



Course material

Course:

Understanding the digital supply chain and its stakes for humanitarian actors

Video:

3.3.1 Geopolitical Dimensions of the Global Digital Ecosystem

Concepts (extracted from automatically generated subtitles):

Global digital supply chain. Digital technologies of welfare. Strategic relevance of the digital supply chain. Critical infrastructure. Semiconductor industry. General introduction. Corporate sector. Natural resources. Recent events. Recent supply chain disruptions. Digital supply chain. Digital global ecosystem. Geopolitical aspects of this ecosystem. Economic power. Previous chapters.



[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/>

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GEOPOLITICS AND THE DIGITAL ECOSYSTEM



Introduction

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notes

summary

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Introduction



Hello, my name is Mauro Vignati, and I'm advisor on digital technologies of welfare for the ICRC.

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summary

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Introduction



In the previous chapters, you learn about the global digital supply chain or ecosystem and its stakes for people living in humanitarian settings

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summary

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Introduction



and for humanitarian organisations. In this chapter, we will now explore the geopolitical aspects of this ecosystem. In the contemporary era,

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summary

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Introduction



the digital global ecosystem has become a fundamental component of geopolitical strategy and economic power. The strategic relevance of the digital supply chain,

notes

summary

0m 37s



Introduction



particularly the semiconductor industry, the competitive dynamics among major tech companies, and the impact of geopolitical conflicts on technology

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summary

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Strategic Relevance of Digital Supply Chain

Economic Influence

Control over chain nodes
exerts global market influence.

National Security

Digital infrastructure integrated
into national security.

Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

of digital products and services, including hardware, software, and telecommunications systems.

notes

summary

1m 13s





Strategic Relevance of Digital Supply Chain

Economic Influence

Control over chain nodes
exerts global market influence.

National Security

Digital infrastructure integrated
into national security.

Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

Its strategic relevance stems from several key aspects. The digital supply chain is a vital for economic stability and growth. Nations that control critical nodes within the chain exert significant influence

notes

summary

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Strategic Relevance of Digital Supply Chain

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National Security

Digital infrastructure integrated
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Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

over global markets. This dependency translates into geopolitical power, as seen in recent supply chain disruptions due to geopolitical tensions.

notes

summary

1m 37s





Strategic Relevance of Digital Supply Chain

Economic Influence

Control over chain nodes
exerts global market influence.

National Security

Digital infrastructure integrated
into national security.

Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

As digital infrastructure becomes more integrated into national security frameworks,

notes

summary

1m 49s





Strategic Relevance of Digital Supply Chain

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Digital infrastructure integrated
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Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

control over the digital supply chain has direct implications for cybersecurity. Nations are increasingly concerned about securing their digital infrastructure from potential espionage and sabotage,

notes

summary

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Strategic Relevance of Digital Supply Chain

Economic Influence

Control over chain nodes
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National Security

Digital infrastructure integrated
into national security.

Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

leading to high-risk continuity of foreign technology and supply chains. The global digital supply chain is inherently complex and interdependent,

notes

summary

2m 13s





Strategic Relevance of Digital Supply Chain

Economic Influence

Control over chain nodes
exerts global market influence.

National Security

Digital infrastructure integrated
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Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

involving various stages from raw material extraction to end-user delivery.

notes

summary

2m 25s





Strategic Relevance of Digital Supply Chain

Economic Influence

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exerts global market influence.

National Security

Digital infrastructure integrated
into national security.

Complex Interdependence

Chain vulnerabilities may have
far-reaching consequences.

Vulnerability in this chain can have far-reaching consequences.

notes

summary

2m 30s



Introduction



Recent events, such as the COVID-19 pandemic and international armed conflicts, have highlighted the fragility of the supply chain. Now, after this general introduction,

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summary

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Introduction

Key Aspects of Digital Geopolitics



Semi-Conductor and Natural Resources



Roles and Stakes for the Corporate Sector



Roles and Stakes for Nations

we will now dive into three important aspects of the geopolitics of the digital supply chain,

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summary

2m 49s



Image Reference



In order of appearance

PICTURE1 : robin-worrall-FP110LXK0cg-unsplash
PICTURE2 : World humanitarian by xartproduction from Adobe Stock
ICON1 : Created by Sharon Showalter from Noun Project
ICON2 : Created by Chalwat Kinkaew from Noun Project
ICON3 : Created by IconField from Noun Project
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ICON6 : Created by Prabaswara Studio from Noun Project
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semiconductors, and natural resources, roles and stakes for the corporate sector and for the nations, before concluding our chapter.

notes

summary

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