

# ICT is part of climate change! Can we reduce its impact and apply good practices and tools to other society domains ?

Francoise Berthoud, Laurent Lefèvre, Cédric Gossart

## ► To cite this version:

Francoise Berthoud, Laurent Lefèvre, Cédric Gossart. ICT is part of climate change! Can we reduce its impact and apply good practices and tools to other society domains?. "Our Common Future Under Climate Change" International Conference, Jul 2015, Paris, France. 2015. hal-01250030

**HAL Id: hal-01250030**

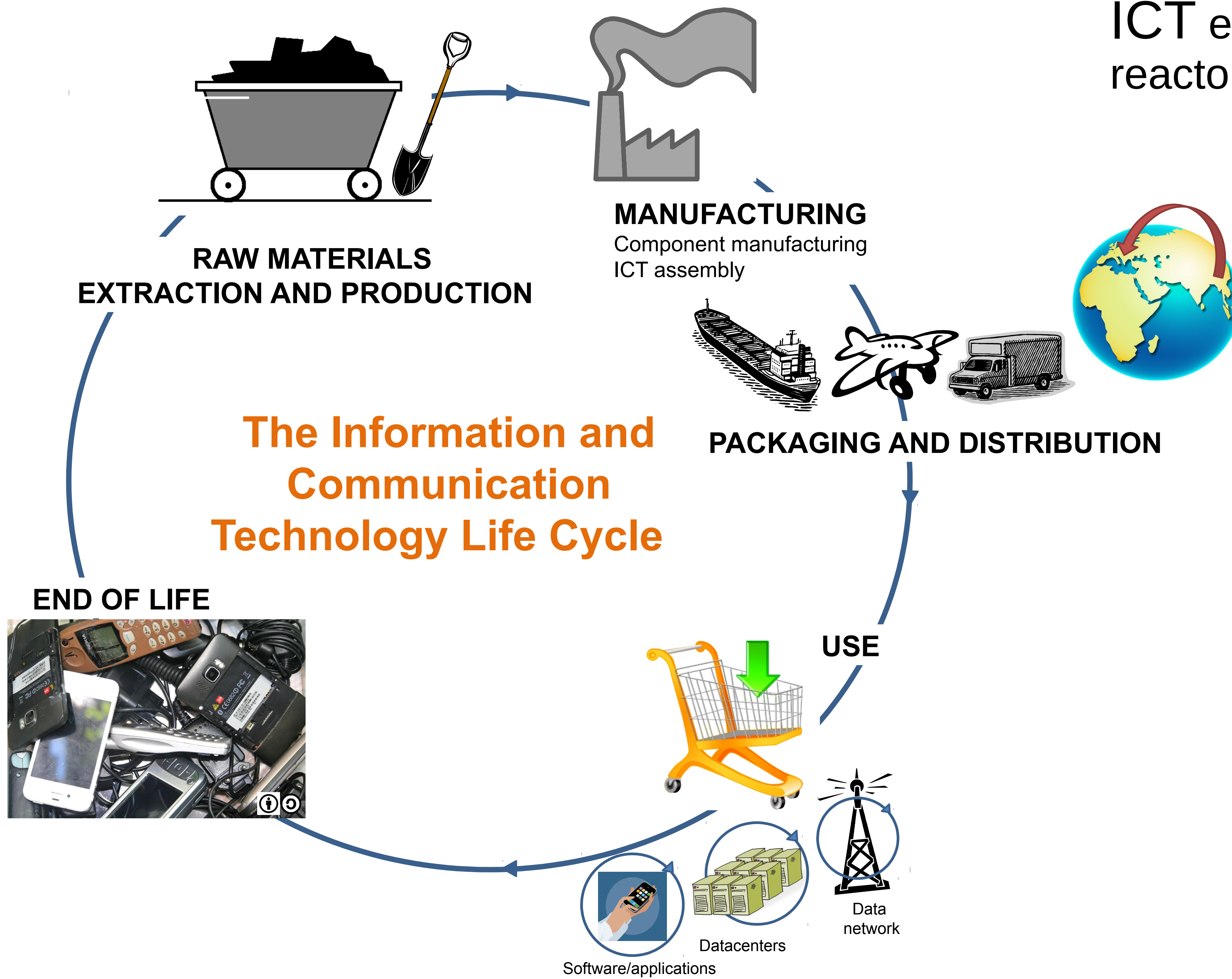
**<https://hal.inria.fr/hal-01250030>**

Submitted on 4 Jan 2016

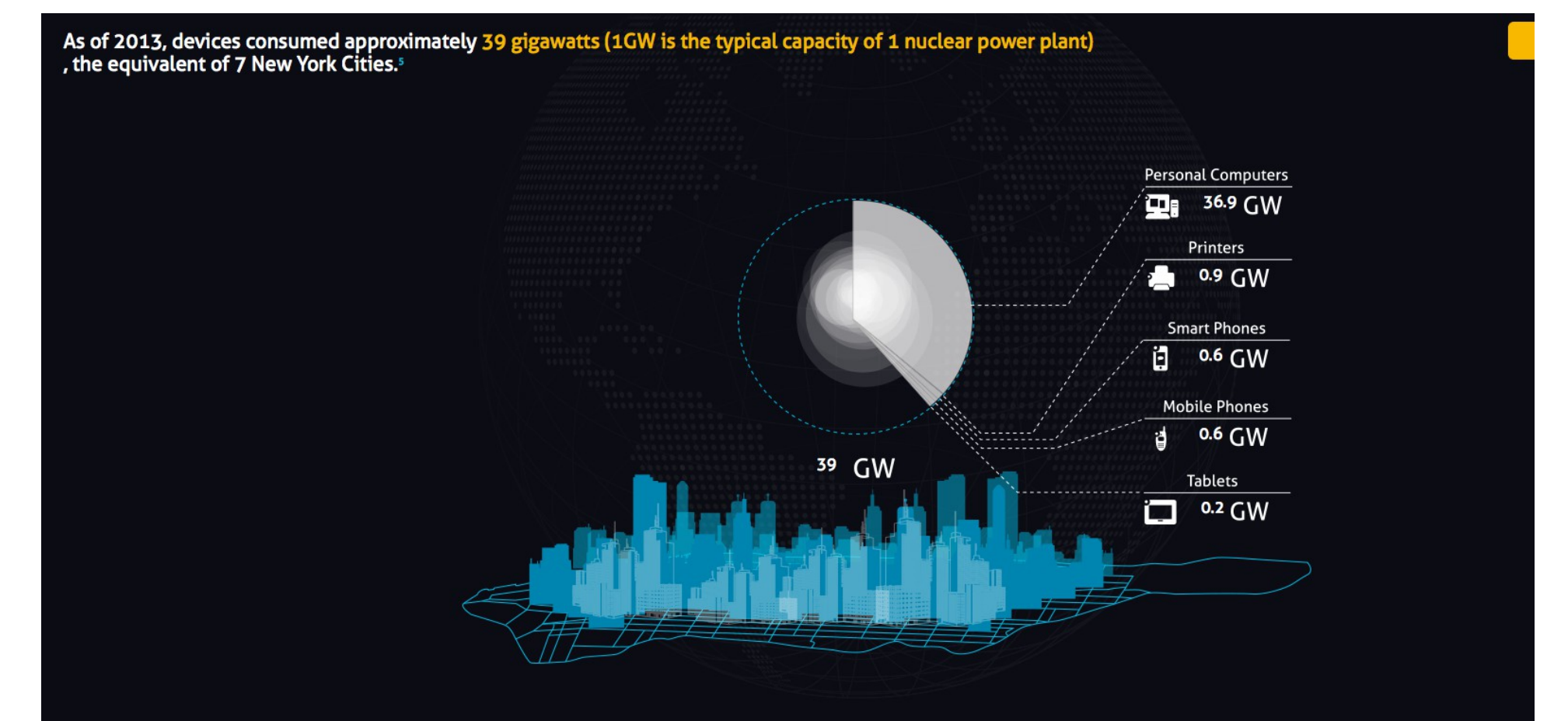
**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

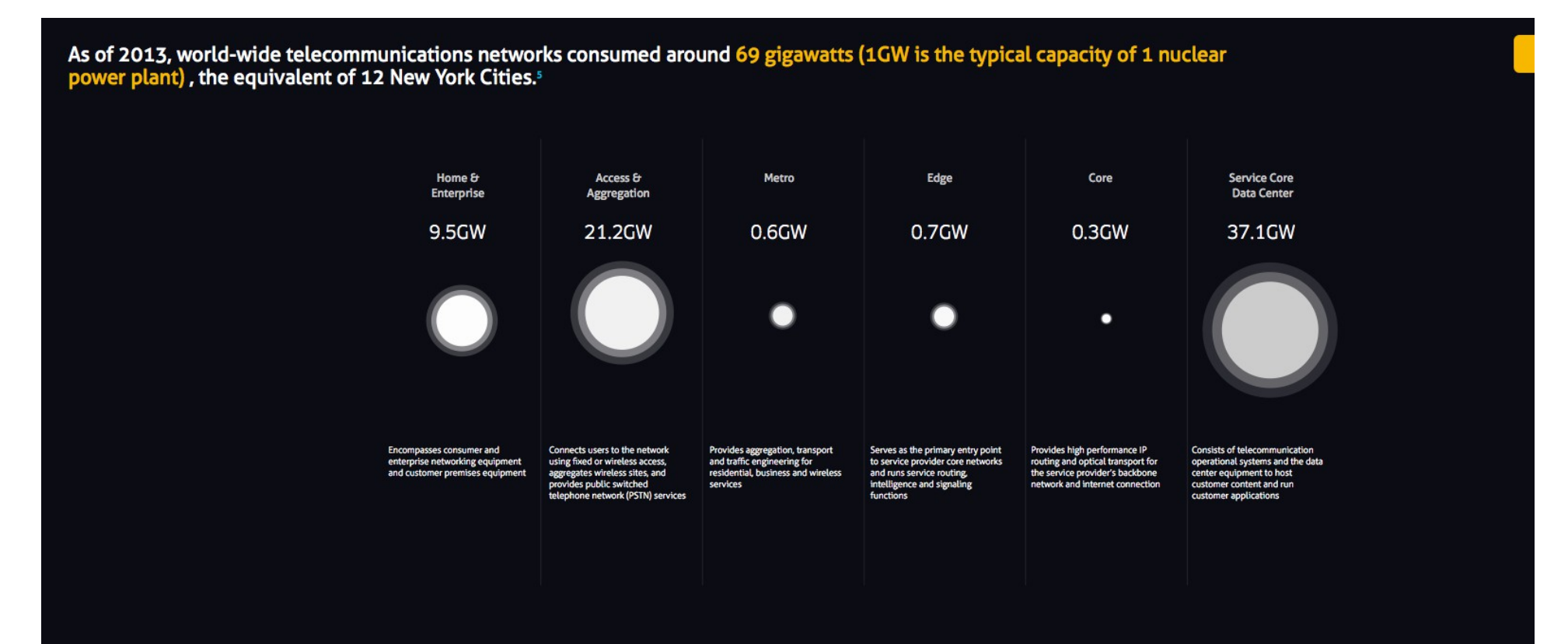
# ICT is part of climate change !



ICT electrical consumption > 100 nuclear reactors – 10 % of world electricity production

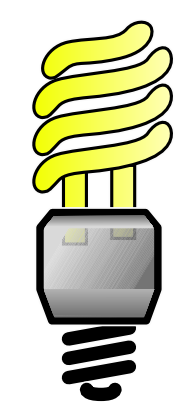


Source : Gwatt.net



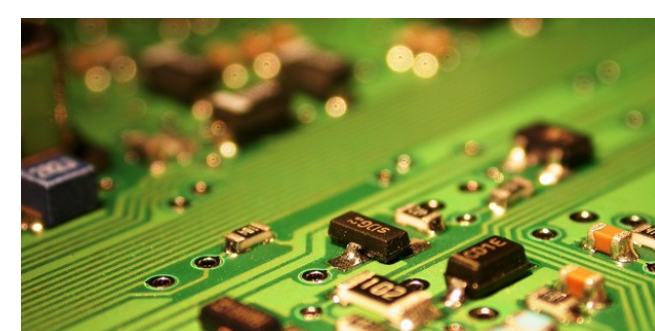
Source : Gwatt.net

## Can we reduce its impact and apply good practices and tools to other society domains ?

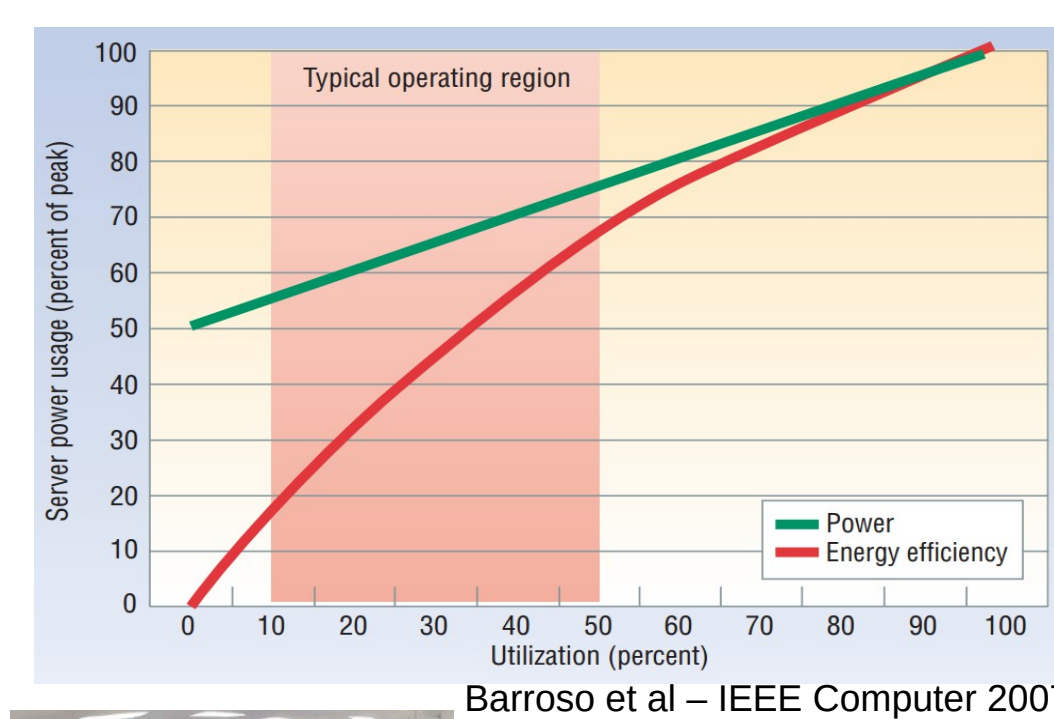


**Open challenges**

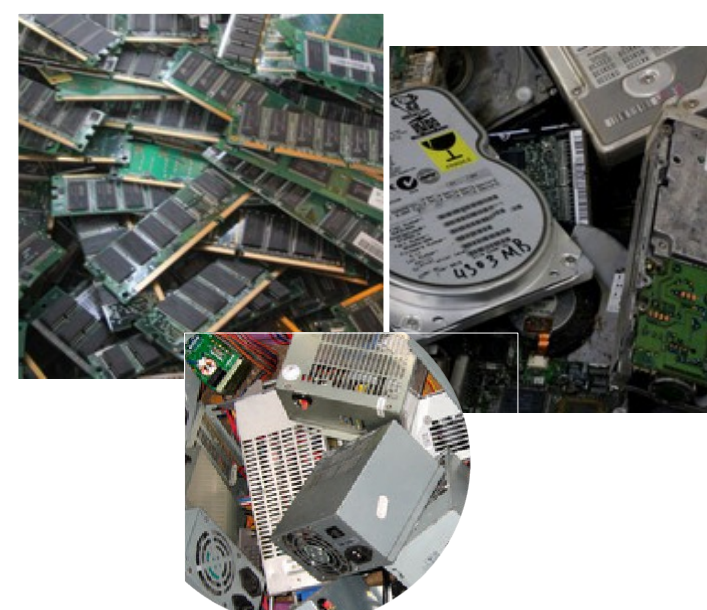
**Eco Design**



**Energy Proportionality, Energy Efficiency, Power Savings, Green Codes**



**Reusing - Recycling**



**Not always !**



**Good practices**

- Modularity
- On/Off
- Repair

**Electrical (Smart) Grid, Transport Optimization, E-Gov, e-Health, Smart City**



**Rebound Effect  
Planned Obsolescence**

