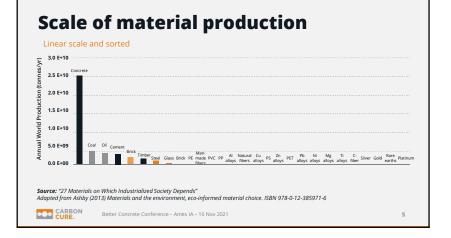
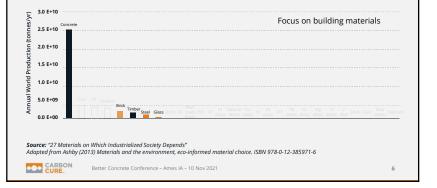
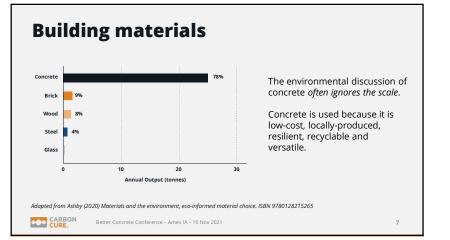


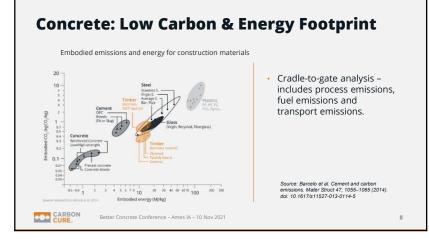
Source: "27 Materials on Which Industrialized Society Depends" Adapted from Ashby (2013) Materials and the environment, eco-informed material choice. ISBN 978-0-12-385971-6

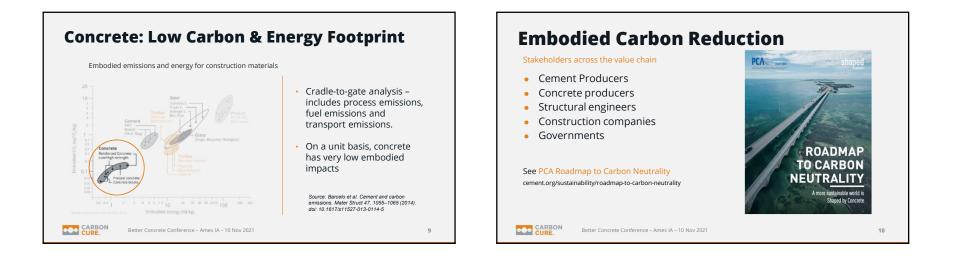


## Scale of concrete production



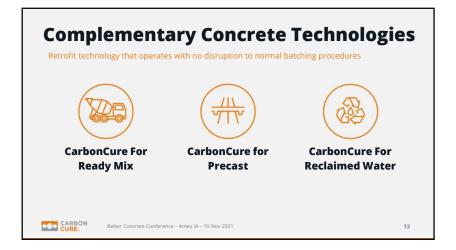


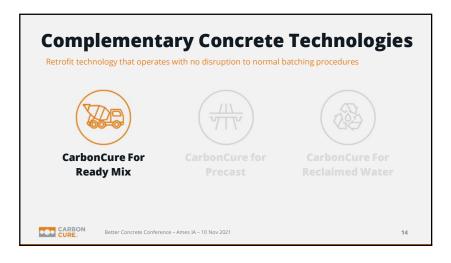




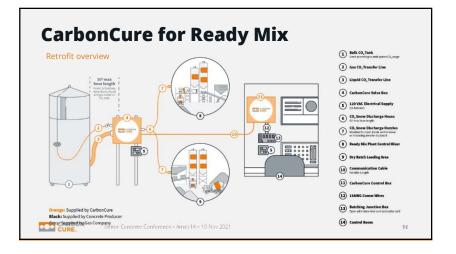


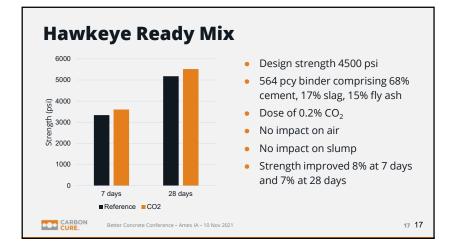




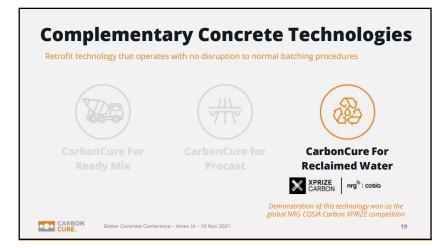


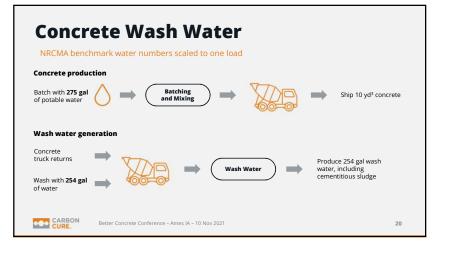












Wash water is a **waste product from concrete production** and presents an ongoing **logistical**, **material and economic challenge for producers**.



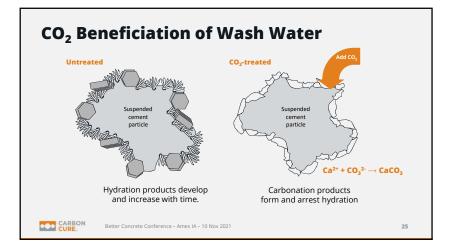


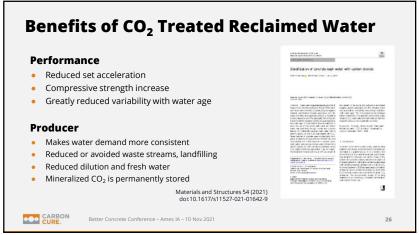


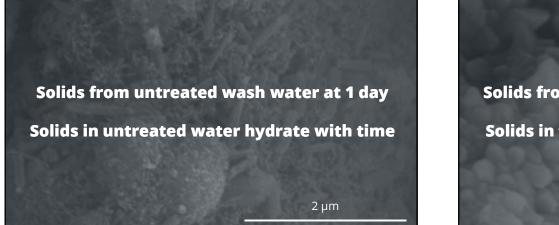
### Recycling Concrete Wash Water as Mix Water

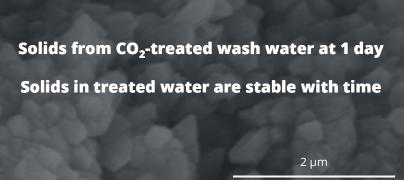
#### Challenges

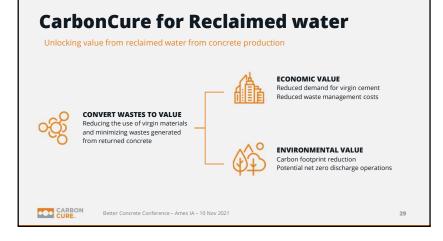
- Day-to-day variability
- Strong set acceleration
- Increased water demand
- Outcomes change with both the water age and composition
- Headaches for producers
- If practiced, dilution is the solution

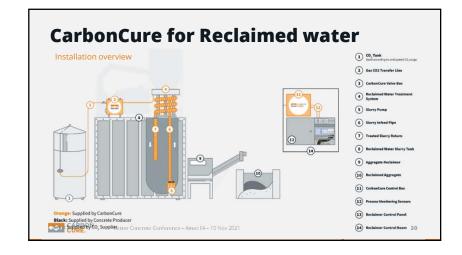






















# **Early results**

- Mineralizing hundreds of kg CO<sub>2</sub> per day
- Slurry recycled as 20 to 60% of the mix water
- Solids at 0.8 replacement for virgin binder

