



SUSTAINABLE DIGITAL
INFRASTRUCTURE ALLIANCE

The Digital Carbon Footprint - A first step for the Roadmap.

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Why do we need a Carbon Footprint for the Digital Economy?



Track progress

- Adaption of the Roadmap across the Sector
- Progress on Key Activities



Assess impact

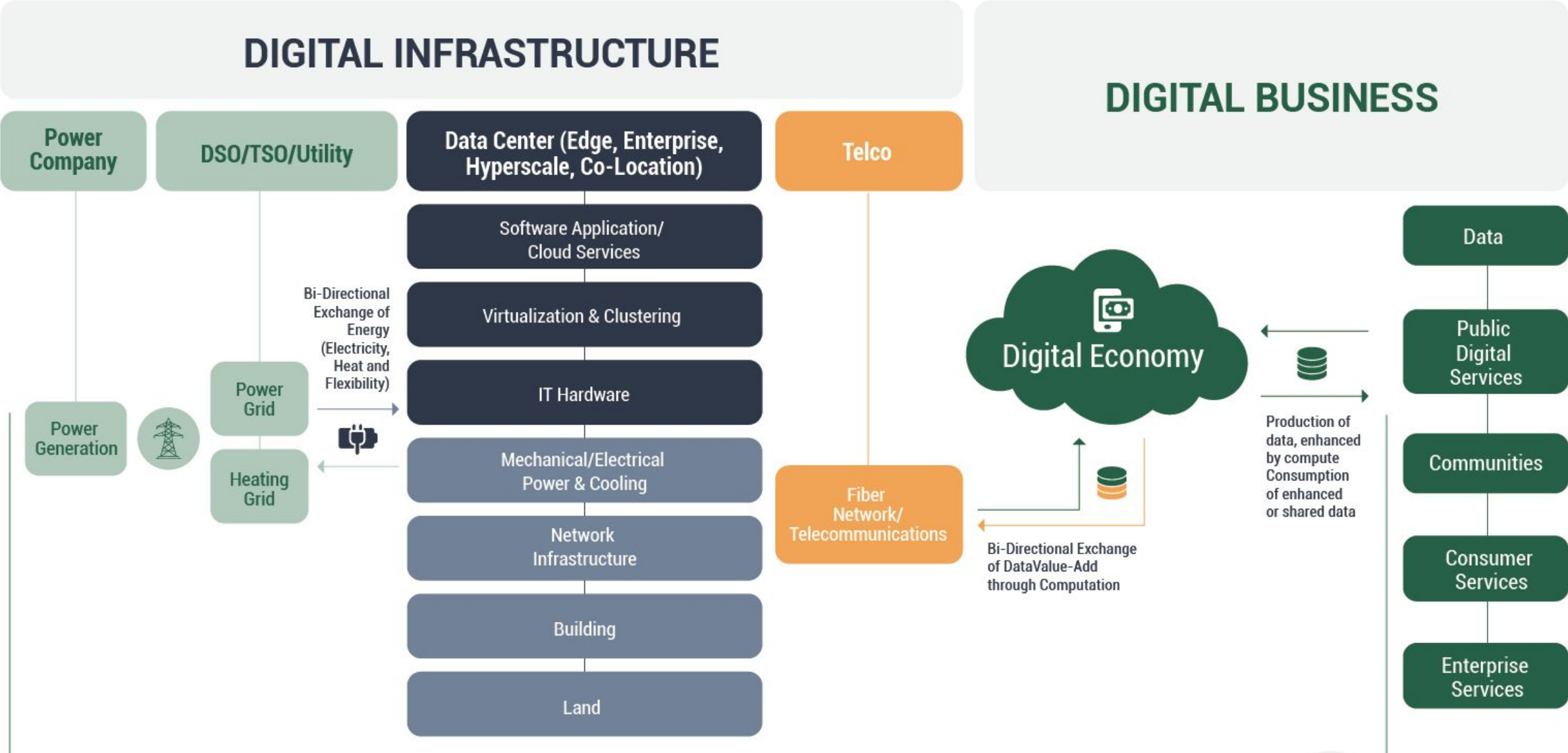
- Quantify the Impact of each Activity
- Comprehensive view on resources, carbon emissions and pollutions



Create transparency

- Industry-wide benchmark on sustainability
- Open Data Hub for research to access data sources

The Digital Carbon Footprint will span the entire value-chain.

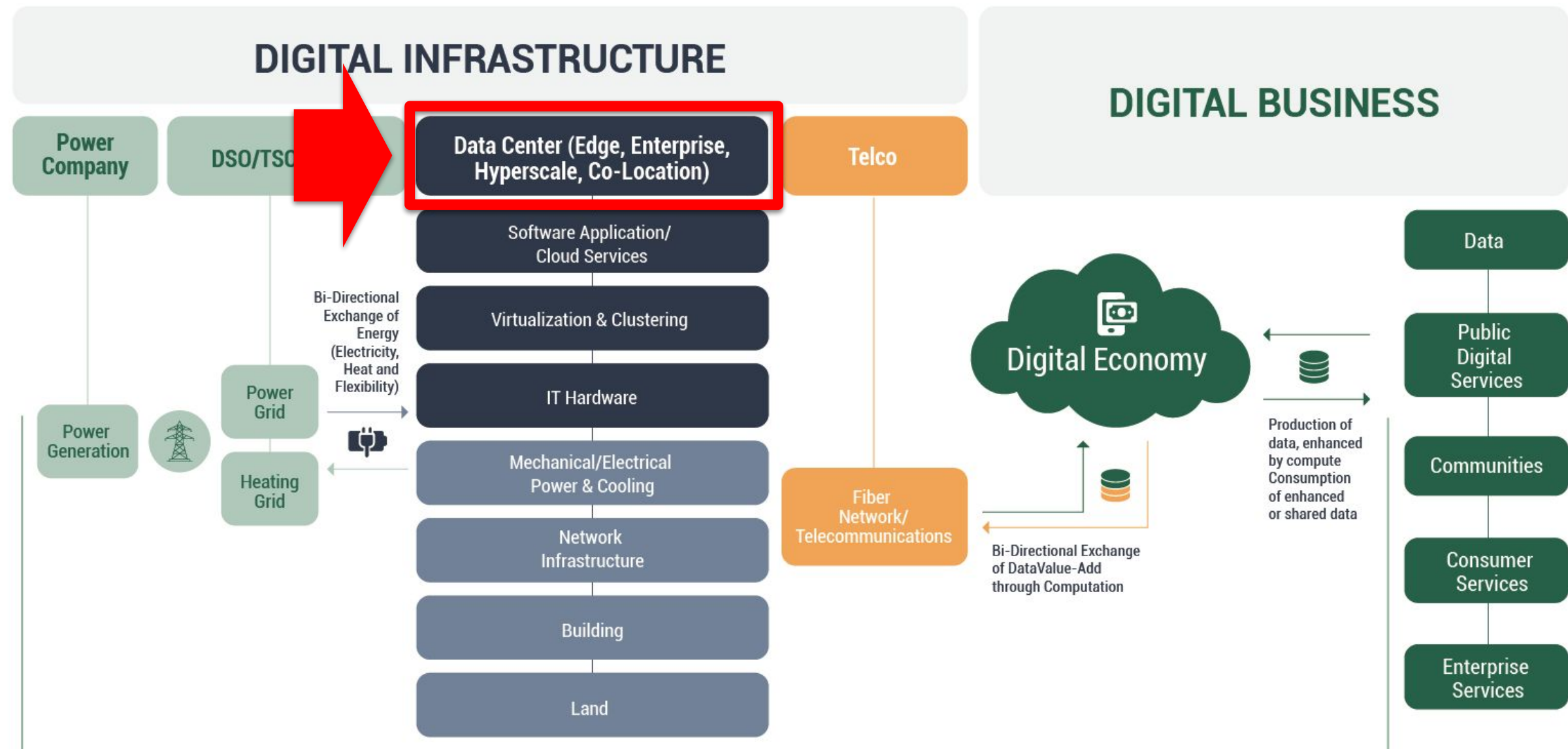




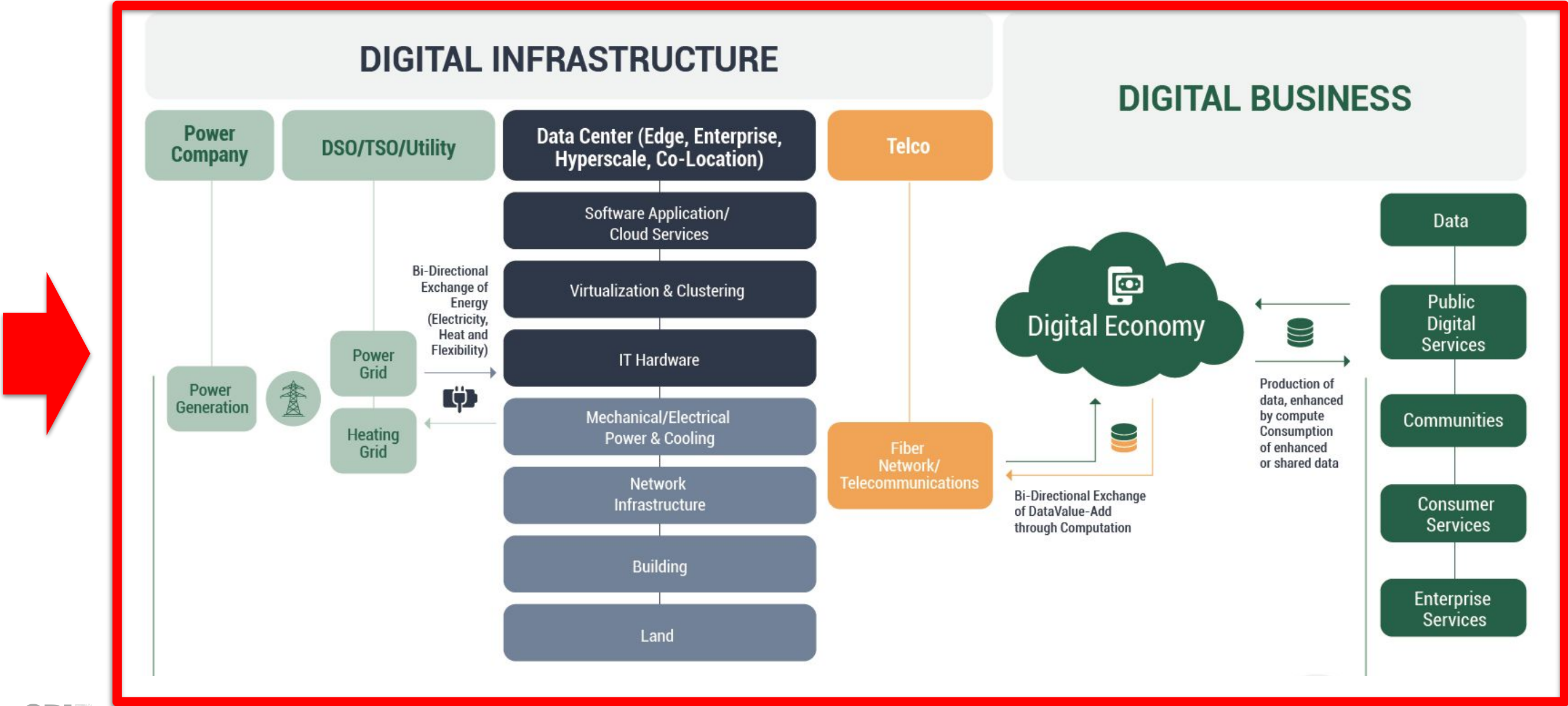
How to create a Digital Carbon Footprint?

From metrics to actual data that can be used to calculate the Digital Carbon Footprint.

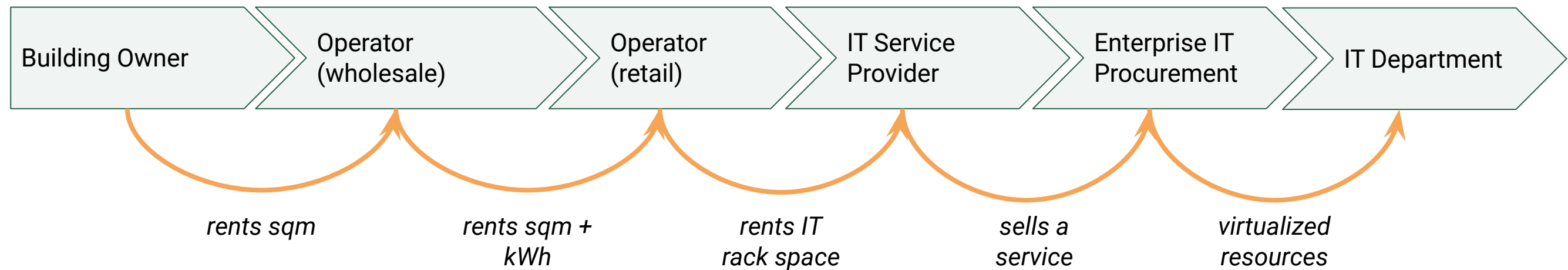
The Engine Room is not the only place within the Digital Sector.



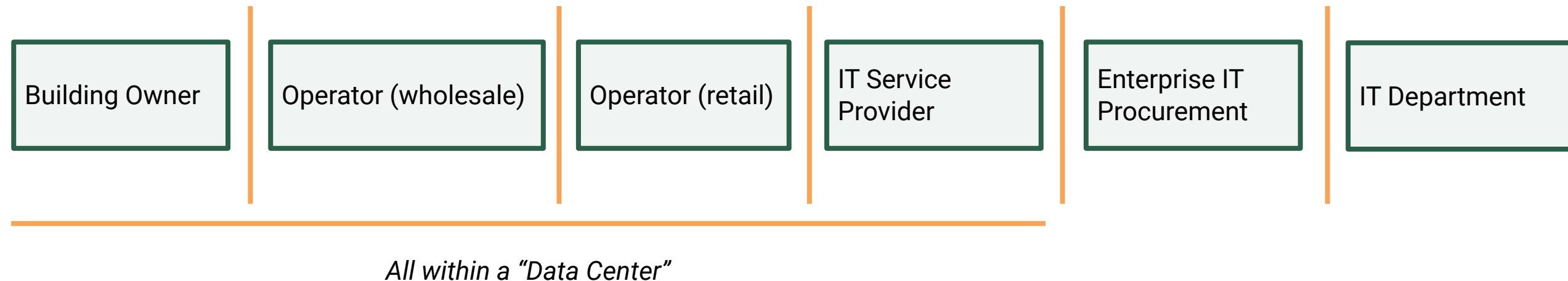
We need to take the entire sector - the value chain into account.



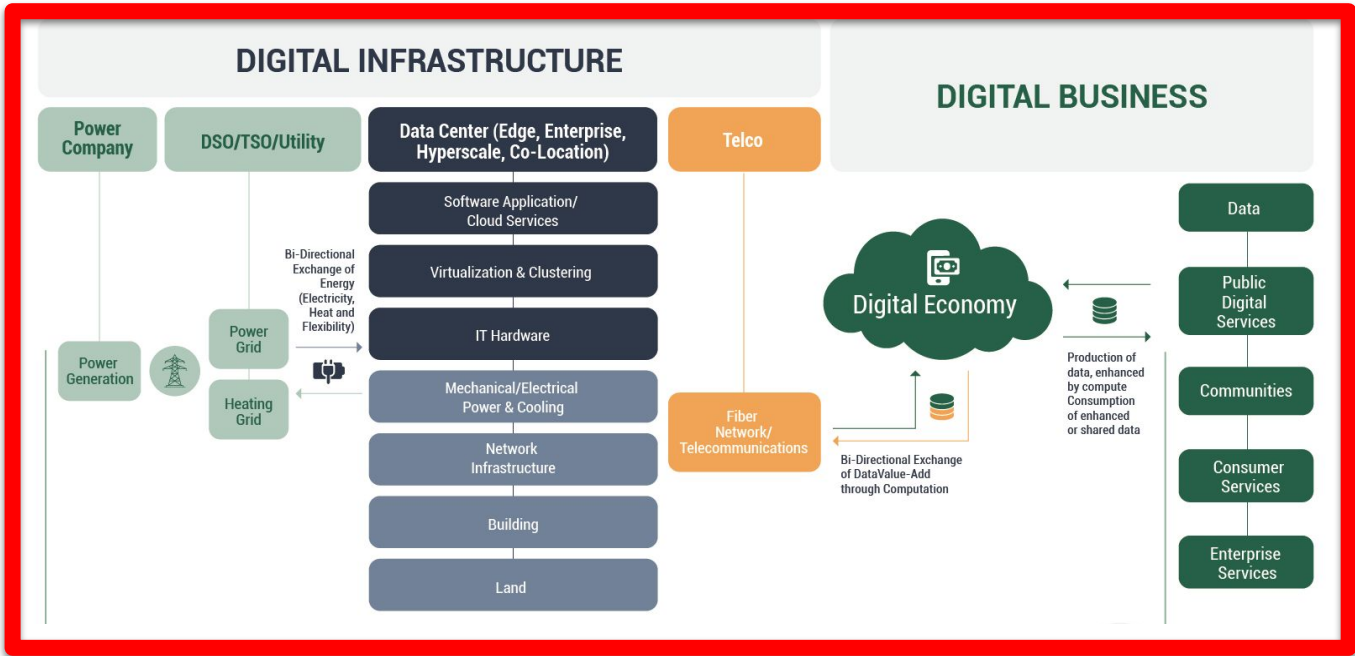
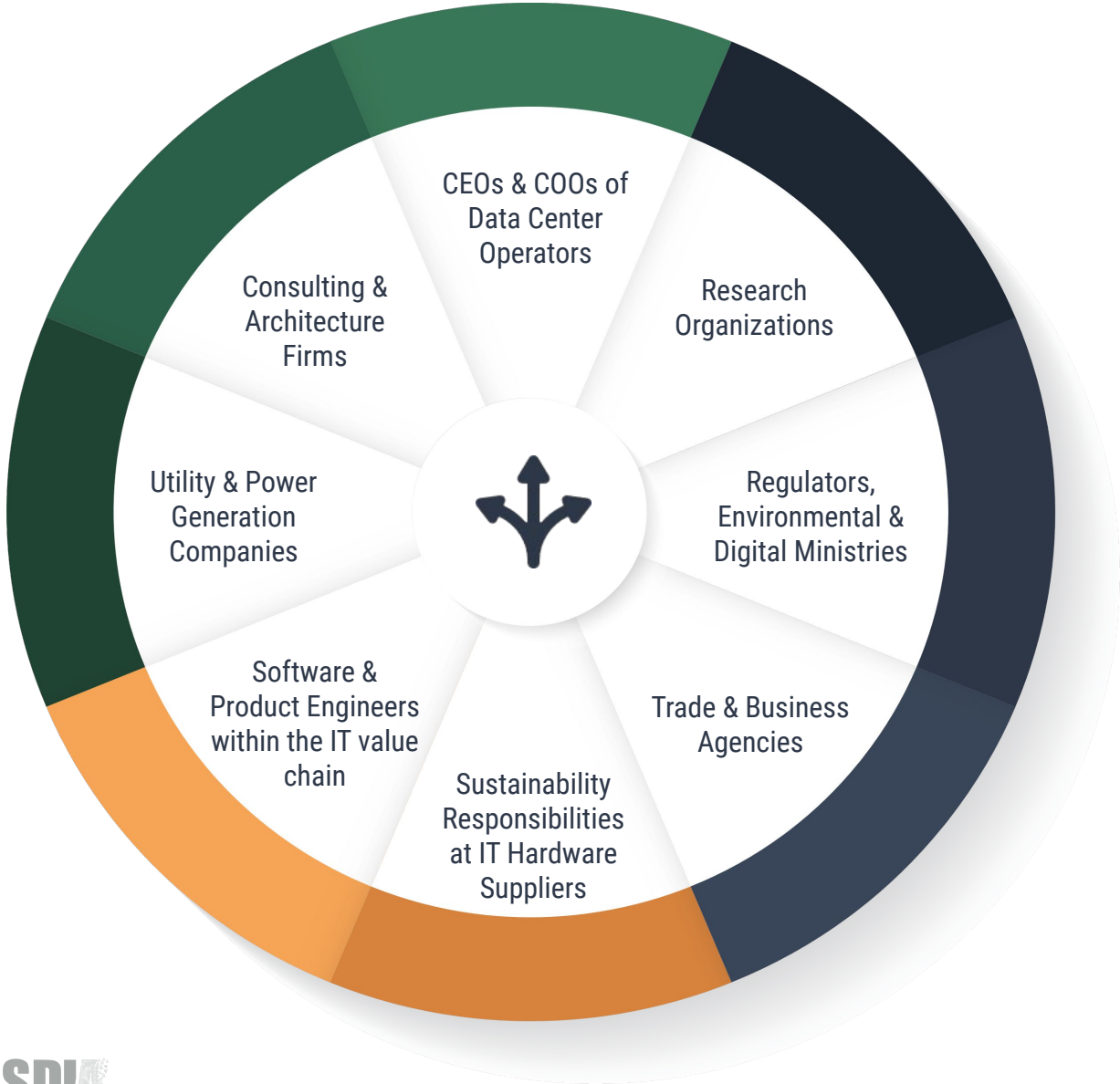
But here is where the complexity of the sector begins...



There are many business - disconnected and isolated from each other - operating a data center:



So again: We need to look at the entire value chain.



We created a Scorecard, the transcends each step in the value chain.

Pre Operation		Pre Operation		Operation		Post Operation	
Mining - Building		Construction		Data Center Operations		Decommissioning	
Energy	Fossil Fuel	Energy	Fossil Fuel	Energy	Fossil Fuel/reused/raw consumption	Energy	Fossil Fuel
Resources	Ores/mining	Resources	Waste	Resources	Ores/mining/water/chemicals	Resources	Ores/mining
	Recyclables		Recyclables		Recyclables		Recyclables
Pollutants/Emissions	CO2e	Pollutants/Emissions	CO2e	Pollutants/Emissions	CO2e	Pollutants/Emissions	CO2e
	Contaminants		Contaminants		Contaminants		Contaminants
Mining - Hardware		Manufacturing		Application/Software Operations		Recycling/Disposal	
Energy	Fossil Fuel	Energy	Fossil Fuel	Energy	Fossil Fuel	Energy	Fossil Fuel
Resources	Ores/mining	Resources	Waste	Resources	Ores/mining	Resources	Ores/mining
	Recyclables		Recyclables		Recyclables		Recyclables
Pollutants/Emissions	CO2e	Pollutants/Emissions	CO2e	Pollutants/Emissions	CO2e	Pollutants/Emissions	CO2e
	Contaminants		Contaminants		Contaminants		Contaminants



Creating the SDIA Data Hub for Digital Infrastructure

Making the data available to Research and for the Industry Benchmark.

The SDIA Data Hub makes the underlying data of the Digital Carbon Footprint available to everyone:



SDIA Data Hub



- Near- & Real-Time + Historic Data
- Available to Researchers
- Anonymized & protecting business-critical data



- Creating Transparency
- Clear visibility on how Footprint was calculated
- Independently verifiable



- Industry Benchmark on Sustainability
- Track sector-wide progress
- Clear insights on own position and regional development



CONCLUSION

Creating the Digital Carbon Footprint is the first step on our Roadmap. Come join us.



Carbon Footprint Illustration.

A comprehensive view on resource consumption, pollution and carbon emissions across the entire Digital Infrastructure Sector.

JOIN US

Join the SDIA Roadmap to be part of it.

sdialliance.org/roadmap