

# Sharing information on waste container materials (JA11a) – update

# The story so far

The IGD-TP has been running an activity to share information on container materials (focusing on corrosion/durability) since the onset of the Strategic Research Agenda (2011).

The activity involved:

- Uploading/sharing desk-based review studies (UK programme) on IGD-TP website ('Project Place')
- Meeting with international experts in a dedicated meeting at the 6<sup>th</sup> 'Long-term Corrosion' (LTC) conference (May 2016, Toronto)
- State of the art note drafted and circulated to key experts for feedback in September 2016. **Aimed completion date mid 2017** – requires publication of conference proceedings

# Aims and scope of activity

## Aims

- Capture/agree on state of the art and help identifying potential areas of future synergy

## Scope

- Corrosion behaviour (no mechanical effects nor coupling with corrosion)
- HLW and spent fuel systems (no ILW/LLW), with focus on copper, carbon steel and, to an extent, titanium systems
- Deep disposal only (no long-term or interim storage)

# Emerging results (work in progress)

- Substantial progress have been made in many disposal concepts, with research currently focusing on specific outstanding issues.
- Information is being shared effectively between experts through existing networks and fora (particularly LTC conference)
- Opportunities may exist for future synergy around:
  - In situ, small or full scale tests to study specific effects, confirm expected behaviour and/or gain confidence in the system (in many ways this is already happening)
  - Studies of effect radiation on corrosion, particularly in thin-walled designs (limited shielding)??