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Are Bio-based
Materials the Right
Choice to Establish
Alternative
Resources for CO₂
Neutrality?

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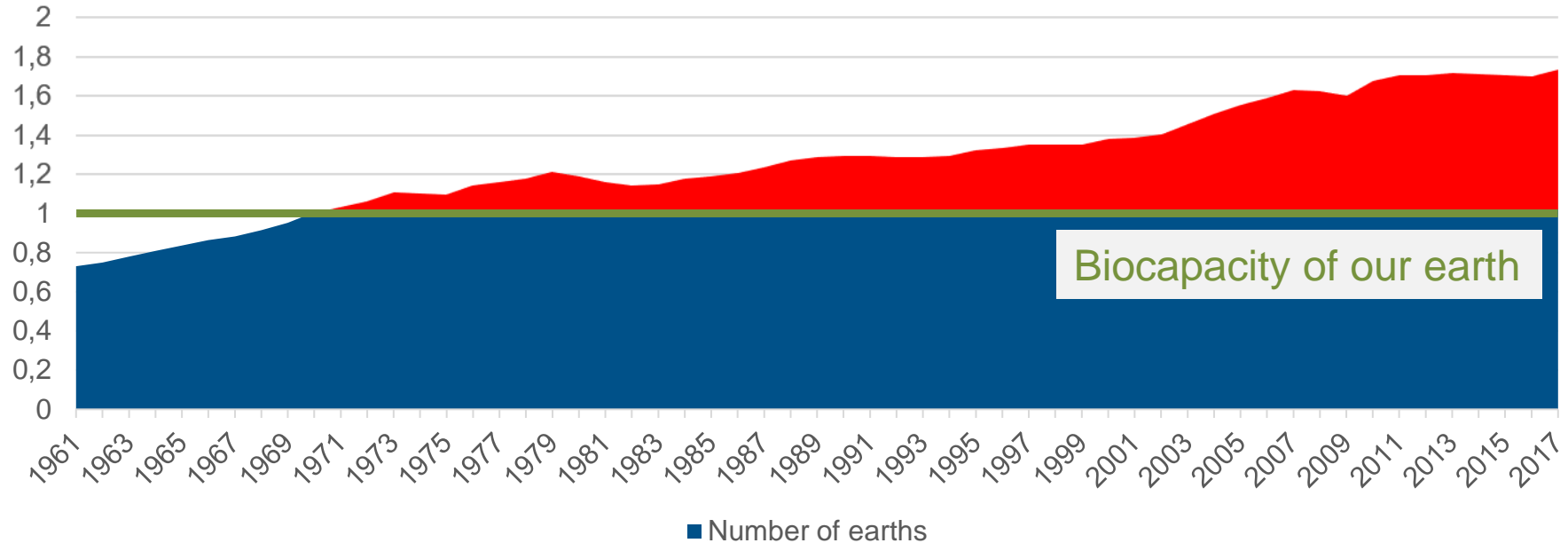
"Change will not come
if we wait for some
other person, or if we
wait for some other
time.

We are the ones
we've been waiting for.
We are the change
that we seek."



Use given resources more sustainably

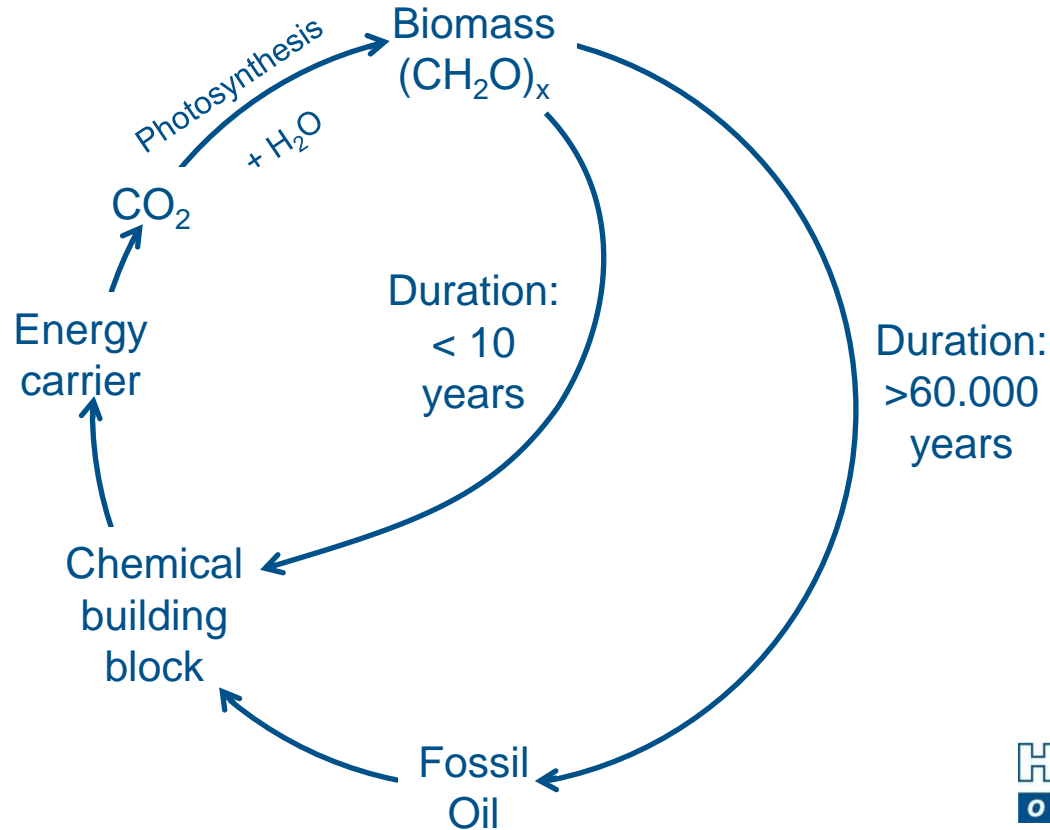
Ecological footprint of our earth





Let's leave this fossil era behind!

Renewable C passes through the C-cycle quicker than fossil C



Is expanding the Bioeconomy a solution?



Expansion of Bioeconomy



Pressure on land use ↑

Limited availability of raw materials from

- agriculture
- forestry
- waste
- residual material



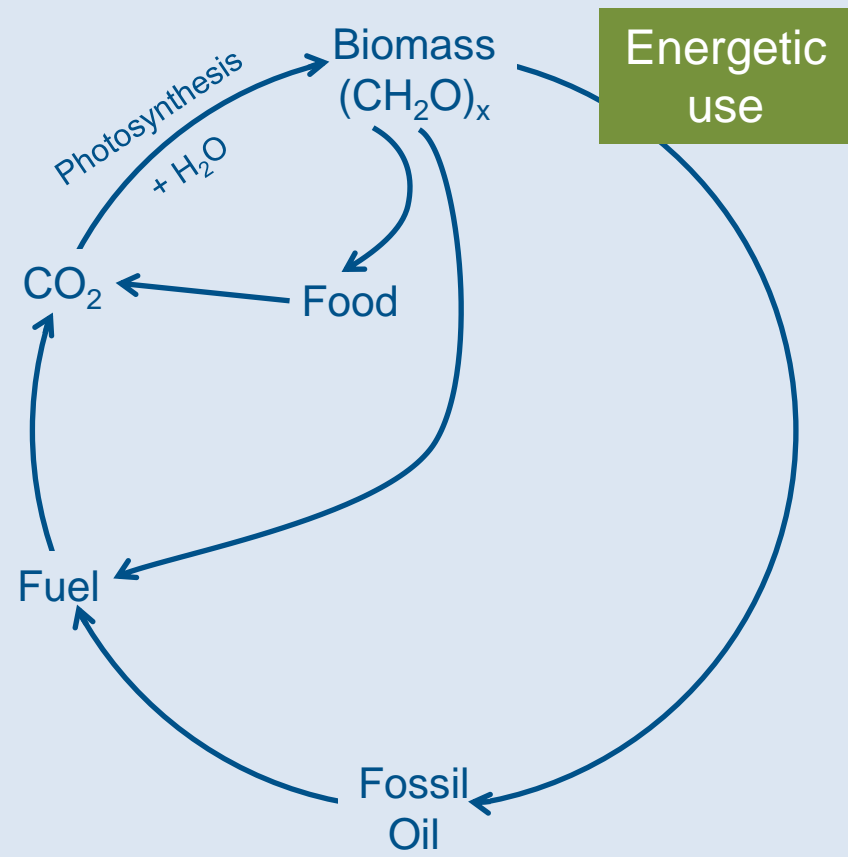
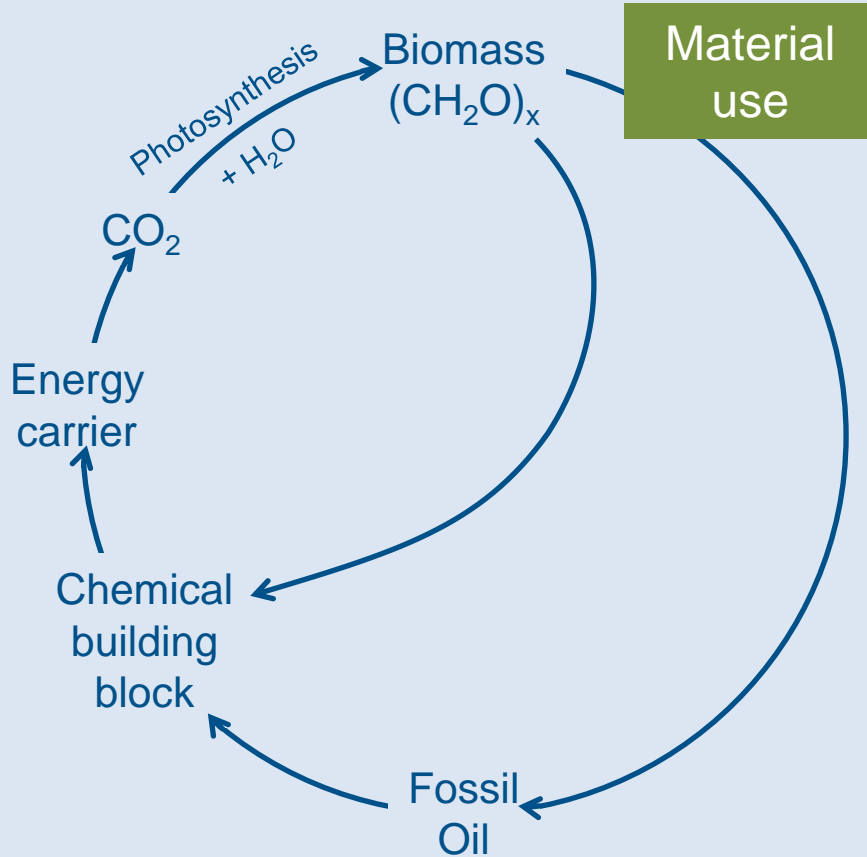
SDG 2: Zero Hunger
SDG 15: Life on Land

Material use over energetic use

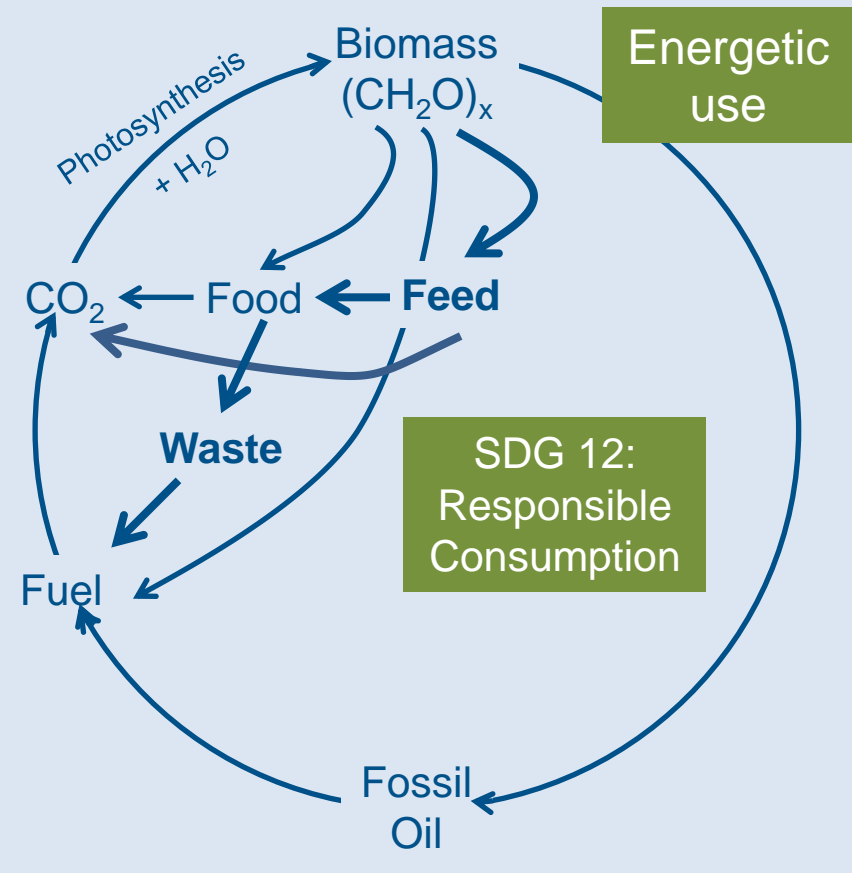
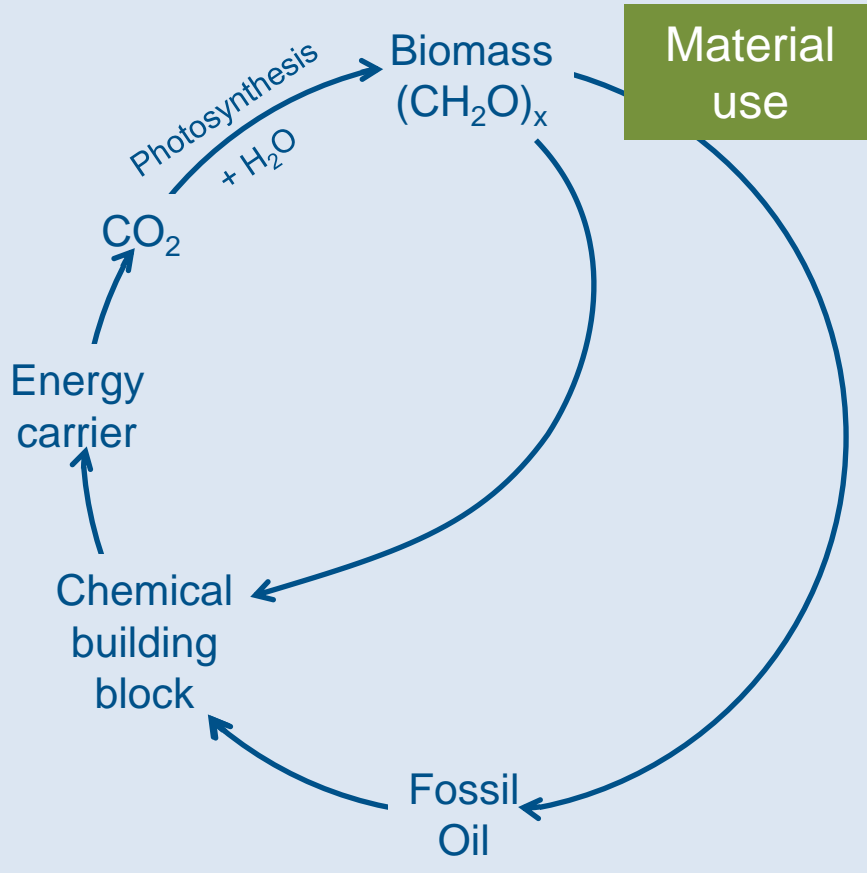
Political prioritization of use of biomass according to study's six guidelines:

- Wherever possible, **biogenic raw materials** should be used primarily as materials to **replace** the **material use of fossil raw materials**
- The **energetic use** of biogenic raw materials should be **limited** to energy requirements for which other options are technically difficult

Material use over energetic use - visualized



Cascading use of biomass

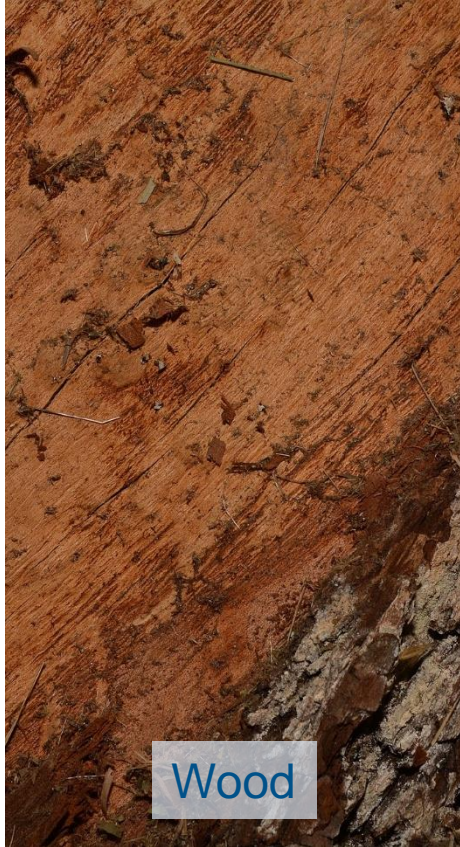


Bringing BE and SDGs together

- BE should not lead to any new, additional use of agricultural or forestry biomass
- **Biogenic raw materials should be used primarily materially**
- Take discussion to broader public
- Reformation of European trade policy on obligations for importers of biogenic raw materials
- Primacy of “food first” principle
- Making consumption and nutritional styles more sustainable



Renewable feedstock is one option



Wood



Sugar cane



Edible oil



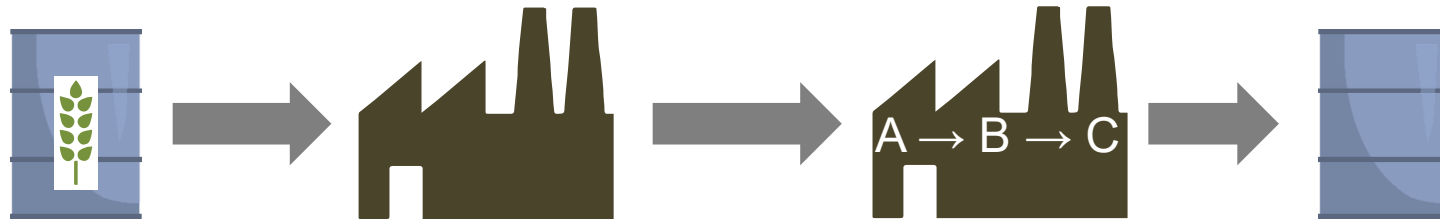
Cotton

Drop-In Biomaterials



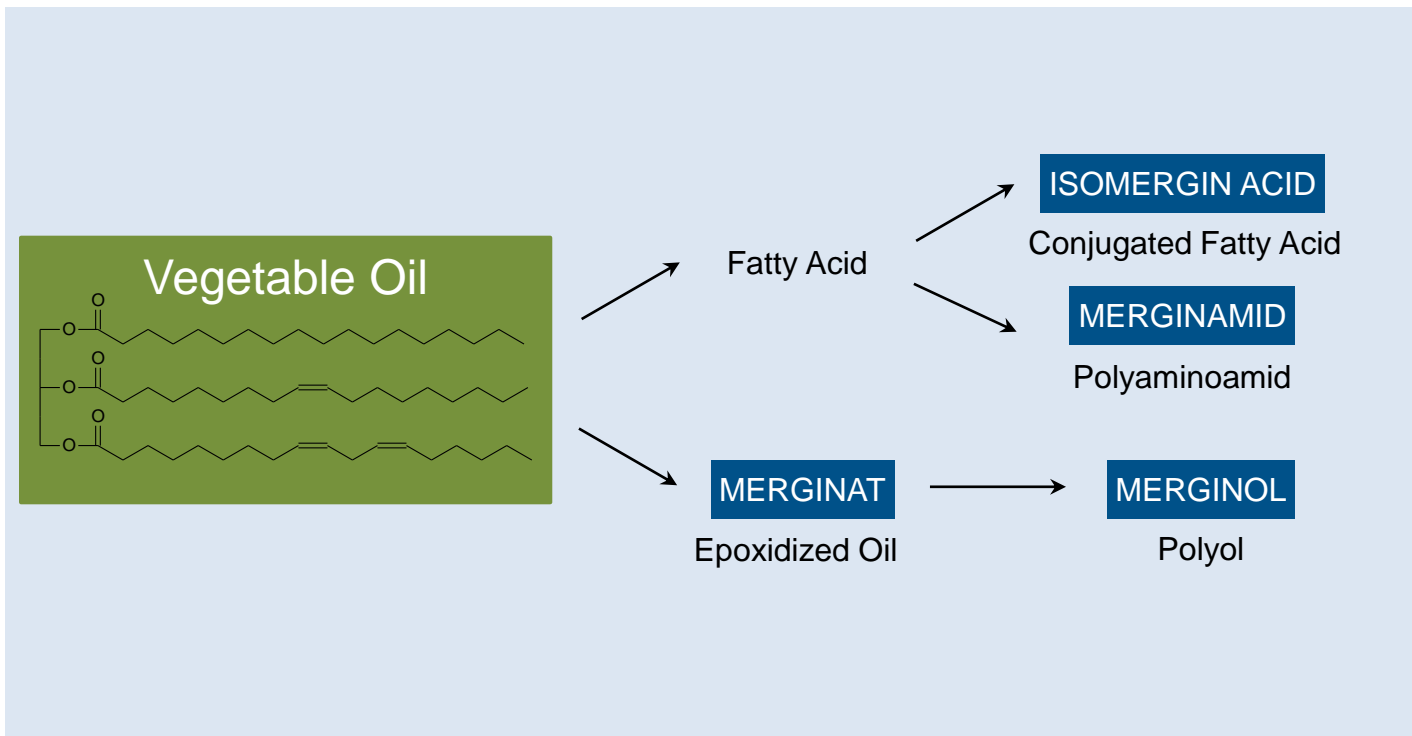
- Mass balance
- Simple implementation

Novel Biomaterials



- Segregation
- Innovation

Bio-based Products over 4 Generations since 1896



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Thank you!



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