

## How much greenhouse gases to emails emit?

### High end estimation:

- 50 grams of CO<sub>2</sub> emitted by one email<sup>1</sup> x 205 billion emails per day<sup>2</sup> = 10,250 billion g CO<sub>2</sub> emitted by emails worldwide per day
- 1 million grams = 1 metric ton
- 10,250 billion g CO<sub>2</sub>/day = 10.25 million metric tons/day or 4,015 million metric tons per year of CO<sub>2</sub> emitted by emails worldwide
- Each car emits on average 4.7 metric tons of CO<sub>2</sub> per year<sup>3</sup>
- 4,015 million metric tons CO<sub>2</sub> emitted per year by emails worldwide divided by 4.7 metric tons CO<sub>2</sub> per car is equal to: 854 million cars per year

### Low end estimation:

- 0.3 g CO<sub>2</sub> emitted per email<sup>1</sup> x 205 billion emails/day<sup>2</sup> = 61.5 billion g CO<sub>2</sub> emitted by emails worldwide per day
- 61.5 billion g CO<sub>2</sub>/day = 61,500 metric tons/day or 22 million metric tons per year emitted by emails
- 22 million metric tons CO<sub>2</sub> emitted per year by emails divided by 4.7 metric tons CO<sub>2</sub> emitted per car per year is equal to 4.68 million cars/year

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<sup>1</sup> Milke Berners-Lee. 2010. How Bad are Bananas? The Carbon Footprint of Everything.

<sup>2</sup> Radicati Group. 2015. Email Statistics Report 2015-2019 <http://www.radicati.com/wp/wp-content/uploads/2015/02/Email-Statistics-Report-2015-2019-Executive-Summary.pdf>

<sup>3</sup> EPA. 2018. Green Vehicle Guide <https://www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle>