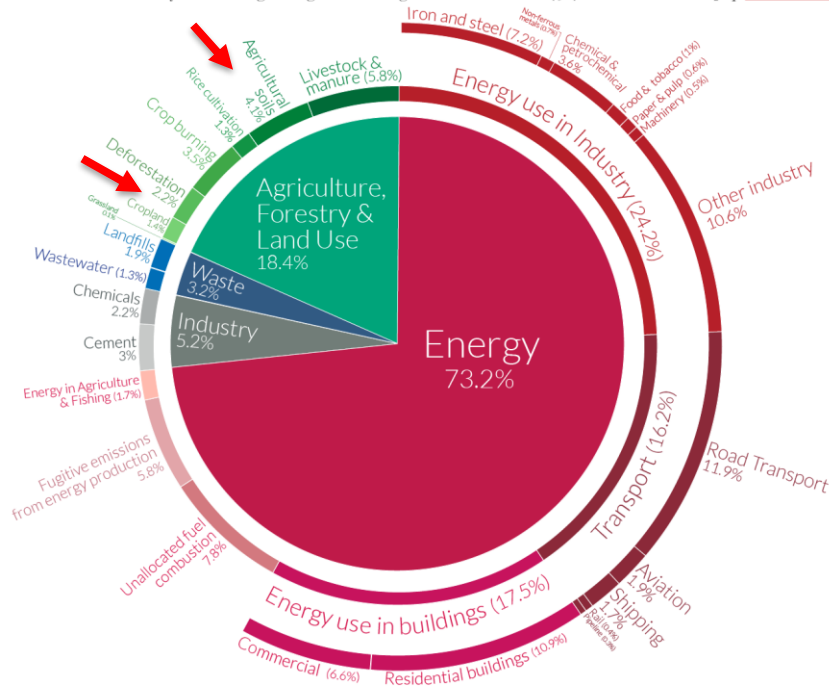


Hiilen sidonnan sisällyttäminen tuotteiden hiilijalanjälkeen

Ilkka Leinonen
Luonnonvarakeskus

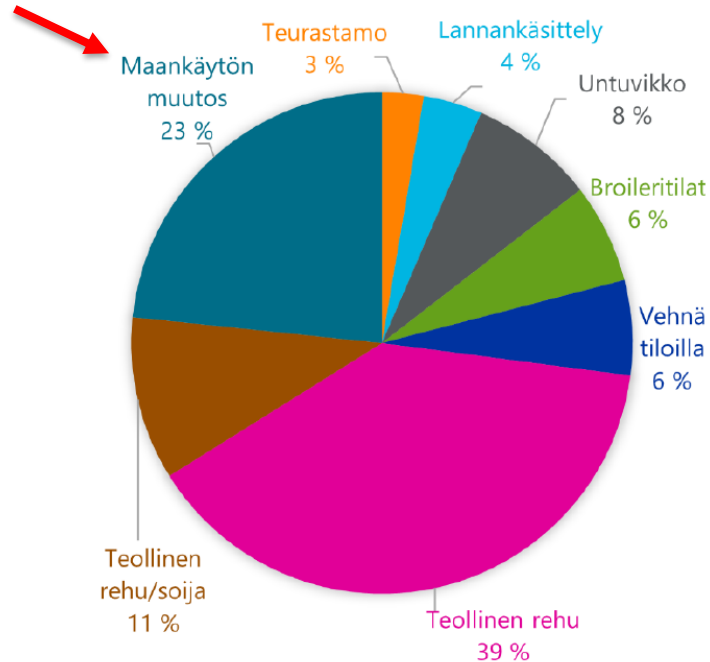
Maankäytön muutosten vaikutus kasvihuonekaasupäästöihin

Global greenhouse gas emissions by sector Our World in Data
 This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO₂eq.



OurWorldinData.org – Research and data to make progress against the world's largest problems.
 Source: Climate Watch, the World Resources Institute (2020). Licensed under CC-BY by the author Hannah Ritchie (2020).

Maankäytön muutosten vaikutus hiilijalanjälkeen: suomalainen broilerituotanto



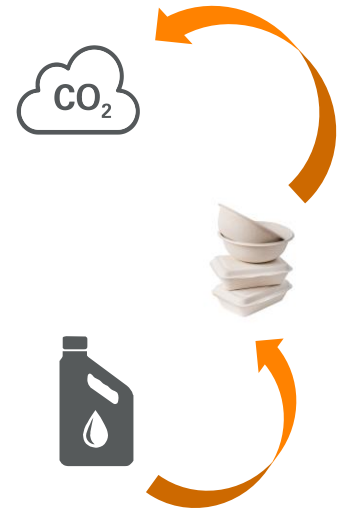
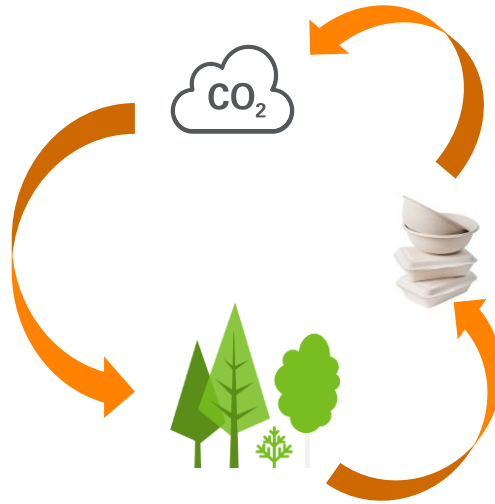
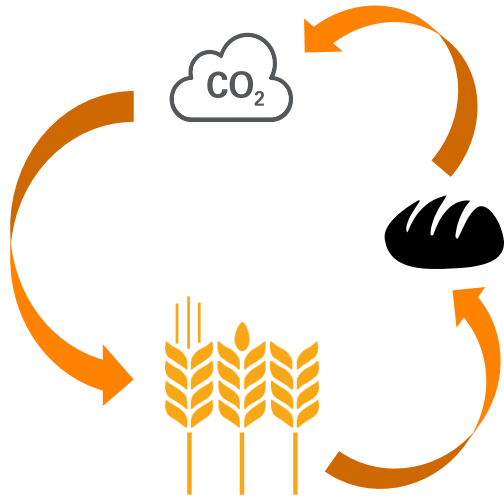
Sian- ja broilerinlihan ympäristökilpailukyky (SBYM) -hanke

Many options available now in all sectors are estimated to offer substantial potential to reduce net emissions by 2030. Relative potentials and costs will vary across countries and in the longer term compared to 2030.

Ilmastonmuutoksen hillintä: hiilensidonnan potentiaali



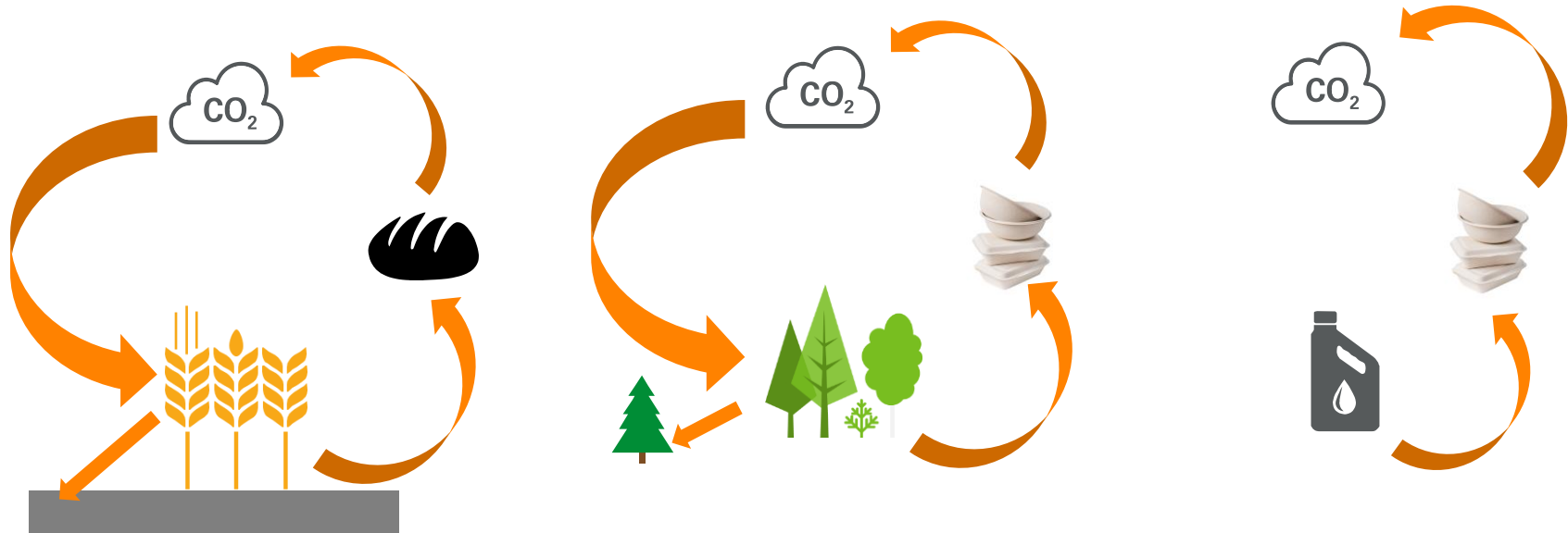
Biologinen hiilen kierto: hiilineutraali biotuotanto



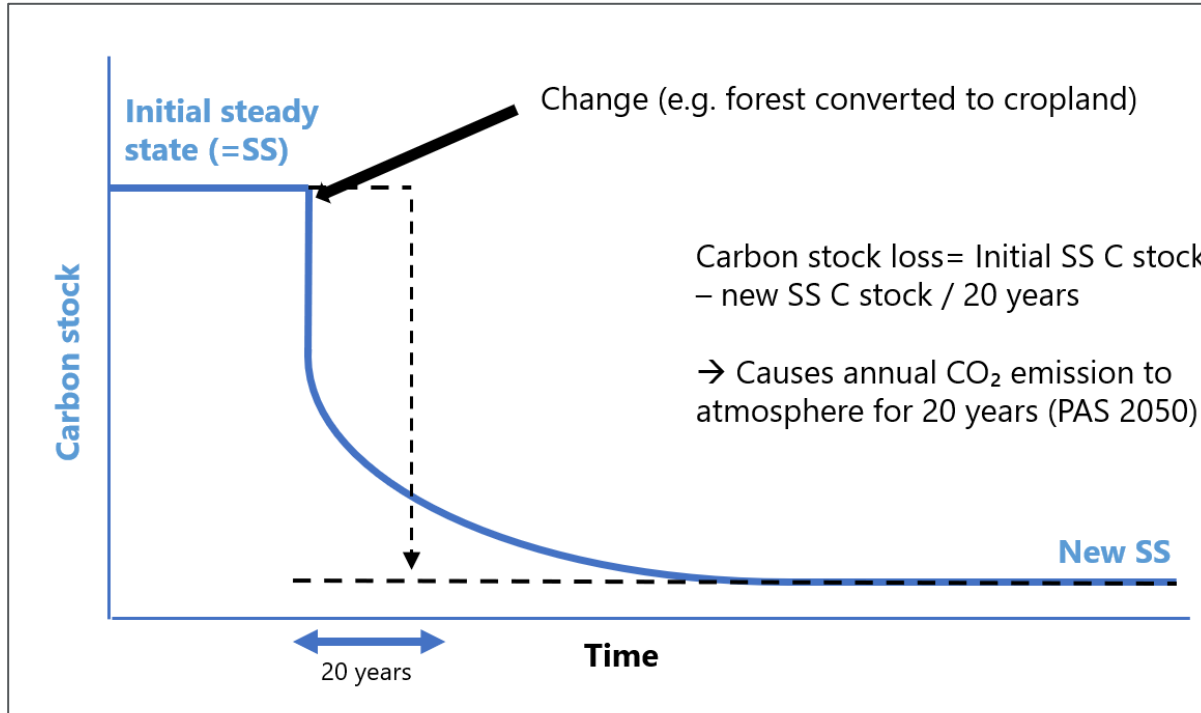
Hiilivarastojen pieneneminen: LULUC-päästöt



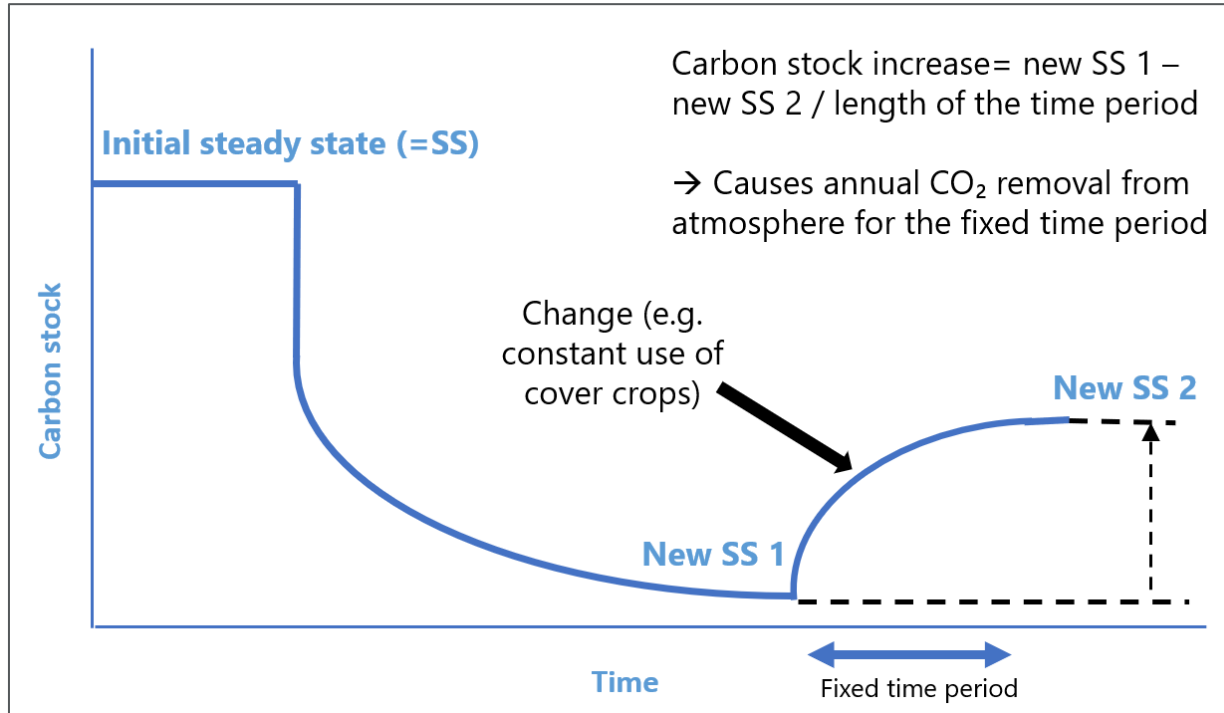
Hiilen sitominen ilmakehästä: maaperän ja kasvillisuuden hiilinielut



Maankäytön muutos LCA-laskennassa



Hiilensidonta ja LCA



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“Developing LCA methods for assessing the environmental benefits of biobased products, raw materials and side streams” (Bio-LCA)

<https://www.luke.fi/en/projects/biolca>

“Modulaarisuus ja digitaalisuus, avaimet luotettavaan ja kustannustehokkaaseen LCA-laskentaan ruokaketjussa” (Modi-LCA)


<https://www.luke.fi/fi/projektit/modilca-01>

The International Journal of Life Cycle Assessment
<https://doi.org/10.1007/s11367-022-02086-1>

COMMENTARY AND DISCUSSION ARTICLE



A general framework for including biogenic carbon emissions and removals in the life cycle assessments for forestry products

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