



Materials Discipline Update

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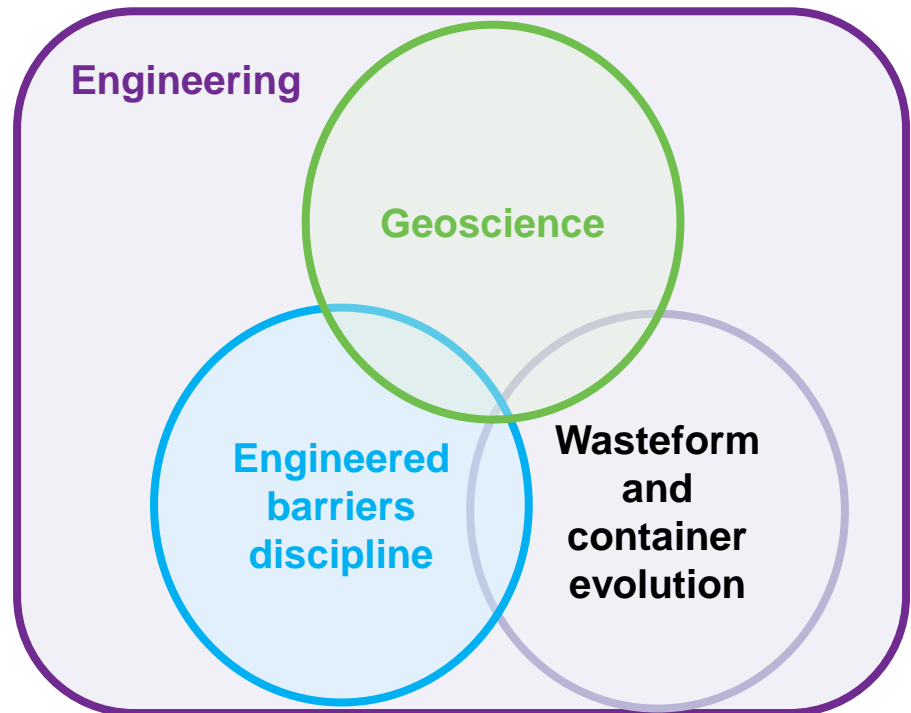
In-Year Progress and Proposals

- New Discipline Lead and SME appointed
- Review of ongoing projects and scope undertaken.
- Initial meetings & introductions undertaken.
- Proposal for scope refinement of area being discussed.

- Proposed move to “Wasteform and Container Evolution Discipline” area aims to
 - better reflects the skill sets of area leads.
 - makes work load in significant area of study manageable.
 - support extraction of maximum value from ongoing work and best experience/exposure for students in specialist fields.
 - i.e. Provides clarity and direction on how outputs can be integrated with GDF programme and safety case.
 - delineates project and clarifies ownership with other discipline areas.

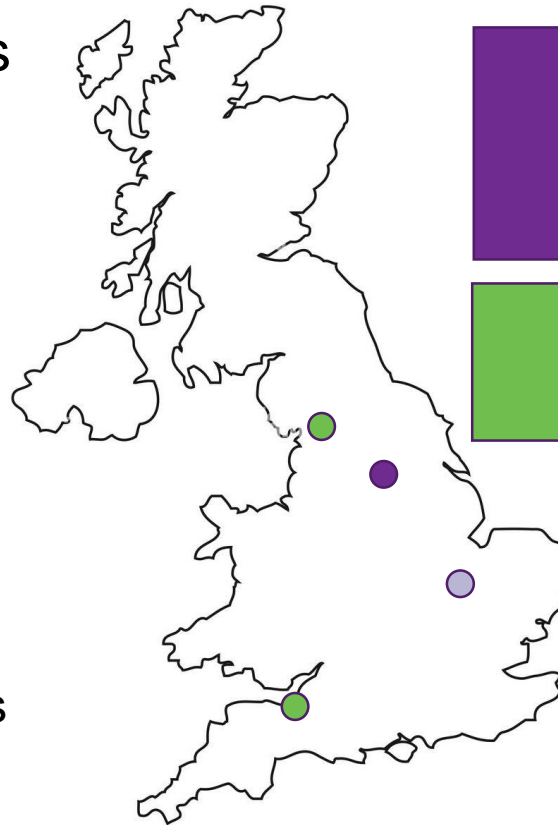
Alignment with Other Disciplines

- The proposal **does not** aim to remove wider materials science from RSO scope.
- Sharing scope and development of clear ways of working and interfaces between disciplines will be key.
- Alignment needed to ensure:
 - Transfer of data/knowledge to programme (engineering design and safety case.
 - Scope definition is most relevant to GDF programme needs.
 - Two core and one overarching interface proposed.



Ongoing work in scope

- Current “Materials discipline” classification covers 17 PhDs and 2 post docs in a breadth of subjects.
- Proposal will rationalise this ensure best experience and value and to support room for expansion.
- Currently 8 PhDs and 2 Post docs covering HLW, SNF & Pu wasteforms.
 - + expansion of RSO proposals and alignment with other HHGW funded work in academia.



UoS
2 x Pu Post docs
2 x Pu PhDs
2 x HLW PhDs

UL
1 x SNF/Pu PhD

UB
2 x SNF PhD

UC
1 x HLW PhD

Plans for new year

- Agree interactions and process for delineating materials area with other disciplines.
- Build better relations with ongoing projects and scope new areas.
- Build a database of interested parties:
 - Academia, NDA, national labs, international collaborators, supply chain
- Set up RSO materials lunch & learn “community of practise sessions”.
 - Bi-monthly presentations from associated students/ academics/SMEs/guests.
 - Build and expose students to wider community and share purpose and best practise in work area.
- Better understand and build system for use and transfer of learning into data sets, engineering design and safety case.
- Organise a HHGW waste area mini conference – 3 days covering SNF, HLW and Pu wasteforms.