

# Impact of Climate Change and Sustainability Practices in Contaminated Land Management

1 April 2025 – FIASA ECLC

SAFELY DELIVERING TODAY,  
SHAPING TOMORROW



# Climate Change Impacts on Remediation



- Rising sea levels and extreme precipitation events can lead to increased mobilisation of contaminants, spreading pollutants into groundwater and surface water
  - Large storm events
  - Forecourt management
  - Separator Management
  - Increase in groundwater levels – tank manholes and UST water ingress
- Drought and water scarcity
  - Reduced water availability can impact the remediation process particularly when it is dependent of water as part of the process.
  - Higher ground temperatures
    - Increased temperatures can lead to increased volatility of hydrocarbons in the soil leading to greater vapour intrusion risks

Focus on implementation and embedment

# Sasol's Action Plan



- Improved separator management
- General forecourt management training – tank observation wells, tank manholes, drain maintenance
- Adaptive remediation strategies – assess multiple remediation options in order to ensure dynamic changes is possible given changing climatic conditions
- Improved forecourt drainage – SHE Remediation project
- In-situ remediation strategies – less dig and dump where possible
- Sustainability metrics with every assessment being done. Cost of removing soil, cost of in situ remediation, where have we acted sustainably, where haven't we.
- Build up sustainability data in the retail space.

Focus on implementation and embedment



**sasol**