Use of unbonded flexible pipelines and risers has risen steadily since 1990s.

Design improvements and development of industry standards

UKOOA Review 2001
Legislation

- The Pipeline Safety Regulations
- Offshore Installation Safety Case Regulations
- Adoption of relevant good practice ensures compliance with the legislation
HSE Intervention Strategy

- Has tended to be reactive
- Post Incident Investigation
- In conjunction with operators & manufacturers
HSE Intervention Strategy

- Shift from reactive to proactive
  - Inspection
  - Enforcement
  - Guidance
  - Shared Learning
Sharing learning and experience

Related standards and guidance

Failures and incidents

Research and development

Integrity management good practice
Time is a great teacher, unfortunately it kills all its pupils

*Louis Hector Berlioz*