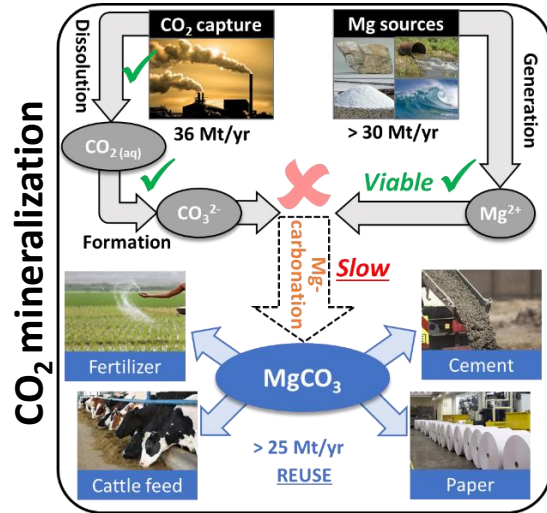
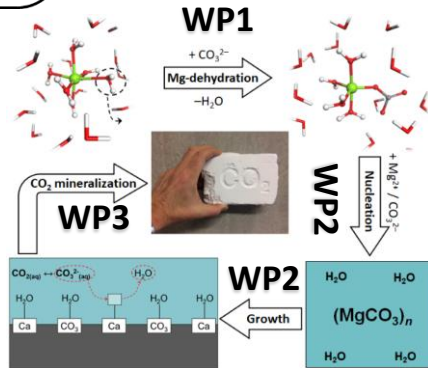


FUNMIN - Optimising CO₂ Utilization via Mineralisation



THE APPROACH

World's most evolved simulations & empirical determinations worldwide of the molecular events surrounding MgCO₃ formation from solution (**WP1-3**) to catalytically scale-up CO₂ mineralisation (**WP4**)



THE CHALLENGE

"CCUS can create new industries and markets through the use of carbon dioxide, such as chemicals, plastics, and building materials"

(UK CCUS deployment pathway, BEIS, 2018)



THE CONSORTIUM

World expertise in mineralization guiding Industrial technologists @ Cambridge Carbon Capture to permanently mineralise CO₂



THE GOAL

Fast-tracked optimisation of cost-effective mineralised-CO₂ materials under *mild, non-hazardous, non-toxic* conditions

- | | | | |
|----------------------------------|---|-------------------------------|--|
| 1
Mechanism of Mg-dehydration | 2
MgCO ₃ nucleation pathway | 3
Surface growth processes | 4
MgCO ₃ formation under mild conditions |
|----------------------------------|---|-------------------------------|--|

THE OBJECTIVES