Pipeline Repair
Management – Planning – Execution
with due Consideration of Business Interruption and HSE risk

Unplanned Repair

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Be Prepared
REPAIR: Caution.

- Some wise words on repair*:
  - ‘Do no harm!’
    - A bad repair can make matters worse.
    - Repairs need careful engineering, at least as much as a new construction.
  - Do not act in haste.
  - A repair is often not a good time to try something new.
    - There is less experience with a new procedure, compared to tried and tested designs. Surprises may occur with uncertainty and incompletely planned engineering

Offshore Pipeline Repair Options

- Grinding
- Clamps
- Section Replacement
  - Connectors
  - Hyperbaric welding
  - Recovery to surface
Grind repair

Area to be removed

Hardened layer

Pipe

Cracking
Clamps
Section Replacement
Repair Management

- Pipeline operator
- Vessel operator
- Diving contractor
- ROV operator
- NDT contractor
- Defect specialists
- Welding
- Re-commissioning
- Subsea designer
- Verification agency/consultant
- Equipment suppliers
  - Pipe handling
  - Concrete removal
  - Pipe cutting
  - Clamp or connectors
  - Welding habitat
  - Isolation tools
  - De-watering pigs
- Regulator

CATS CASE STUDY