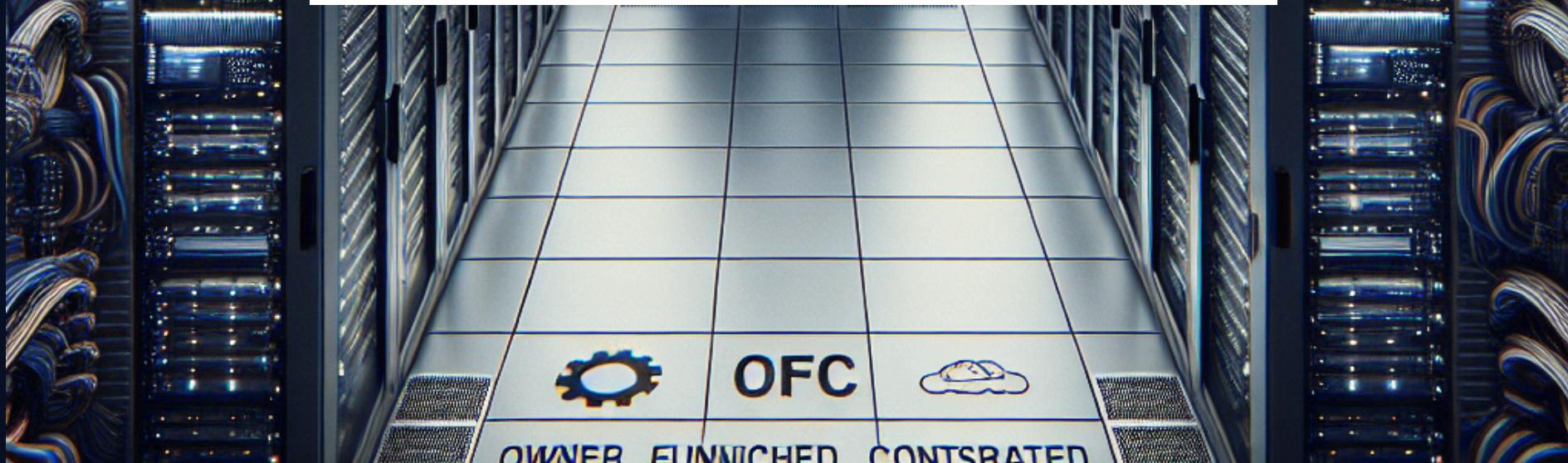




DC EDUCATION

Data Centers



Rob Mulcahy
Project Engineer

DATA CENTER

WHAT IS IT?



Physical facility that stores and processes data



Contains servers, storage systems, and routers



Backbone of the internet



DATA CENTER

WHY IS IT NEEDED?



Can secure or process
large amounts of data



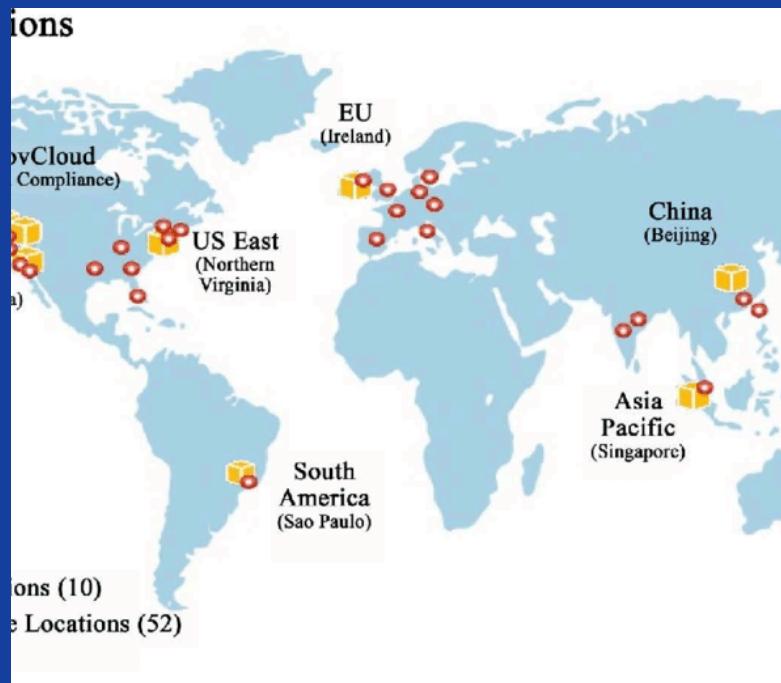
Supports digital world
by providing central
location for global
data management



Websites, cloud
computing, AI are all
hosted within Data
Centers

DATA CENTER

WHERE ARE THEY TYPICALLY LOCATED?



Mainly Europe and USA



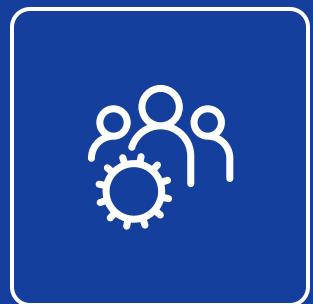
Dispersed throughout the globe to be closer to users accessing data/content

DATA CENTER

WHO OWNS?



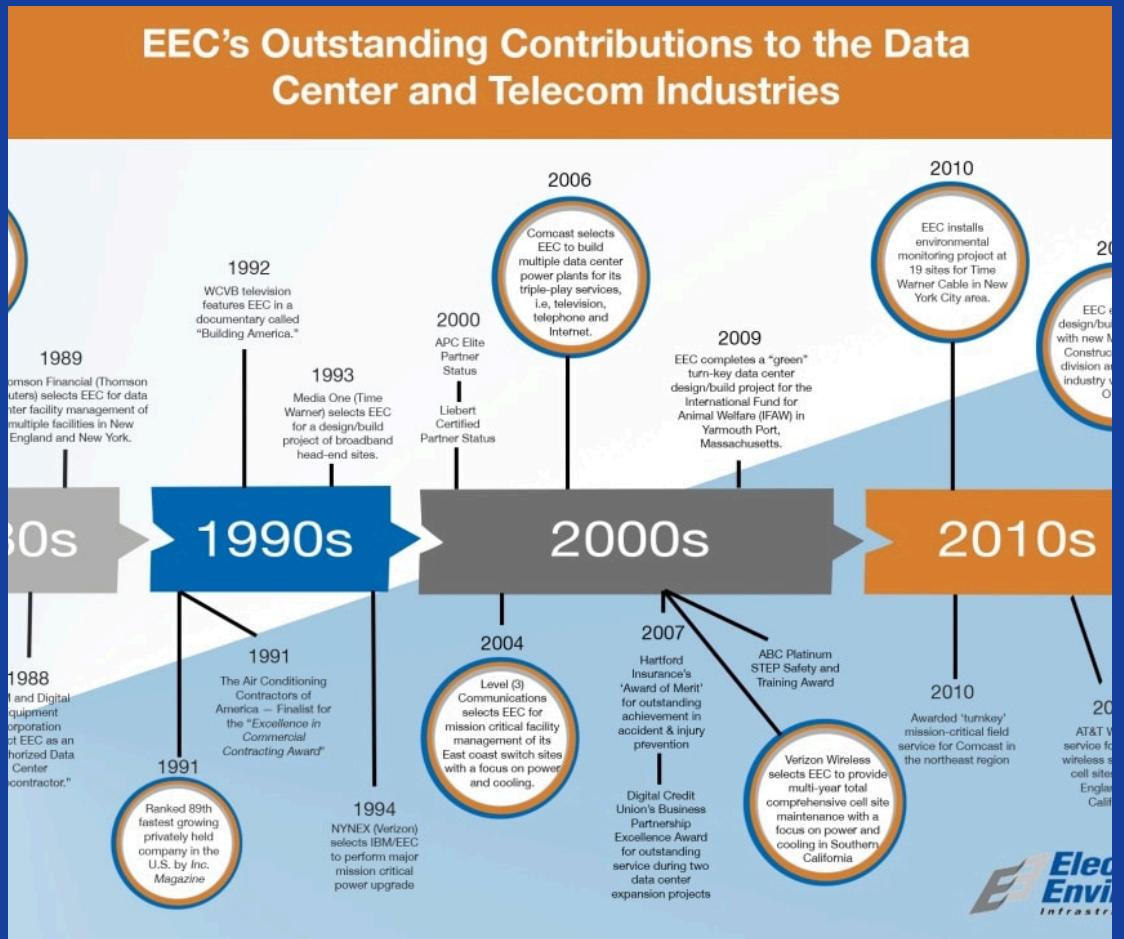
Big 5 tech companies own their own data centers



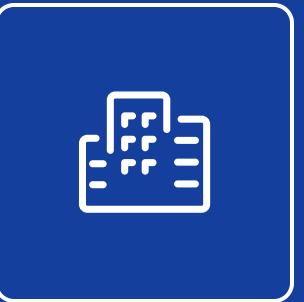
Smaller companies can co-locate with speciality providers
(Equinix/DigitalRealty)

DATA CENTER

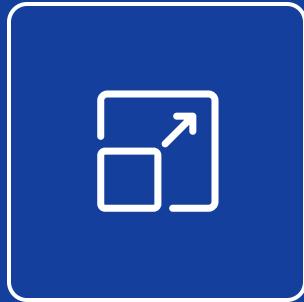
WHEN ARE THEY CONSTRUCTED?



Since the 90's



Now over 5000 DCs



500+ "hyperscale" DCs
(>30MW)