





Four things to consider

- 1. will it scale
- 2. what is the cost
- 3. permanence

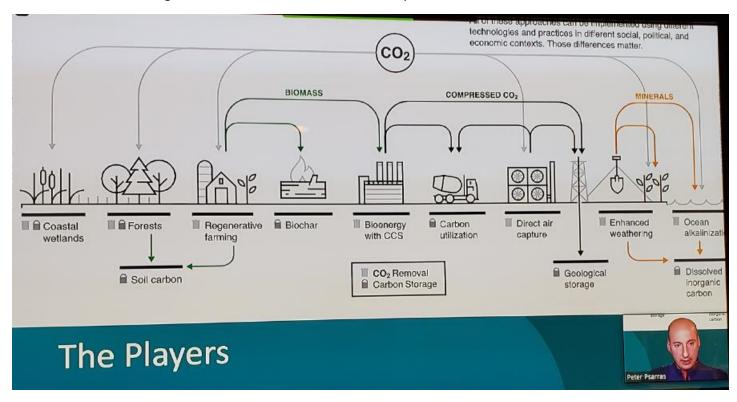




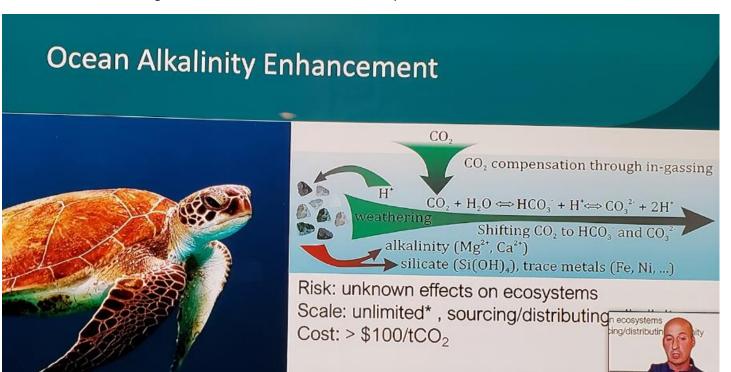
Four things to consider

- 1. will it scale
- 2. what is the cost
- 3. permanence
- 4. harms, co-benefits and equity



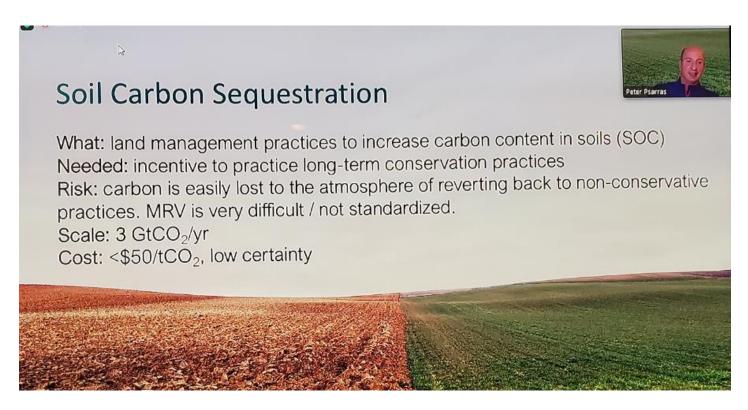












Soil Carbon Sequestration



Practice Adopted	Δ SOC (S.E.) (t C/ha/yr)
Cover crops	0.32 (0.08)
Improved rotations	0.14 - 0.18
No-till	0.48 (0.13)
Convert to grassland	0.9 (0.1)
Convert to forest	0.27 – 0.54

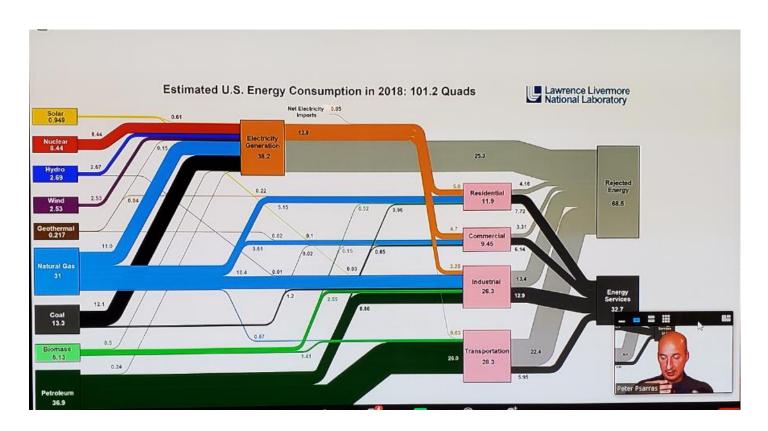


Indirect land use change ILUC

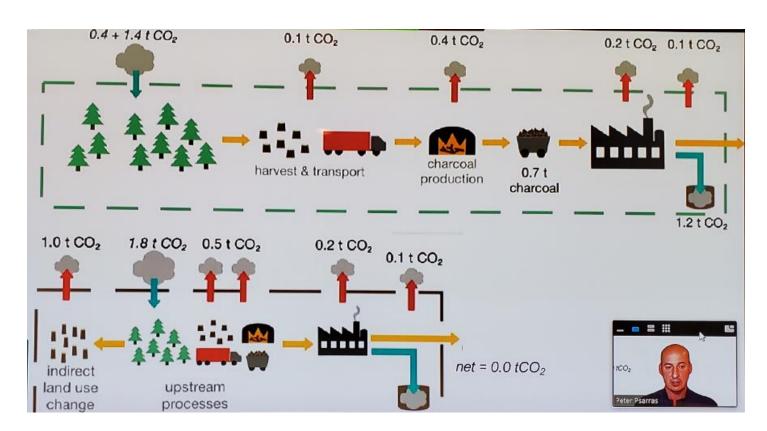
the cultivation of crops for BECCS displaces traditional production of crops for food and feed purposes







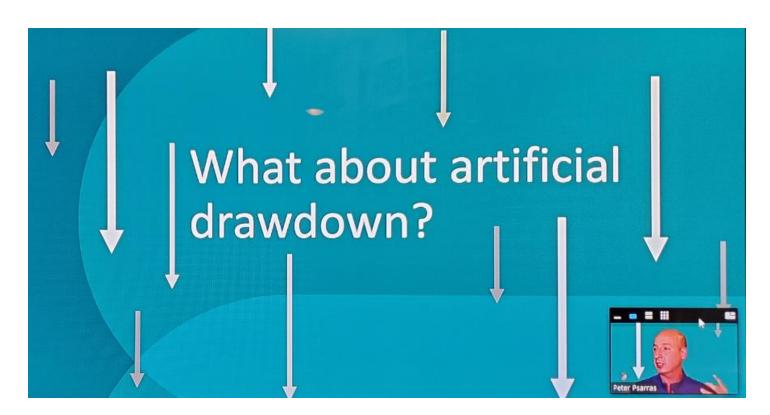










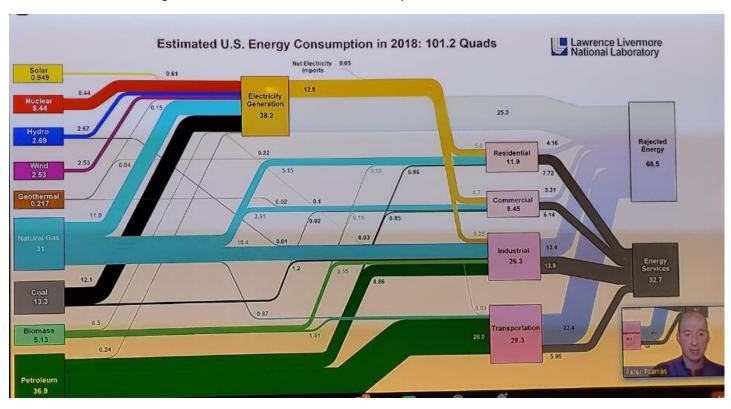


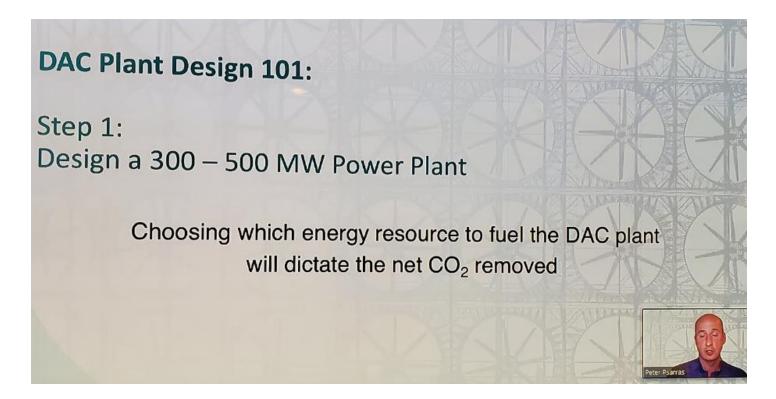




World's first commercial DAC plant: Climeworks









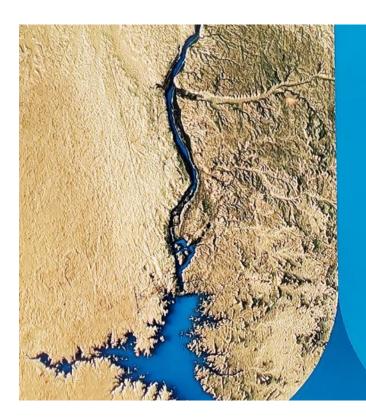
Land: a comparison

To remove 1 Gt CO₂ / yr

DAC

if powered by natural gas with CCS 185 sq mi.





Land: a comparison

To remove 1 Gt CO₂ / yr

What about forests?

if tropical forests 70,000 sq mi.

if boreal forests 263,000 sq mi.



