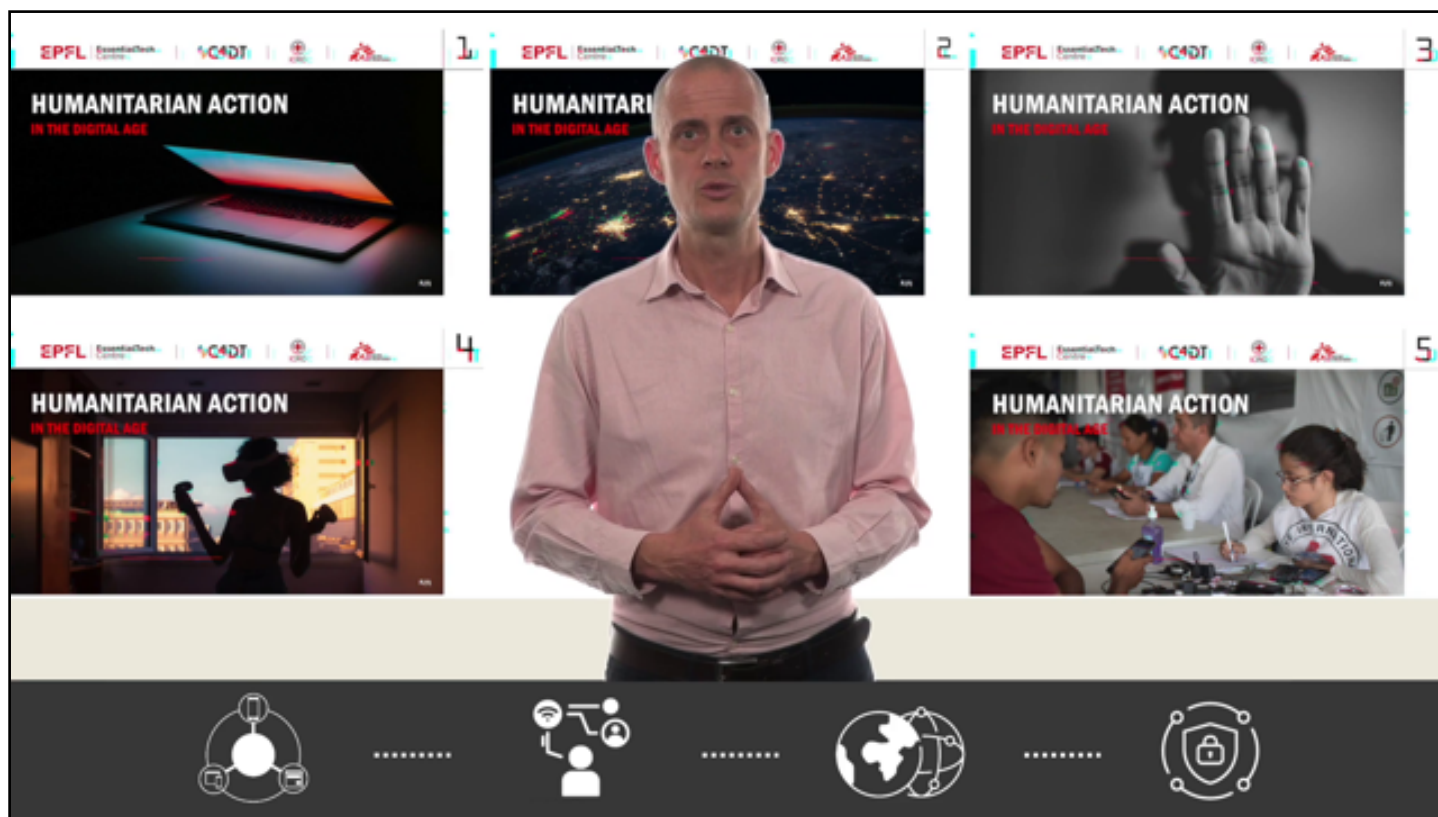
Leadership and best practises in cyberspace will also be exposed. At the end of this section, you will enjoy a solid understanding allowing you to critically assess humanitarian, organisational,

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4m 37s





This will allow you to get the basics and make more of this course.

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You will find the link in the text after this video. Now, we wish you a great course and look forward in seeing you in the first section.

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5m 15s



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