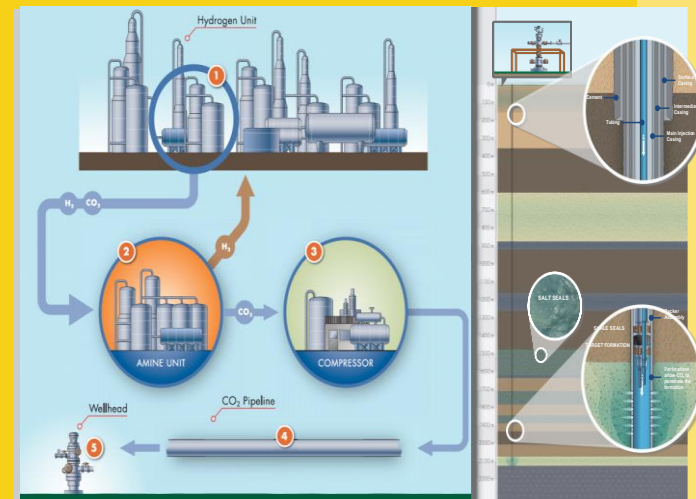




QUEST – Risk Management & Monitoring

Aug 2015



Simon O'Brien
Quest Storage Manager

CAUTIONARY STATEMENT

■ The companies in which Royal Dutch Shell plc directly and indirectly owns investments are separate entities. In this presentation “Shell”, “Shell group” and “Royal Dutch Shell” are sometimes used for convenience where references are made to Royal Dutch Shell plc and its subsidiaries in general. Likewise, the words “we”, “us” and “our” are also used to refer to subsidiaries in general or to those who work for them. These expressions are also used where no useful purpose is served by identifying the particular company or companies. “Subsidiaries”, “Shell subsidiaries” and “Shell companies” as used in this presentation refer to companies in which Royal Dutch Shell either directly or indirectly has control. Companies over which Shell has joint control are generally referred to as “joint ventures” and companies over which Shell has significant influence but neither control nor joint control are referred to as “associates”. The term “Shell interest” is used for convenience to indicate the direct and/or indirect ownership interest held by Shell in a venture, partnership or company, after exclusion of all third-party interest.

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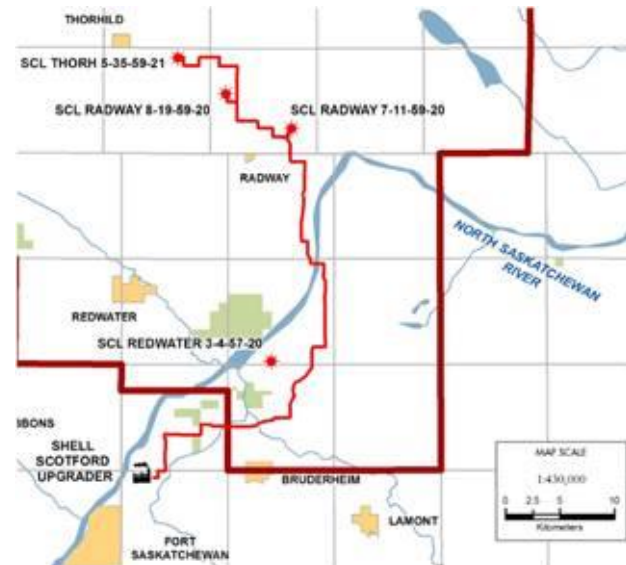
■ We may have used certain terms, such as resources, in this presentation that United States Securities and Exchange Commission (SEC) strictly prohibits us from including in our filings with the SEC. U.S. Investors are urged to consider closely the disclosure in our Form 20-F, File No 1-32575, available on the SEC website www.sec.gov. You can also obtain these forms from the SEC by calling 1-800-SEC-0330

Quest - Overview

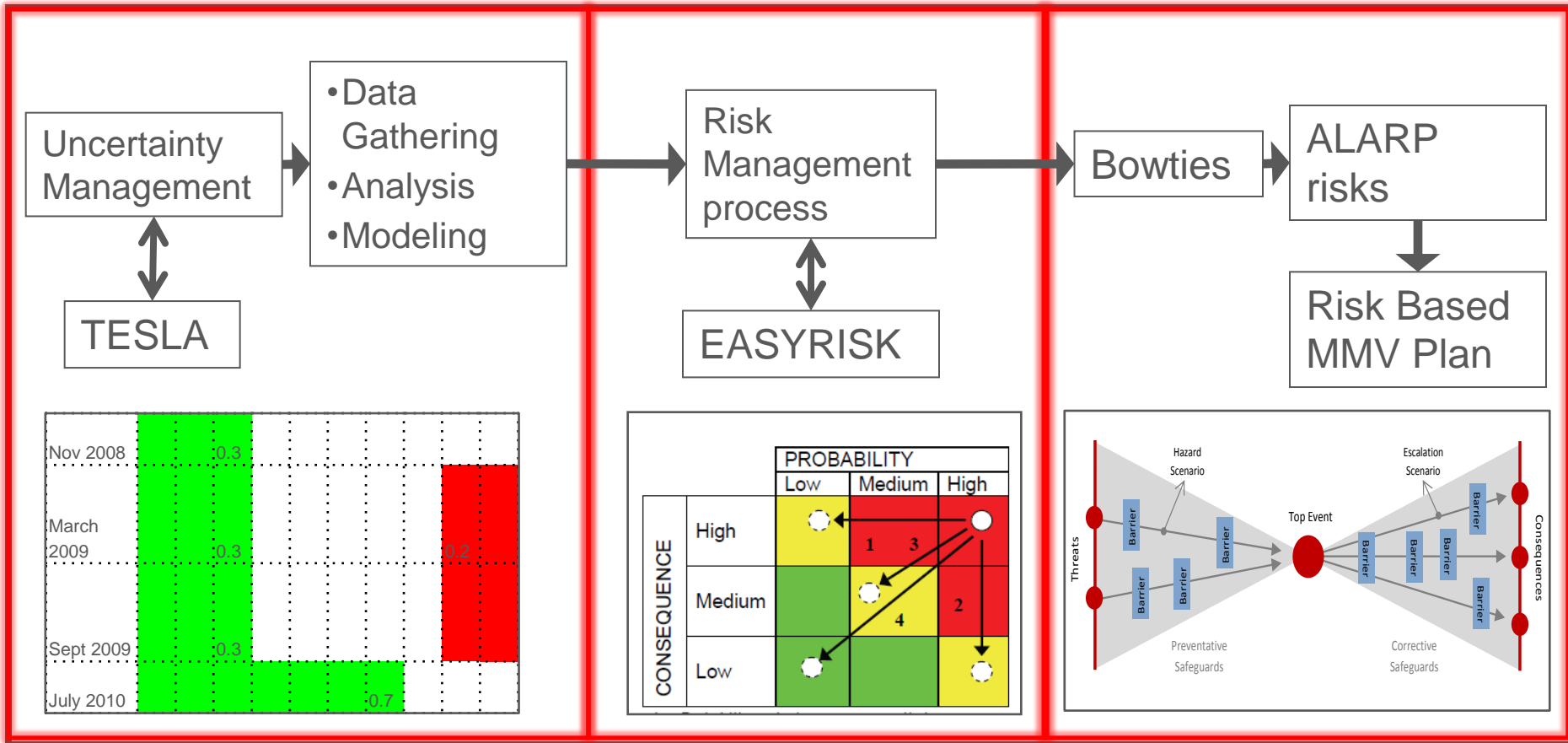


- One million tonnes CO2 capture per year for 25 years - roughly 1/3 reduction of Scotford Upgrader direct CO2 emissions
- JV among Shell (60%); Chevron (20%); and Marathon (20%)
- Project Approval – Sept 2012, Construction completed Spring 2015, Commissioning & start-up underway

- CO2 transported by 12 inch pipeline to storage, 65 km north of the Upgrader
- 3 injection wells, 3 deep monitoring, 9 ground water monitoring wells and associated monitoring.

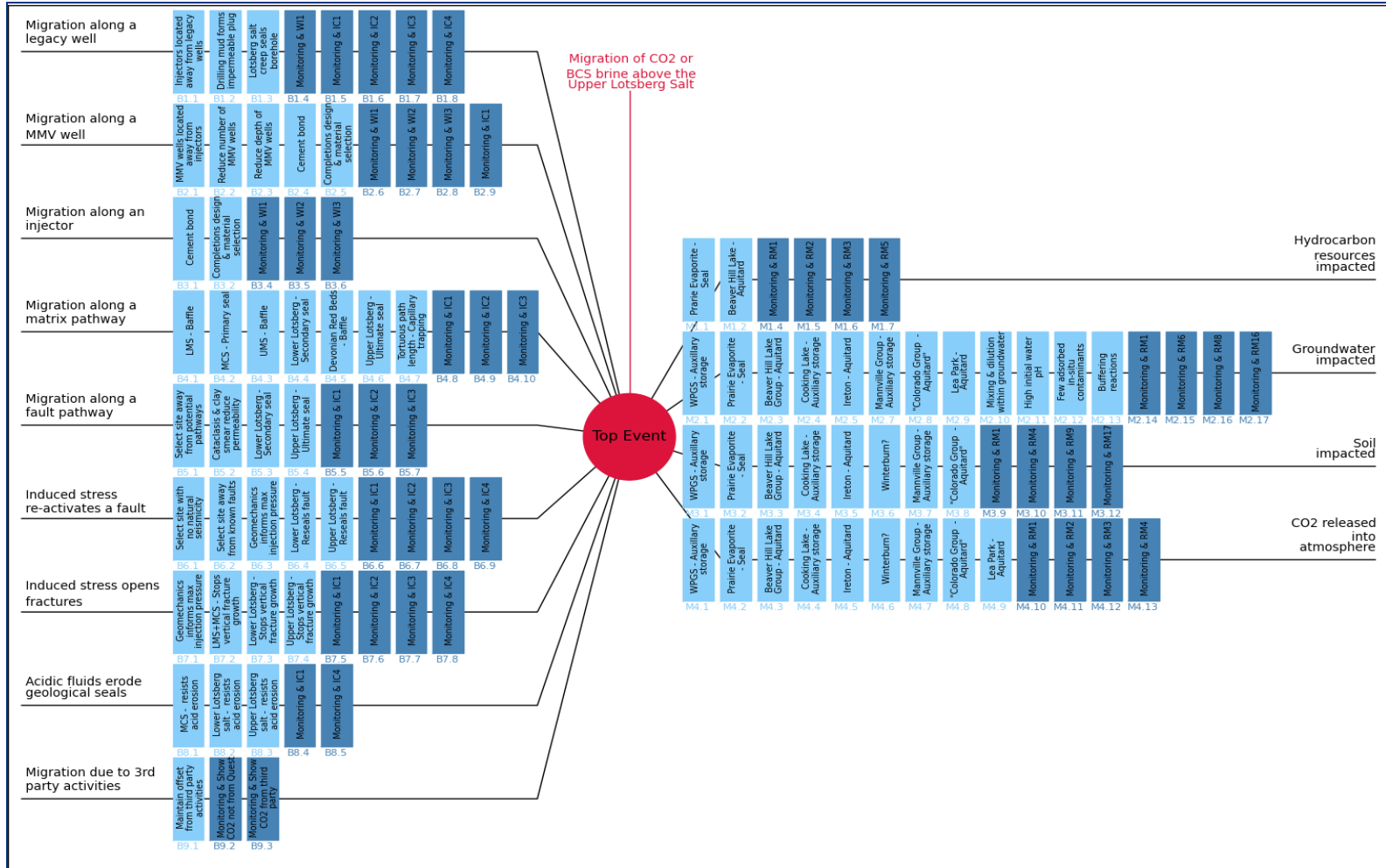


Subsurface Risk & Uncertainty Management Process



Independent External Review

Example: Containment Bow-Tie for Quest



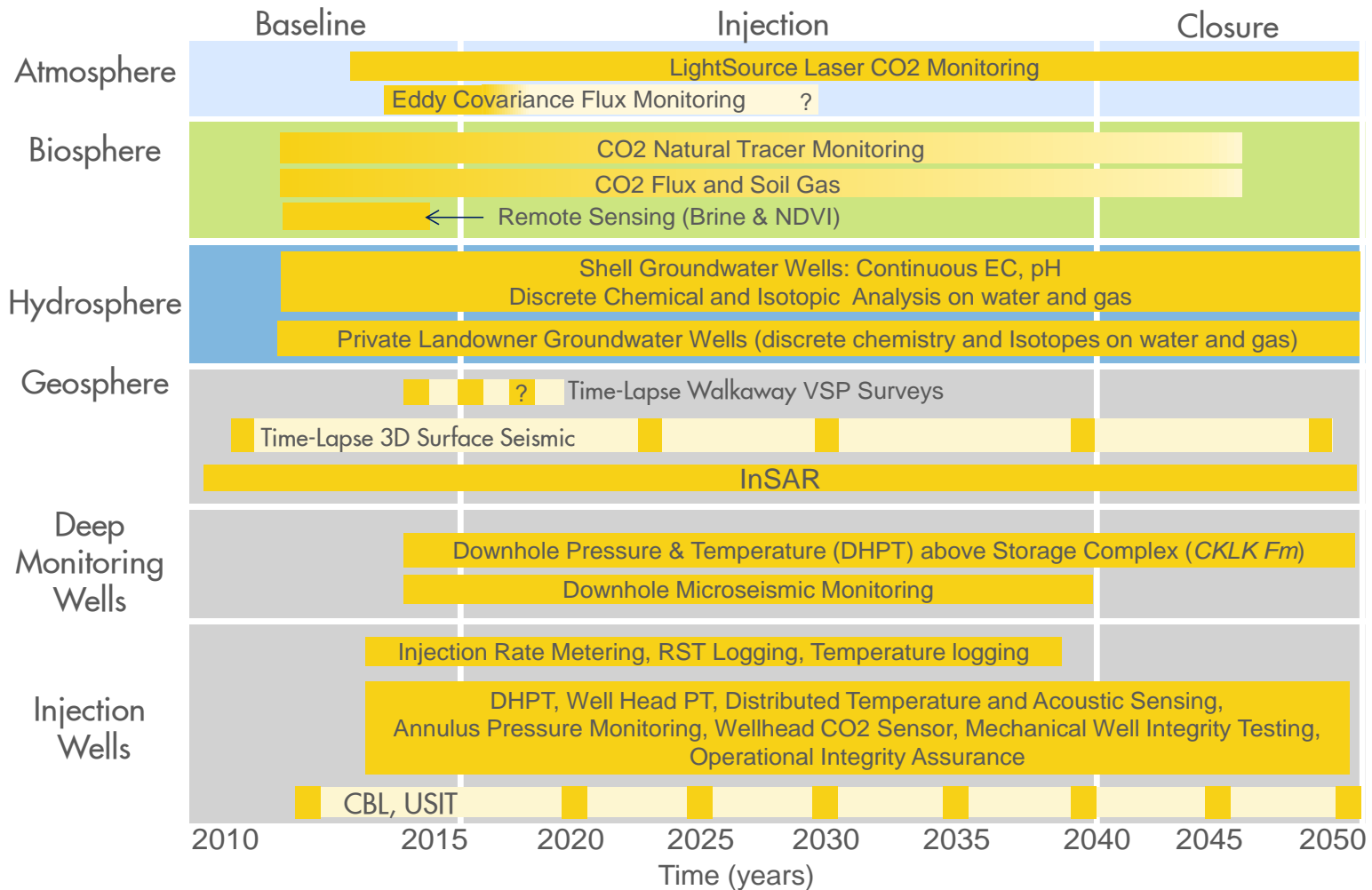
MMV Iterative Design Process

- Risk-Based
 - Verifies geological & engineered safeguards
 - Reduces containment risk to ALARP
(As Low As Reasonably Practicable)
- Site-Specific
 - Tailor made monitoring
 - Informed by appraisal data
- Diversified
 - Multiple independent monitoring systems
 - Multiple independent safeguards
- Adaptive
 - Responds to observed performance
 - Contingency plans in place



Source: Adapted from CO2Qualstore Report (DNV, 2009)

Quest Monitoring Plan Outline



Summary

- Shell has a mature risk management process which has been applied to Quest that provides an assessment/management of risk which is a key input to project decisions.
- This has resulted in the development of a risk based, site specific MMV plan.
- To date, the data modelling and acquisition has significantly reduced subsurface uncertainty, while site selection and injection plan has already significantly reduced containment risks.

