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LCANZ Summit 27th November 2019



Carbon MUST stay in the ground

From 2010 to 2050 To meet the target of



Fossil Carbon has to remain unused







World plastics production 2018

40.000 Eiffel Towers

The puddled iron (wrought iron) of the Eiffel Tower weighs 7,300 tons, and the addition of lifts, shops and antennae have brought the total weight to approximately 10,100 tons. https://en.wikipedia.org/wiki/Eiffel Tower

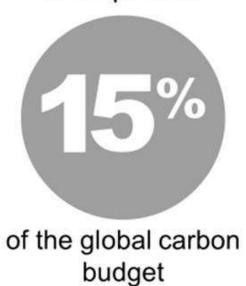


In 2018, world plastics production totaled around 359 million metric tons. https://www.statista.com/statistics/282732/global-production-of-plastics-since-1950/



Plastics challenge – more than a waste challenge

Without significant intervention, by 2050 plastic production will represent

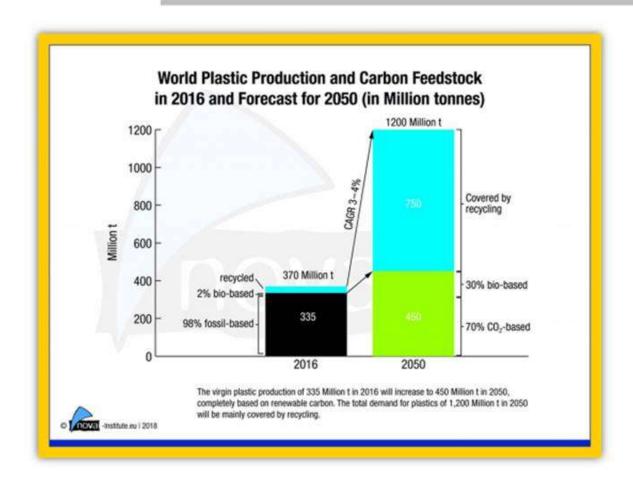






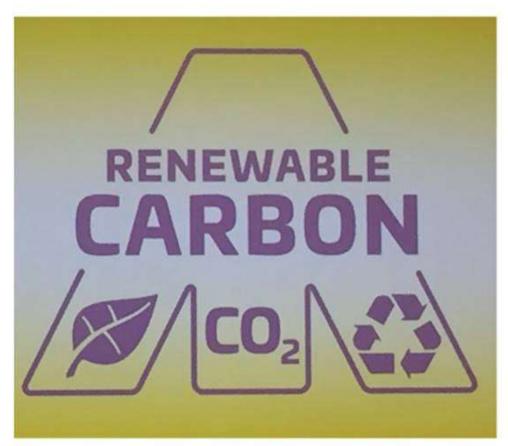
Scenario - World plastics production 2050

120.000 Eiffel Towers





Three Sources of Renewable Carbon



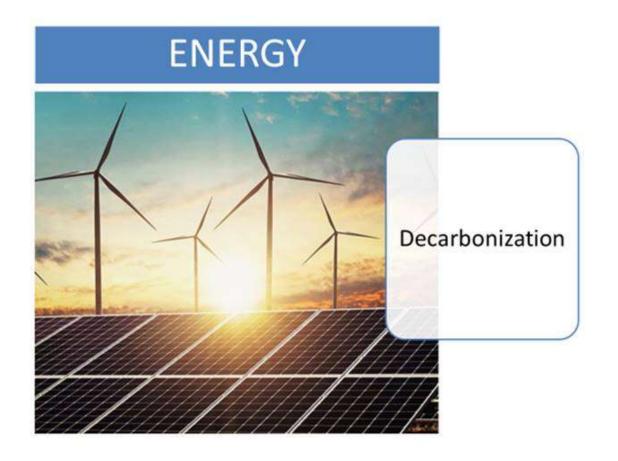


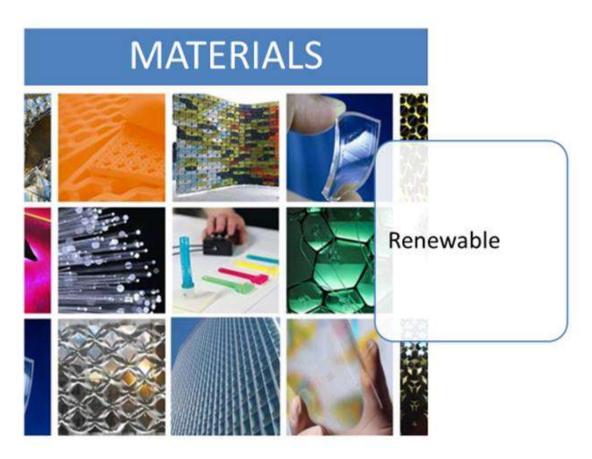






The Consequences







Scion - making impact three ways



Forests and landscapes



High-value timber manufacturing and products



Biobased manufacturing and products



Circular carbon capture, use and recycling

Forests and landscapes

Forest Systems
Forest Protection
Forest Genetics
Forest Industry Informatics



High-value timber manufacturing and products

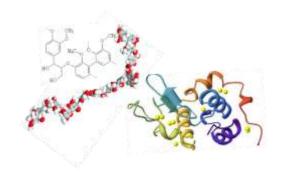
Wood and Fibre



Biopolymers and Chemicals Biotransformation Clean Technologies



Ligate™

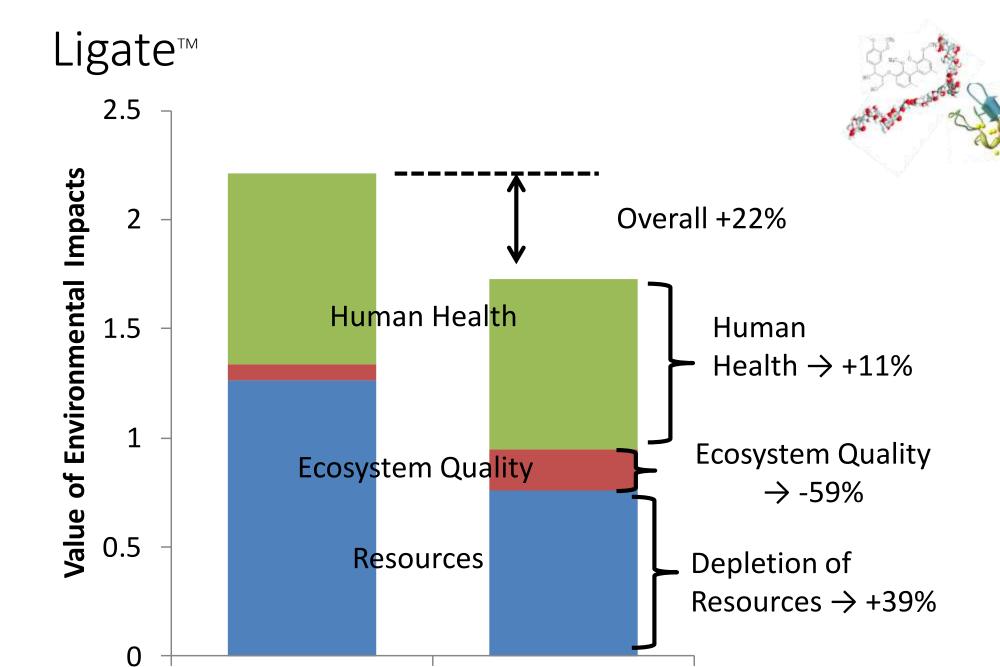












Bioadhesive

UF resin



SCION™





SCION New Plastics Economy Roadmap

In collaboration with









Take home messages

 It is not easy to make the right choice – but we can make an informed choice

We are in a transition period

Designers play the major role in sustainability

Thank you!

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Prosperity from trees Mai i te ngahere oranga