### Carbon sequestration and the Australian hemp fibre industry

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**AHC Fibre Forum** 





### **Topics**

- > Introduction climate maths
- Verra & project boundary
- Central data collection platform
- > Structure of carbon offset market
- What's in it for farmers and builders
- > onehectareonehome





# From this comes the business case for industrial hemp



Currently, 51 gigatonnes of greenhouse gas were emitted into the atmosphere last year (2022). If we want to stay at 1.5°C warming we needed those emissions to be no more than 25 gigatonnes. That didn't happen. Therefore, this year we need it to stay at 24 gigatonnes and the following year 23 and so on.

Current total removal offsets 0.15GT. There are efforts to scale up to 2GT by 2030.



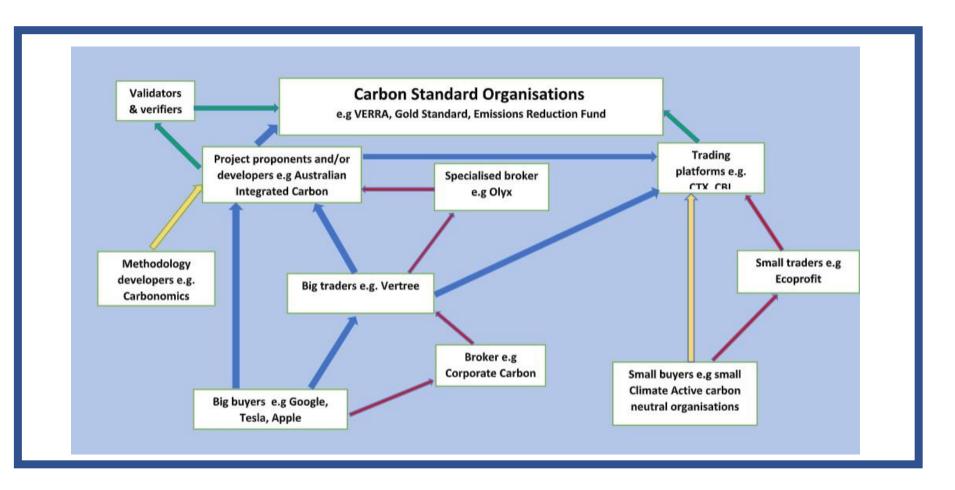
## Therefore removal offsets needed

According to a Cambridge University researcher, a hectare of hemp can absorb between 8-15 tonnes of CO2. In comparison, forests capture 2-6 tonnes only depending on the type of trees, region, etc.

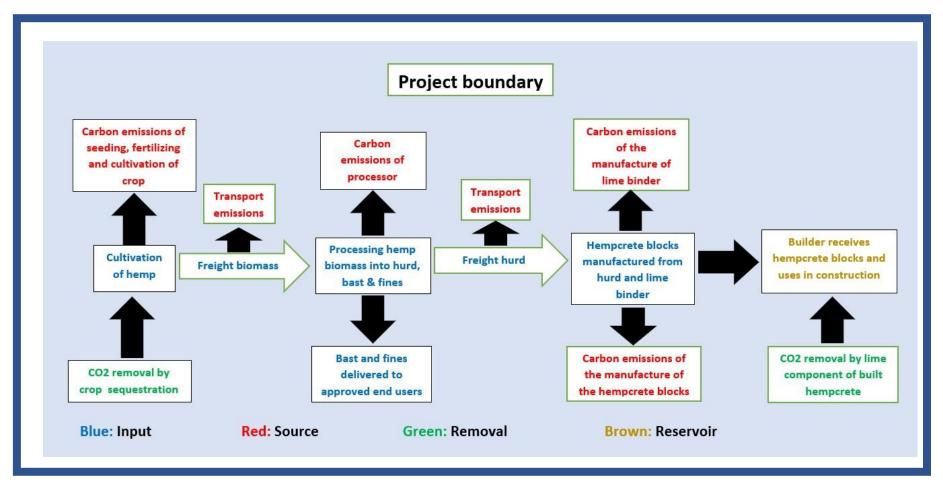
Hemp creates employment but needs a methodology. That is when I approached Verra.



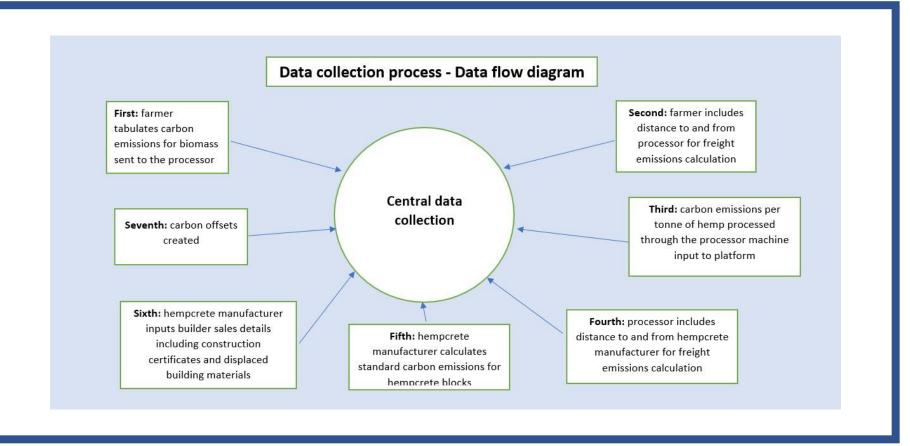














The business case

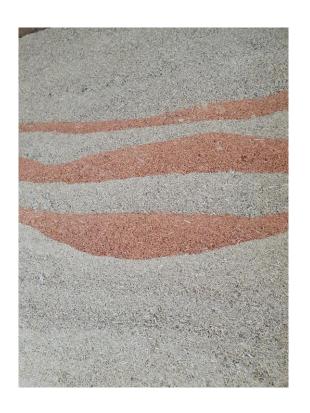
Removals cultivation and manufacture: 11t Carbonation: 6t

Net removals:7tCarbonation:6tTotal:13t

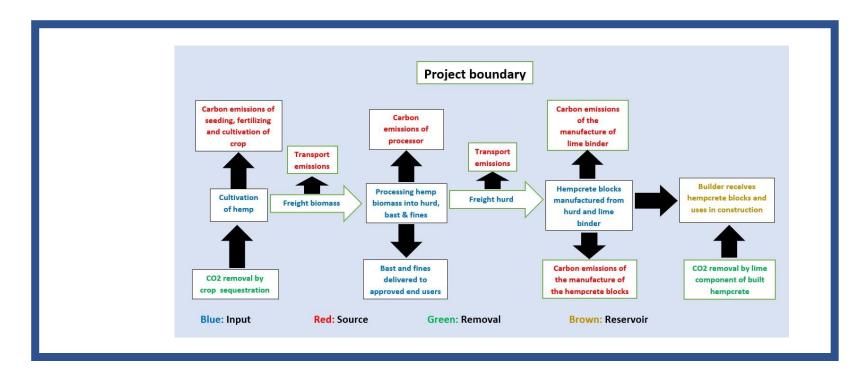
Farmer:  $7t \times $50 = $350$ 

7t x \$200 = \$1400

Tax effect to be considered





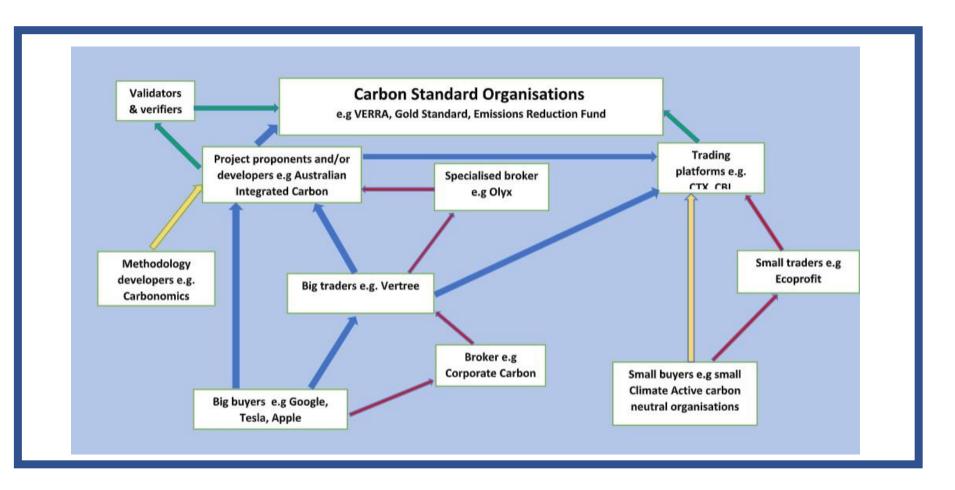


Issues: - Leakage

- Crediting baseline

Standardization like density standardization Darren Christie has proposed an authority to oversee regulation in the industry.







#### Co benefits to note:

- 1. Improving the soil
- 1. Creating employment
- 2. Passive homes
- 3. SDGs





#### Onehectareonehome

Set scenario comparison of a 300 sq metre home between a brick veneer home compared to hempcrete home where hempcrete is incorporated between studs instead of bricks, insulation and gyprock.

- 1. Embedded carbon comparison
- 2. Cost comparison





THANKS!

# **Questions?**

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