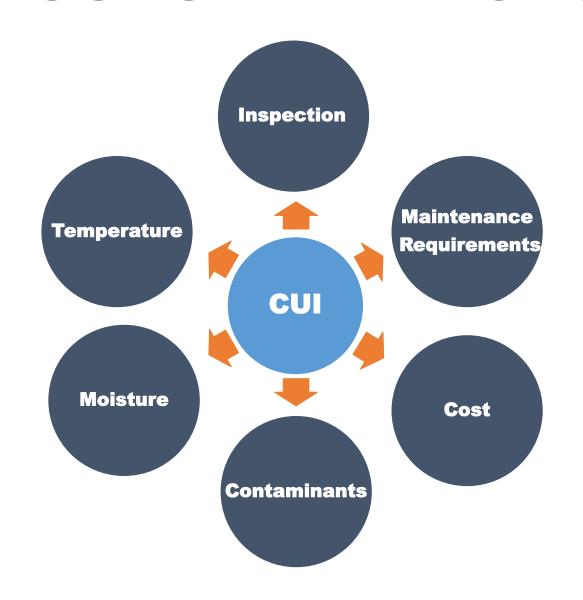


- CUI is the external corrosion of pipework and vessels that occurs beneath insulation following water ingress.
- Current Industry Guidelines and Practice include
  - > API RP 583; Corrosion Under Insulation and Fireproofing
  - NACE SP0198- 2017; Control of Corrosion Under Thermal Insulation and Fireproofing Material
  - > El Guidelines for the design, installation and management of thermal insulation systems
  - > EFC WP13 WP15; Corrosion Under Insulation (CUI) guidelines





### Cost

- > High expense in terms of failures, remedial, deferment and inspection activities
- Justification of the cost benefit in adopting new Non-Intrusive inspection technology

### Complex System

- > A lot of contributing factors including water ingress, Temperature & Design
- Most environmental factors are impossible to control
- > Can be very localised and can occur anywhere



#### Detection

- External appearance of the cladding may not correspond to the condition of the underlying pipework
- NII There are certain limitations such as detection capability of the tool, cost, speed, inconsistent results, individual interpretation e.t.c.



### **CUI MANAGEMENT**

A Structured approach is required to predict and mitigate the effects of CUI

