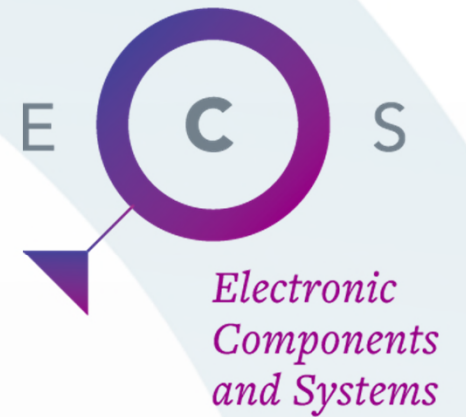


Research Needs

Rémi Cornubert - ADVANCY



Green ECS:

LCA and decarbonisation in the ECS value chain

Context:

- Focus of NGOs, governments & investors is moving to the carbon footprint of the Digital Edge
- NGOs are now highlighting the impact of emails, data servers, smartphones, IOT, 5G, Crypto...(50%+ CO2 from Digital linked to network infrastructure)
- Pressure will increase for transparency/comparison & require full LCAs (not only on CO2)
- Only a few semi players are doing it today and for certain product families....need to speed up!

Specific Objectives:

- Systematize Full LCA across the value chain and applications with a focus on all components

Main Research Needs:

- Need for a specific LCA methodology for ECS consistent with ISO 14040 & 14044
- Build an indisputable shared database of carbon footprint for raw materials (& primary energy), chemicals, production, machine manuf., T&L, Use & Recycling...especially on product use
- Create a European homologation body that certifies LCA reports