

Site End States and De-licensing

Supply Chain Perspective



Quintessa

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Supply Chain Perspective

Context

Challenges

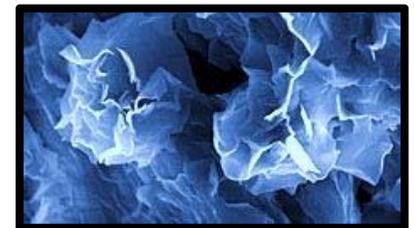
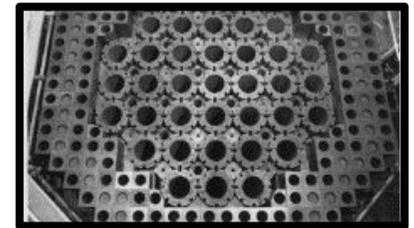
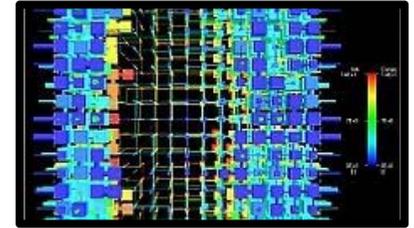
Opportunities

Constraints

Solutions?

Context: Quintessa

- ▲ Employee owned company
- ▲ 13 years old
- ▲ About 20 employees in the UK, mostly with postgrad education
- ▲ About 70% of work is for the UK nuclear industry
- ▲ Specialised skills
 - maths, software, geo-science, risk assessment, decision science
- ▲ We want to be a sustainable company, doing innovative and high quality work



Challenges

- ▲ Help sites **identify, implement and demonstrate** an appropriate End State
- ▲ This involves...
 - Dealing with uncertainties in requirements
 - Technical challenges in achieving criteria
 - Dealing with non-radioactive as well as radioactive contaminants/hazards
 - Making sense of lots of information
 - Maintaining knowledge
 - Showing optimisation
 - Working systematically towards an End State that may be decades hence
 - Constructing robust arguments in the face of uncertainty
 - Communicating with and involving a range of stakeholders



Opportunities



▲ UK Consultancy market

- Competition in the supply chain has made it healthy and high quality



▲ Win-Win-Win

- Less waste, lower risks, lower cost



▲ Scope for technical excellence

- Innovation in methods
- Innovation in analysis



▲ Transferability, from and to:

- Conventional contaminated land
- Other countries

Constraints



▲ Clear Objectives

- End states are often far in the future, not well defined
- It's easy to "dig and dump", but is it the best option?

▲ Effective Relationships

- Long-term involvement is often beneficial, but this can be difficult, contractually

▲ The Right Resources

- Contractual routes can mitigate against specialists
- Where do the new people come from?

Solutions?

- ▲ How can innovation be best nurtured and deployed?
- ▲ How can sustainability in skills and resources be achieved?
- ▲ How can healthy and effective relationships in the supply chain be fostered?