

Course material

Course:

Understanding the digital supply chain and its stakes for humanitarian actors

Video:

2.2.1 Overview of Connectivity Risks and Constraints

Concepts (extracted from automatically generated subtitles):

Previous chapter. Wide coverage. Mobile network. Local country infrastructure. Remote areas. Disadvantages of different types of internet connectivity. Optical fibres. Urban infrastructure. High speed. Mobile. Higher latency. Independence. Advantages. Speed. Wimax.



[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/>

CONNECTIVITY: RISKS AND CONSTRAINTS

Introduction

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notes

summary

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Satellite Connectivity Options

VSAT

Wide coverage, independence from local country infrastructure, reliable, higher latency and expensive.

Starlink

Wide coverage, not legal everywhere yet, independence from local country infrastructure, reliable, cheap and high bandwidth.

Bgan

Wide coverage, independence from local country infrastructure, reliable but limited speed and very expensive.

To recap the previous chapter, let's remind each connectivity main specification. The satellite ones.

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The VSAT: wide coverage, independence from local country infrastructure, reliable, higher latency, and expensive. Starlink: wide coverage, not legal everywhere yet,

notes

summary

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Satellite Connectivity Options

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Landline Connectivity Options



DSL: Mostly reliable and moderate speed, availability depends on urban infrastructure.

Optical Fiber : Reliable and high speed, infrastructure cost could be high and upstream could be the bottleneck.

reliable, but limited speed, and very expensive. The landline. DSL: mostly reliable and moderate speed, availability depends on the urban infrastructure.

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Mobile Connectivity Options



WiMax: Decent speeds, availability depends on urban infrastructure.

Mobile Networks (3G/4G/5G) : Widespread but limited in remote areas, most of the time limited bandwidth and data plan.

Optical fibres: reliable, high speed, infrastructure cost could be high, and upstream could be the bottleneck. The mobile. WiMax: decent speed,

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Mobile Connectivity Options



WiMax: Decent speeds, availability depends on urban infrastructure.

Mobile Networks (3G/4G/5G) : Widespread but limited in remote areas, most of the time limited bandwidth and data plan.

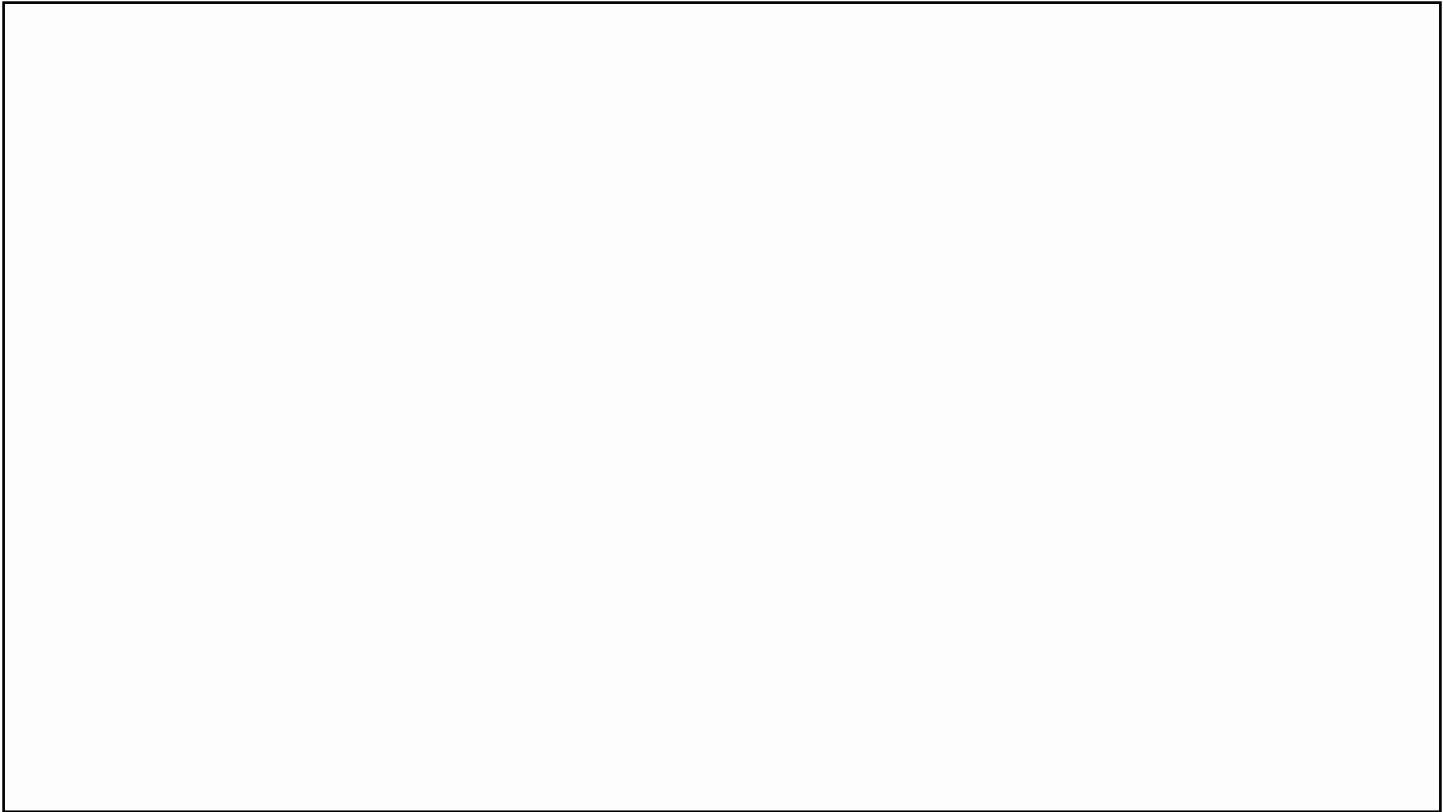
availability depends on the urban infrastructure. Mobile network, 3G, 4G, 5G: widespread but limited in remote areas,

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most of the time limited bandwidth and data plan. Now let's look at the advantages and disadvantages of different types of internet connectivity in the context of politics, laws, and security.

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