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Multiscale study of the influence of Magnésium Silicate Hydrate (M-S-H) précipitation on the chemo-mechanical behaviour of cementitious materials

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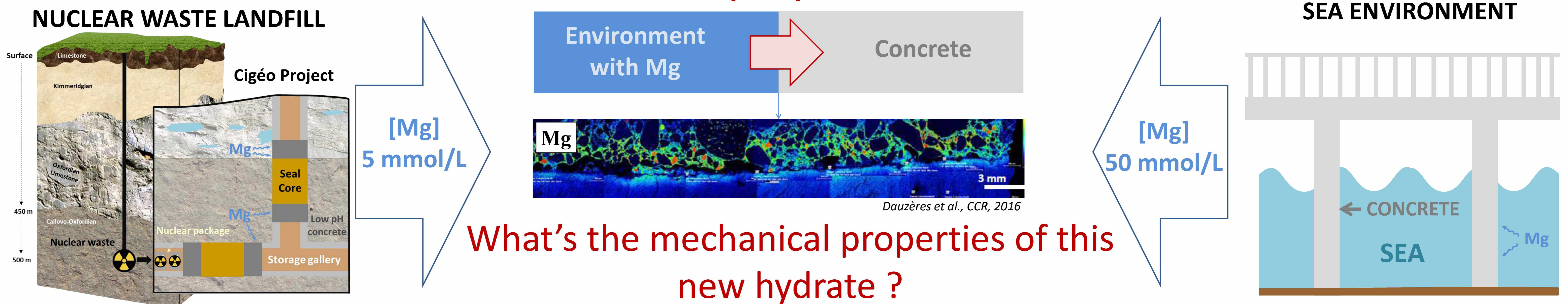
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Objectives

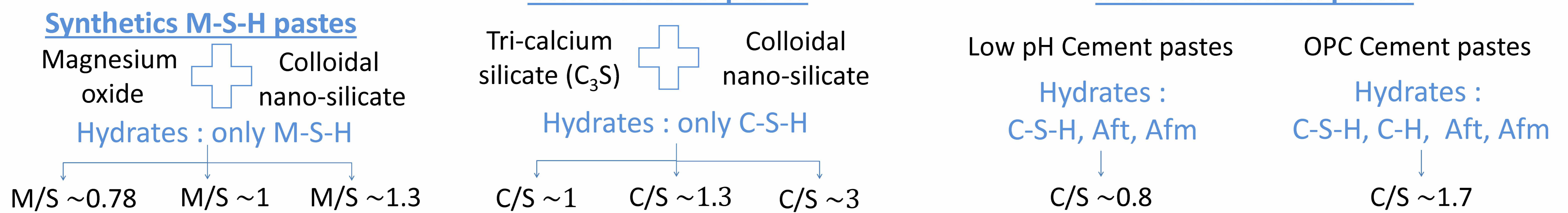
I Determine the elastic mechanical properties of Magnesium silicate hydrate (M-S-H)

II Estimate the impact of the M-S-H precipitation on the mechanical behavior of concrete.

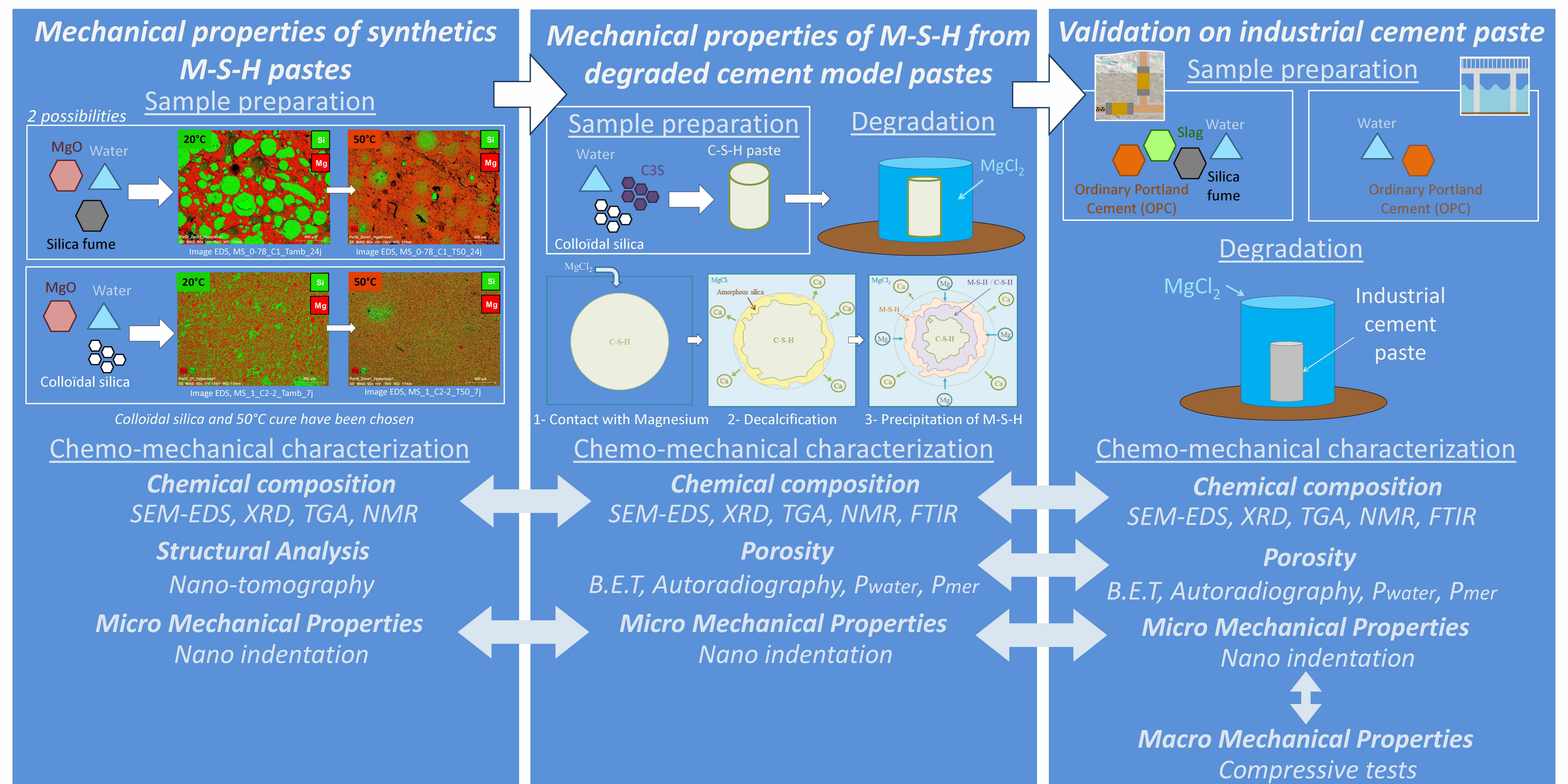
Context



Material

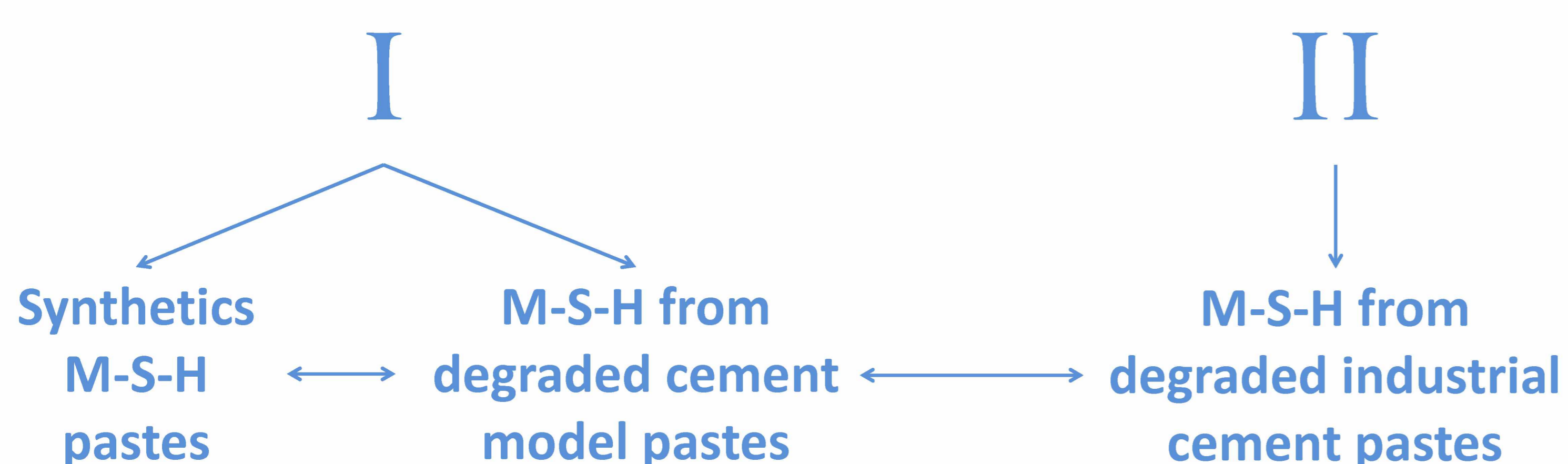


Proceeding



Conclusion

Chemo-mechanical characterization



Outlooks

- Model the mechanical behavior of industrial cement paste subject to magnesium enrichment.
- Extend the Chemo-mechanical characterization to samples extracted from the Tournemire URL (Aveyron France).