

Session 2 Summary

- **What do we know?**

- **Michael Welzl** – energy usage and misinformation; many misleading articles; benefit in developing a communication strategy for realistic data
- **Daniel Schien** – estimating energy usage and carbon footprint; lack of energy proportionality; carbon intensity; upgrade cycle; peak shaving
- **Jens Malmodin** – measurements; data use is growing rapidly, but data centre power consumption close to flat; network energy usage growing only slowly

- **Discussion**

- Concern that while flat-to-slow growth is better than expected, current emissions still too high
- Why is consumption flat? What engineering efforts cause this? How to beat the curve?
- What don't we know – breakdown of usage by application, parts of the network, etc.