

HEMPCRETE  **YURT**

Circles for a healthier Planet

hempreteyurt.com

István Nyárády, founder. August 2023

Hemcrete photo credit: greenbuildingcanada.ca

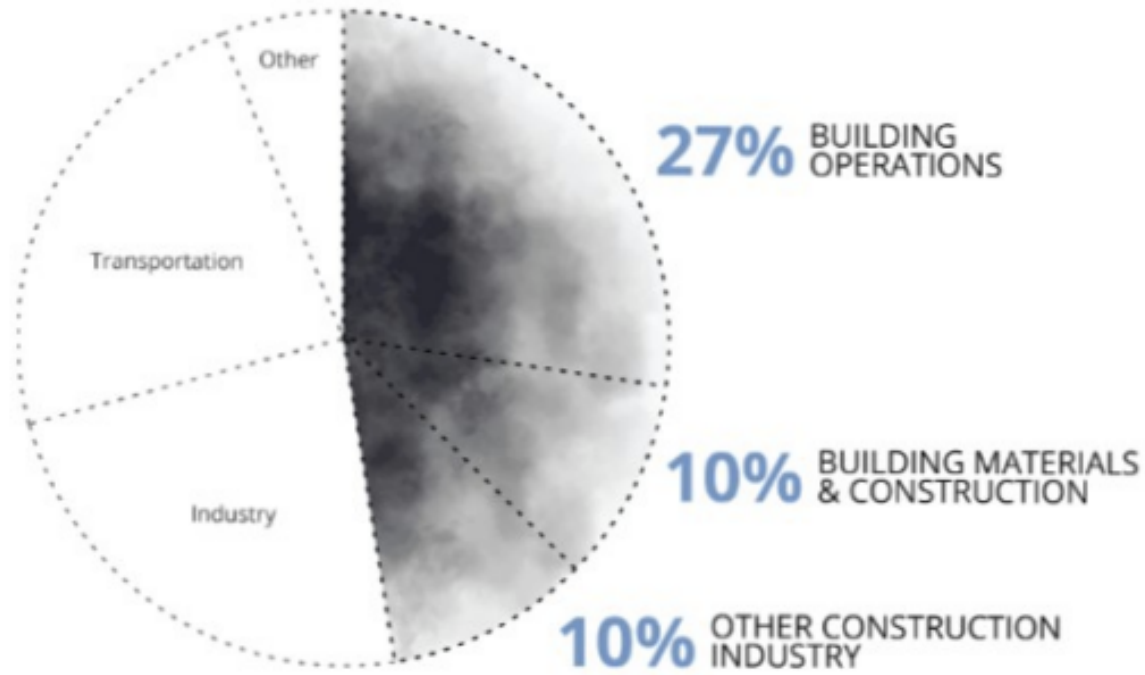
Mission



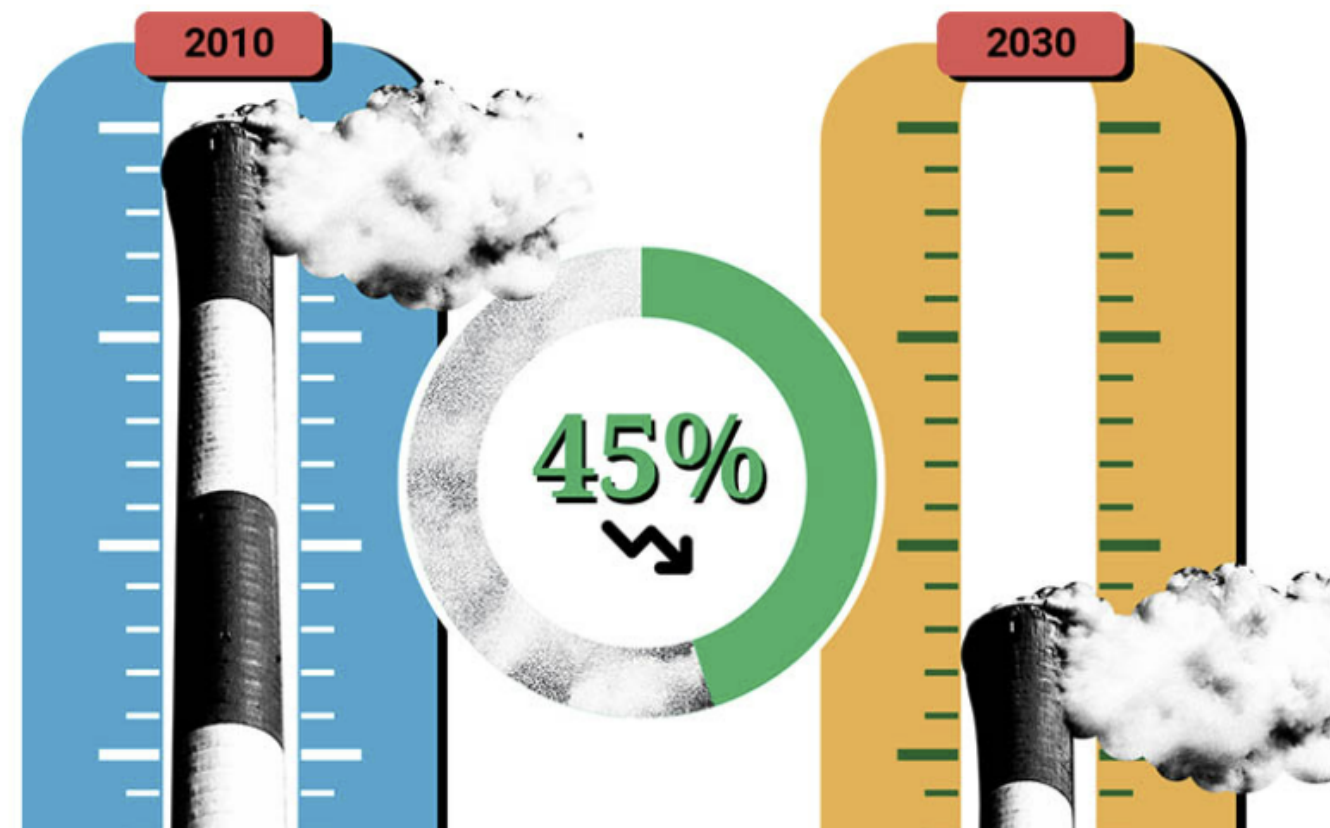
**Unite to build
more sustainable
buildings**

Climate & energy crisis

Built environment CO2 emissions



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Data Sources: Global ABC Global Status Report 2021



2030 emission target (Paris agreement)

To keep warming to 1.5 degrees, **countries must cut emissions by 45% compared to 2010 levels.**

Data sources:
UN Global ABC - 2021
U.S. Energy Information Adminis
UN - The road to NetZero

Why IMMEDIATE action?

Home » Record floods ravage Slovenia, large parts of Europe under water

Record floods ravage Slovenia, large parts of Europe under water

Monday, August 7, 2023

★ Favorite



Record rainfall

The floods were caused by torrential rains on Friday, which caused rivers to swell swiftly and burst into houses

Slovenia has faced “the biggest natural disaster” in its history after devastating floods caused damage estimated at 500 million euros (\$550m), killed three people and destroyed roads, bridges and houses.

Speaking after a meeting of the country’s National Security Council on Saturday, Prime Minister of Slovenia Robert Golob said, that luckily, the earlier night was easier than the one before.

He also added that two-thirds of the small Alpine territory had been affected.

**UN Facts About
Climate Emergency:
<http://bit.ly/UN-FACE>**



What will be our legacy?

Industrial hemp captures **more CO2 than adult trees.**

Hempcrete stores CO2 in walls.

Carbon negative, excellent insulating, fire resistant, humidity balancing, mold and pest deterring

UN: climate emergency

Symbols - like circles - drive change.
Collaboration multiplies impact.

We - literally - build our future and ultimately Earth: our biggest circle!

Industrial hemp is the building material of our future!

European Green Deal (excerpts)

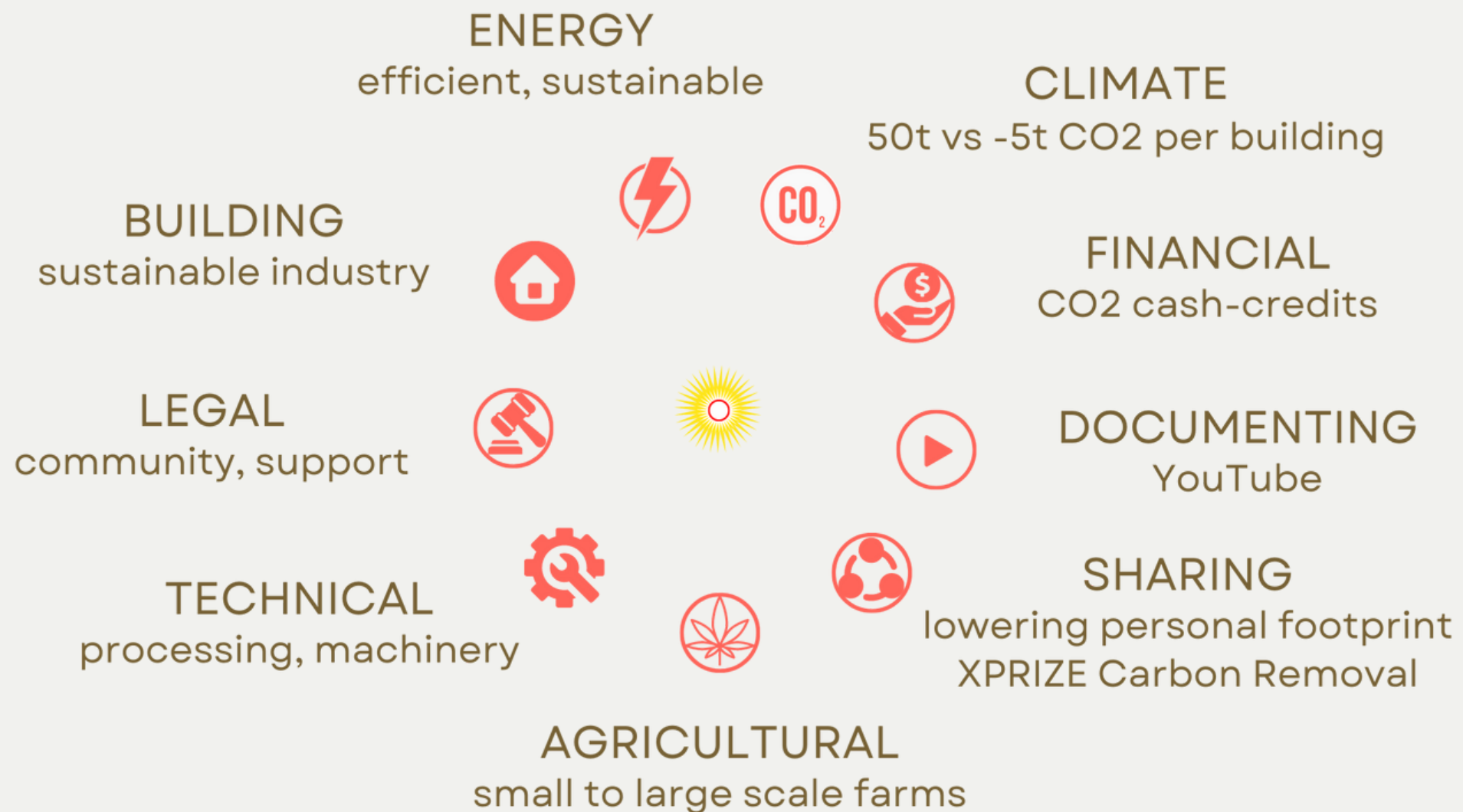


Move towards **Net-Zero Energy Buildings**

Circular economy in building construction and renovation

Monitoring and Reporting progress

Who's interest?



EU: new buildings zero-emission from 2030

Governments: Net-Zero delivery. Widest impact base!

Farmers: support farming and processing

Builders: embrace and support change

House owners:

- building environmental footprint certificates
- carbon cash-credits!

United commitments

1. **Crowdfunding (and building) the Hempcreteyurt prototype**
2. Submitting a winning concept to **XPRIZE Carbon Removal** (largest global CO2) competition. A **globally relevant option** to unite and build more sustainable buildings
3. Promoting our mission, including industrial hemp building workshops
4. Establishing industrial hemp pilot **farms and scalable processing machinery** to provide locally sourced, carbon-negative circular building materials (ongoing collaboration with <https://tokeportal.com/kenderhaz/>)
5. Developing **building environmental footprint certificates** (Hempcreteyurt must provide for the XPRIZE competition), similar to existing energy certificates
6. Facilitating the **rapid replication of natural building ecosystems** worldwide, collectively capable of sequestering **Gigatons of CO2** within building walls
7. Recognizing carbon-negative buildings through carbon cash-credits
8. Assisting governments and bodies in achieving NetZero building targets by 2030

200k EUR crowdfunding

FundRazr

fundrazr.com/hempcreteyurt

From Little Seeds, Mighty Homes Grow!

Unite to build more sustainable buildings.

Seed the Change: Build Healthier with Industrial Hemp!

Thank you!



*Both granddads lost first wife and a baby.
Committed to building our loving family home.

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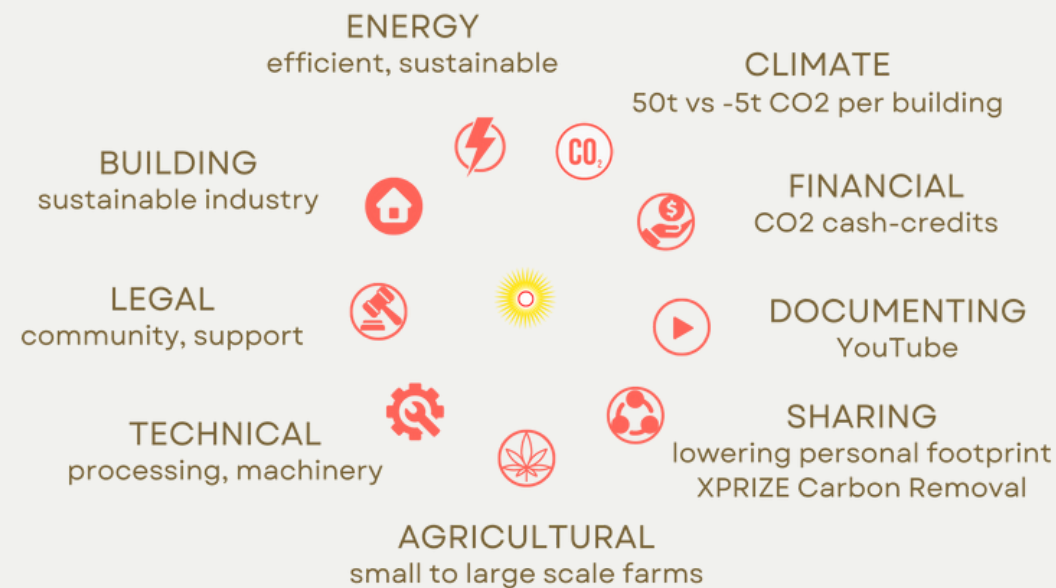
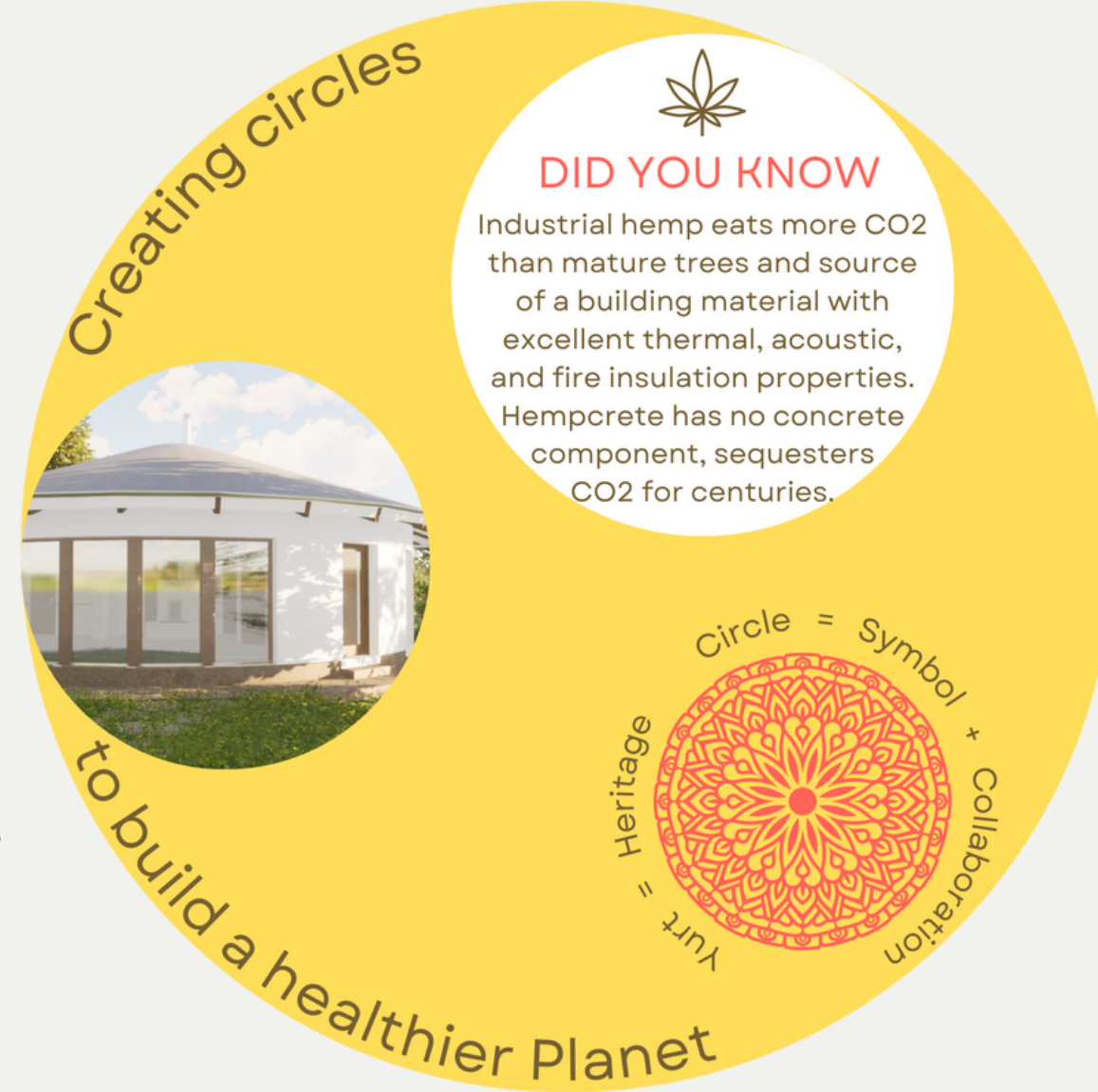
[hempcreteyurt.com](https://www.hempcreteyurt.com)

[kenderbetonjurta.hu](https://www.kenderbetonjurta.hu)

Appx. 1 - EU, Government

The Paris Agreement was adopted on December 12, 2015, at the 21st Conference of the Parties (COP21) to the United Nations Framework Convention on Climate Change (UNFCCC) held in Paris, France.

The EU and 194 states, totalling over 98% of anthropogenic emissions, have ratified or acceded to the agreement.



You are invited to join the circle: hempcretetyurt.com

Our proposal:

Extend building energy certificates with environmental footprint (CO2 life cycle assessments, LCA):

- material production
- building
- operation
- end of life

Carbon cash-credits for CO2 negative buildings!

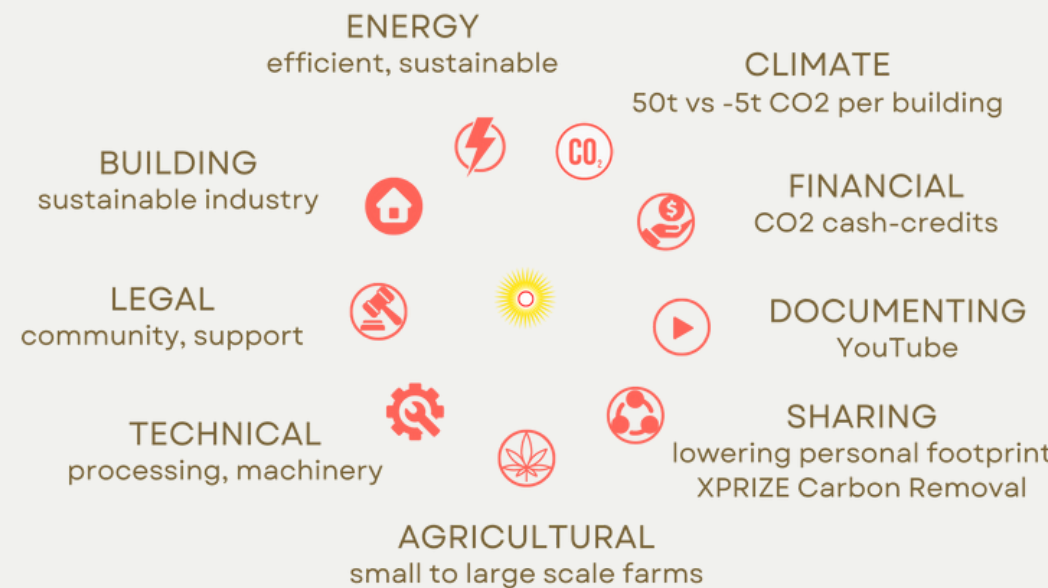
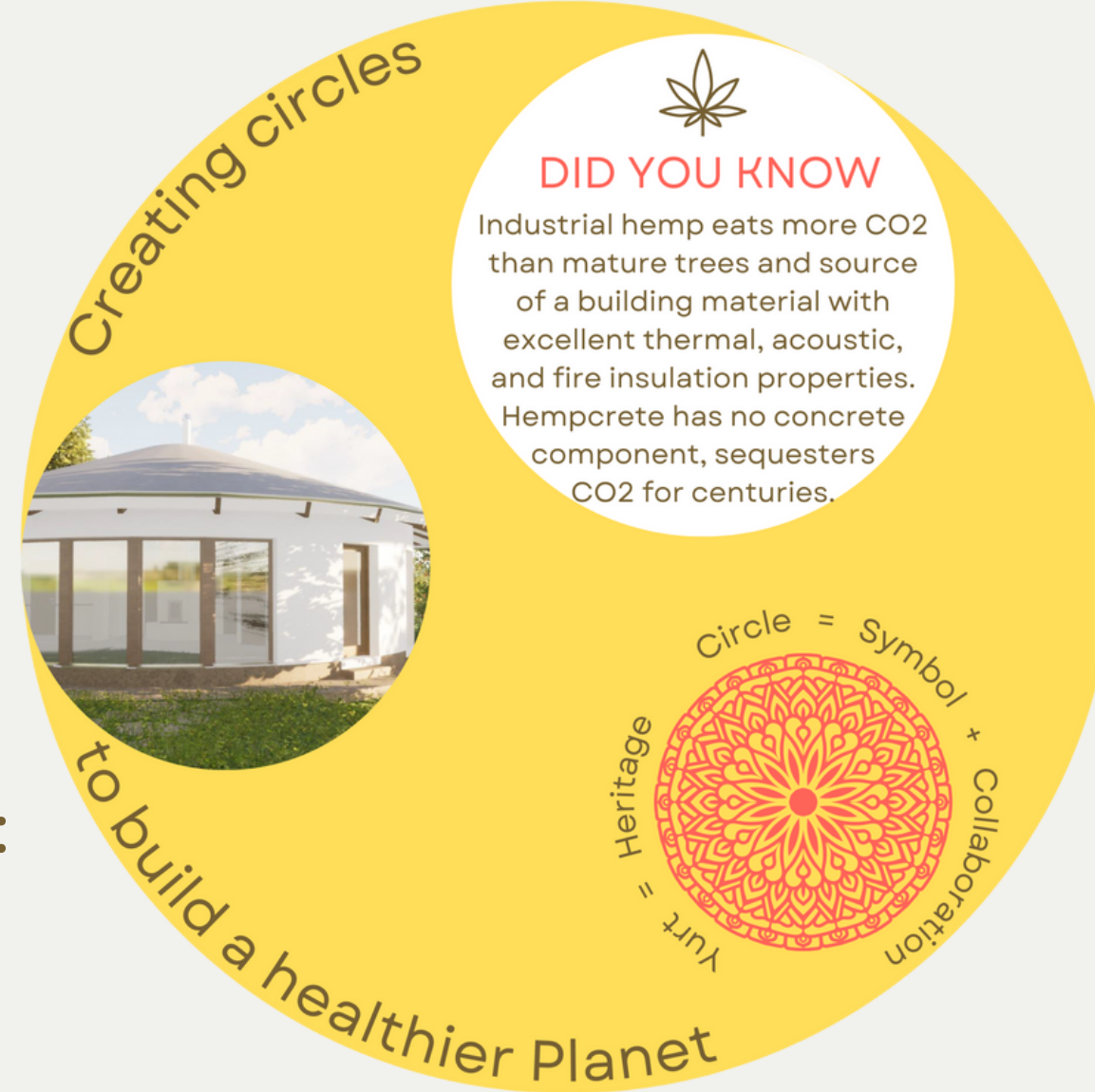
Appx. 2 - Farmers

Climate change impacts yields: heat, drought, severe rain and wind

Soil overuse

Plowpan - excessive plowing results in the formation of a compacted layer between soil horizons.

Sustainability



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Industrial hemp:

Regenerative farming helps improve soil health, sequester carbon, and promote sustainable agriculture

Fast growing option to diversify single crop reliance

Generally requires less water and fewer pesticides.

Market demand for regenerative materials

Source of **construction materials**, textiles, food products, cosmetics...

Appx. 3 - Owners, builders



High building and operational costs

High energy dependence

Environmental footprint currently focused on energy consumption, less on material production and material+building footprint, including end-of-life

3+M homes/year (EU+US+AU)

Hemp building 25% less (HU)

CO2 footprint*: a 100 sqm hemp building saves 500 trees yearly equivalent.

Hemp buildings:

Healthy, energy efficient

Higher valued, reflected in building LCA and CO2 footprint (to be introduced)

Simple to build and cheap to produce compared to many traditional building materials

10% target for new hemp homes by 2027 will have an impact of -6Mt* CO2/year!

* - pending audit