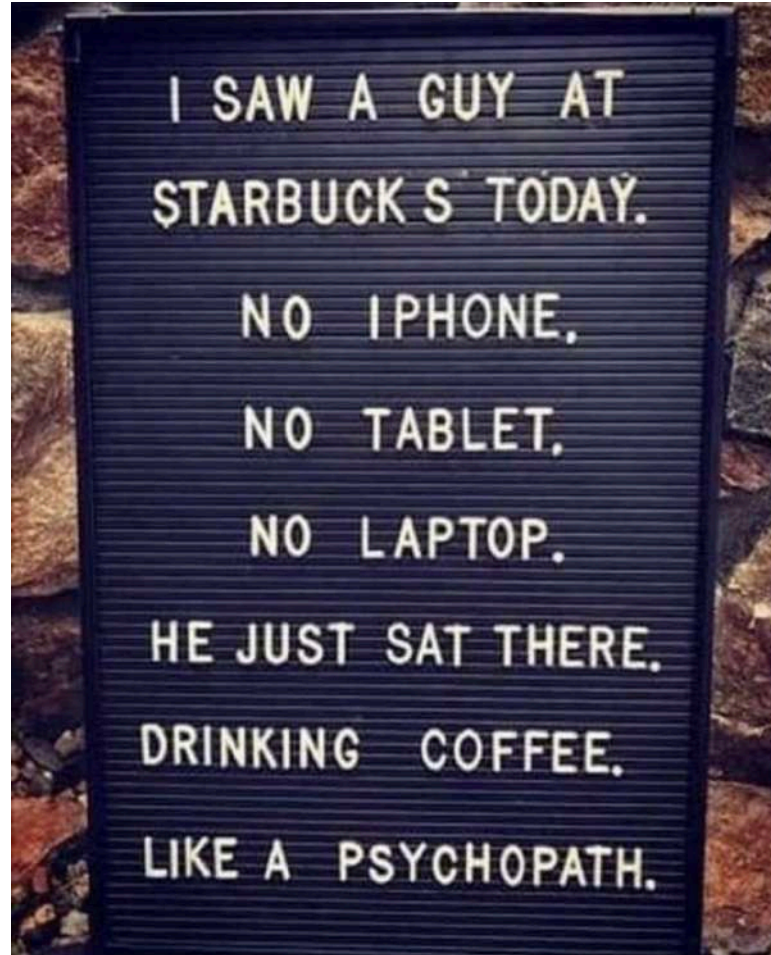




Welcome to the presentation:

**“The cloud is not in the sky”**

Starting soon....



**The Cloud is not in the sky**

The importance of the  
digital infrastructure  
for OUR society

Presented by:

**Bastiaan Janssen**

Managing Partner, EPI Europe

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# Why this presentation?

Our digital infrastructure drives  
innovation and enables sustainability!



# Agenda

EPI – The cloud is not in the sky

**About  
EPI**

Bastiaan Janssen  
EPI

**The digital society  
Can we live without IT?**

**Datacenters: Complex Environments**

**The Nordics**  
Why are the Nordics a good  
and sustainable place for  
datacenters?

**Conclusions  
Closing  
Q&A**





Bastiaan Janssen  
EPI

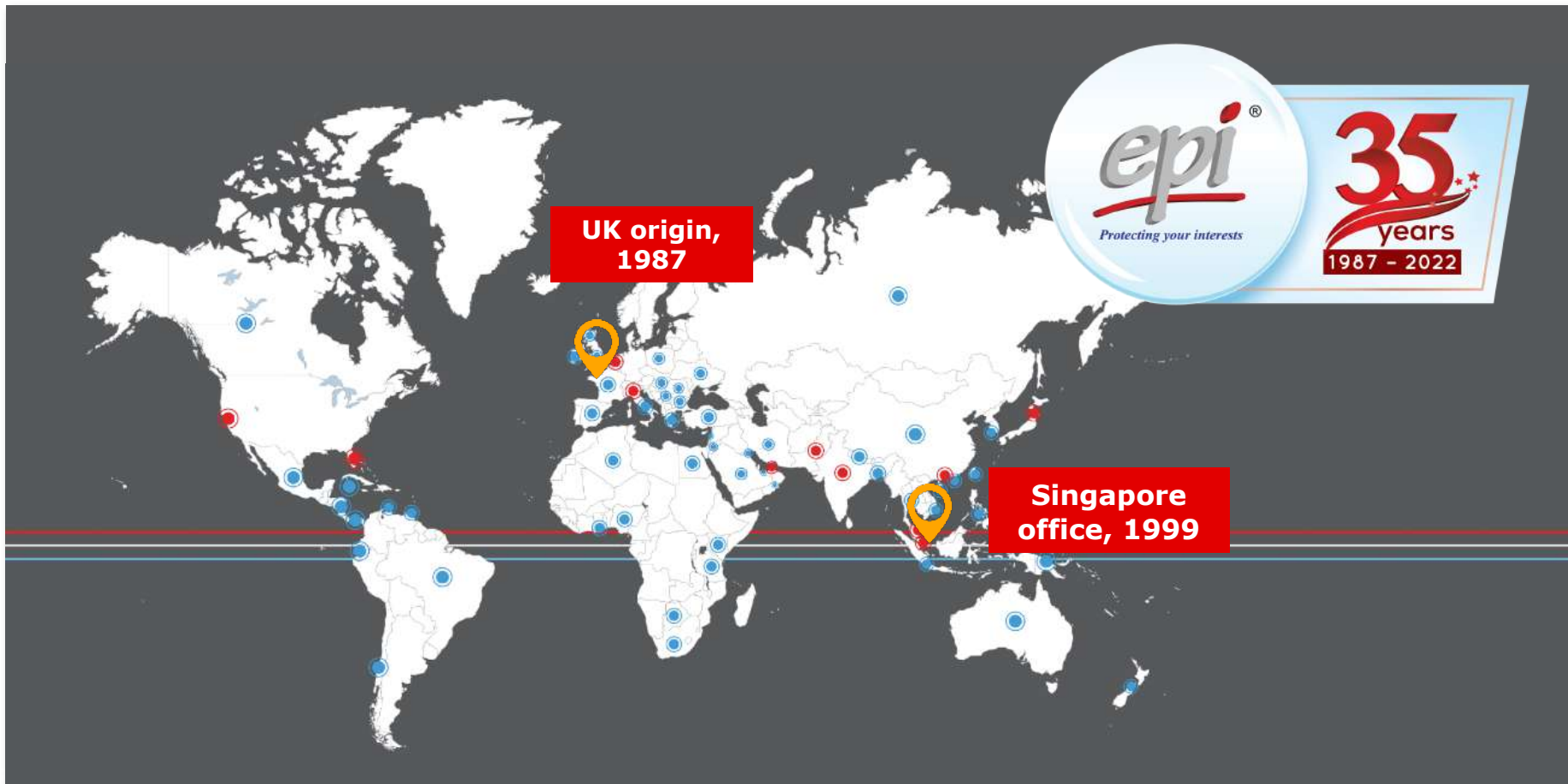
# About EPI





# History & Global Locations

EPI – The cloud is not in the sky



**11 EPI offices worldwide**

**Global partner network spanning 60+ countries, 130+ cities**



# Data Center Expert

EPI – The cloud is not in the sky



Design & Validation



Audit & Certification



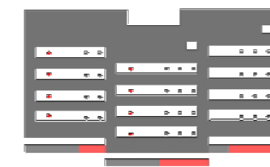
Training & Certification










# The digital society

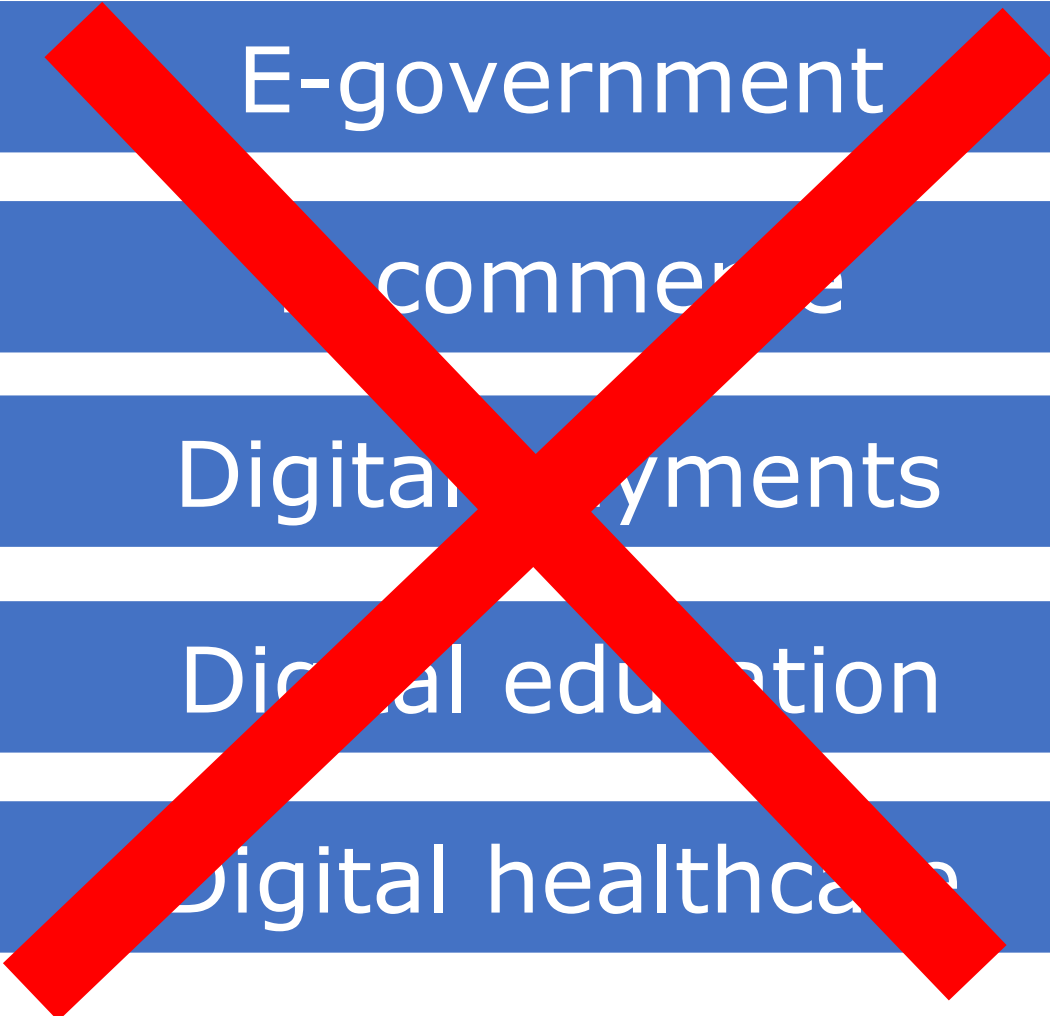
## Can we live without IT?



# Society of today: always online (?)

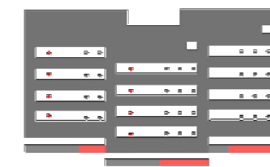
EPI – The cloud is not in the sky

-  E-governance
-  E-commerce
-  Digital payments
-  Digital education
-  Digital healthcare



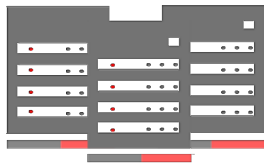
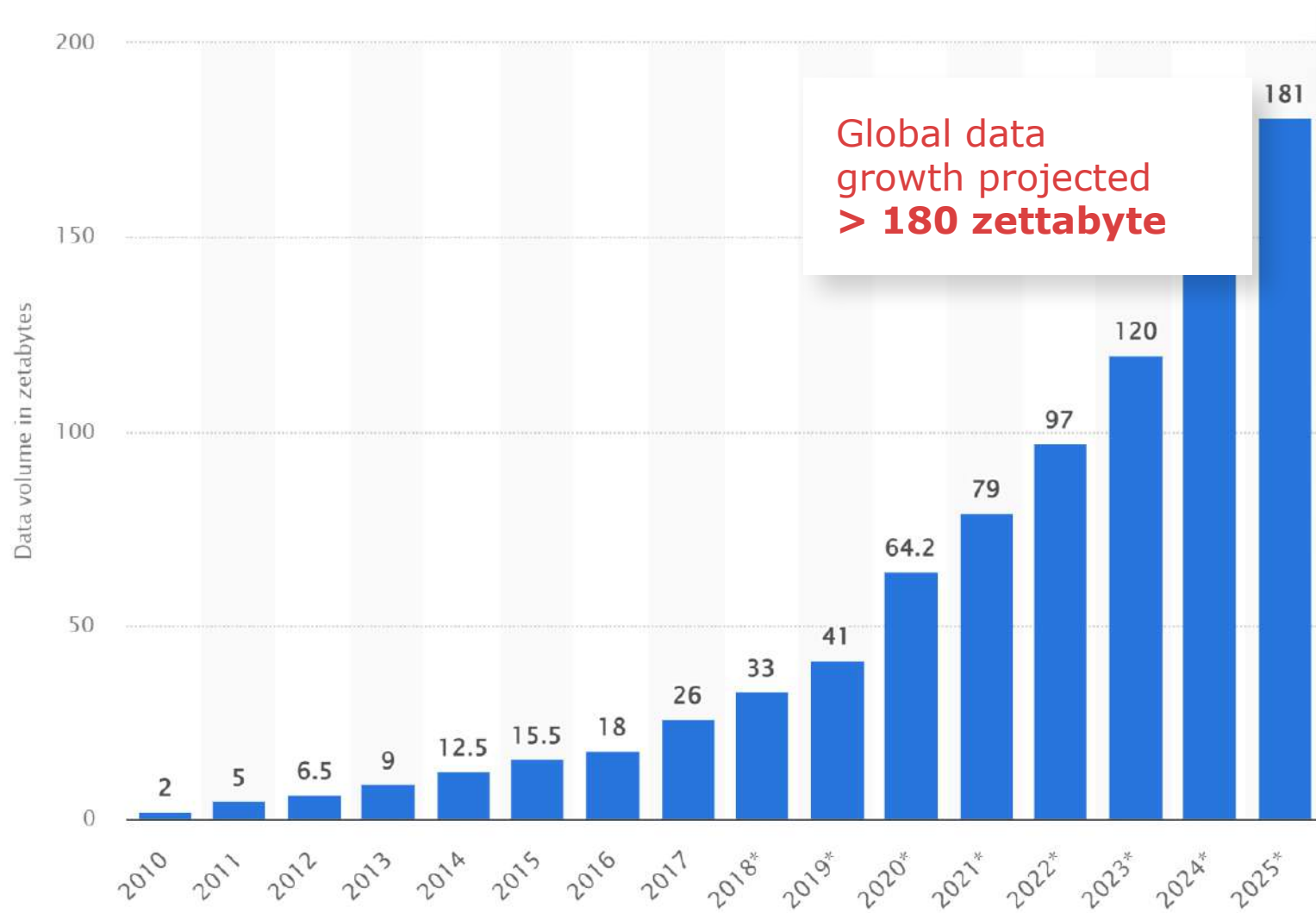
# Thesis

Without a good digital infrastructure  
there is no (modern) society



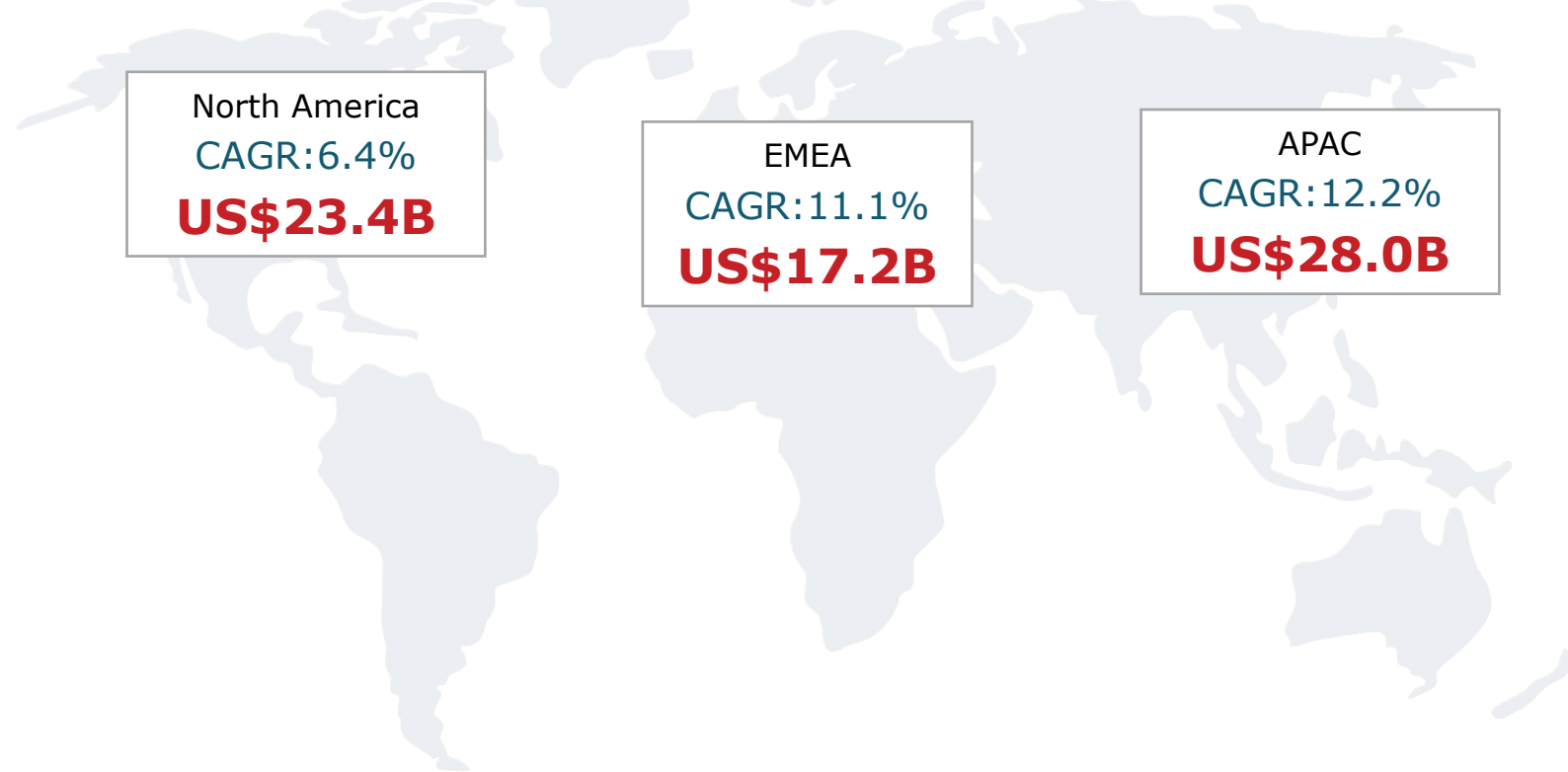
# Exponential Data Growth

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# The Data Centre Market

## Data Centre Growth and Co-location Market Size by Region in 2024



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# Finland Colocation & Hyperscale Facts (1 May 2023)

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**39**  
Facilities  
*Colocation*

**78 MW**  
IT Power  
available  
*Colocation*

**56 MW**  
IT Power under  
construction/  
planned  
*Colocation*

**180 MW**  
IT Power  
available  
*Hyperscale*

**23**  
Operators  
*Colocation*

**62.000**  
**m<sup>2</sup>**  
White Space  
*Colocation*

**530 GWh**  
Residual heat  
potential  
*Colocation*

**1430**  
**GWh**  
Residual heat  
potential  
*Hyperscale*



# DCByte / Datacenter Forum report

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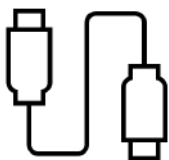
# The engine for innovation and growth

- In the last 2 decades society has digitalized strongly
- Digitalization changes the way we work and live
- Data grows exponentially and demands more innovation
- Generative AI could become a big game changer as well

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The digital infrastructure is:

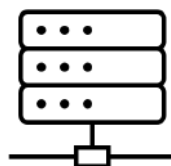
Sea cables &  
Fiber



Telecom



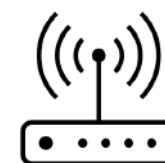
Datacenters



Hosting & cloud  
providers



Internet  
connections



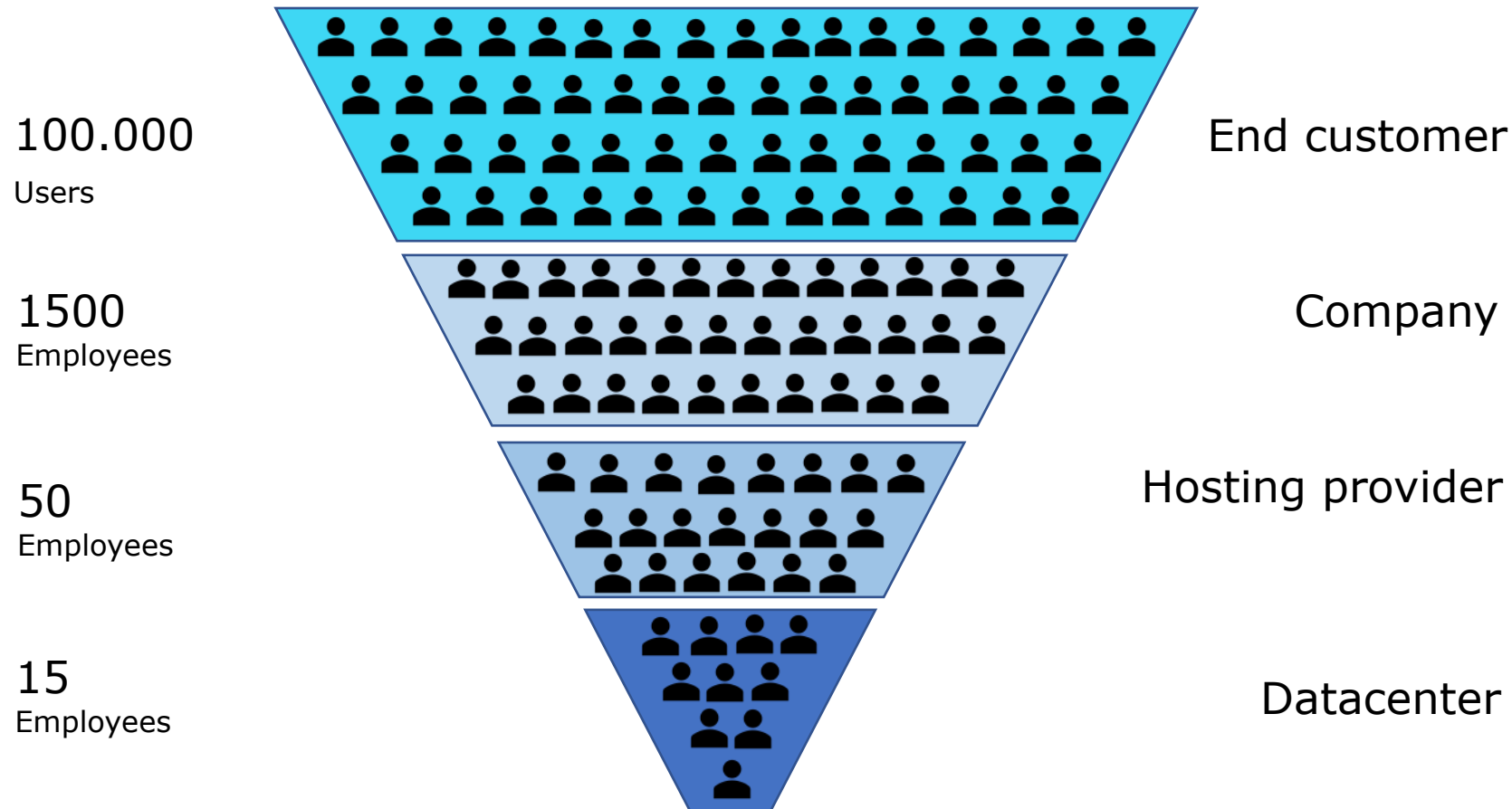
Devices





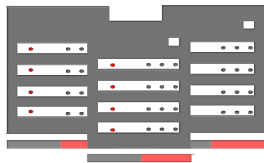
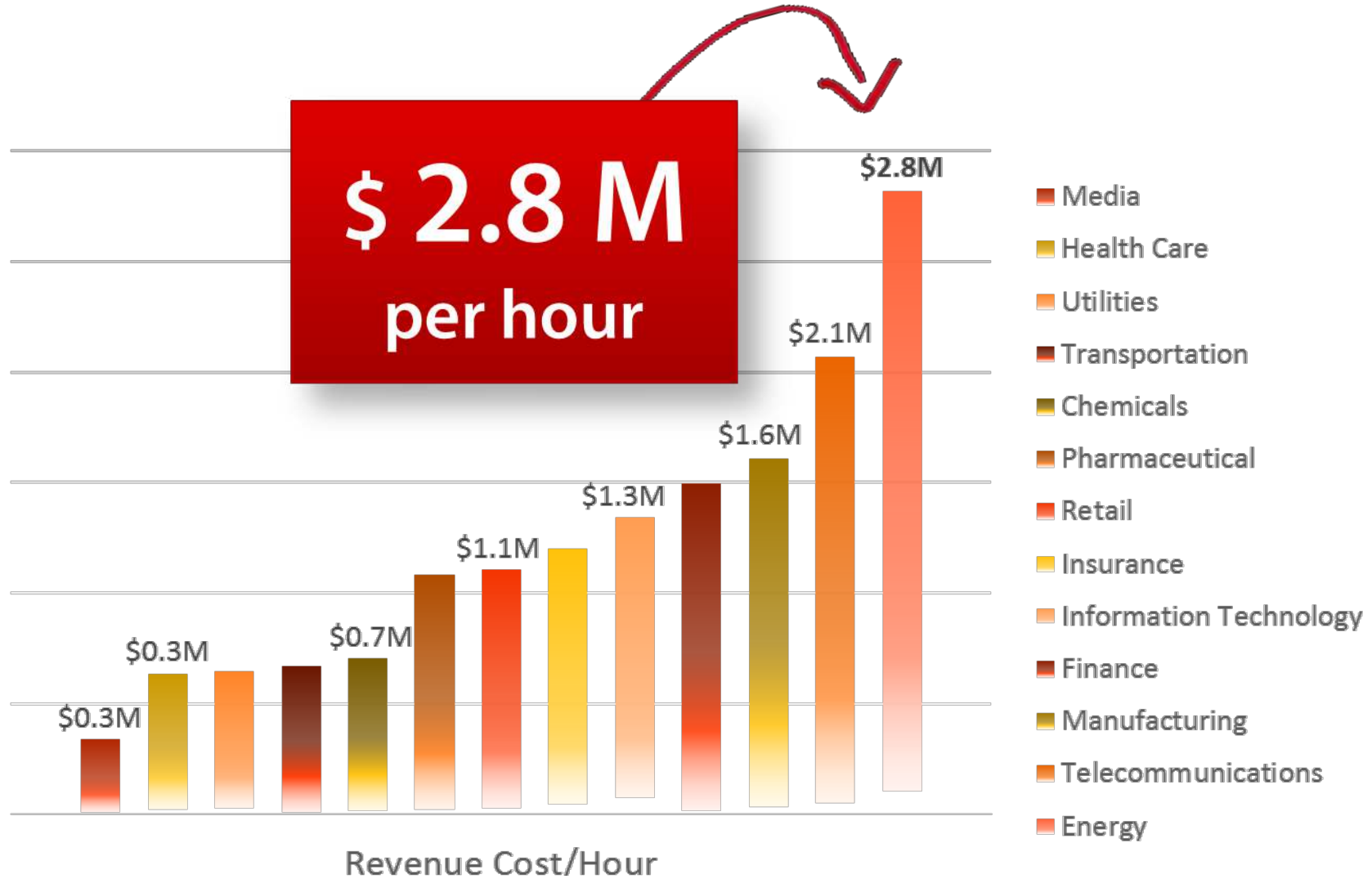
# Digital infrastructure

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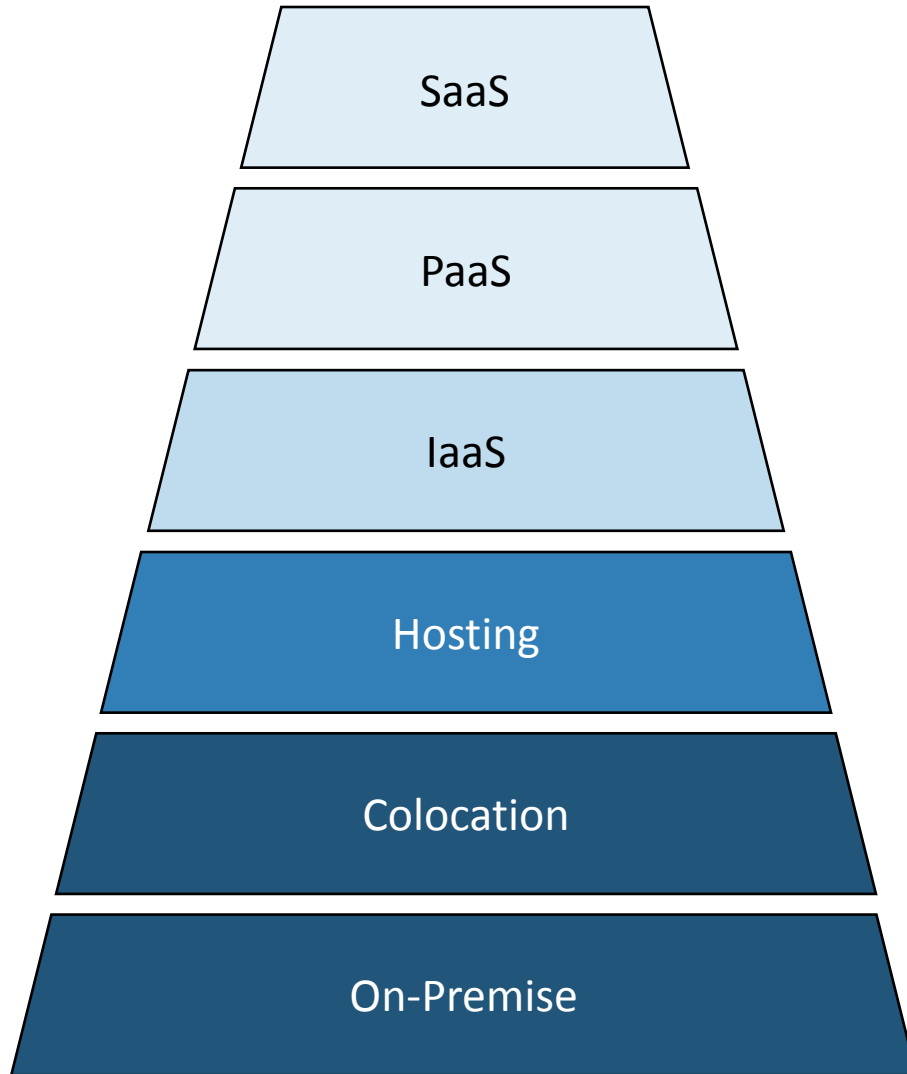
# Downtime: Disruptive & Costly

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# Explanation of some cloud definitions..

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**Software as a service**  
Gmail, Hotmail, Facebook etc

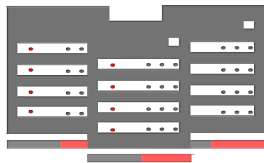
**Platform as a service**  
SAP cloud, RedHat openshift

**Infrastructure as a service**  
Amazon Web Services, Azure

**Hosting / hosting provider**  
Website / application hosting

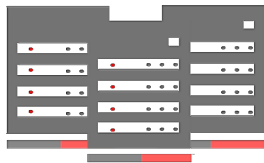
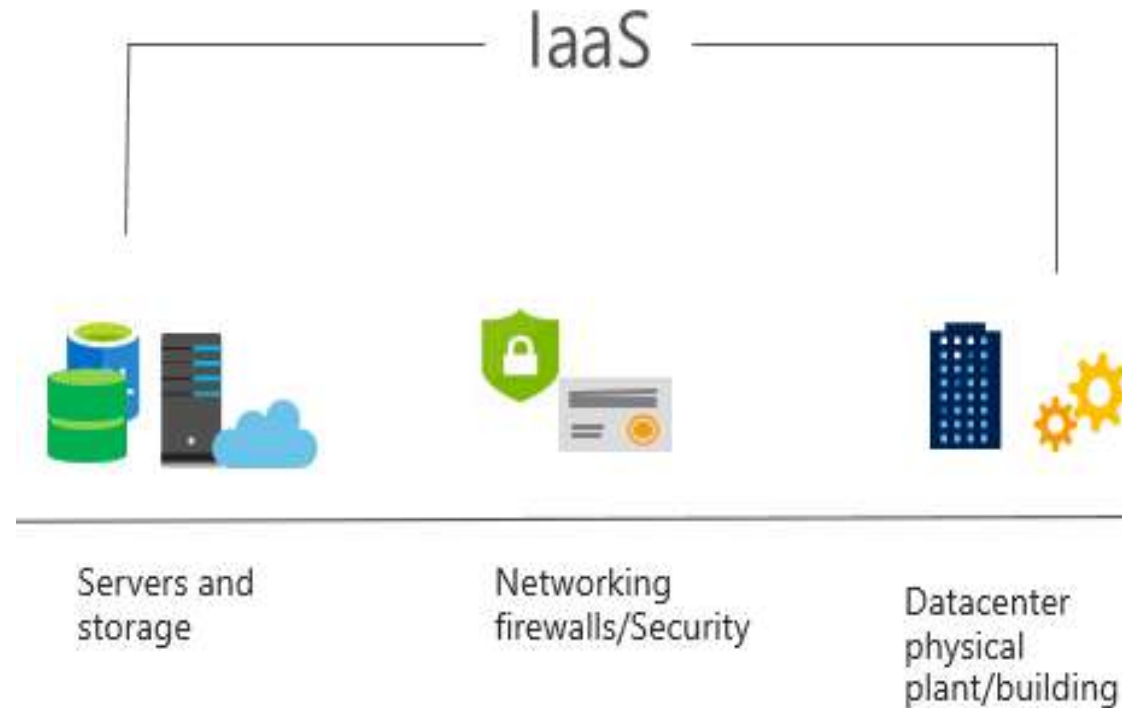
**Colocation**  
Commercial datacenter

**On Premise**  
Enterprise datacenter



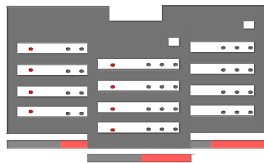
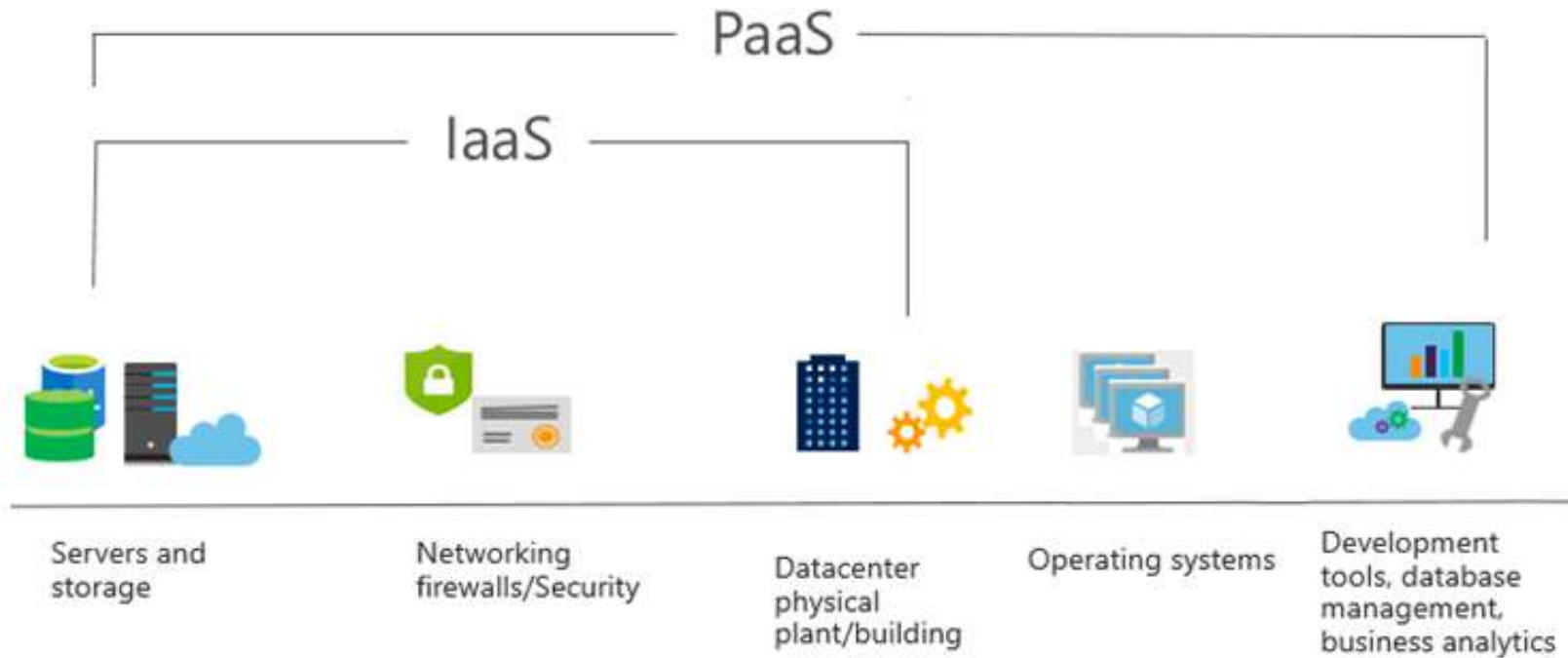
# Infrastructure as a Service (IaaS)

Build pay-as-you-go IT infrastructure by renting servers, virtual machines, storage, networks, and operating systems from a cloud provider.



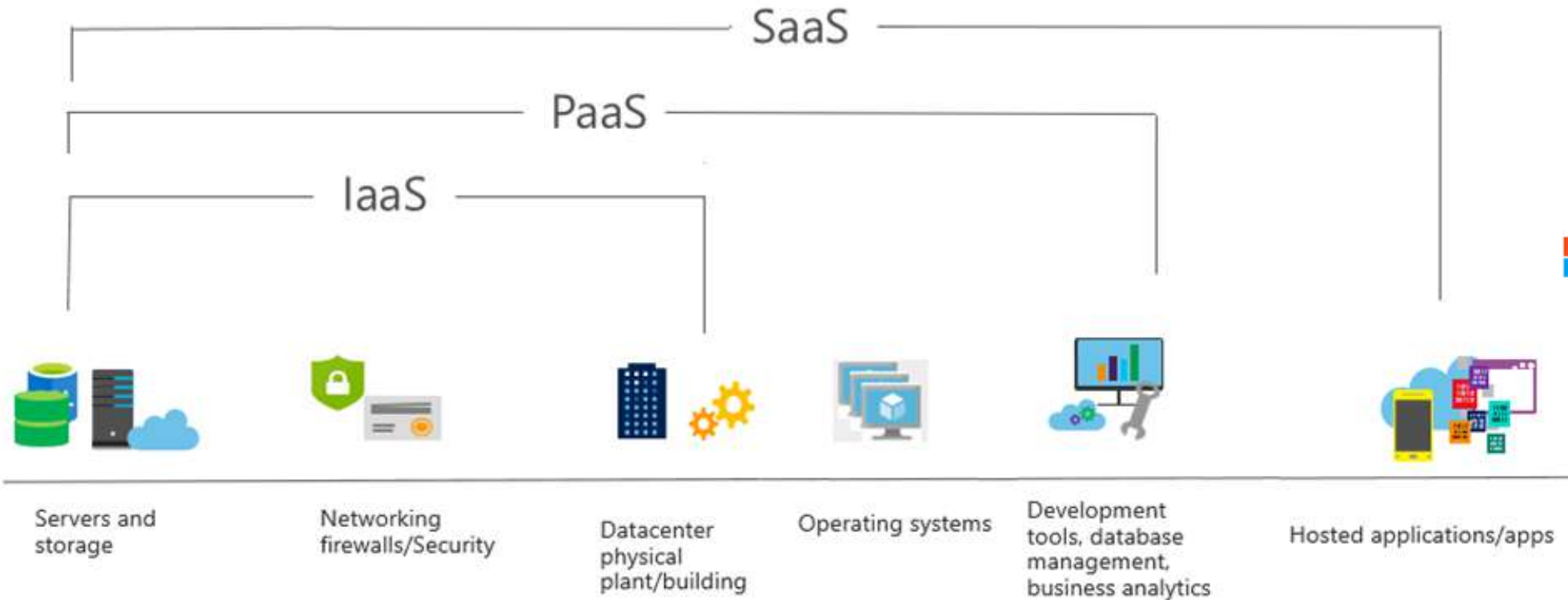
# Platform as a Service (PaaS)

Provides environment for building, testing, and deploying software applications; without focusing on managing underlying infrastructure.



# Software as a Service (SaaS)

Users connect to and use cloud-based apps over the internet: for example, Microsoft Office 365, email, and calendars.



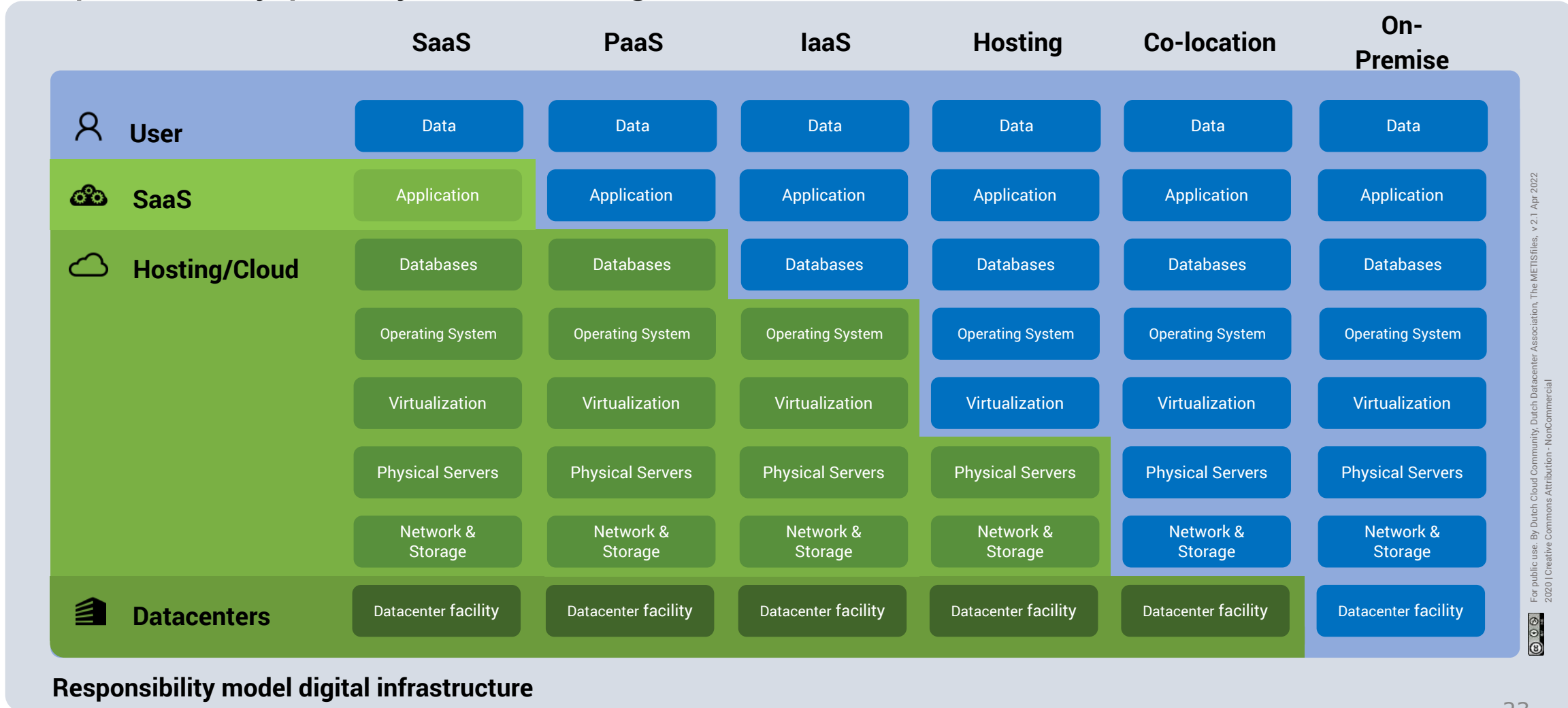
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# Digital responsibility model

## Responsibility per layer of the digital infrastructure

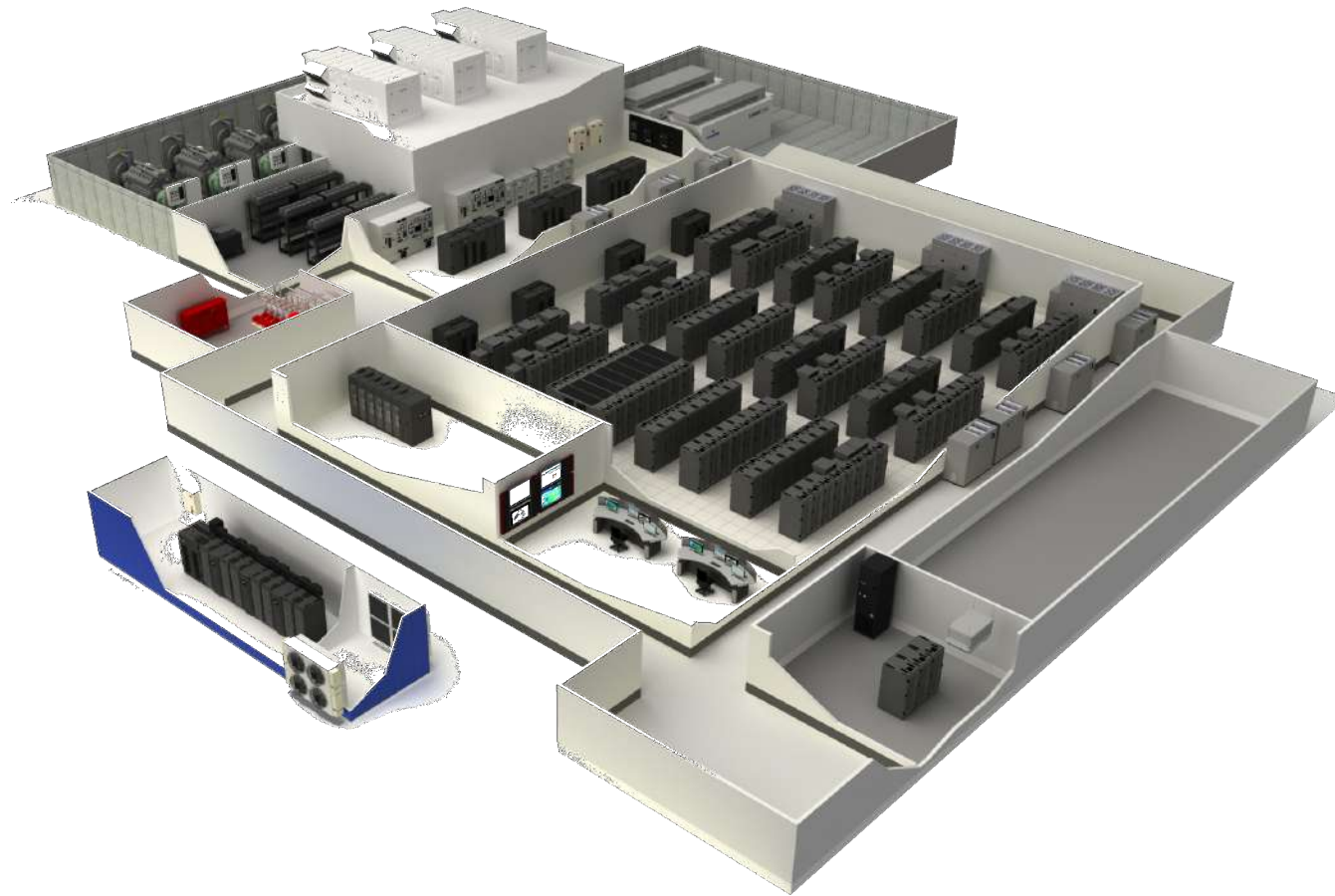
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# Datacenters: Complex Environments

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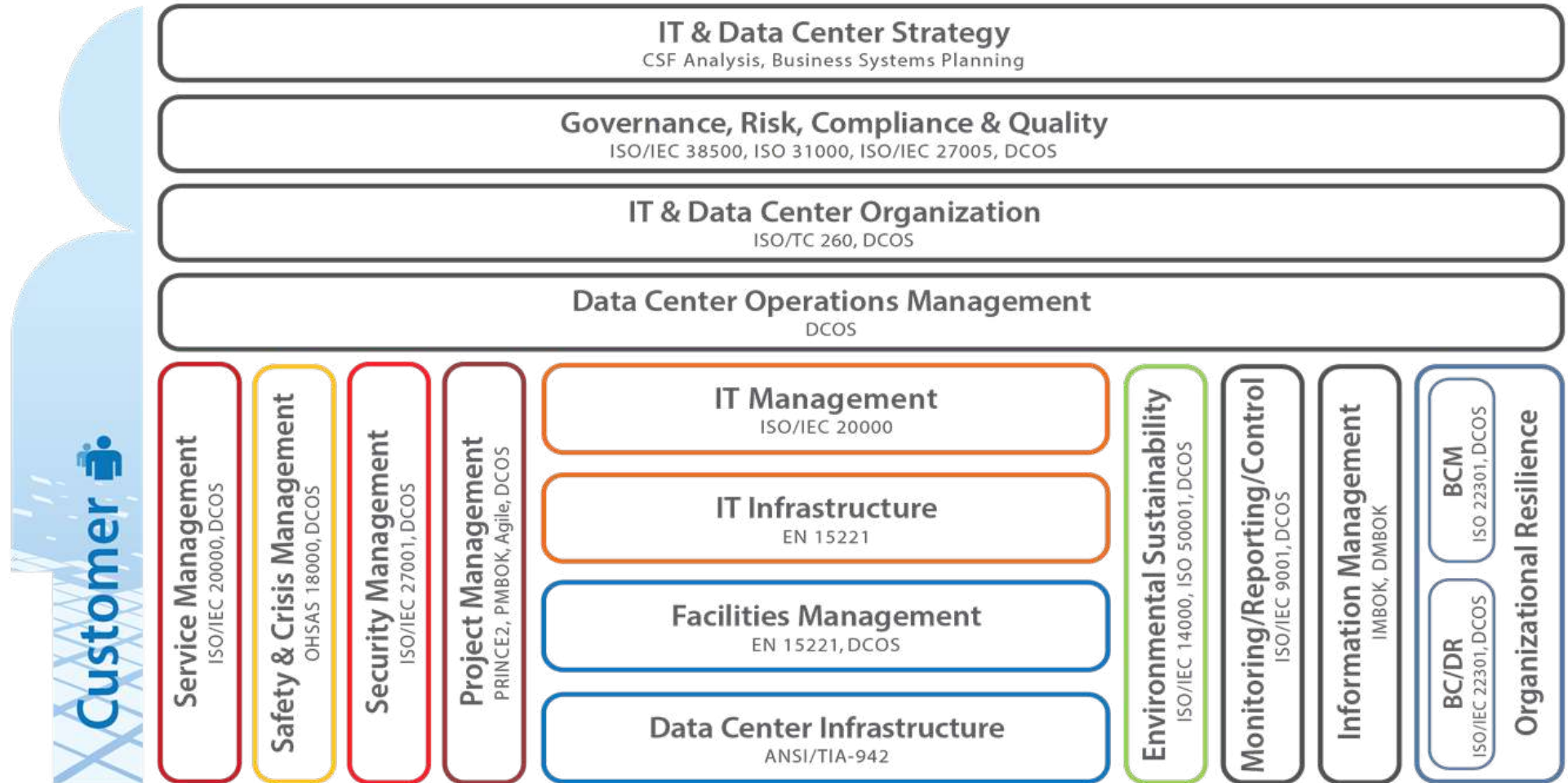
# Datacenters: Complex Environments

EPI – The cloud is not in the sky



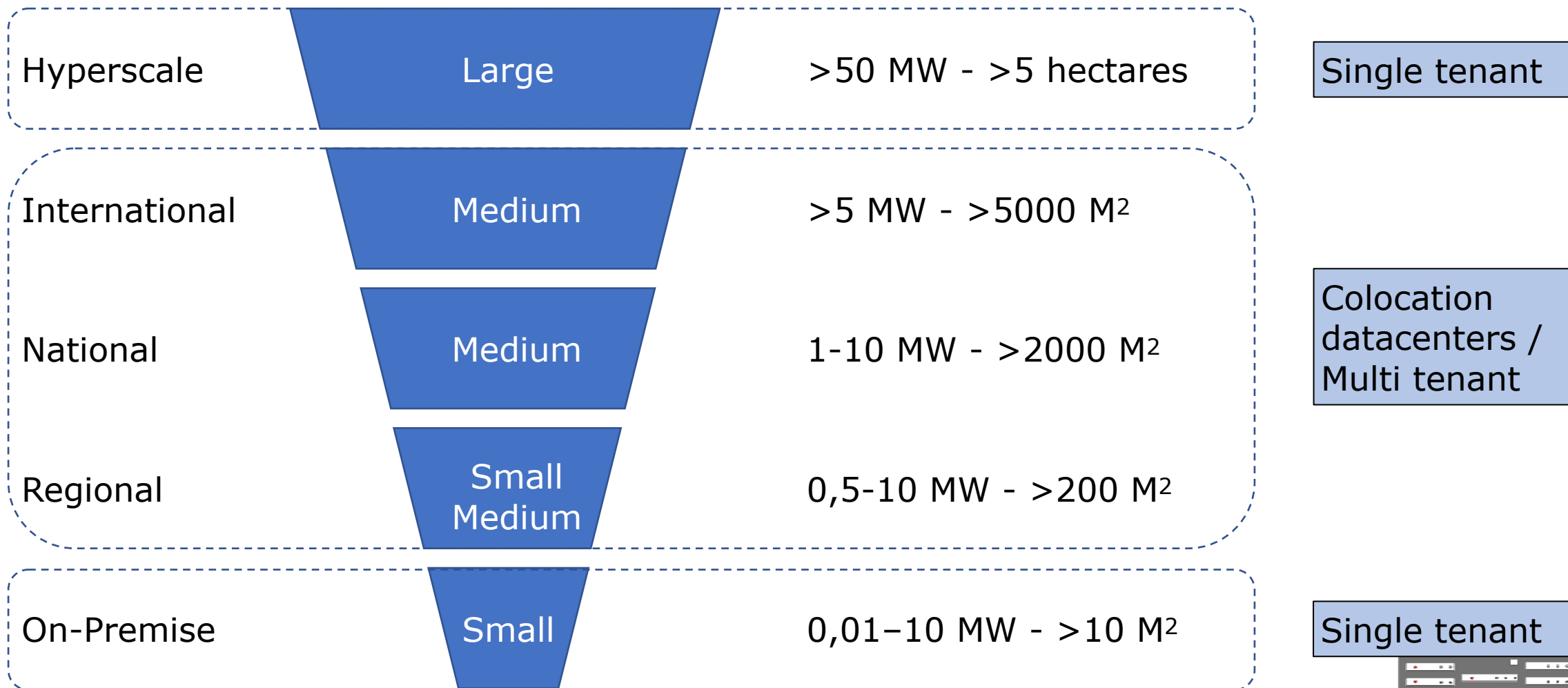


# EPI - IT & Data Center Framework<sup>©</sup>



# Types of datacenters

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# Hyperscale datacenter

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# Colocation datacenter

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# On-Premise datacenter

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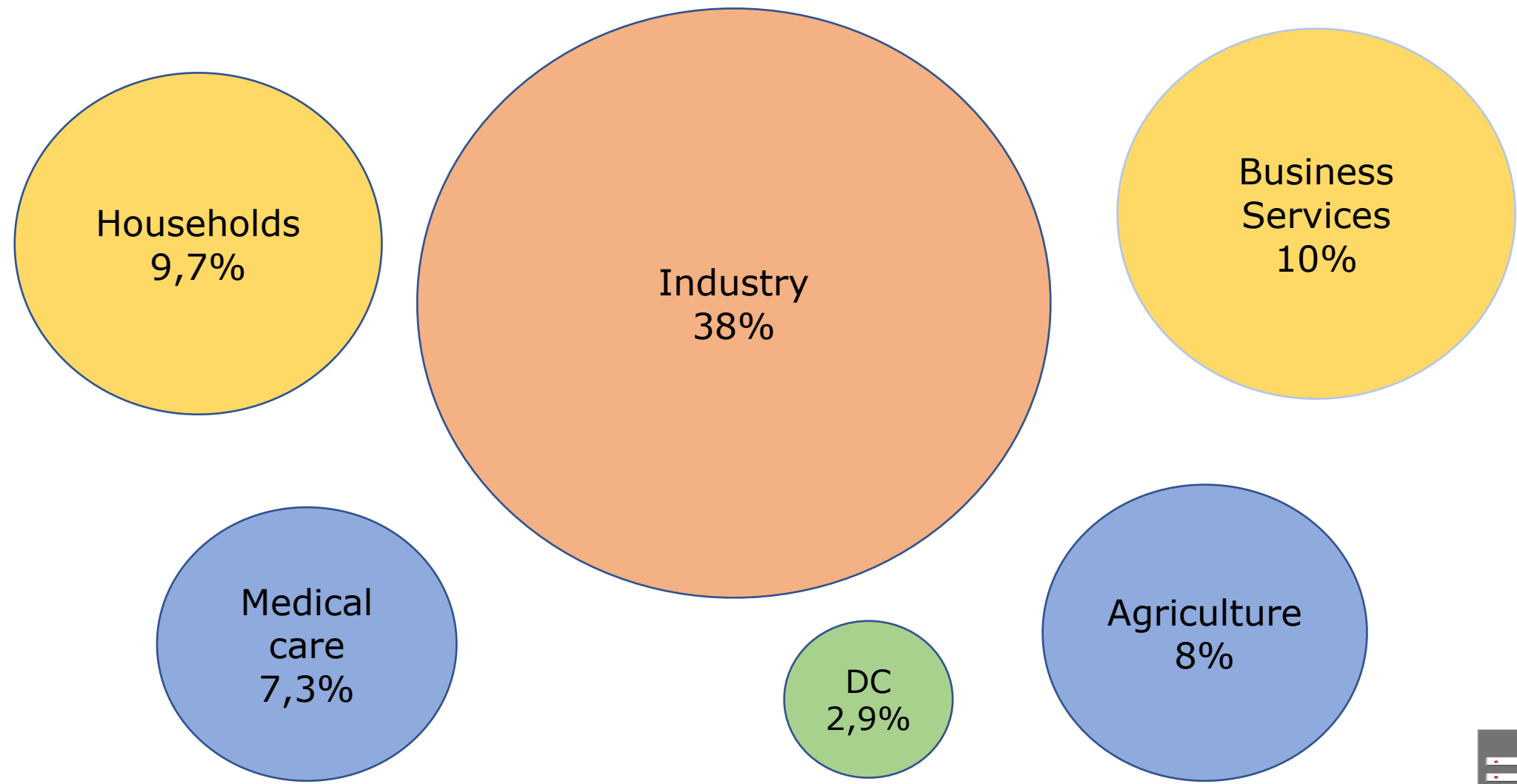
# Trends in datacenters

1. Moving into hyperscale datacenters
2. Smaller on premise datacenters
3. Environmental sustainability
4. Adoption of AI and machine learning
5. Shortage of skilled labour force



# Relative energy consumption

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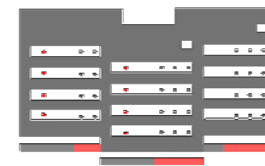






# The Nordics

Why are the Nordics a good and sustainable place for datacenters?



# Nordics increasingly popular for datacenters

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Cool climate



Environmental sustainability



Political and economic stability



Connectivity



Skilled workforce





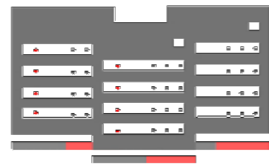
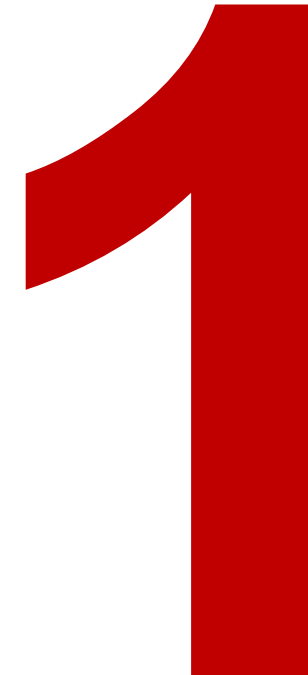
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# Conclusions Closing Q&A



# Datacenters

Datacenters are the only **efficient** and **sustainable** way to facilitate all the computer power that we need for the **digital infrastructure** of society of tomorrow



## Nordics

The Nordics are an attractive region for datacenters because:

1. Cool climate
2. Sustainable energy
3. Political and economical stability
4. Connectivity
5. Skilled workforce



## Nordics: Stay ahead!

- Technological developments are only increasing in speed
- The Nordics are leading the way in the digital field
- It is important for the Nordics to maintain and build on this position in order to provide maximum support to the sustainable digital society

# 3



# Would you like to know about datacenters?

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Hottest selling course

(2-day course)



# What is CDCP?

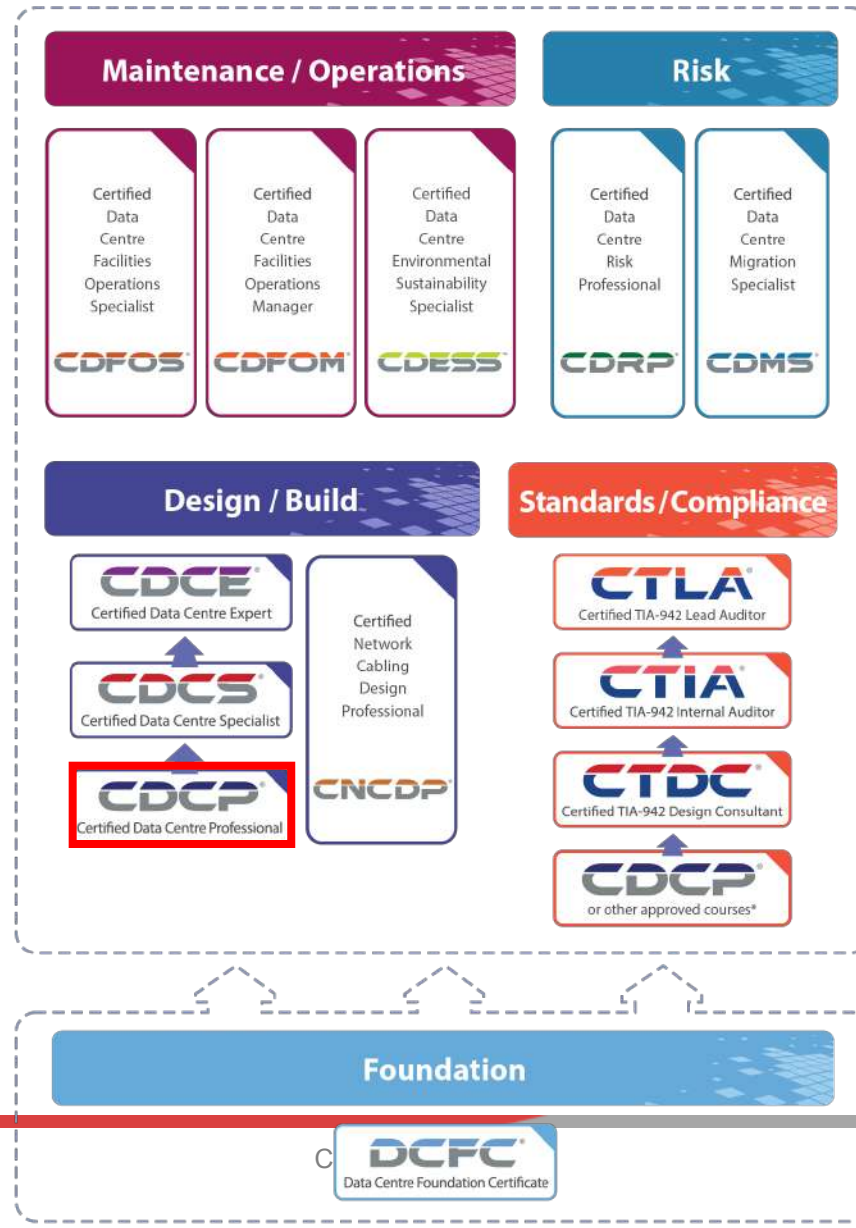
- 2-Day course exposing candidates to all the **fundamental knowledge related to design, build and optimize data centres**
- Course address Standards and all the technical matters
- Explains **design requirements** as well as various **technologies**
- A lot of practical experience from experts in the data centre industry
- Exam; 1 hour, 40 questions, closed book, 27 correct to pass
- **Prerequisite: None**







# EPI Data Centre Training Framework®





**Thank You!**

**Bastiaan Janssen**



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[bastiaan@epi-ap.com](mailto:bastiaan@epi-ap.com)



Questions?

