



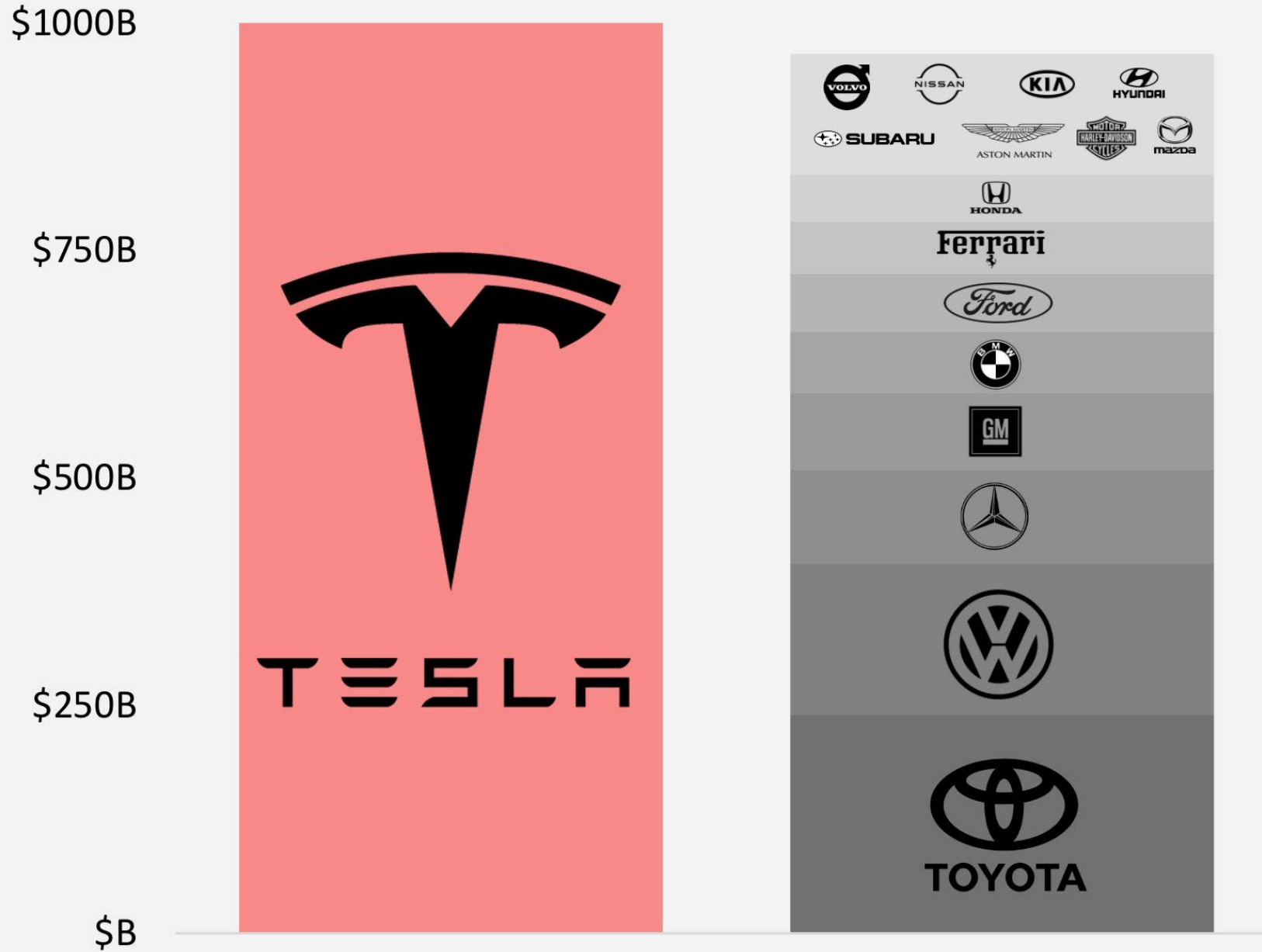
Heimdall Power

Cybersikkerhet: Festbrems eller enabler?

Magnus Helgeby

Product Manager – Heimdall Power

Automotive Companies Market Value





Industri-ledende teknologi

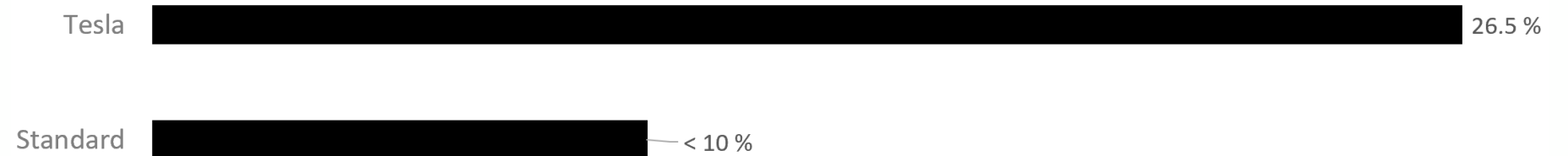
Selvkjøring



Produksjon

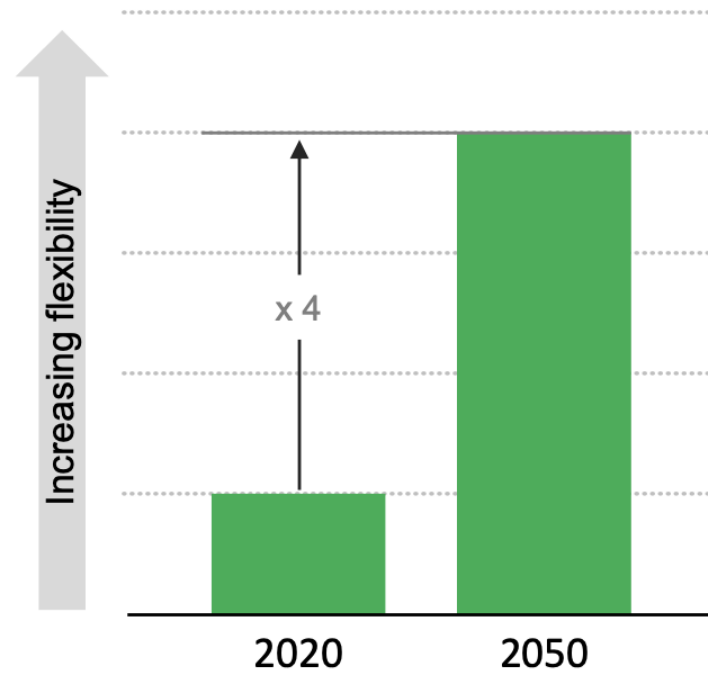


Marginer





Electricity system flexibility needs





Problemer

Effekttopper

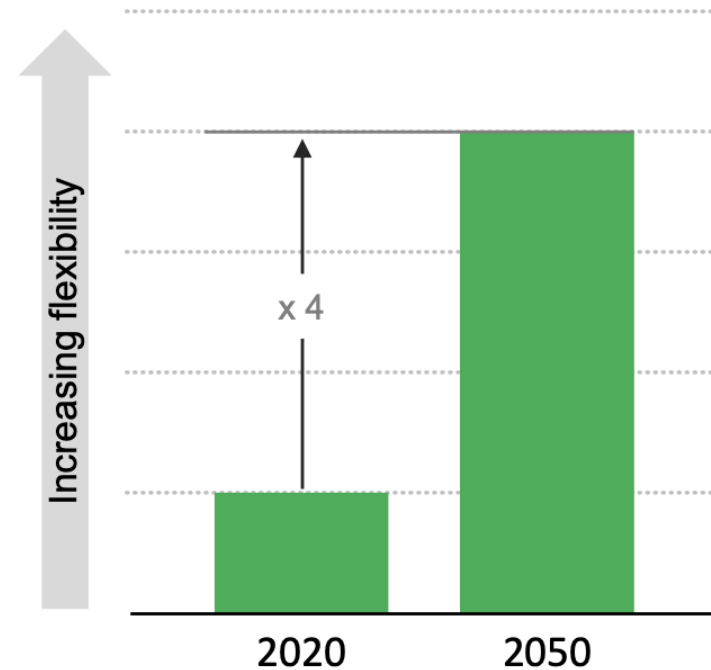
Sol & vind

DER

Elektrifisering



Electricity system flexibility needs



Løsninger

Energilagring

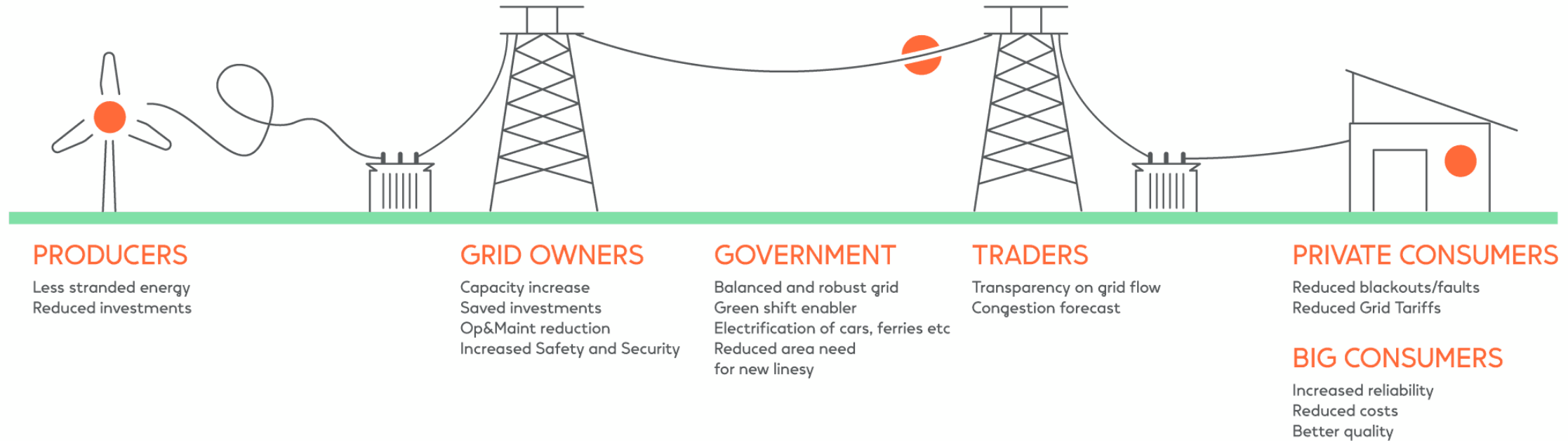
Vehicle-to-grid

Dynamisk kapasitet

Forbrukerfleksibilitet

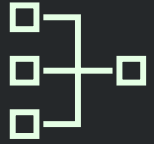


Nye innsikter fra nettet vil endre **alt**





Endret trusselbilde



Økt kompleksitet



Nye angrepsflater



Sofistikerte aktører

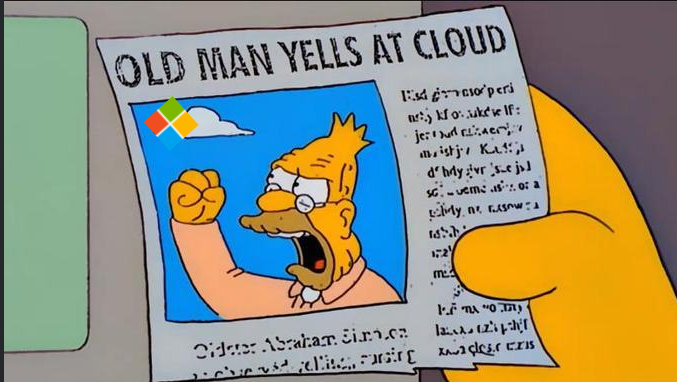


Mangel på kompetanse



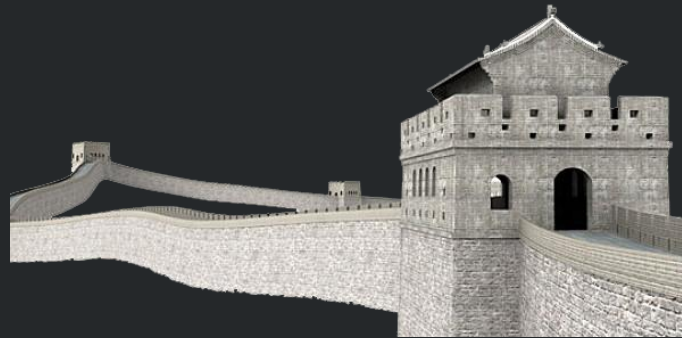
Tre strategier for cybersecurity

Etternøler



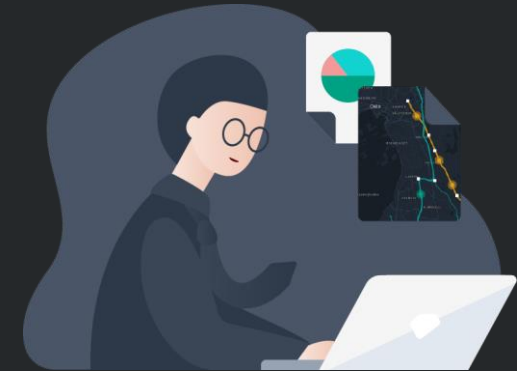
- Kan/vil ikke fornye seg
- Dagens løsning er vanntett
- Skeptisk til nye løsninger

Den kinesiske mur



- Strengt regime
- Ingenting ut, ingenting inn
- OT er hellig

Innovatøren

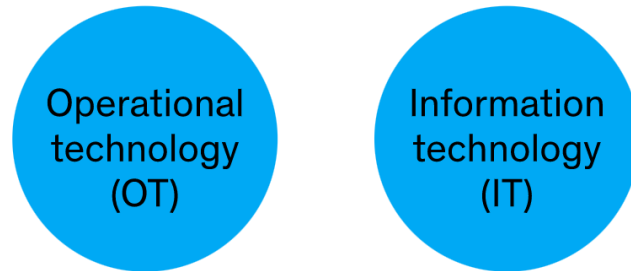


- Kontroll er en illusjon
- Teknologi = sikkerhet
- OT = IT

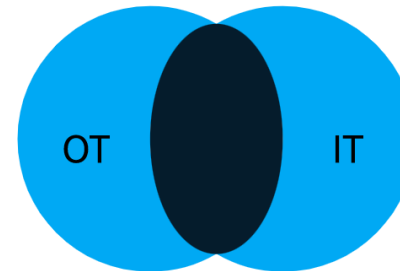


As data analytics drives convergence of OT and IT, organizations will need to rethink technology, policies, and operating model.

Pre-2010: Operational separated



Today: IT and OT merging



Future: Potential convergence



**McKinsey
& Company**

[1] 03-11-2020, McKinsey, The energy-sector threat: How to address cybersecurity vulnerabilities



Historically ‘air-gapped’ operational-technology (OT) systems are now online, but myths persist about how these systems are operated and secured.



Myth: Air-gapping is the only way to assure security of OT systems



Myth: A firewall will protect my OT network from attacks originating from the connected IT network



Myth: No external connections exist besides the connection to the corporate network



Myth: Employees operate OT equipment to manage production day-to-day



Myth: OEM vendors (SCADA¹ providers) adequately secure their equipment

McKinsey
& Company

[1] 03-11-2020, McKinsey, The energy-sector threat: How to address cybersecurity vulnerabilities

Enige om en ny & sikker fremtid?



- | | | |
|---------------------------------|--------|-------------------------------------|
| 1. Lær fra sensitive industrier | —————> | Helse, finans, olje & gass |
| 2. Teknologi som sikkerhet | —————> | Security as a Service |
| 3. Standardiser prosess & krav | —————> | Governance: IT, OT & nye datakilder |





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The Power of Knowing

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Who will sell power in the future?

