Mobile enabling net zero transport

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The transport sector needs to reduce CO₂ emissions by 4.4 GIGATONNES by 2030 to be on a path to net zero by 2050.

The GSMA forecast mobile connectivity can enable 65% of the required reduction...

...this breaks down to...

- 9% working from home
- 24% electric vehicles
- 21% shipping
- 11% HGVs

across the transport sector (by 2030)

Potential emissions savings in these four areas equals 2.8 GIGATONNES of CO₂ by 2030.

CO₂ avoidance from the use of connected transport is equivalent to 2.8 BILLION FLIGHTS from New York to Paris.

Regional splits of CO₂ emission reductions, enabled by mobile connectivity, 2020-30

How does it all work:

1. Electric vehicles:
   - Charging stations are enabled by IoT connectivity while on-board telematics drive fuel savings.

2. Working from home:
   - CO₂ savings come from reduction in commuting journeys (especially by car), which average 15-18km each way.

3. Shipping and ports:
   - Fuel savings on shipping journeys, enabled by IoT telematics which optimise routing and port arrival times. Reduced idling time at ports through just-in-time arrival/departure systems with port operators.

4. Trucks/haulage:
   - CO₂ reductions from fuel savings in trucks connected with IoT telematics which optimise routing and arrival times at consignment points.