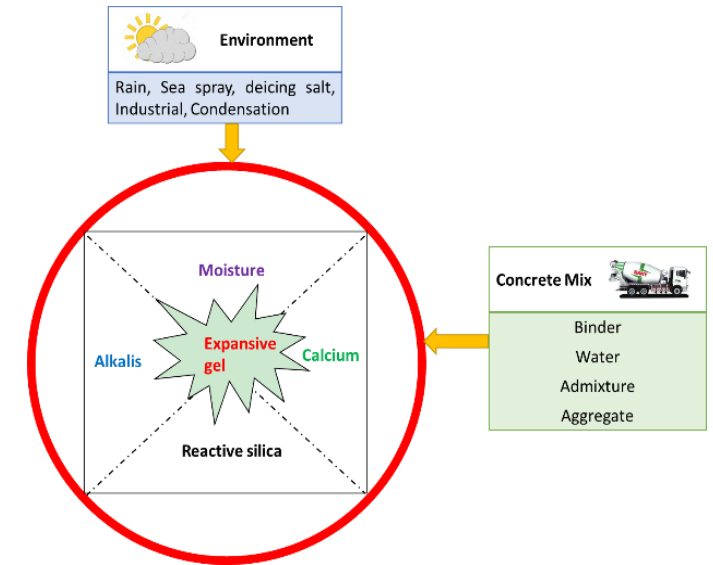
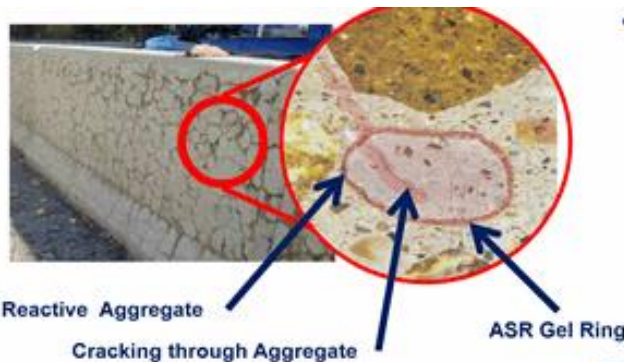
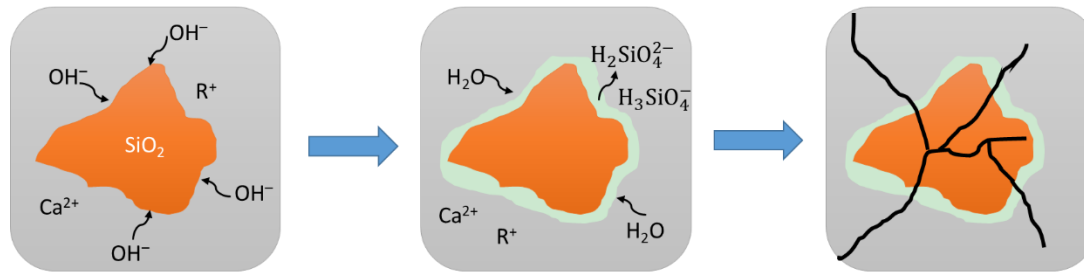


# Mechanism and mitigation of alkali-silica reaction (ASR) in alkali-activated cement (AAC) system

## Background:

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- The ASR has been responsible for **premature concrete degradation** in more than 40 countries all over the world.
- High research interest in alkali-activated materials around the world as its **lower energy** and **environmental costs**.
- **High alkalinity** needed for activation of binders is a key factor results in ASR.
- **Contradictory findings** about ASR in AAC.



## Objective:

Understand the mechanism of ASR in AAC

Mitigate the destructive ASR in AAC