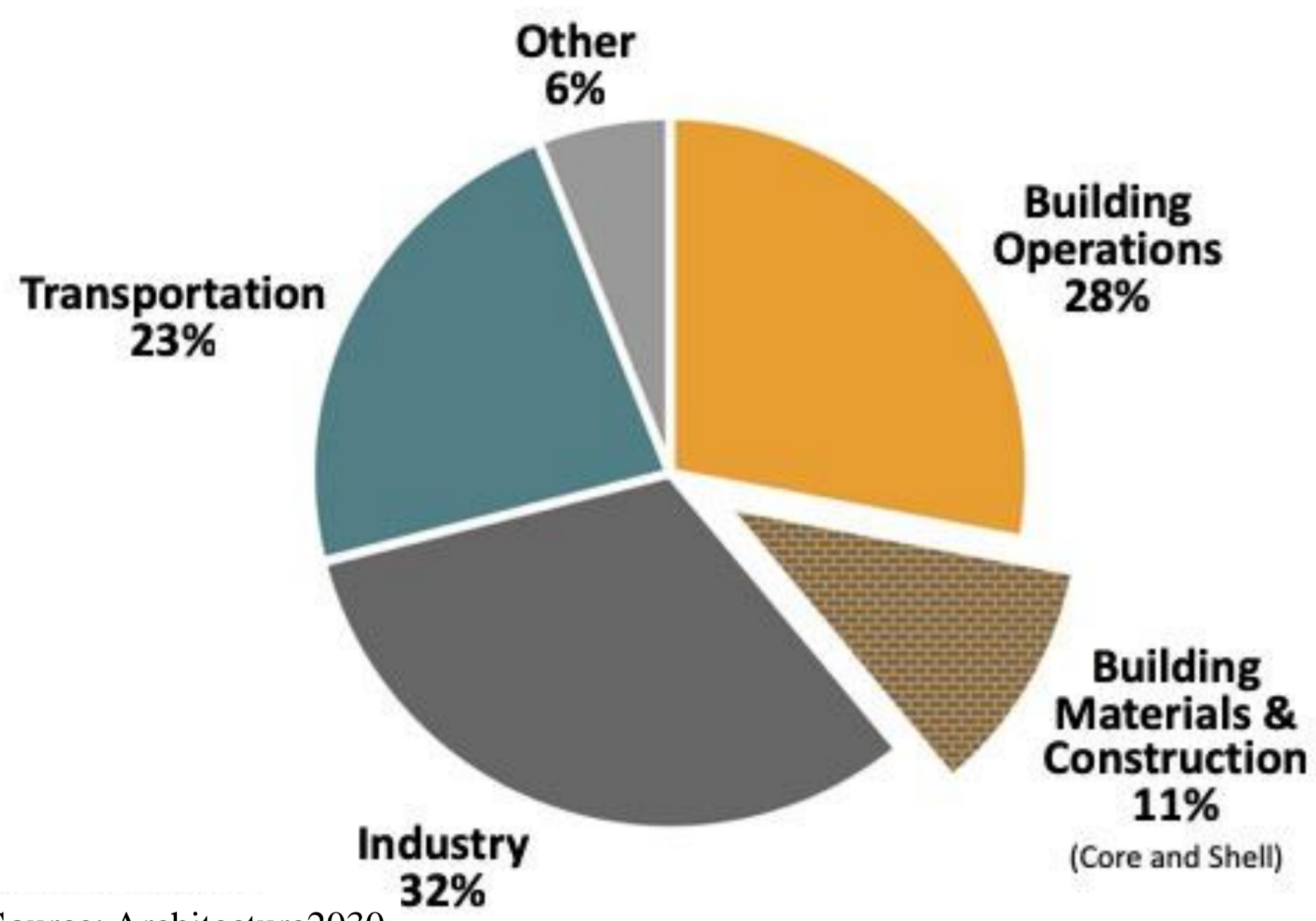


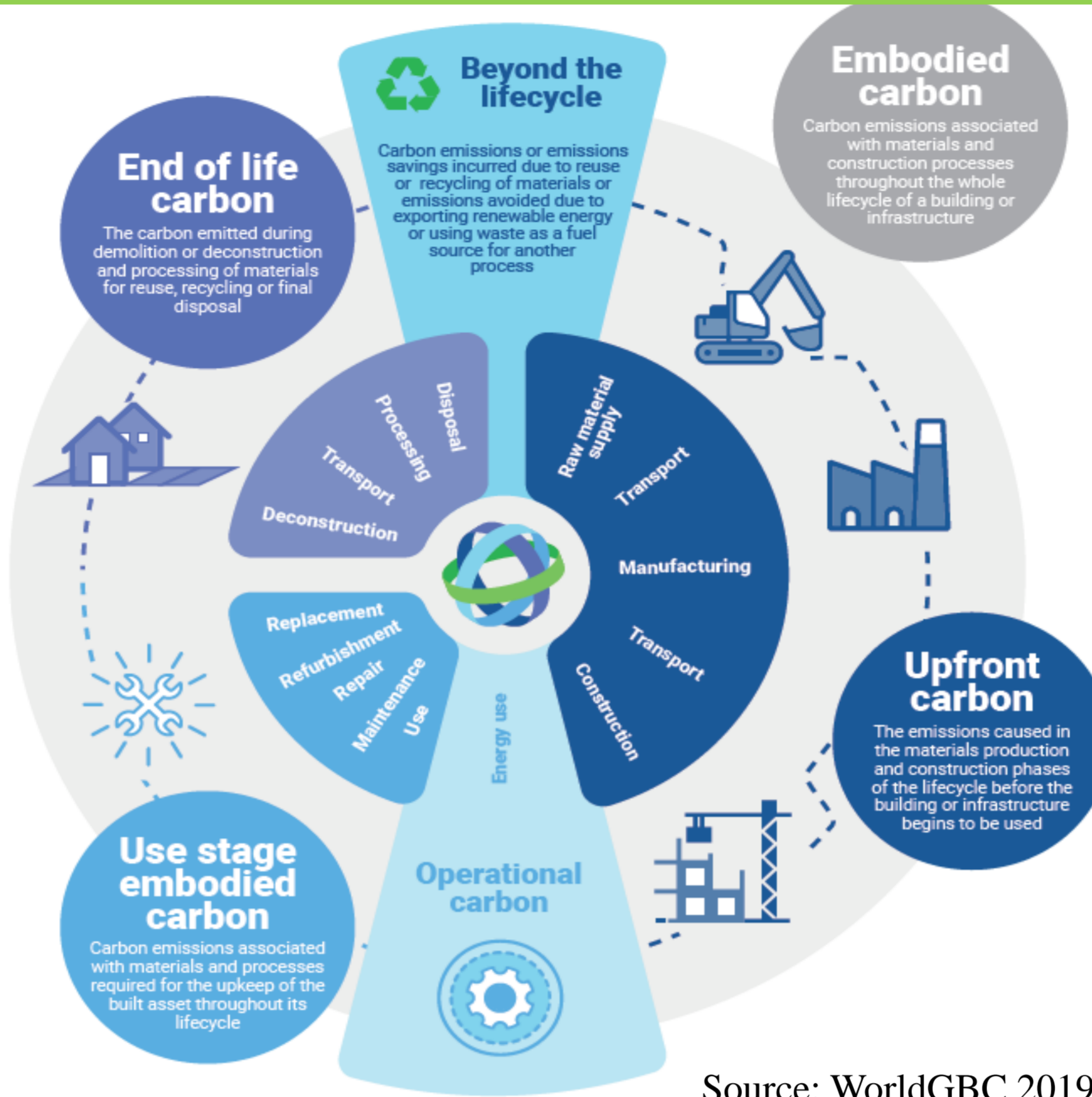
Alkali Activated Materials A GREEN SOLUTION TO OPC?

ENVIRONMENTAL IMPACT OF CONCRETE

Global CO₂ Emissions by Sector

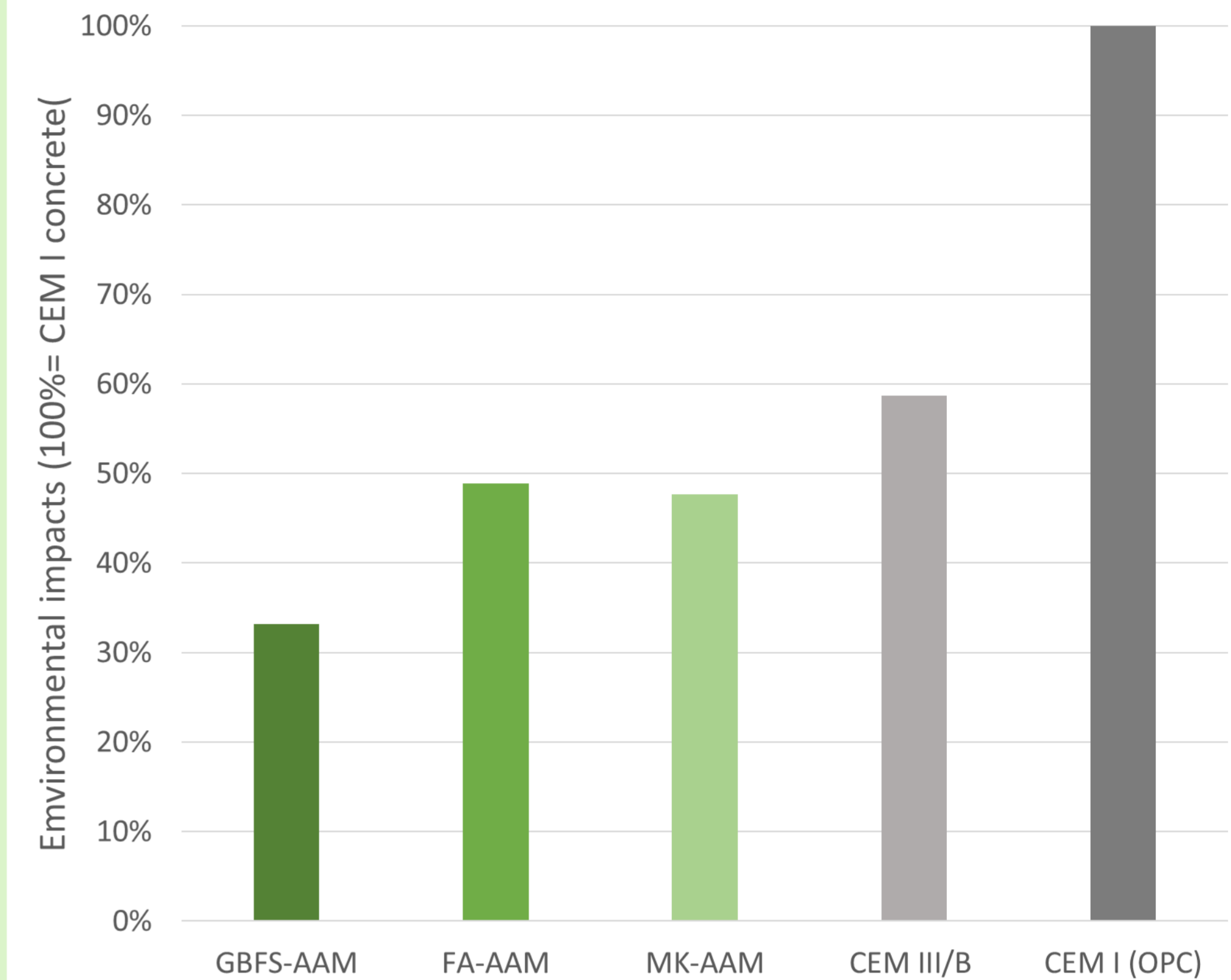


Source: Architecture2030



Source: WorldGBC 2019

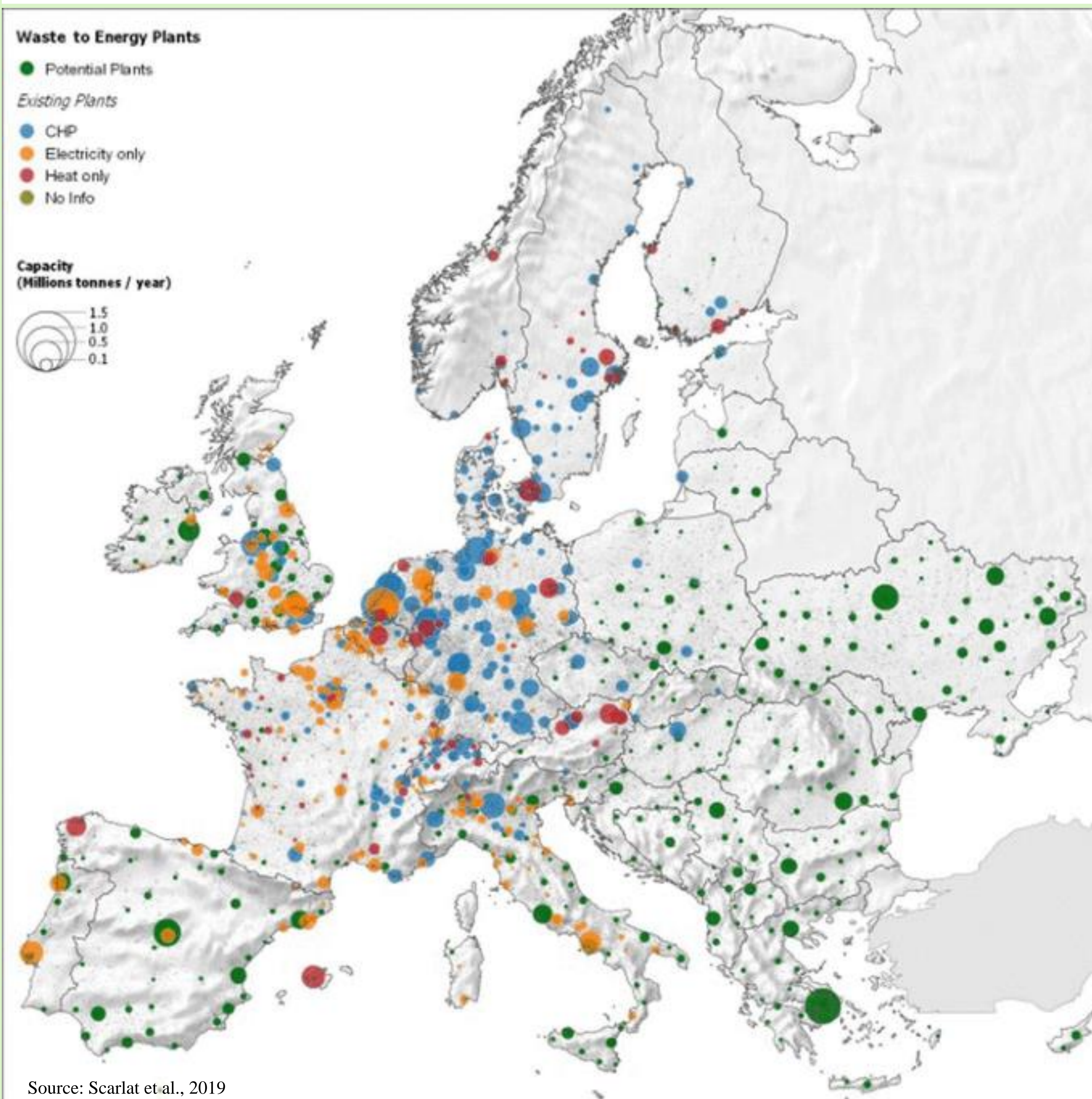
GWP (CO₂ eq.)



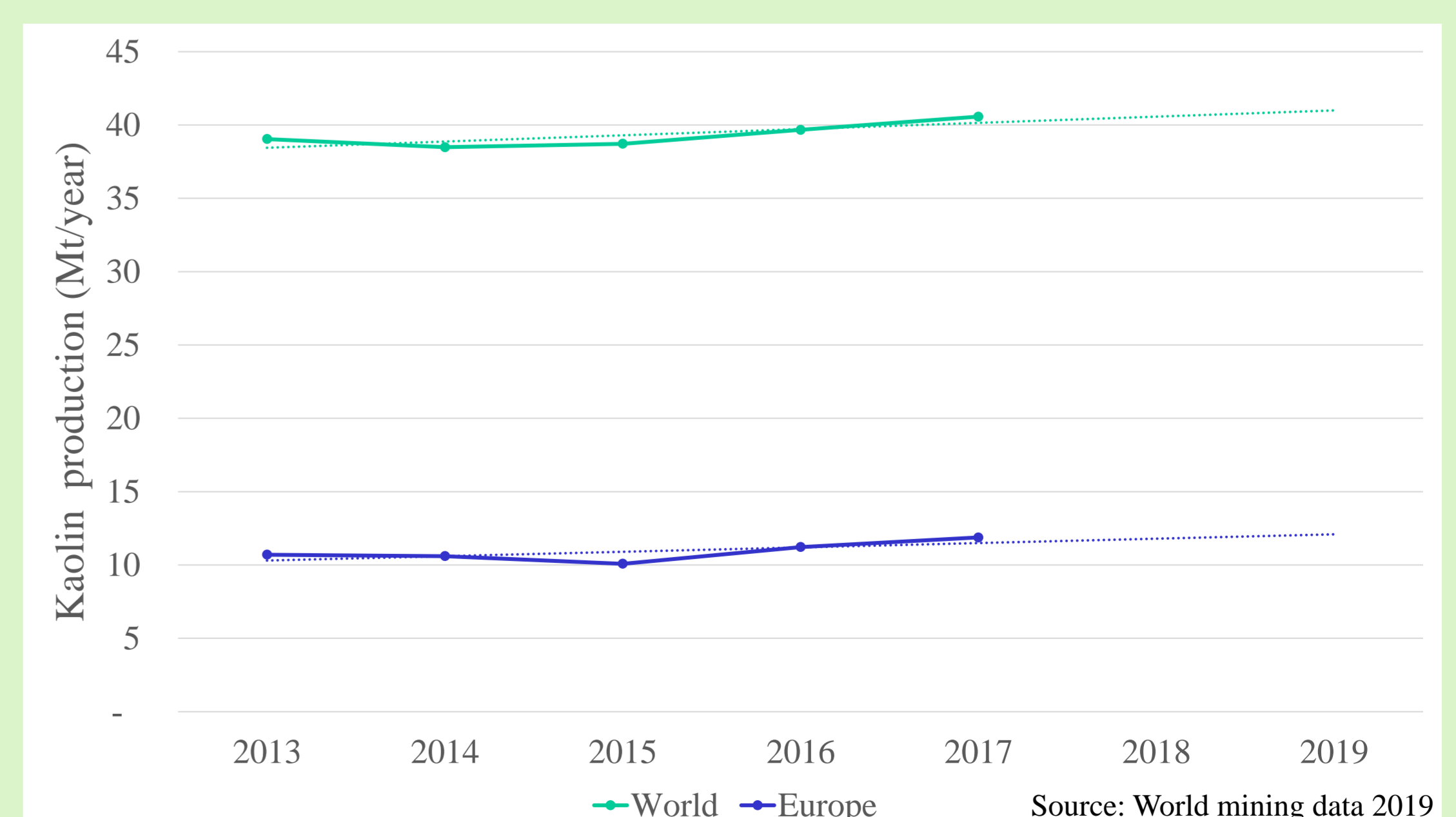
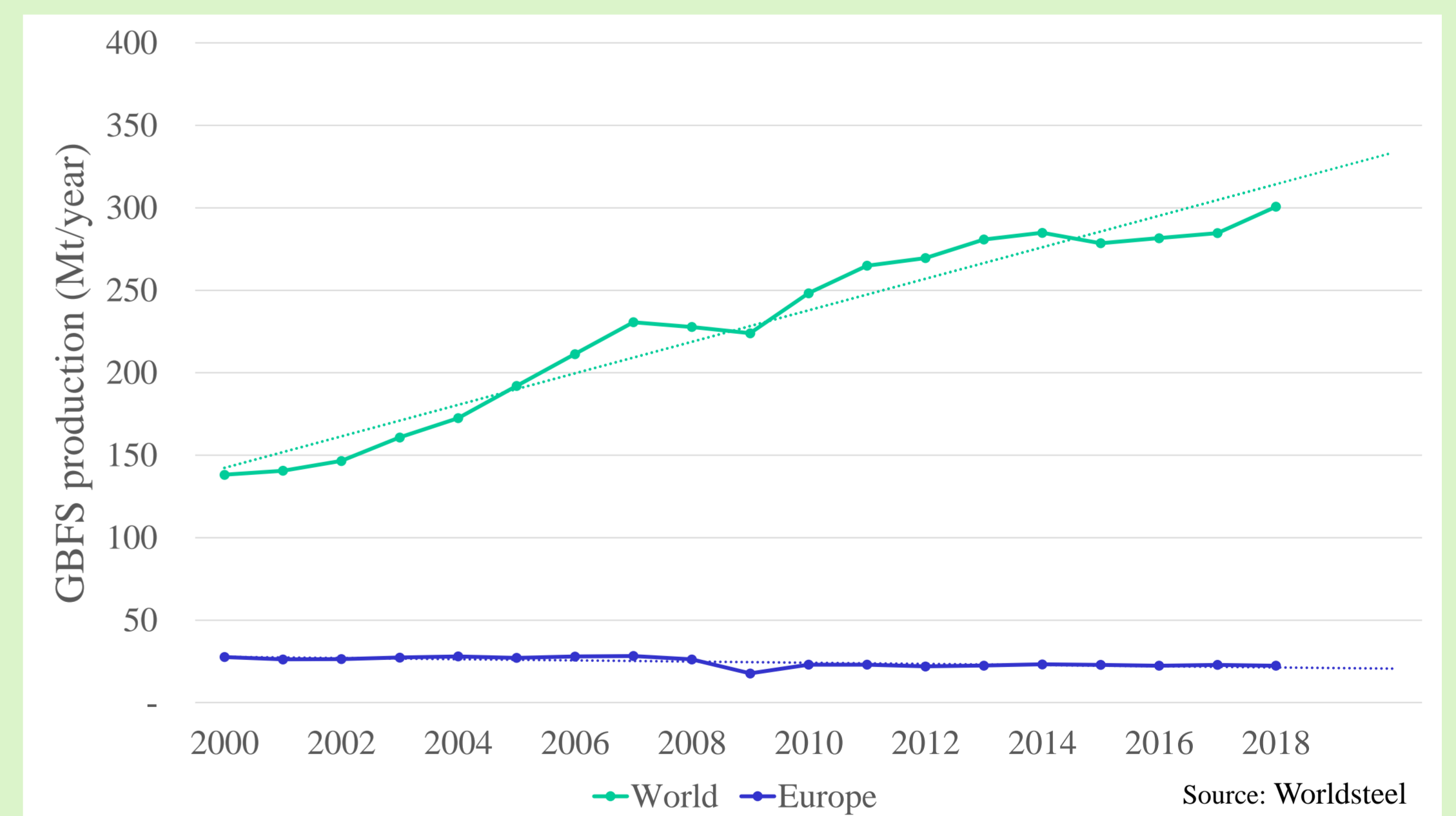
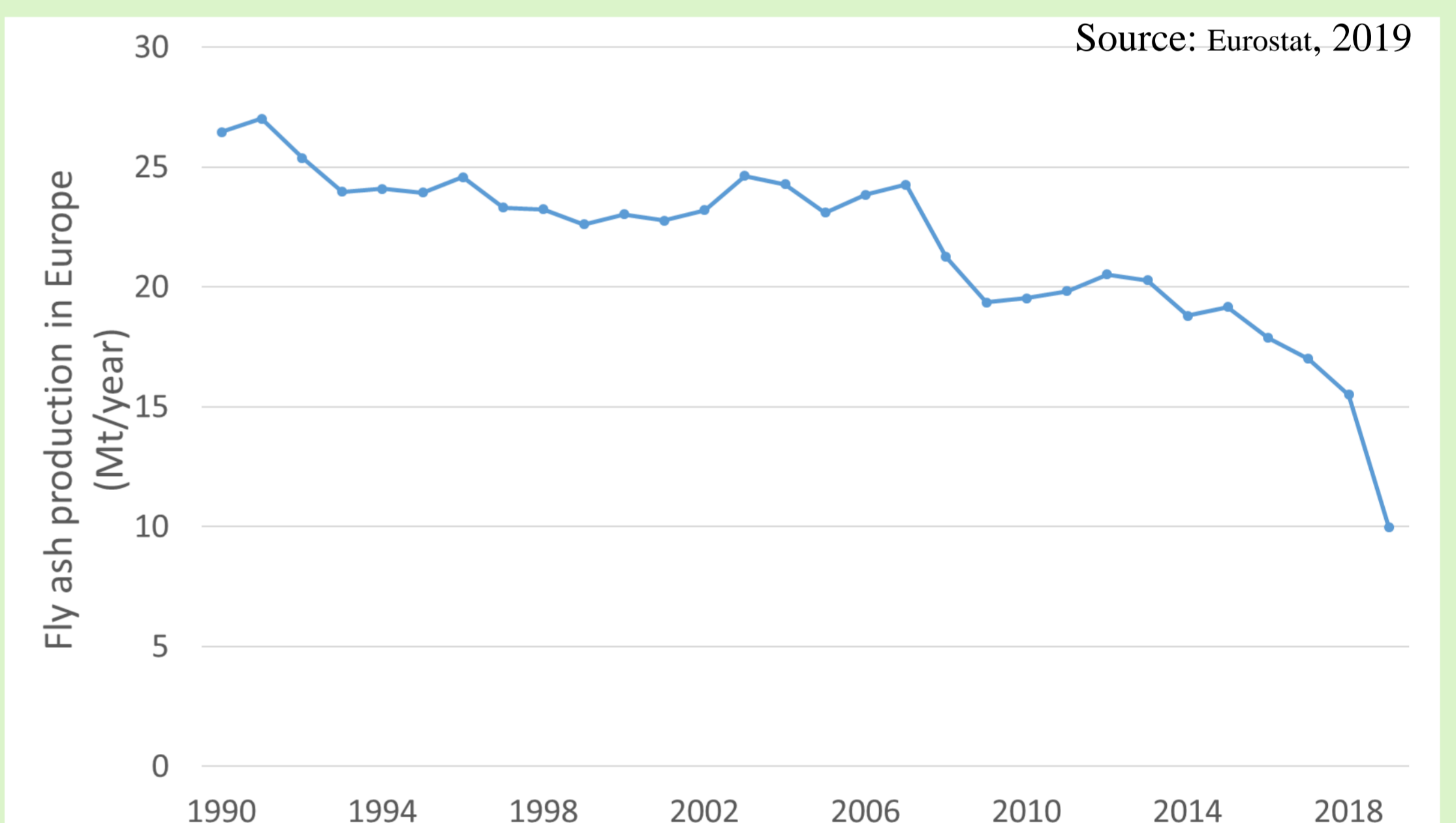
AAMs PRECURSORS AND PRODUCTION IN EUROPE



Availability of traditional precursors is diminishing in Europe, therefore there is a need to explore alternative waste materials, e.g. municipal solid waste incineration ashes.

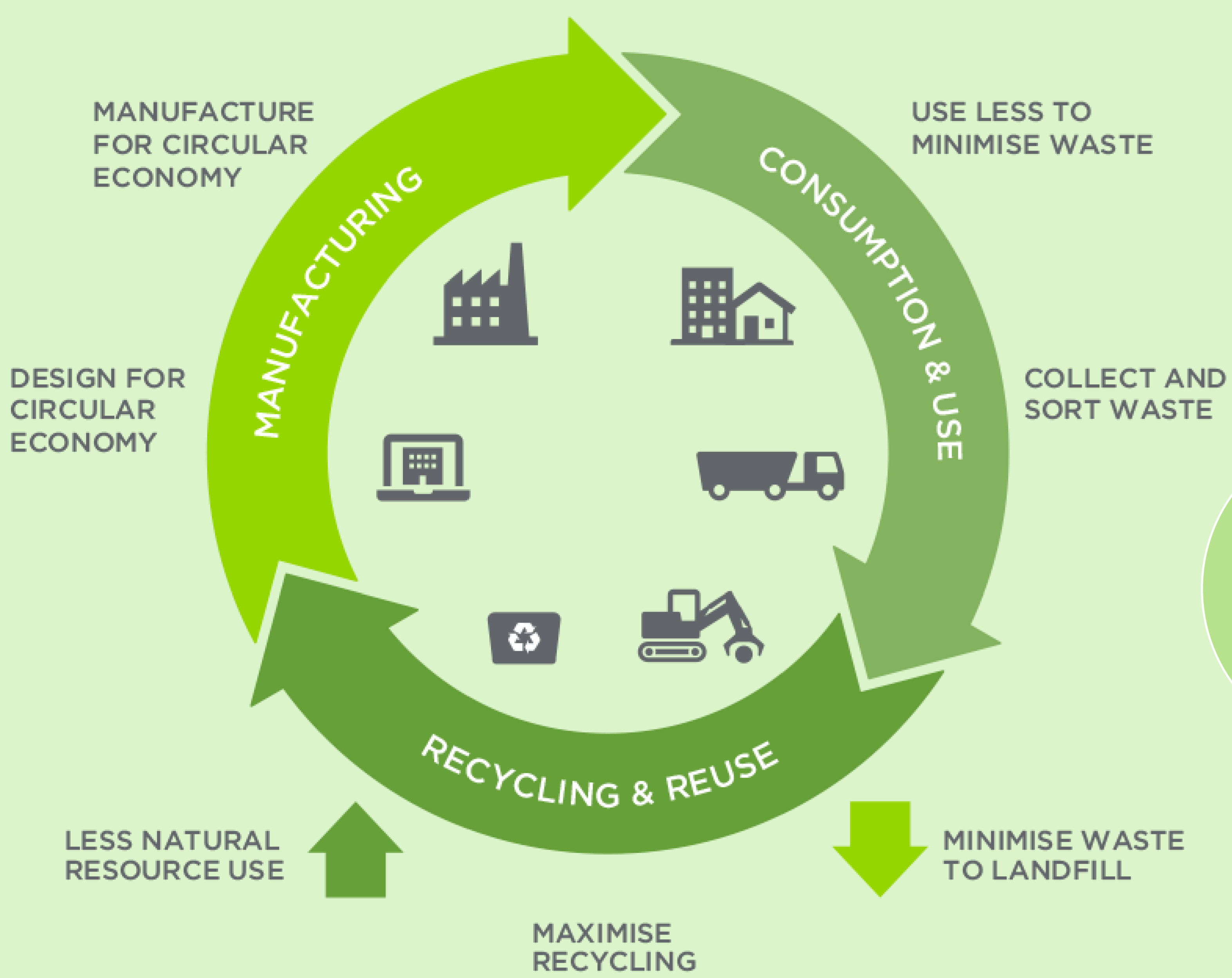


Source: Scarlat et al., 2019

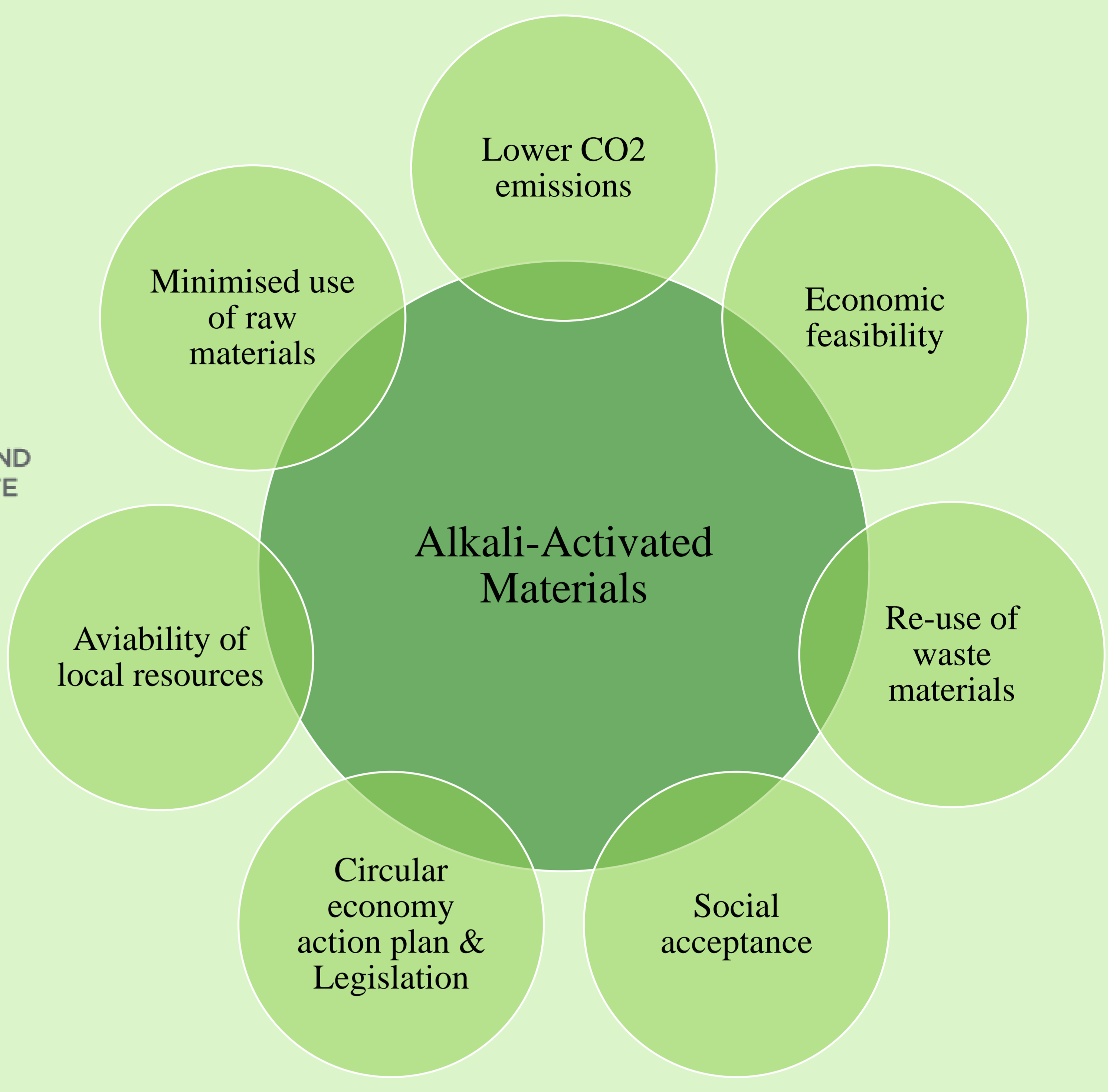


Alkali Activated Materials APPLICATION WITHIN CIRCULAR ECONOMY

CIRCULAR ECONOMY

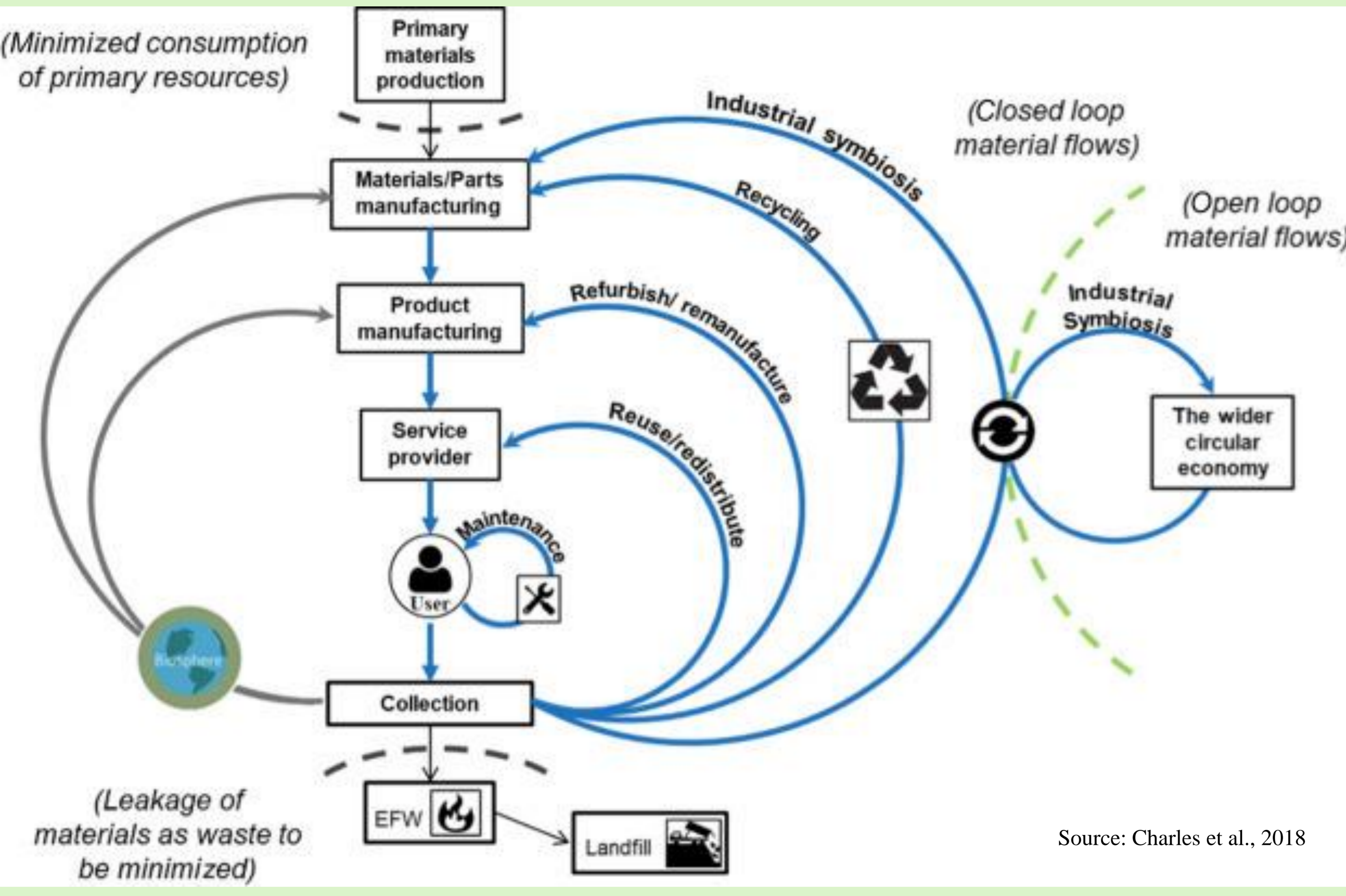


Source: Future recycling

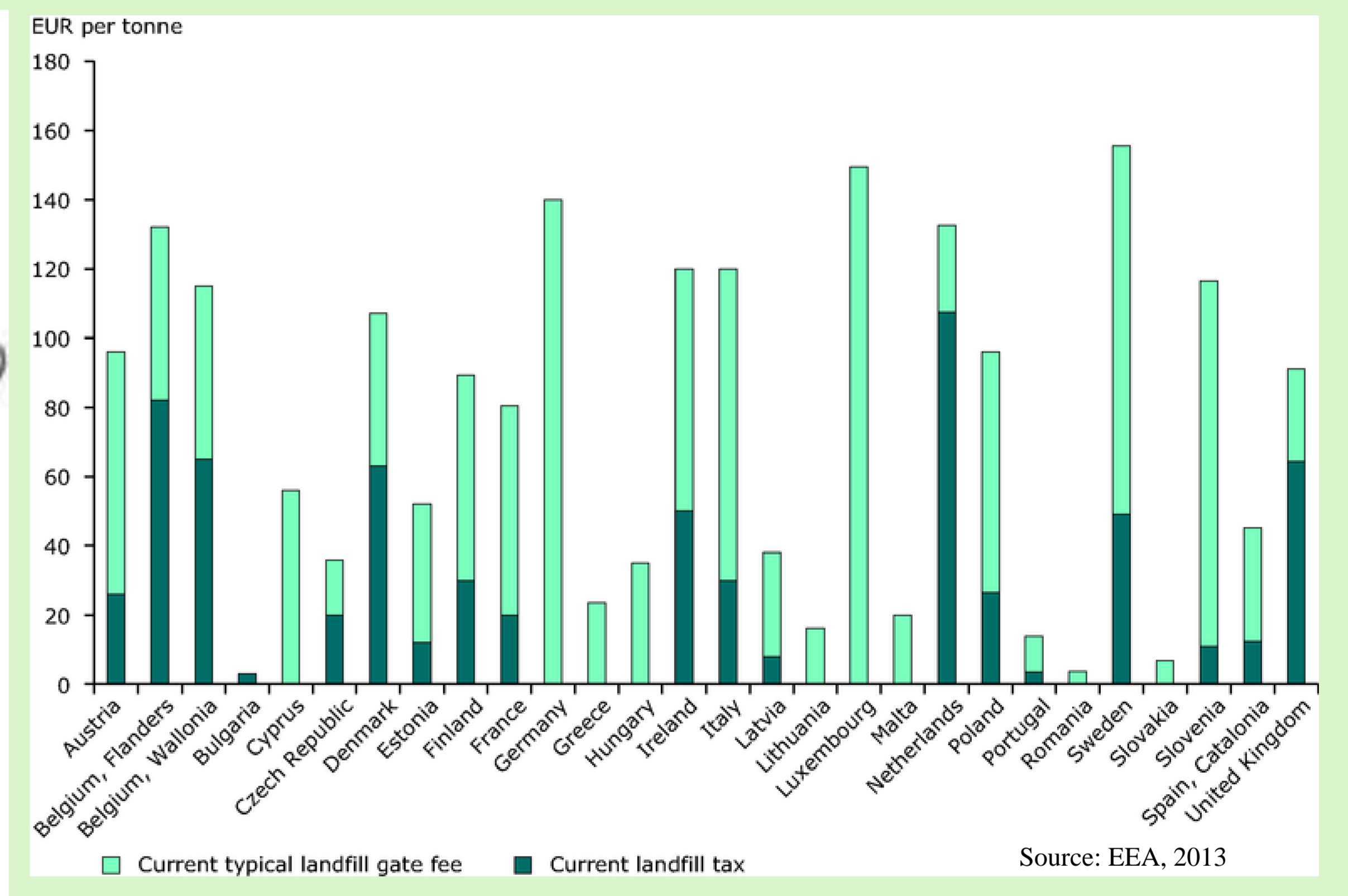


AAMs within Circular Economy foster industrial symbiosis & create new business opportunities

Landfill costs in Europe can be avoided by valorising waste materials



Source: Charles et al., 2018



The imports in EU reach 400 M. EUR, and supply of AAMs inside Europe can contribute to economic growth

