# **Recap from the Matter Cycles**

- 3 most important nutrient for the ecosystem: Carbon, Nitrogen, Phosphorus
- Human activities change the balance of these nutrients
- CO₂ →
- $N_2 \rightarrow$
- PO<sub>4</sub><sup>3-</sup> →

## **Fixing our Ecosystem**

• The big question:





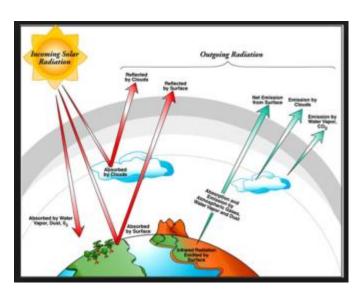


- There are two school of thoughts as to how we can fix the ecosystem and fix the negative impact human activities have on the matter cycles:
  - 1)
  - 2)

#### 1. To Improve what we already have:

- <a href="https://www.youtube.com/watch?v=m-FM845gial">https://www.youtube.com/watch?v=m-FM845gial</a> (Leonardo DiCaprio)
- https://www.youtube.com/watch?v=afH6v067u08 (Mike Pence on Climate Change)
- <a href="https://www.youtube.com/watch?v=xKCuDxpccYM">https://www.youtube.com/watch?v=xKCuDxpccYM</a> (Elon Musk Tesla CEO)

## 2. Find Alternative Energy that is Efficient



## Elon Musk's grand plan:

- Solar panels charge you walls and charge the Powerwall
- Powerwall will supply energy to the house at night and also charge your car
- Elon musk has created solar panel roof tiles (Solarcity)
- Elon musk has created the powercell (Tesla)
- Elon musk is looking to improve the efficiency of batteries (Gigafactory)
- Elon musk is developing efficient electric cars (Tesla)
- Elon musk is trying to develop a high speed freight and passenger transport that is run on electricity (Hyperloop)
- https://www.youtube.com/watch?v=OARwwN7PoA4 (Powerwall)
- https://www.youtube.com/watch?v=hMrantzEYC8 (Solarcity)
- https://www.youtube.com/watch?v=iZm NohNm6I (Gigafactory)
- https://www.youtube.com/watch?v=lgKWPdJWuBQ (Elon Musk TED)