



Framtidens material – Hållbart, smart, förnybart

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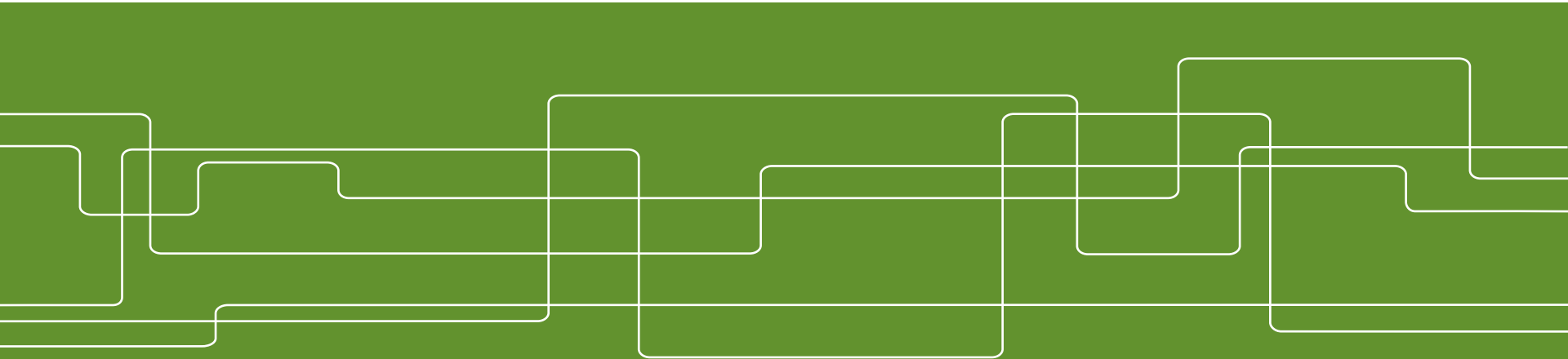
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Föreståndare Tresearch

Mekanik

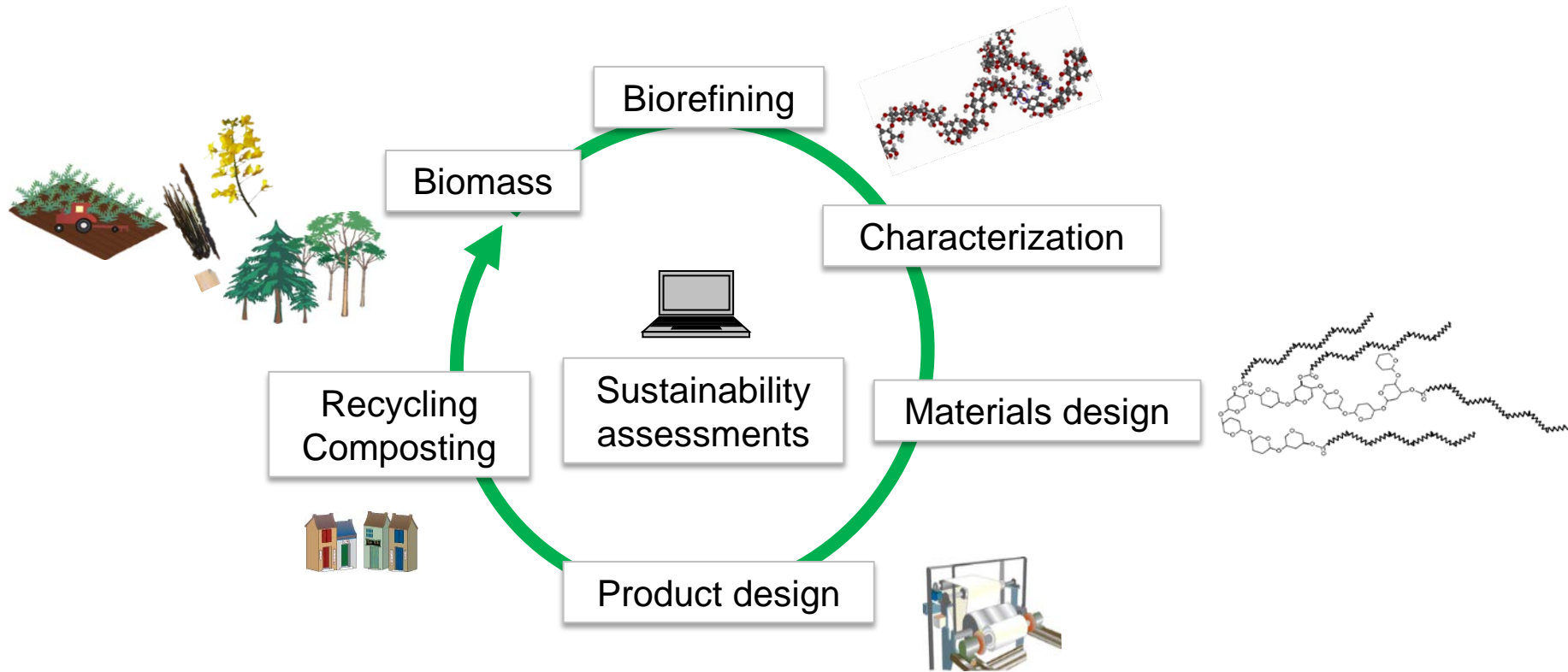


Biobased materials research address UN Sustainable development goals

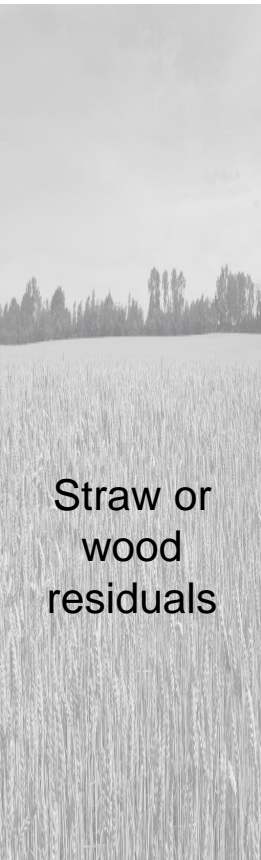


“Doing more and better with less”
Circular economy
Bio-based materials

Biobased materials research – An holistic approach

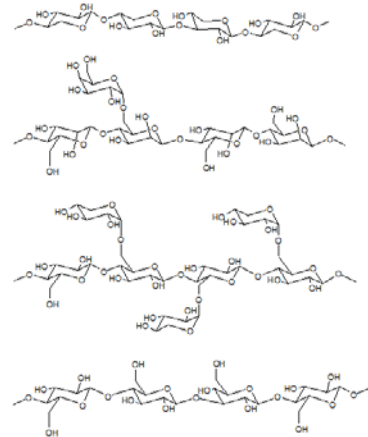


An example of biomass as a feedstock for smart and biobased materials: Bioplastics from hemicelluloses

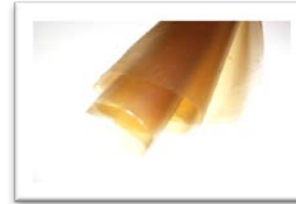


Straw or
wood
residuals

Biorefining



Hemicelluloses



Bioplastics, Coatings, Composites



Products

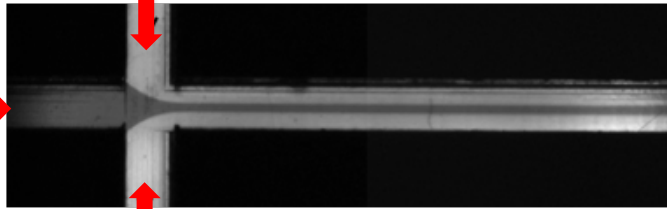
The worlds strongest biobased material: Fibres spun from nanocellulose



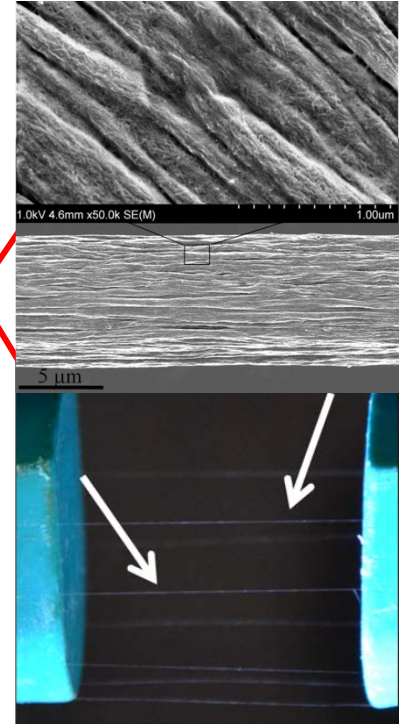
Nanocellulose



$H_2O + \text{salt or } H^+$



$H_2O + \text{salt or } H^+$



Biobased materials research - Challenges

Green processes – not just a green feedstock

Biodegradability?

Waste management?

Market implementation and consumer acceptance

