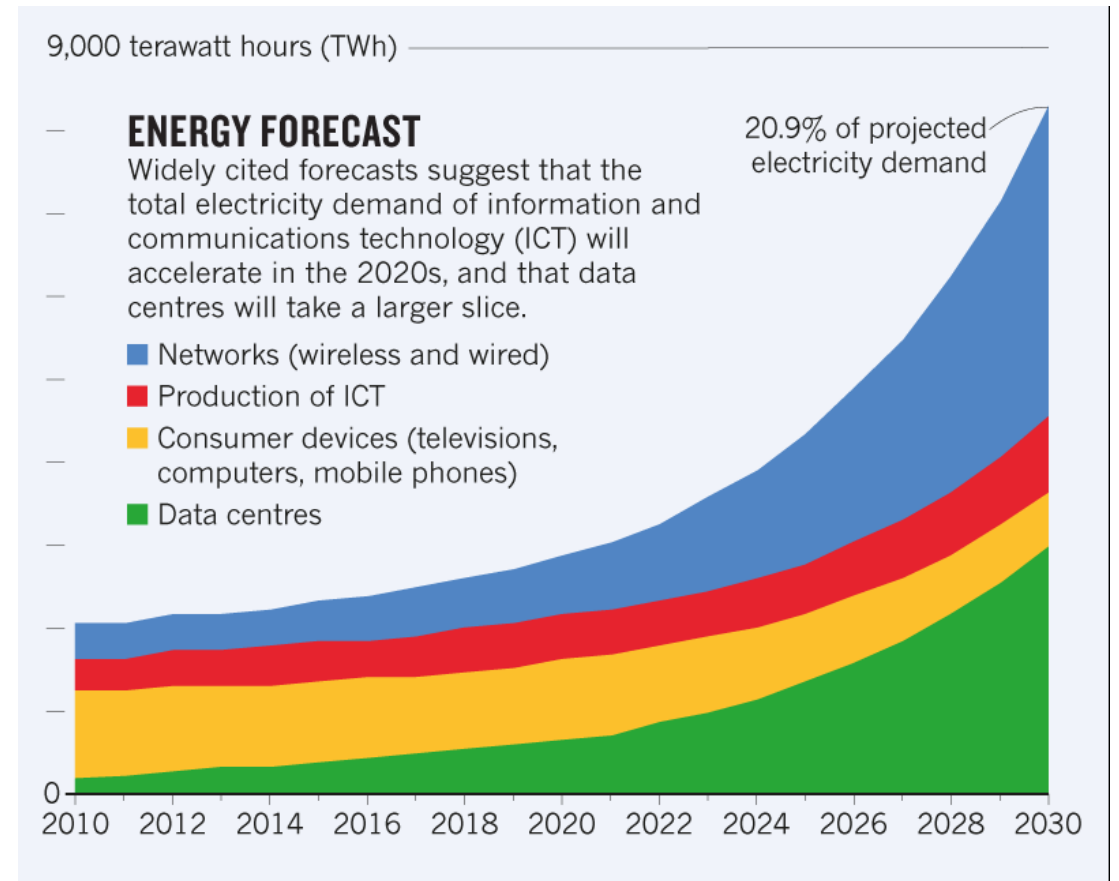
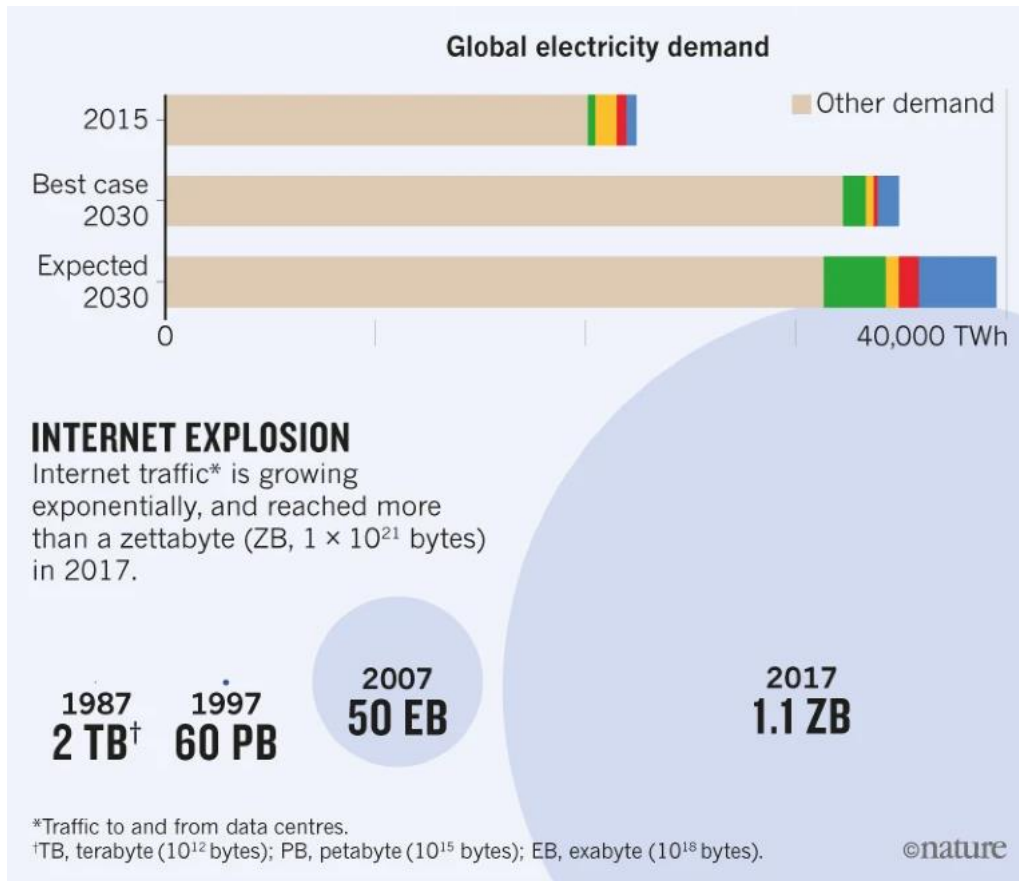


# **30 years of Sic excellence – next 30 years**

**Björn Samel**

**VP RISE Smart Hardware**

# Share of ICT in global energy consumption



<https://www.nature.com/articles/d41586-018-06610-y>



# Global Challenges

Climate change forces us to think differently!

**Efficient conversion of electric energy** is necessary to meet the growing need for electrification

Power electronics and SiC is **a key technology** for a sustainable, fossil free society

# 'There's no digital without chips': New European Chips Act announced



President of the European Commission, Ursula von der Leyen, addressed The Davos Agenda today. Image: World Economic Forum/Pascal Bitz

... and

**There is no solution to climate change without new chips!**

# Where do we want to go?

- Sweden has a **large potential in the field of power electronics**
- There are **opportunities to grow**
- Challenges:
  - **Skilled & experienced employees**
  - **Complicated value chain**
- A number of **areas/activities** have been identified as suggested **next steps**:
  - Competence development
  - Research on new materials/technologies
  - Test and verification infrastructure
  - Pilot production capacity – “from lab to fab”
  - Industrial networks and events
  - Continuous mapping of needs

Can we connect the dots and build something together as a step forward in the area of Power electronics?

What is needed?

ECIC – European Chips Infrastructure Consortium mechanism?

