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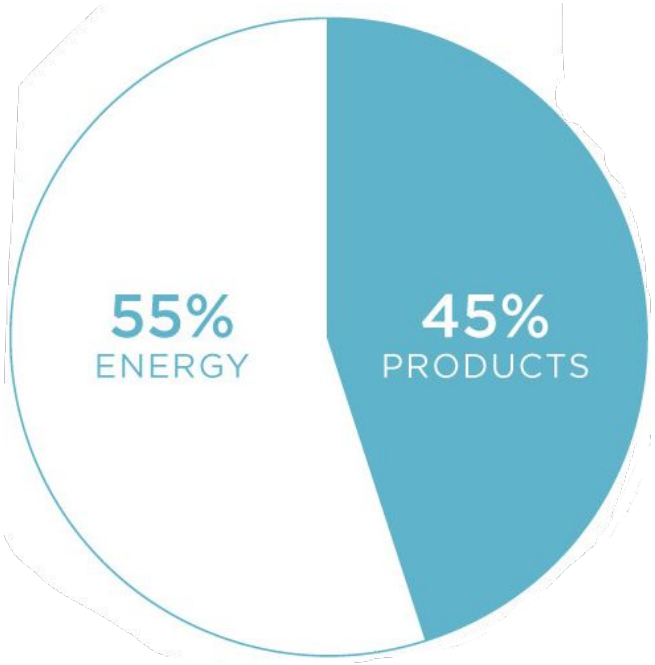
Completing the picture: How the circular economy tackles climate change

Circular Economy Stakeholder Workshop – Climate Action Innovation Fund

December 3 - , 2019

An incomplete picture?



TOTAL CURRENT EMISSIONS

Energy

- Energy systems
- Energy for transportation
- Energy for buildings

Products

- Agriculture, Forestry, Other Land Use
- Industry (material production)

Applying the circular economy in just five key areas (cement, plastics, steel, aluminum, food) can remove nearly half of these remaining emissions

9.3 billion tonnes in 2050

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The equivalent of eliminating current emissions from all forms of transport globally

Design out waste and pollution **to reduce GHG emissions across the value chain**

- Designing for circularity
- Eliminating waste
- Substituting materials

Keep products and materials in use **to retain the embodied energy in products and materials**

- Reusing products and components
- Recirculating materials

Regenerate natural systems **to sequester carbon in soil and products**

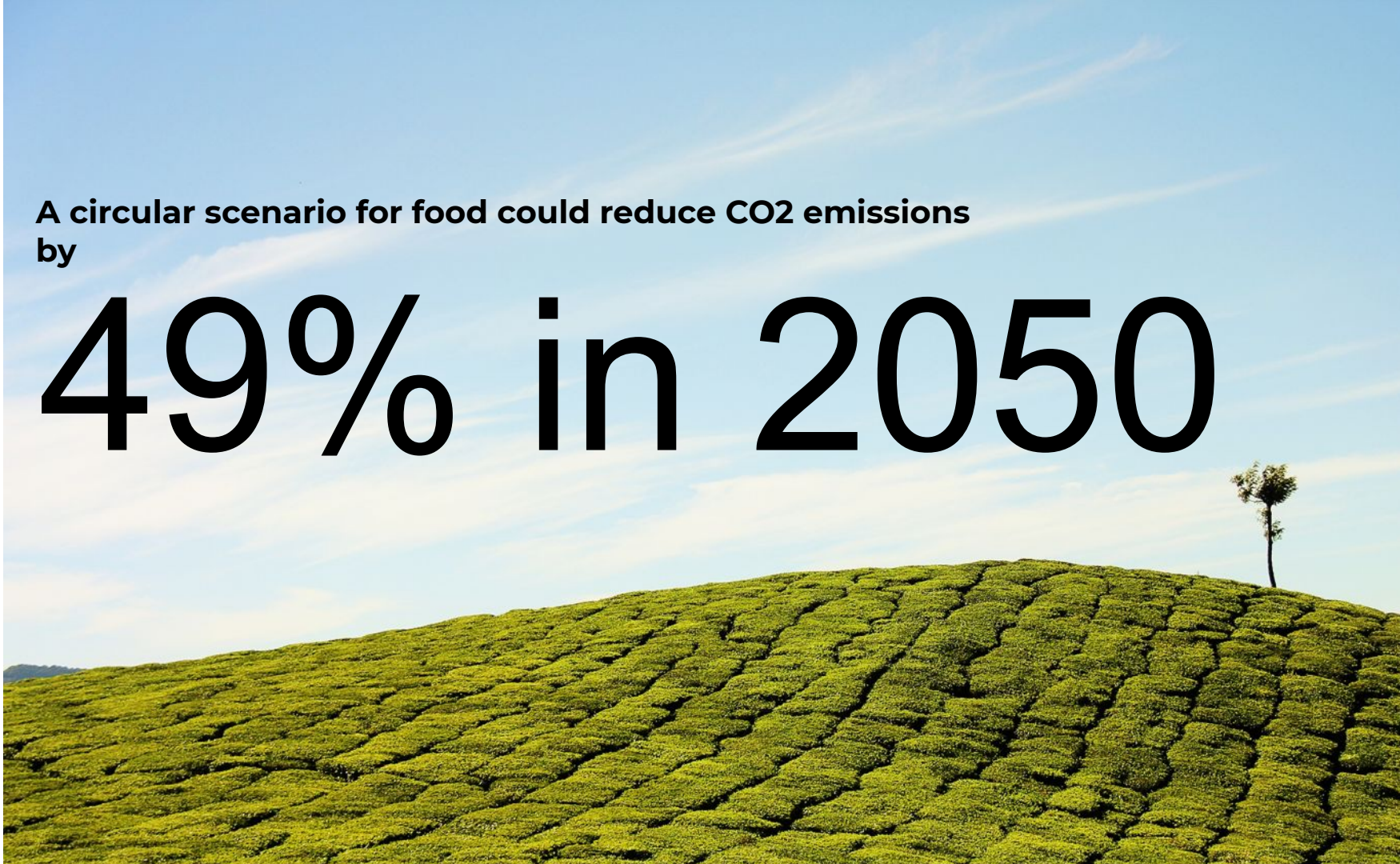
- Regenerative agriculture

A circular scenario for the built environment could reduce CO2 emissions by

38% in 2050

A circular scenario for passenger cars could reduce CO_2 emissions by

70% in 2050


A circular scenario for food could reduce CO2 emissions by
49% in 2050

Underpinned by a transition towards renewable energy, a circular economy can help complete the picture by also tackling the overlooked emissions.

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THANK YOU
Eline Boon