How Can We Make Store Integrity Monitoring Affordable?

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“The purpose of the Project is to develop and demonstrate a cost-effective MMV system for ongoing environmental assessment of emissions in the marine and shallow subsurface environment in order that operators involved in the injection of carbon dioxide into the subsurface can meet the legislative requirements for such activities.”
What have we done?

CCS – Baselining and Monitoring

Marine & Shallow Subsurface Monitoring System for UK CO2 Stores Workflow

- Modelling, define system requirements, outline design: firm price
- Sub-system testing
- Sea Trials
What have we done?

2014: Phase 1 Theory

2014/15: Phase 1 Concept

2016: Phase 2 Design

2017: Phase 3 Build and test

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Acoustic Monitoring

**CCS – Baselining and Monitoring**

**AUV Mounted**

10 litres / min CO2

shadow consistent with 2 m ‘initial’ plume height
**TECHNOLOGY READINESS LEVEL (TRL)**

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**CCS – Baselining and Monitoring**

**Readiness Review**