

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

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ICT is part of climate change !

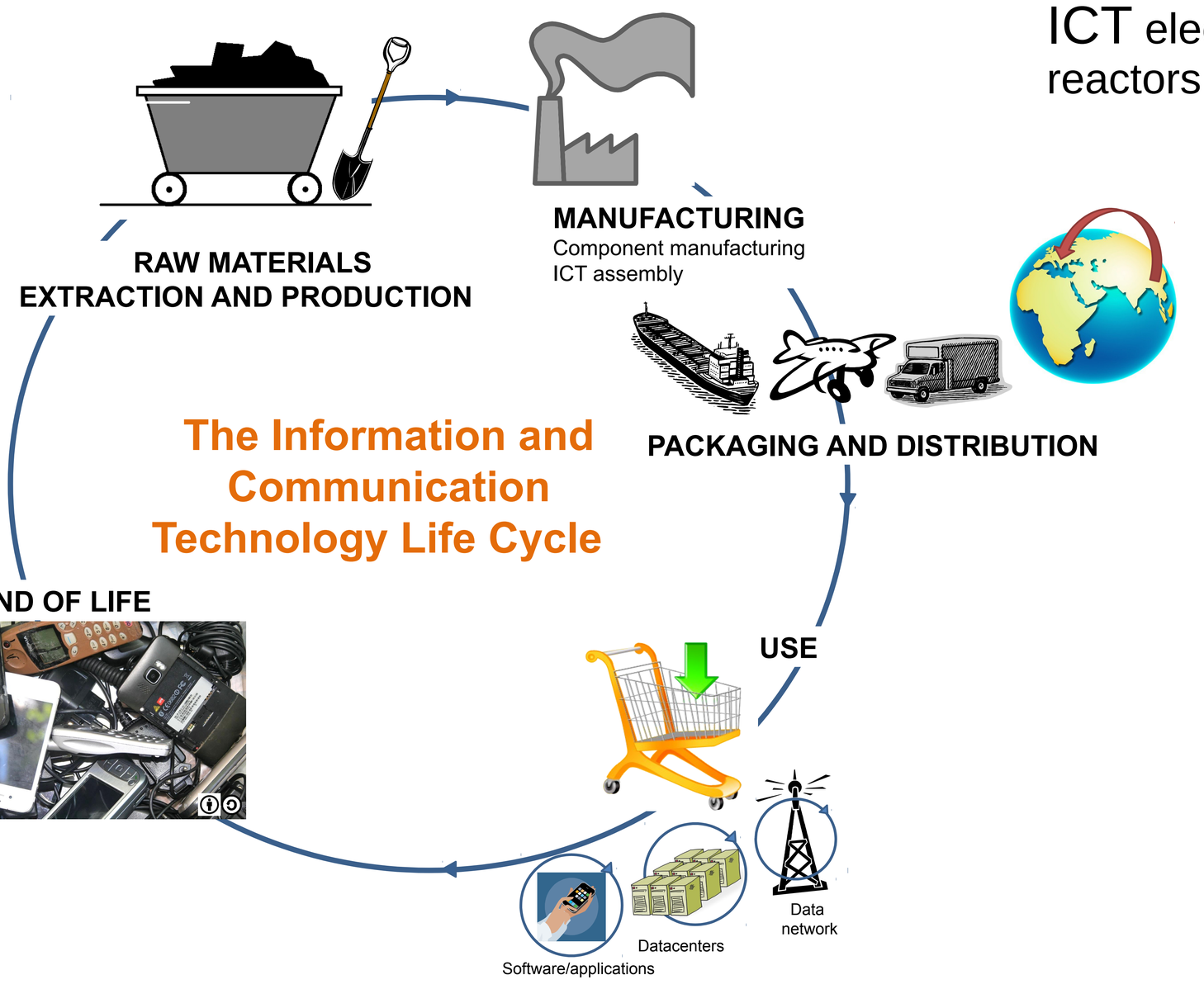
http://ecoinfo.cnrs.fr

Françoise Berthoud[1], Laurent Lefevre[2], Cédric Gossart[3] - EcoInfo

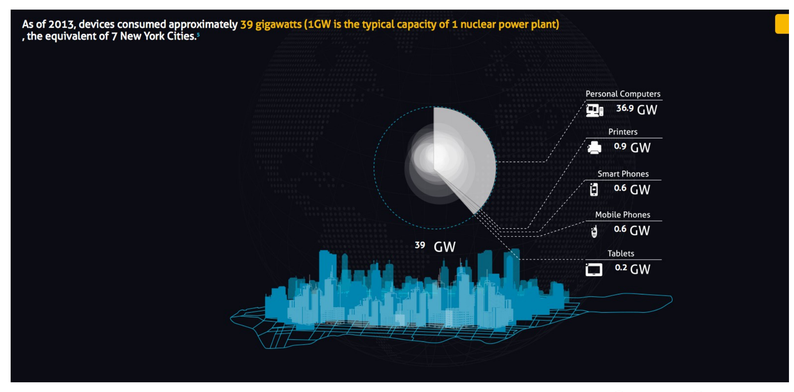
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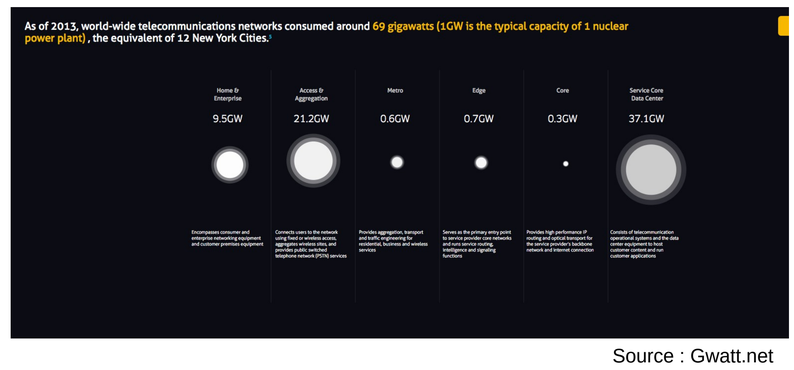
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ICT electrical consumption > 100 nuclear reactors – 10 % of world electricity production



Source : Gwatt.net



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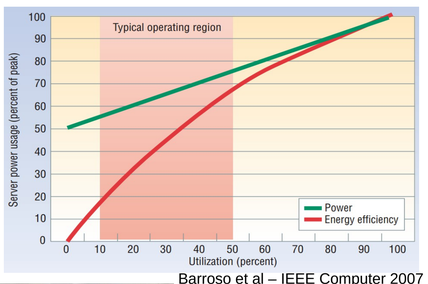
Not always !

Open challenges

Eco Design



Energy Proportionality, Energy Efficiency, Power Savings, Green Codes

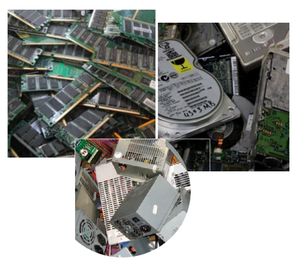


Barroso et al – IEEE Computer 2007



GreenTouch

Reusing - Recycling





Good practices
- Modularity
- On/Off
- Repair

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



Rebound Effect
Planned Obsolescence

UNIVERSITÉ DE LYON

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