











Major topics

Urbanisation

Habitat

Infrastructure Environment





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Habitat

Infrastructure Environment



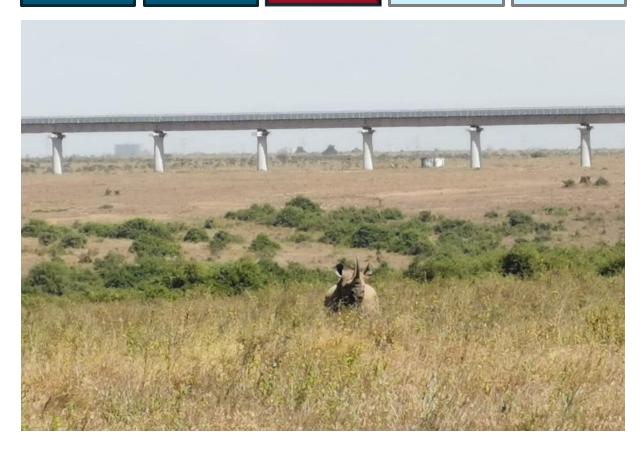


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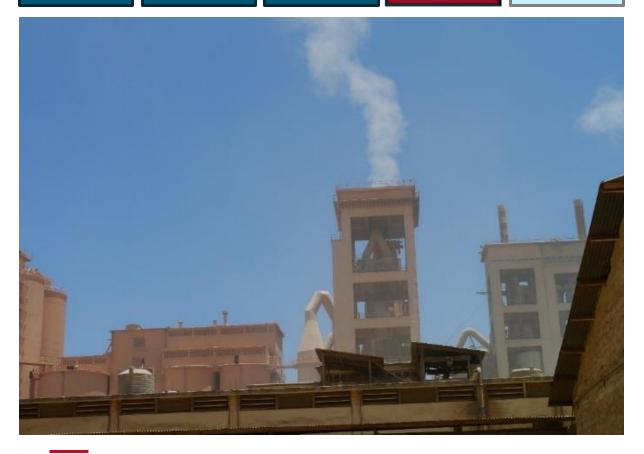


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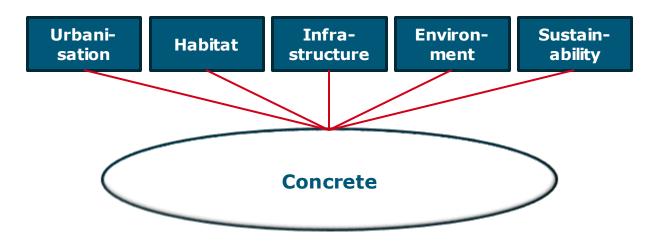
Habitat

Infrastructure Environment



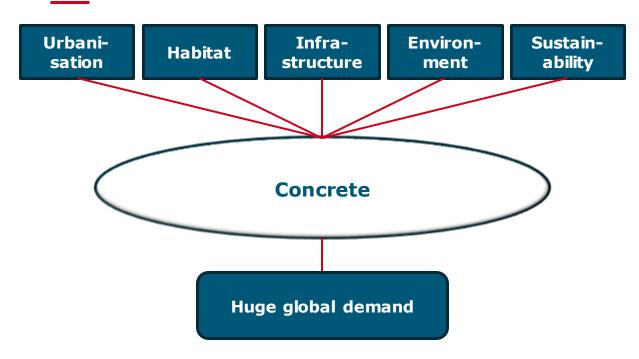


The role of concrete





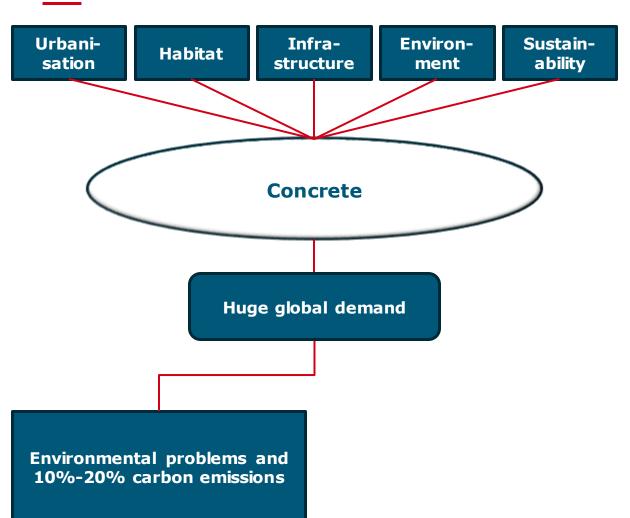
The role of concrete







The role of concrete

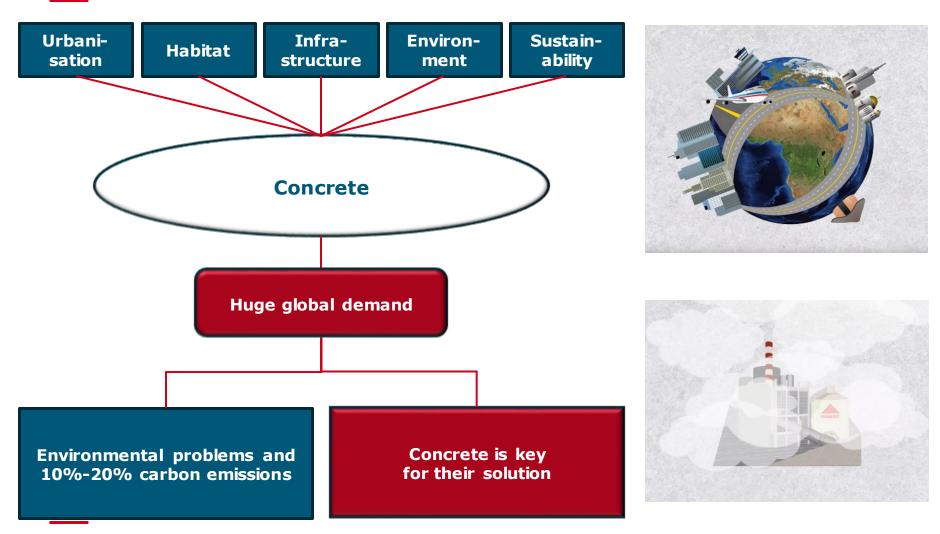








The potential of sustainable concrete





The potential of sustainable concrete

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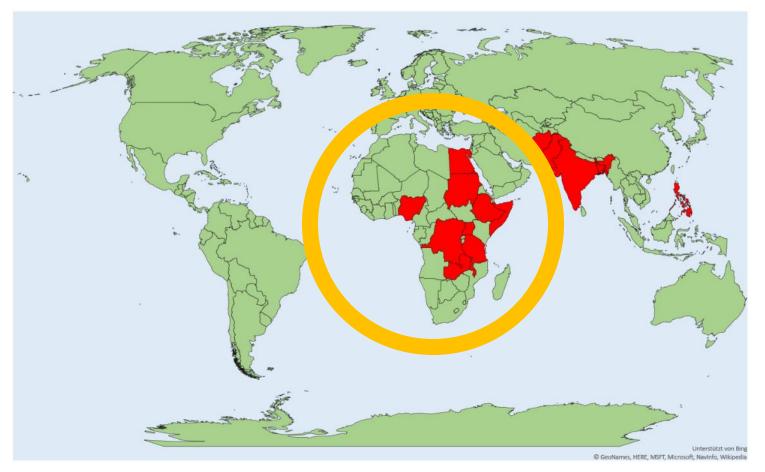


Urbanisation challenges and potentials



Projection for 2100

Countries with the 20 most populated cities in 2100

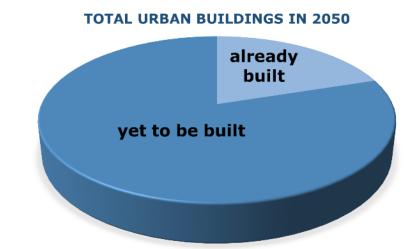


Urbanisation challenges and potentials

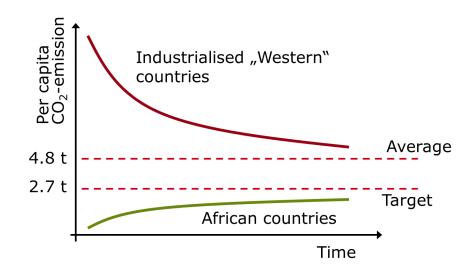


Africa's potentials

80% of all African urban buildings in 2050 have not yet been built.



Africa's carbon footprint is significantly lower than that of the rest of the world.

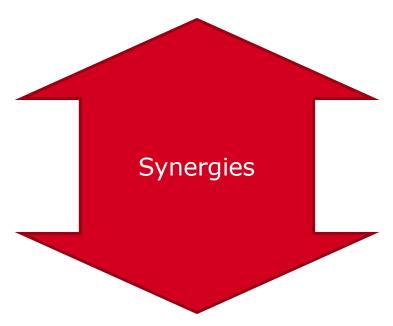


Rural to urban synergies



Need for link between urban and rural growth

Vast urban growth



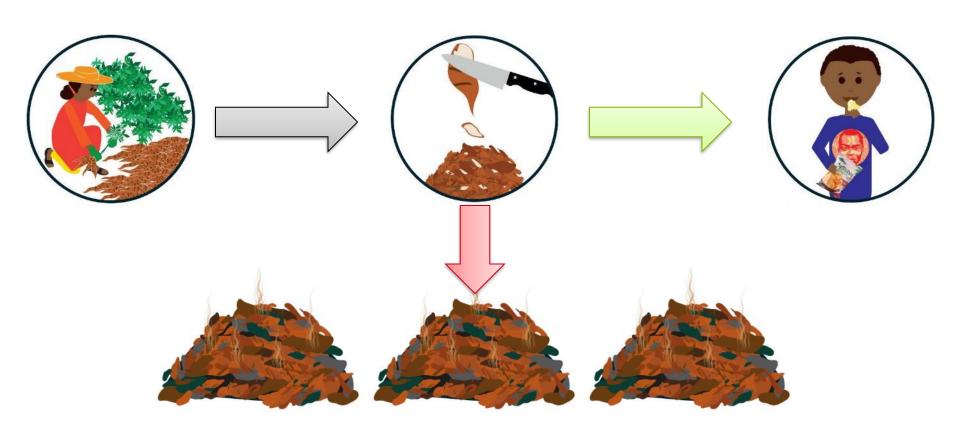
Vast agricultural potentials







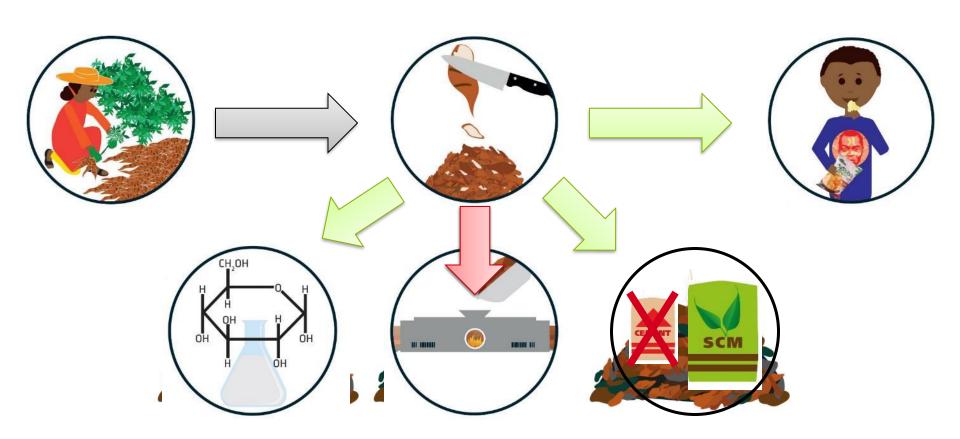
Today's process



W. Schmidt, and M. J. Barucker-Sturzenbecher, "Bio-based concrete (https://vimeo.com/310549146)," 2019, 7:51



Future potentials

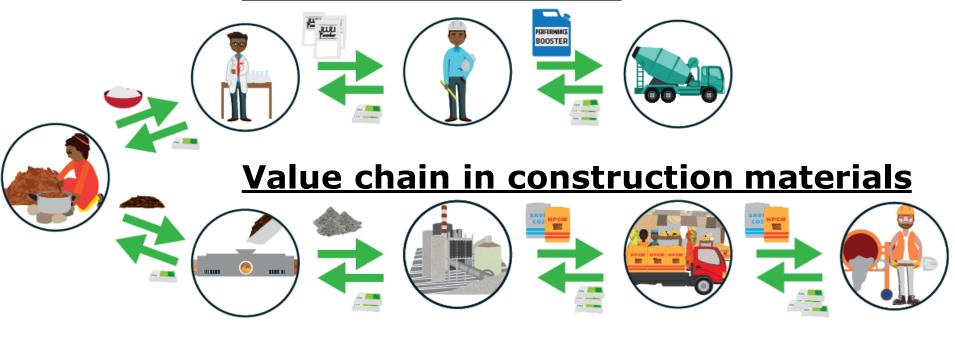


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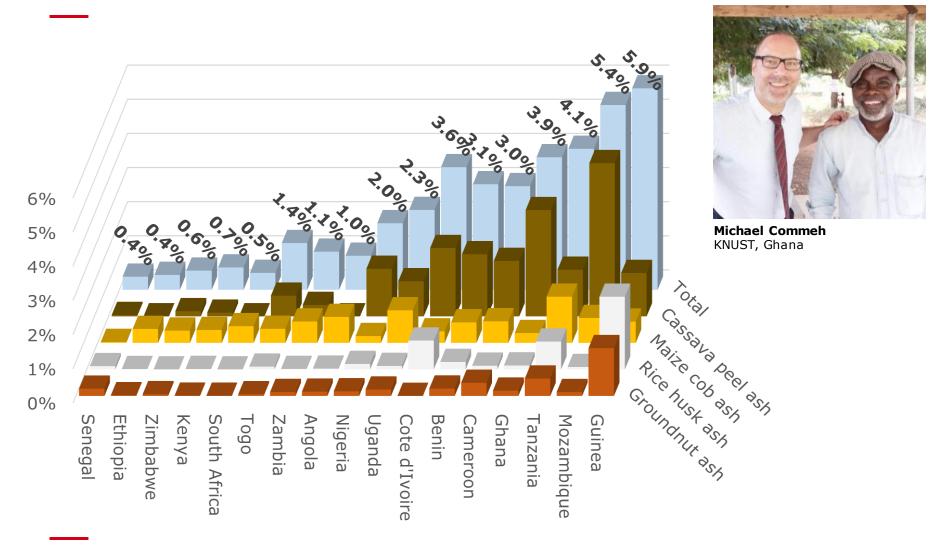
Future value chains

Chemical value chain





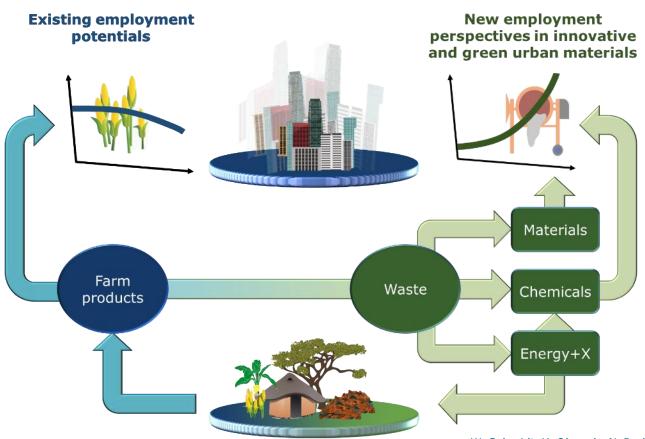
Future value chains



Conclusions



New synergistic rural to urban value chains

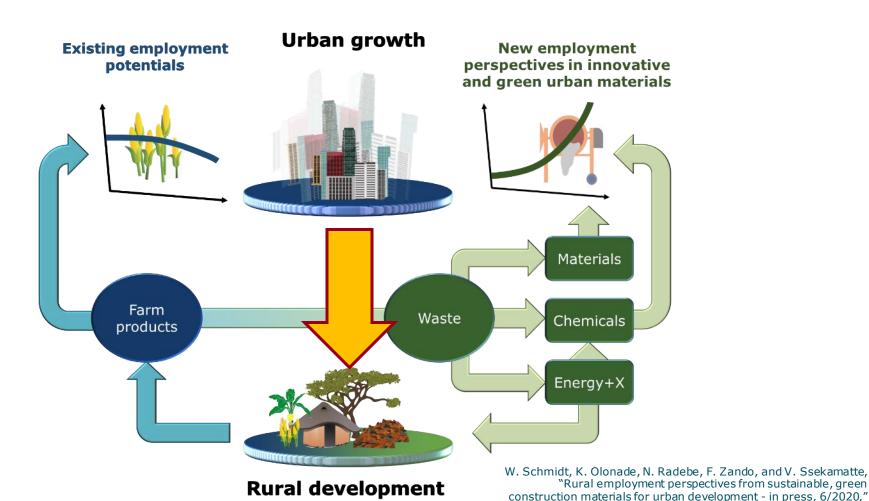


W. Schmidt, K. Olonade, N. Radebe, F. Zando, and V. Ssekamatte, "Rural employment perspectives from sustainable, green construction materials for urban development - in press, 6/2020,"

Conclusions



New synergistic rural to urban value chains



Rural 21

Summary

Subheader





Africa and the global South can pioneer green construction solutions.





