



Assurance of Technical Risk

Technology Qualification

Integrity Management

Reliability

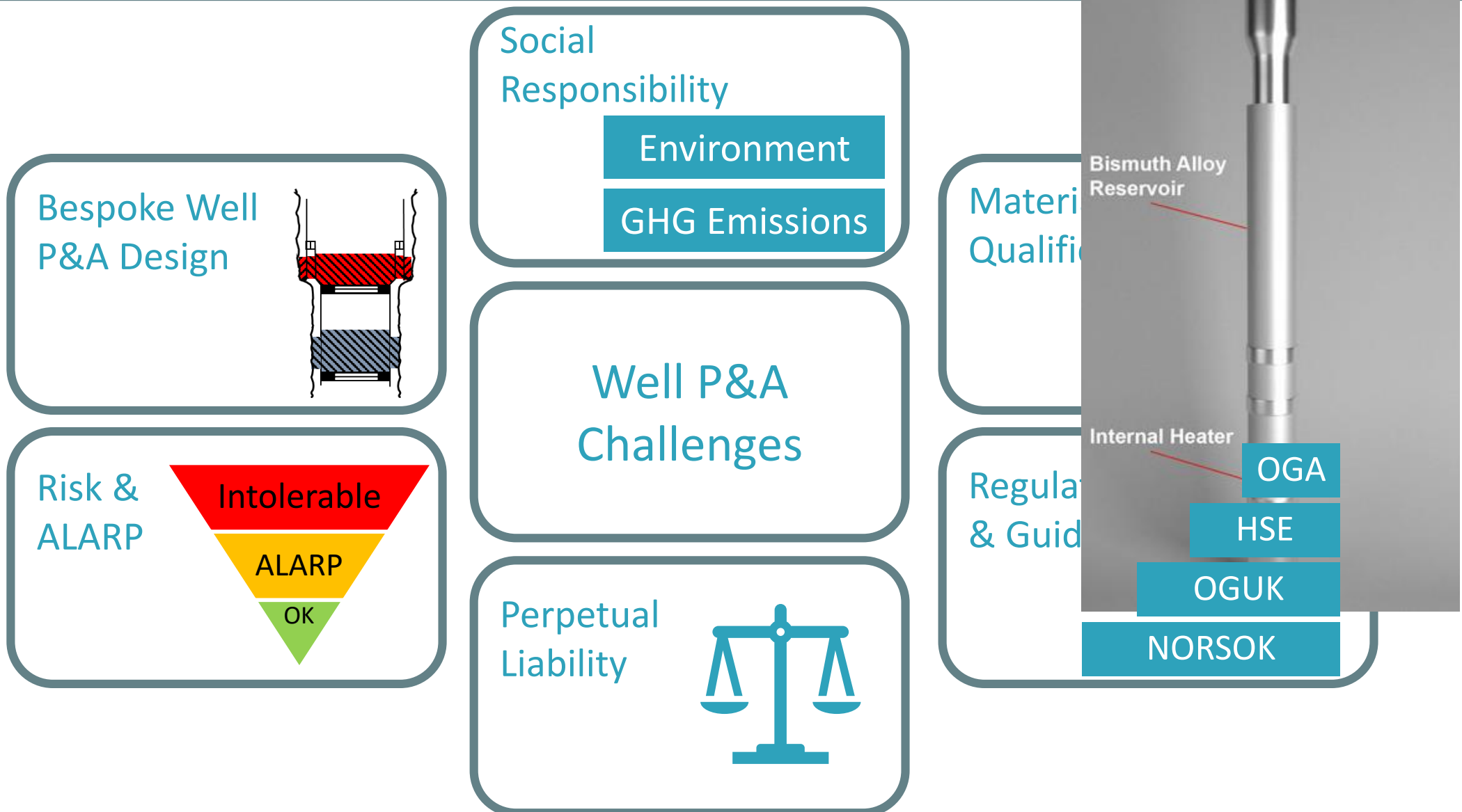
- Industry best practices
- FMECA
- Risk & reliability analysis
- Technology readiness (TRL) & qualification
- Data collection & analysis
- Advanced modelling of reliability and integrity
- Well P&A modelling and risk assessment
- Risk based integrity management
- Training

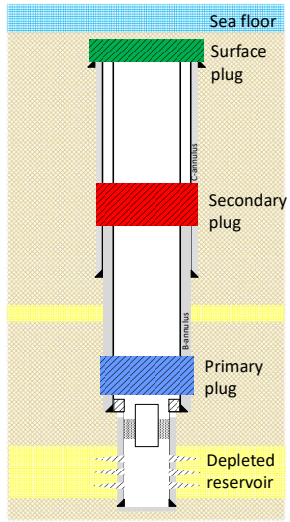
Well P&A Modelling and Risk Assessment

New Plug Material Qualification



Well P&A Challenges





Well P&A Design

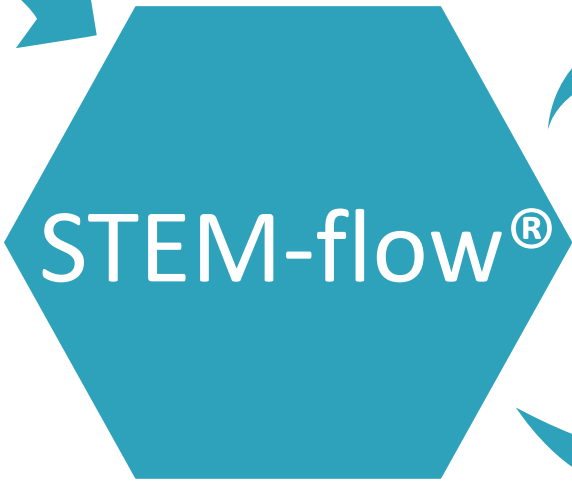
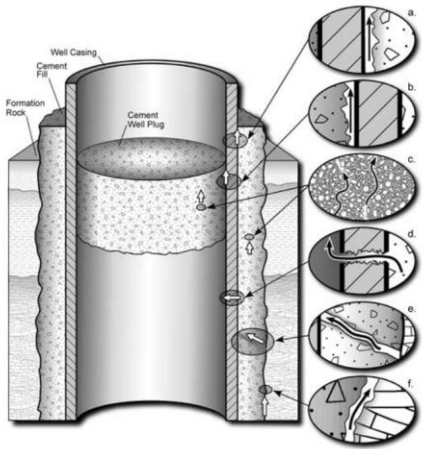
Cement Reports

CBL/RAL

Qualification FMECA

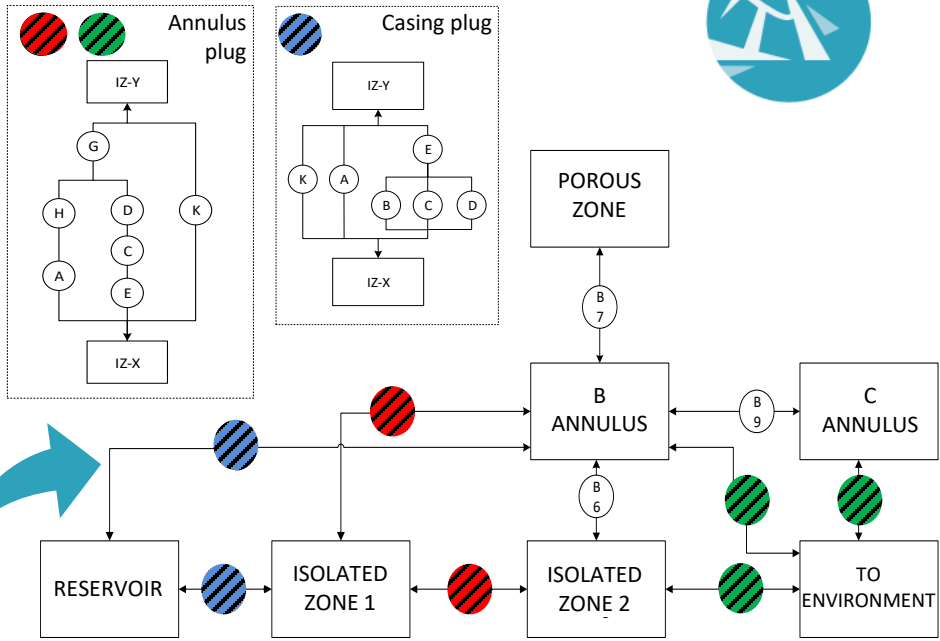
Uncertainty

Leak & Risk Acceptance Criteria

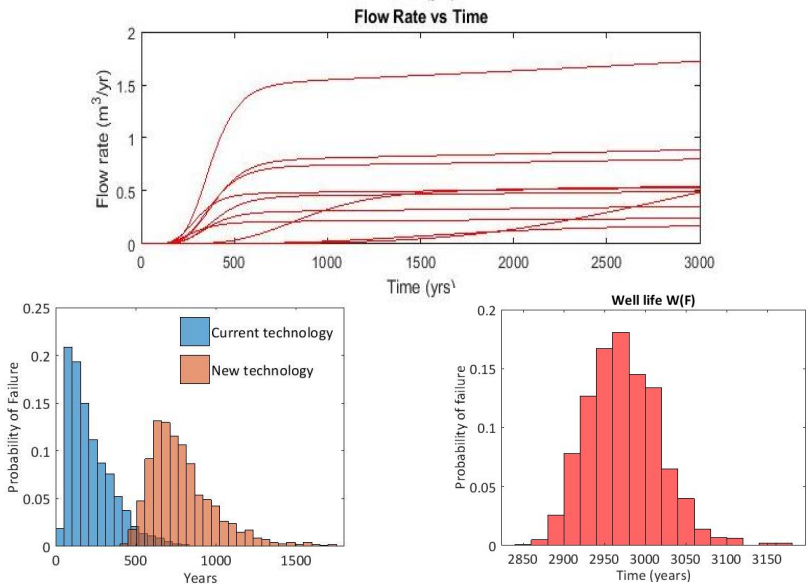


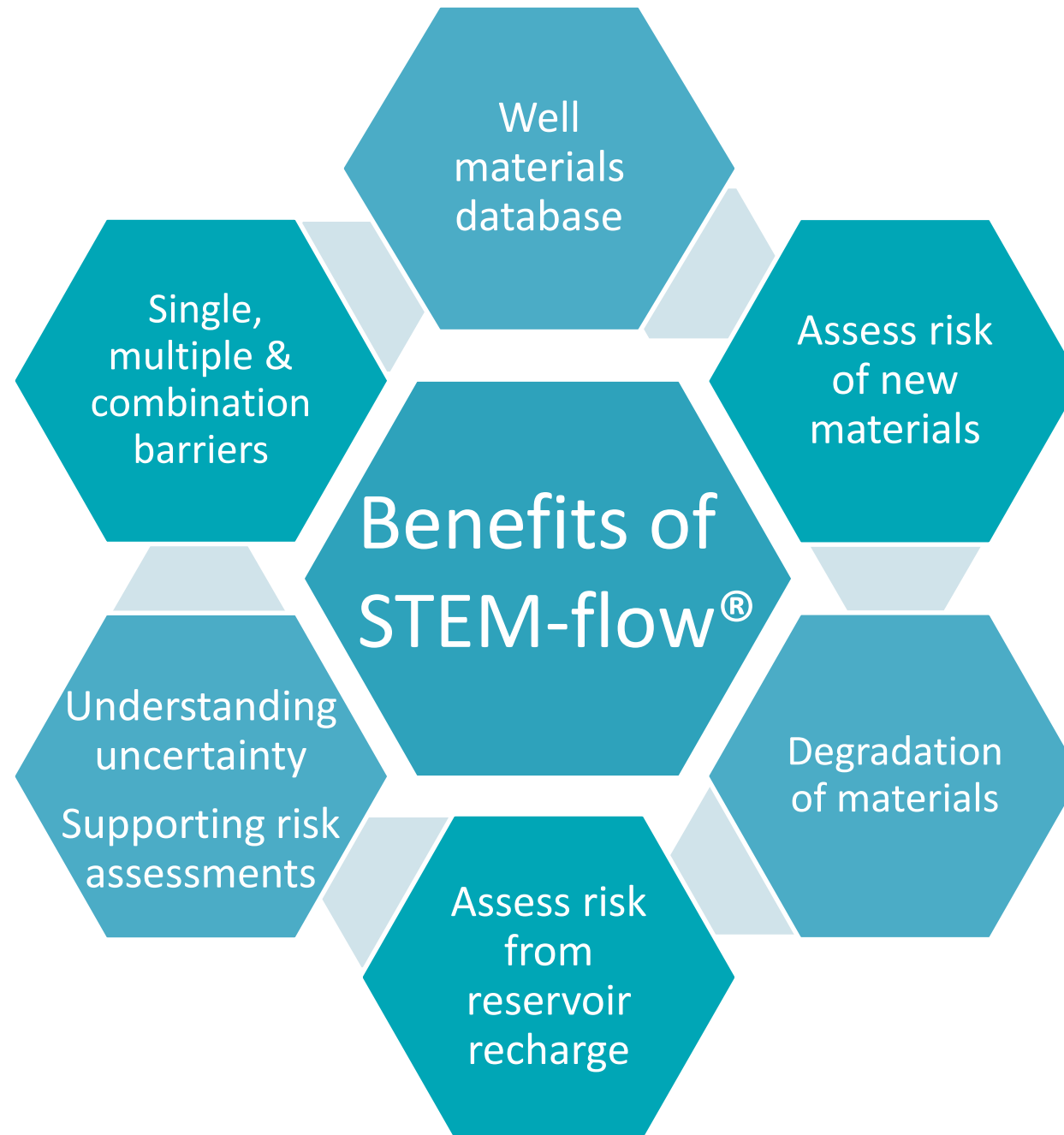
Supporting assessment of well P&A performance

Plug & Well Models



Statistical Leak and Life Predictions







Operators and Service Providers

- Assess P&A design / optimisation and industry practice
- Impact of time varying well/reservoir conditions
- Degradation of barrier performance
- ALARP and risk assessments (for new materials and dispensation)

Technology Developers

- Develop technology qualification process for new materials and methods
- Understand failure modes, mechanisms and causes and required testing
- Translate qualification data to barrier performance predictions

Thank you for listening

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