

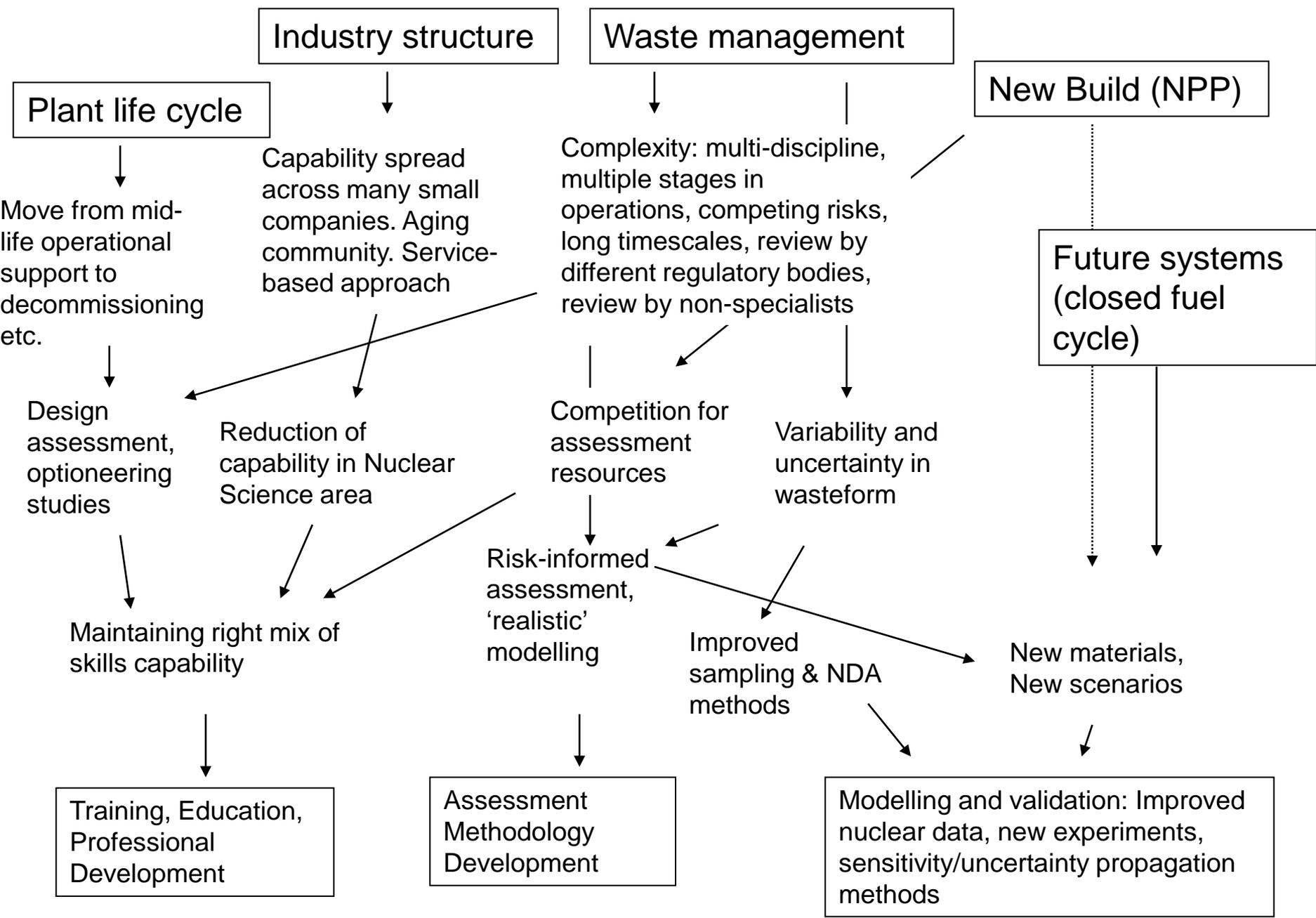


Challenges in Criticality Safety:
a UK Perspective

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Overview

- Historical perspective, looking ahead
- Drivers & Challenges
- Specific requirements, opportunities for participation in international activities



Examples of specific requirements/potential links to international activities

- **Professional Development**
 - Building capability in nuclear data and uncertainty treatment
 - Building capability in experiments
 - Participation in international experts working groups
 - Participation in international experimental programmes
- **Assessment Methodology Development**
 - Development of transport regulations to cover wider range of waste management activities (e.g. extension of fissile acceptance criteria)
 - Development of risk-informed methodologies (e.g. use of sampling data to demonstrate operational compliance)
 - Assessing likelihood of post-closure criticalities
- **Modelling and Validation**
 - Waste matrix materials (e.g. validation of PVC systems)
 - Modelling criticality excursions in a repository, benchmarking
 - Use of modelling (and sampling data /historical records) to improve interpretation of NDA measurement methods