Halving global emissions by 2030 through exponential climate action and digital technologies

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http://exponentialroadmap.org/
The mission: Halving global emissions by 2030
Trajectories for halving global GHG emissions by 2030

http://exponentialroadmap.org/
The global carbon footprint of the ICT sector

1.4% of GHG emission (full life cycle)
3.6% of electricity consumption (operation)
ICT as an enabler of exponential climate action

- ICT is the wildcard of decarbonization
- Can enable 1/3 of the first halving with current technologies
- Influences the decisions of 3 billion producers and consumers every day.
- Additional potential of 5G, AI, IoT and others to be explored
Background studies

The effects of ICT solutions on GHG emissions in 2030 (2015)
(also available through ICT4S proceedings http://ict4s.org/conference-proceedings/)

The electricity consumption and operational carbon emissions of ICT network operators 2010-2015 (2018)

The energy and carbon footprint of the global ICT and E&M sectors 2010-2015 (2018)
https://easychair.org/publications/download/MRdh
- note that the link ends up in the middle of the document so you need to scroll for the first page