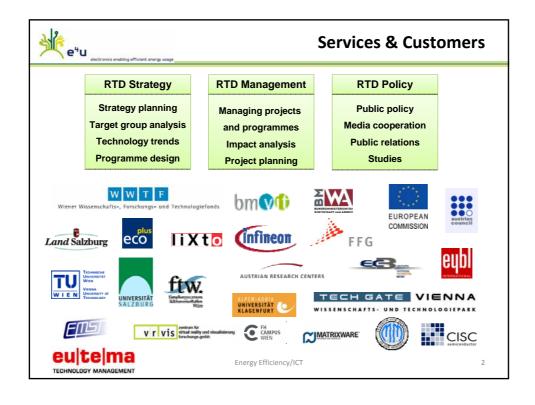
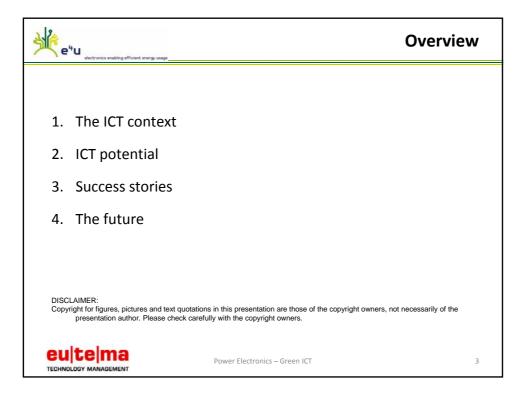


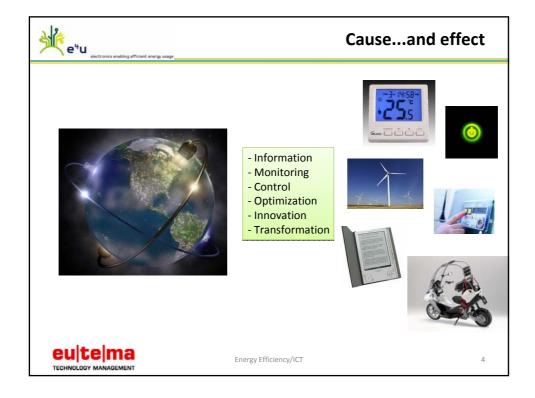
Power Electronics The Enabler for Energy Efficiency

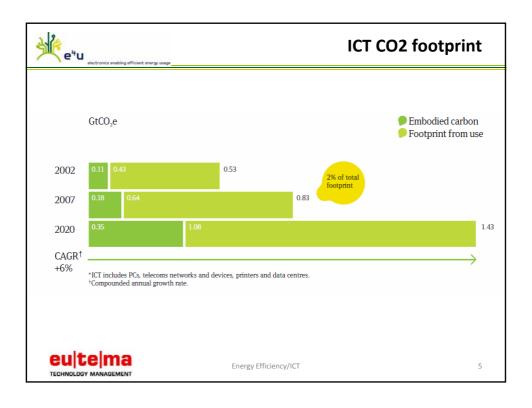
Dr. Erich Prem eutema Technology Management GmbH

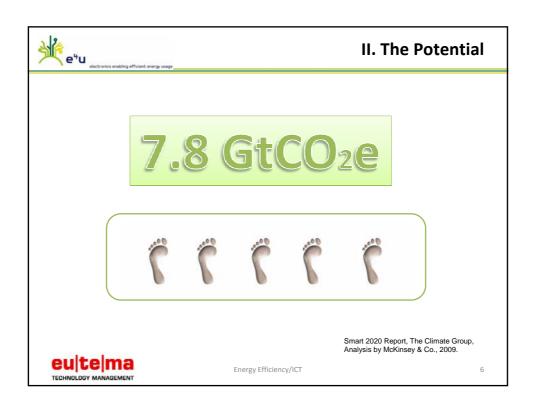


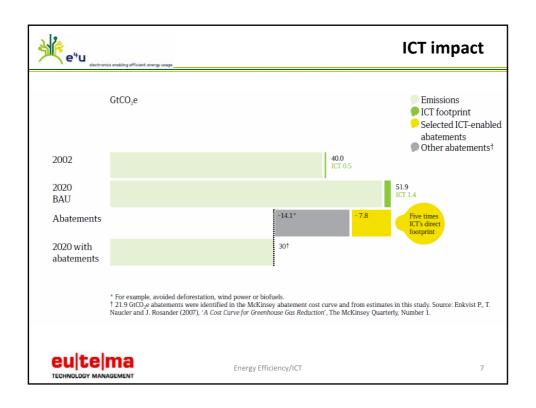


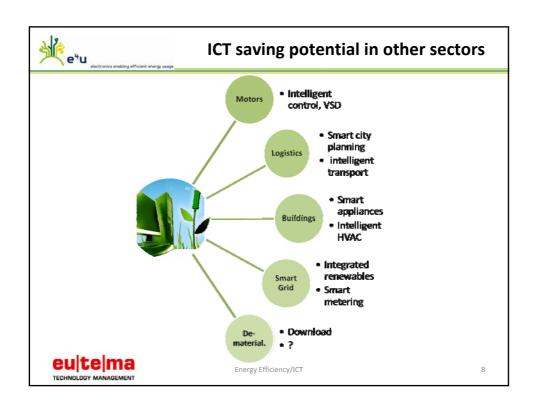


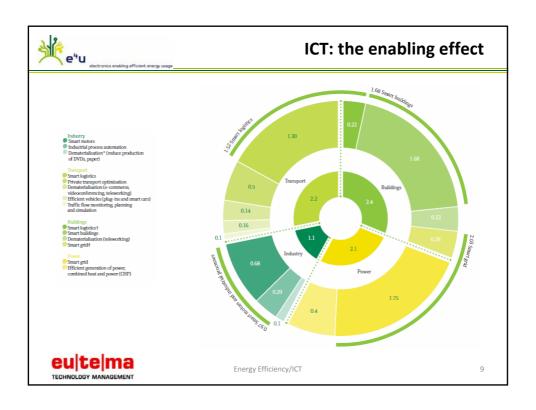


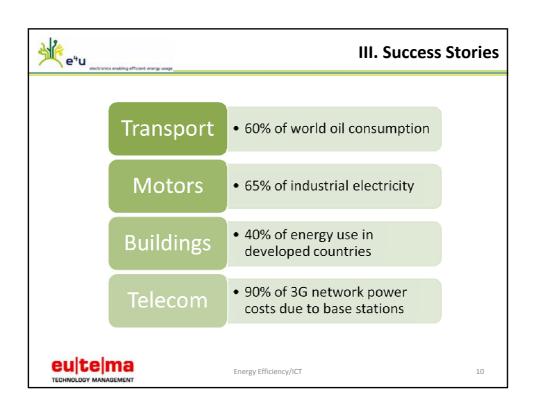














Transport: opportunity & challenge

e-Mobility

- 60% of world oil consumed in transport
- Electric drive much more efficient than combustion engine
- Cost of electricity/km 3-4 times lower than petrol/km

Technological Challenge

- Battery technology
- Charging









Electronics in electric vehicles

Solution: NRGspot - a Public Ultra-Fast Charging Infrastructure

- Based on Lithium-ion batteries and advanced power electronics
- Charging systems provided by Epyon (spin-off of TU Delft)
- Charge points located at strategic places (near shopping centres), supply 100% green electricity
- Access open to subscribers via intelligent interface
- Ultra-fast charging within 5-60 min.





Energy Efficiency/ICT

