

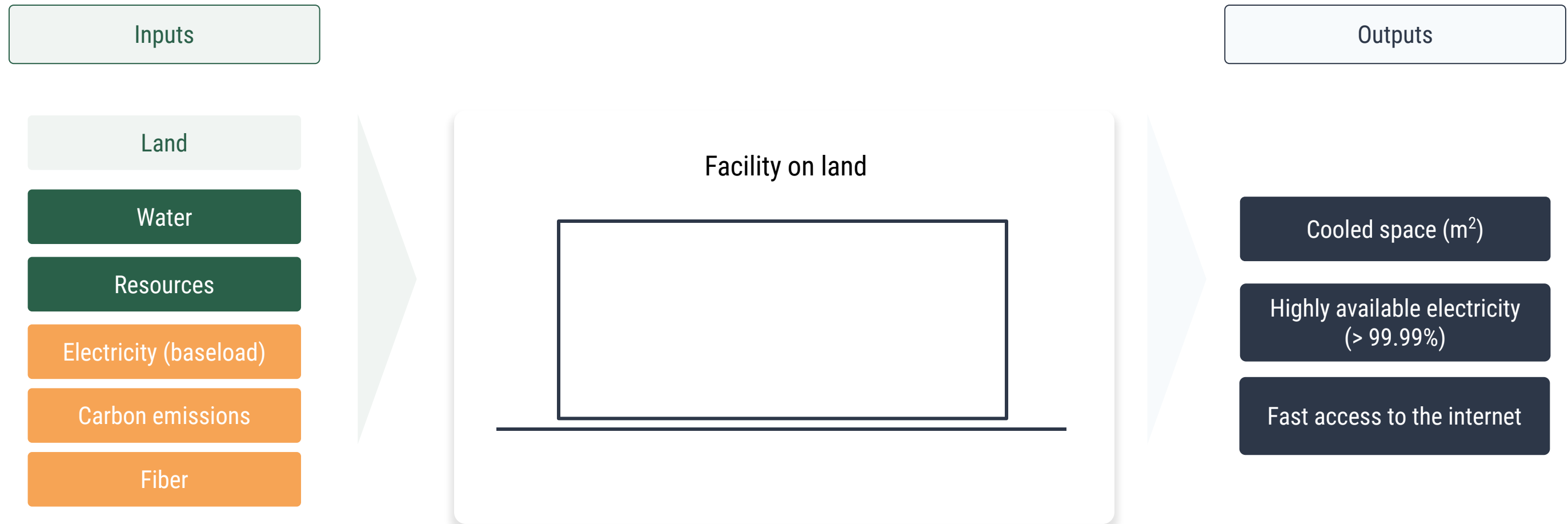


SUSTAINABLE DIGITAL
INFRASTRUCTURE ALLIANCE

Untangling digital infrastructure: A new school of thought

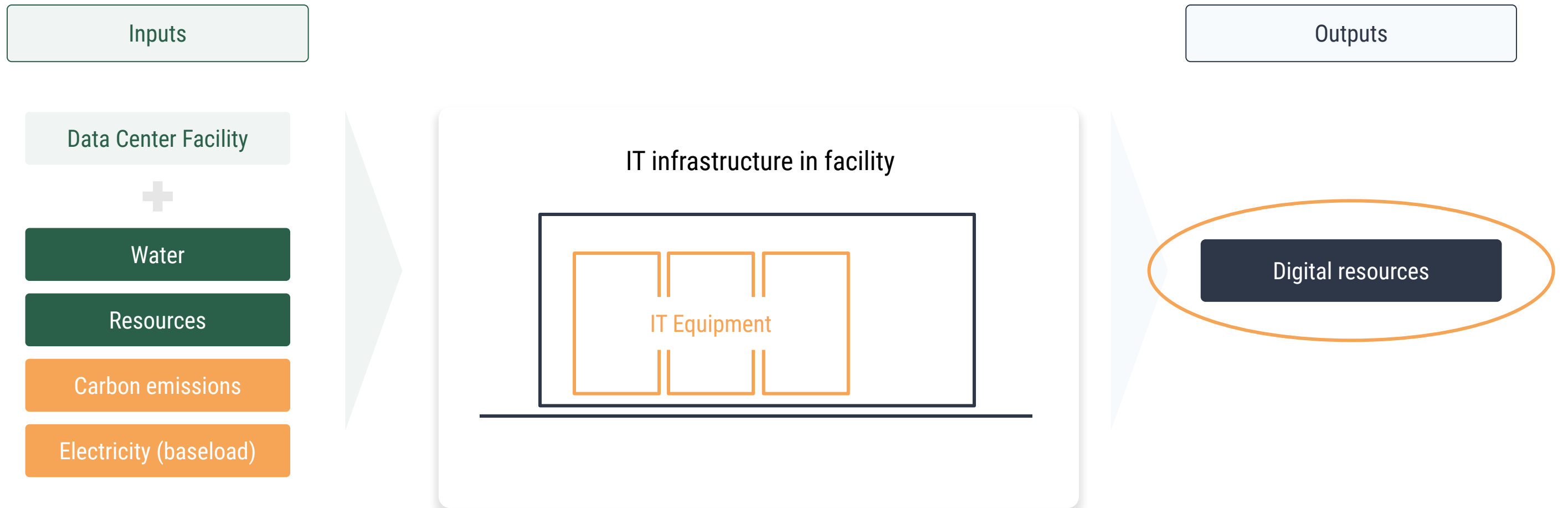
Presentation, EU Connect, 28th of September 2022

A data center facility is the “empty office building” for IT infrastructure businesses



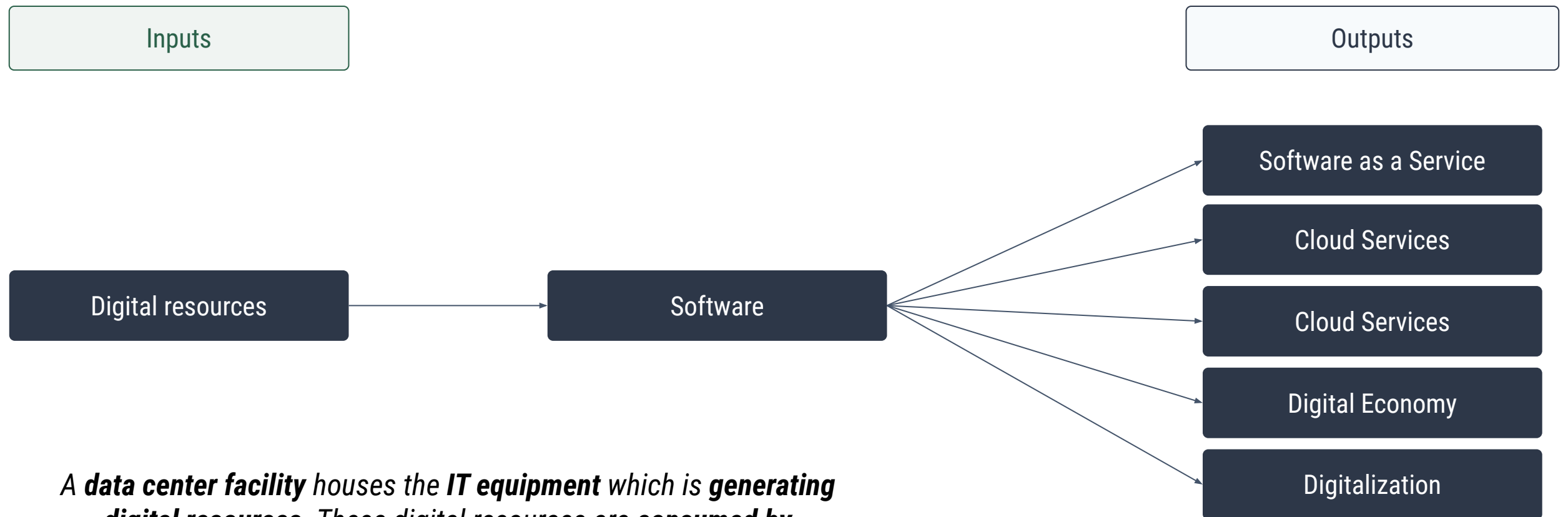
Business model: Co-location, wholesale co-location, build-to-suit, ...

IT businesses bring their own “furniture” = “digital resource generators” (IT equipment)



*Business model: Hosting, cloud infrastructure,
IT infrastructure as a service, ...*

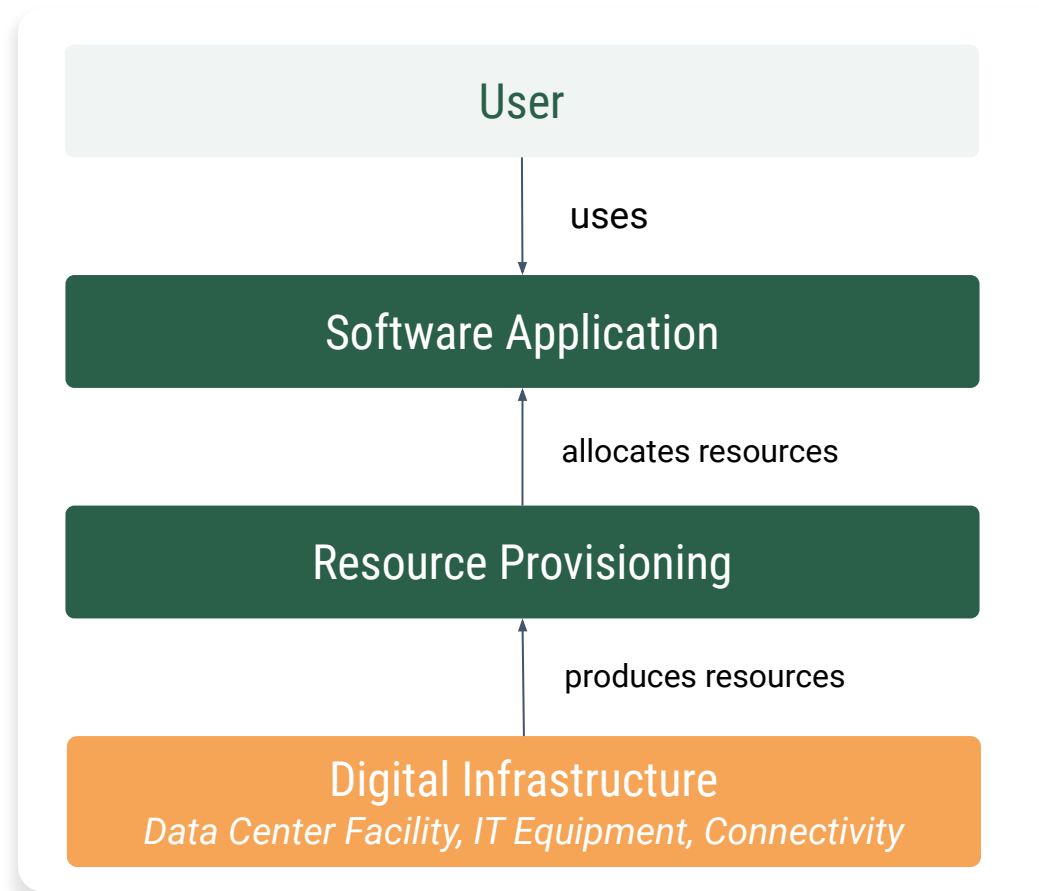
And these digital resources are what power software which drives the digital economy & transformation



A data center facility houses the IT equipment which is generating digital resources. These digital resources are consumed by software applications.

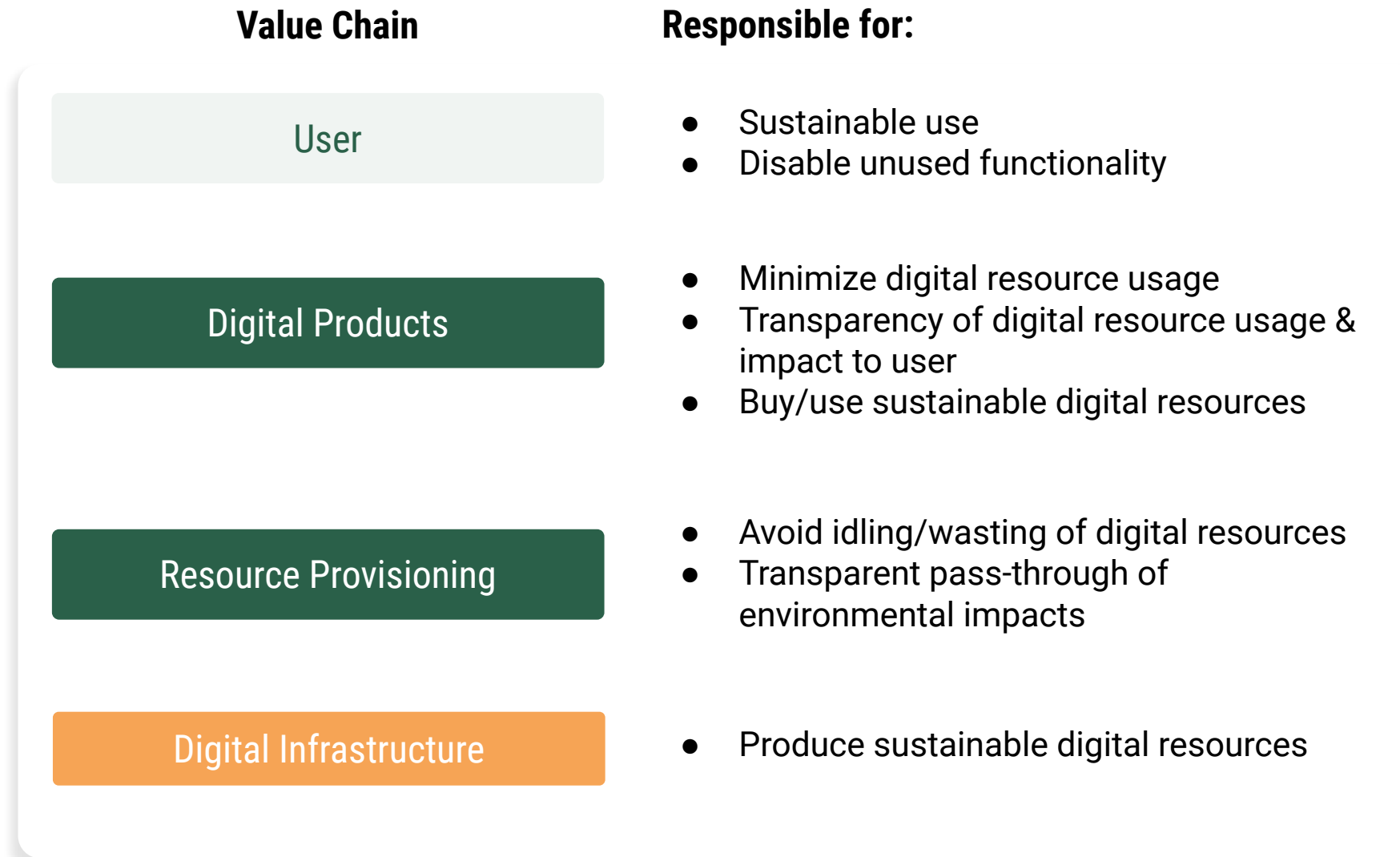
Without software = no demand for digital resources

To make it even simpler, we have created this thought model:

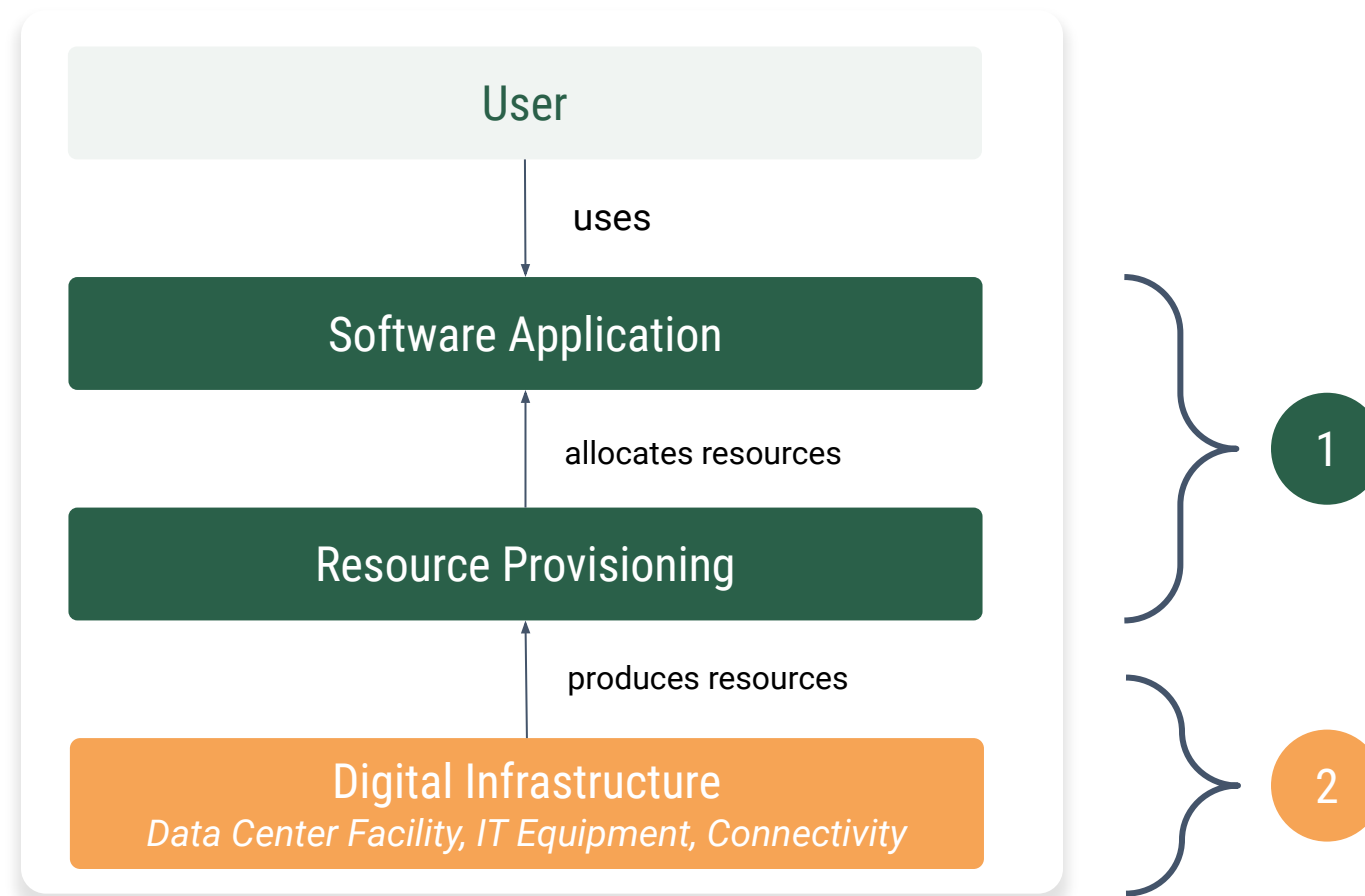


A more detailed version can be found in the paper [Taxonomy for a Digital Economy](#) Schulze, Kumar, Oghia, 2021 published by the Commonwealth & SDIA

Using it we can assign clear responsibilities to market actors and design effective policy:



In this value chain, there are two leverage points for sustainable development of the digital sector:



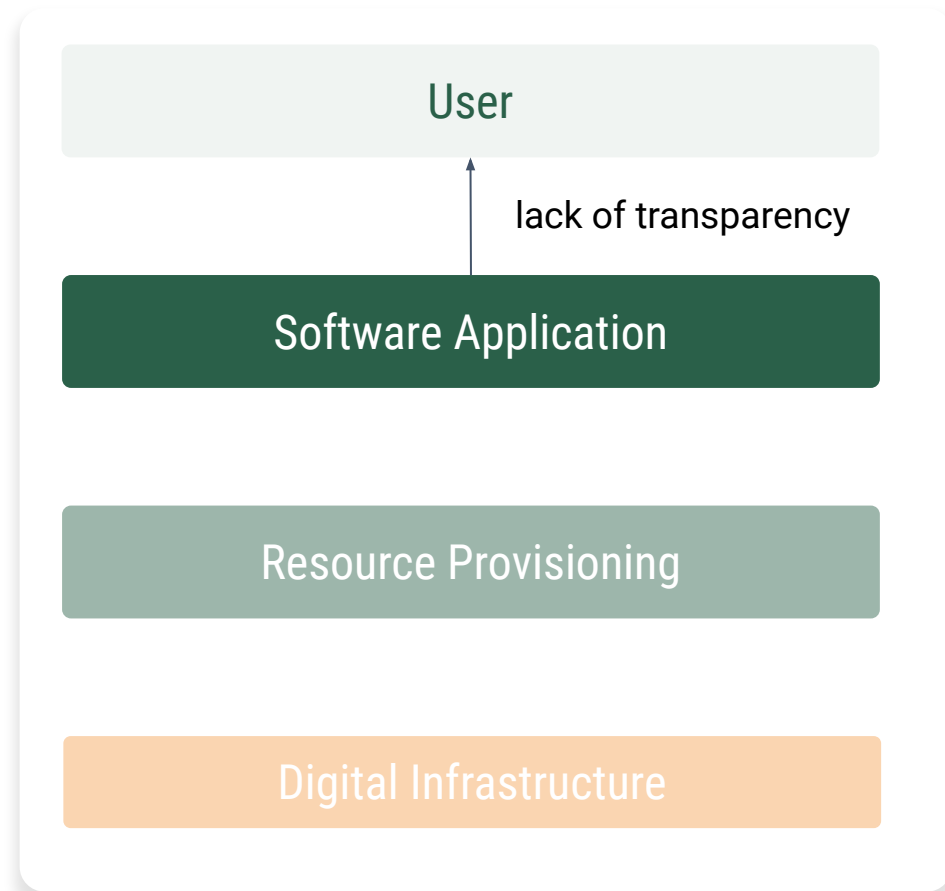
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Lord Kelvin: “to measure is to know”

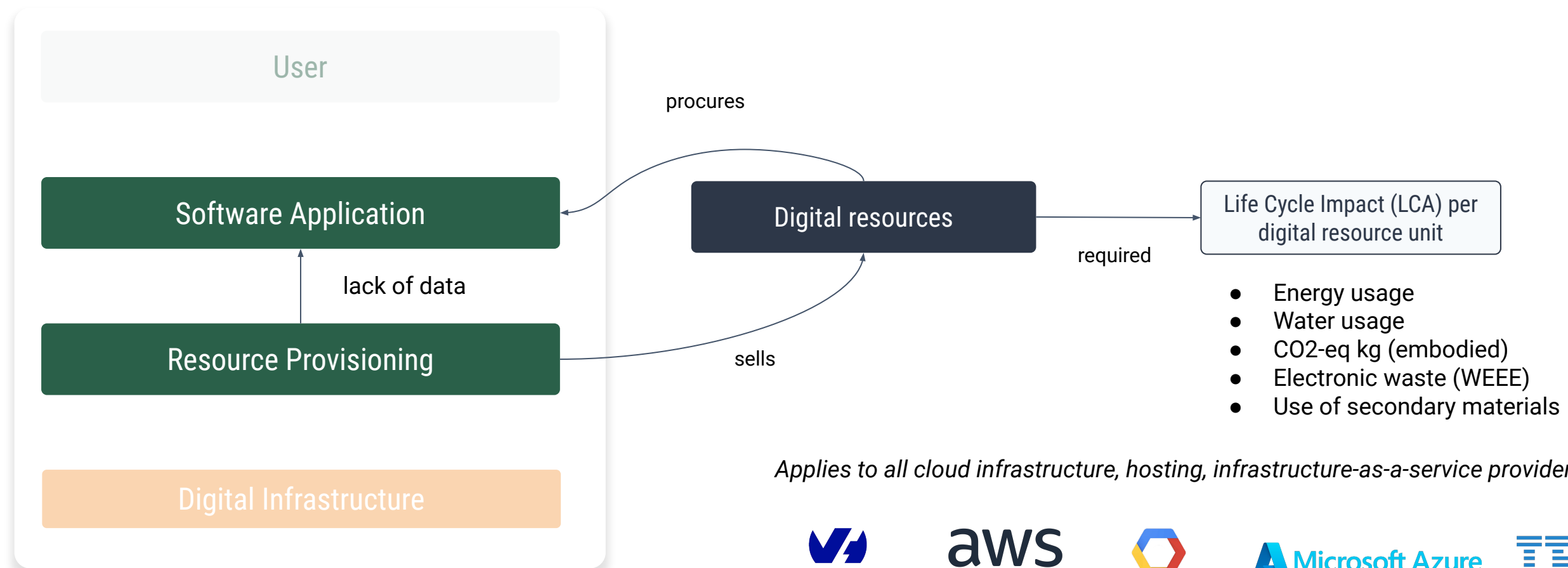
The first step is transparency.
Here are the 3 challenges prohibiting it.

CHALLENGES

Challenge 1: A customer has no transparency on the environmental impact of their usage.



Challenge 2: The software application does not receive information on impact of digital resources consumed

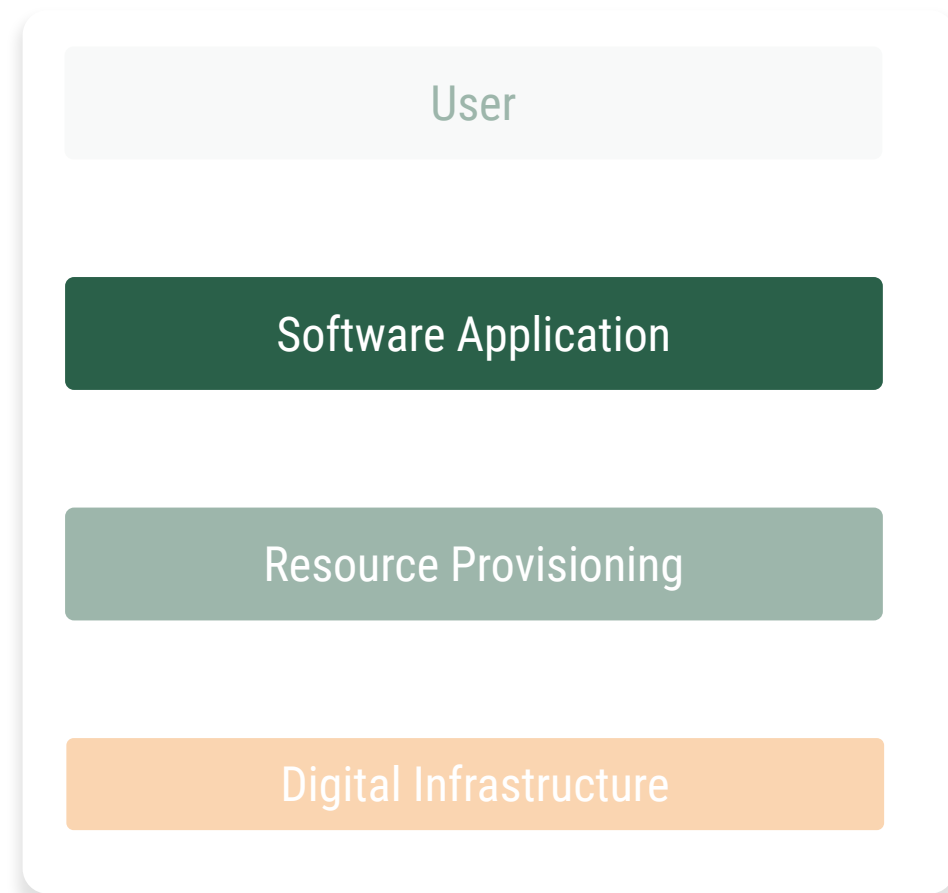


Applies to all cloud infrastructure, hosting, infrastructure-as-a-service providers:



CHALLENGES

Challenge 3: There is no accepted & standardized method to assess the environmental impact of software



SDIA

Brings all actors together, enables collaboration & though models/policy ideas



Thank you!

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