



INNOVATIVE AND NEW CONTAINER/CANISTER MATERIALS UNDER DISPOSAL FIELD CONDITIONS: MANUFACTURING FEASIBILITY AND IMPROVED DURABILITY InCoManD (WP9)

Co-funded by the European Union under Grant Agreement n° 101166718

InCoManD has two main objectives

- **Identify and qualify novel materials (e.g. ceramics) and processes (e.g. welding techniques) for the manufacturing of HLW containers**
- **Provide a deeper knowledge of both traditional (e.g., carbon steel) and novel materials long-term durability in, as realistic as possible, field conditions**

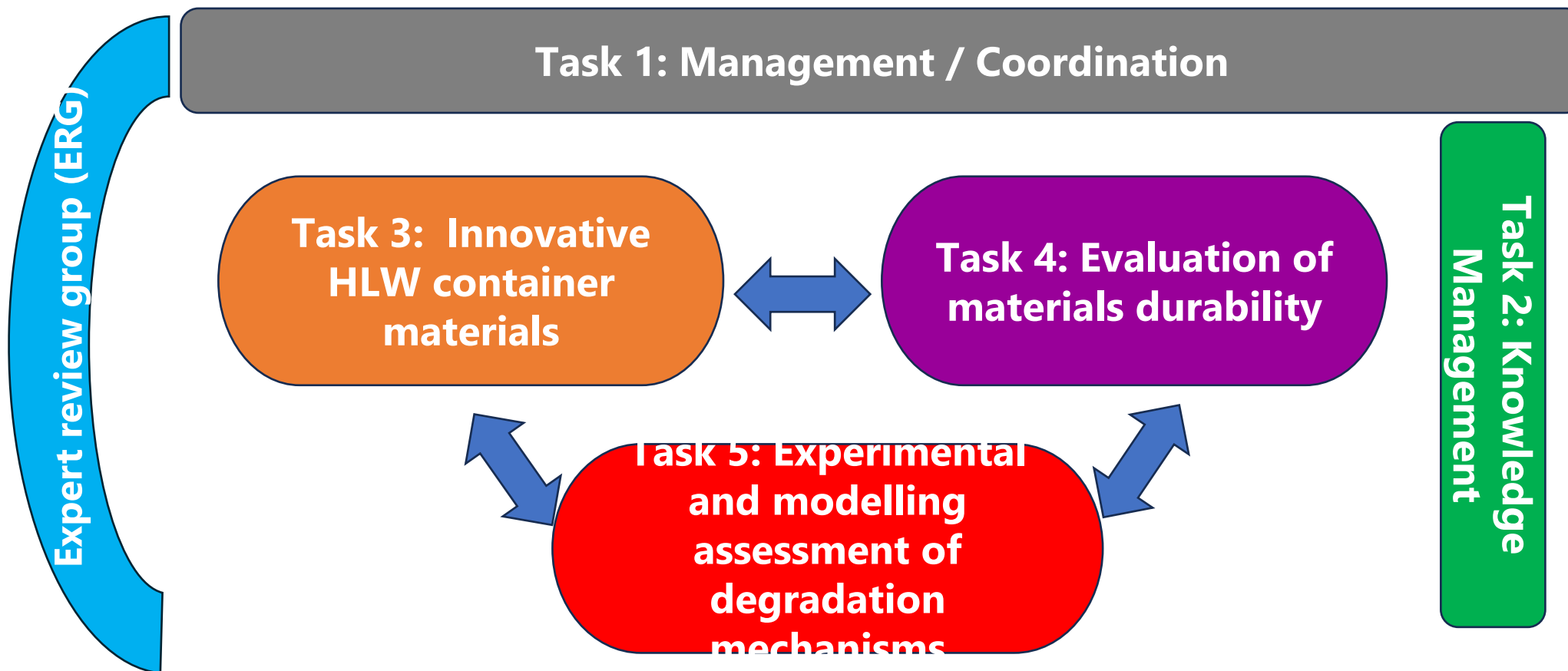
InCoManD consortium

- **30 partners from 10 countries**
- **Expert review group**

InCoManD added value

- **WP that is implementation-oriented**
- **Lots of (new) collaborations that create a sound research network**

InCoManD is organised in 5 Tasks



Main achievements during Y2 in Task 2

Task 2: Knowledge Management

- ❑ 2 webinars on 'Microbial activity in the context of DGR', May and June 2026, by N. Jakus (EPFL, Switzerland) and M. Merroun (UGR, Spain)

Main achievements during Y2 in Task 3

Task 3: Innovative HLW container materials

- ❑ Development of promising corrosion resistant Ti/TiO₂ multilayer PVD coating

Main achievements during Y2 in Task 4

Task 4: Evaluation of materials durability

- ❑ Improvement of protocols and set-ups for coupled T°/microbes/irradiation experiments

Main achievements during Y2 in Task 5

Task 5: Experimental and modelling assessment of degradation mechanisms

- ❑ Strengthening of close collaborations between experimental and modelling partners (notably on geochemistry)

InCoManD: what's next?



- ❑ **2nd annual event, Berlin, October 2026**
- ❑ **Preparation of the S&T programme of the Summer School that will take place in Ljubljana in Sept. 2027**
- ❑ **Preparation of MSs 76 and 77 to be delivered in December 2026**
- ❑ **Webinar on “Peridynamical modelling of corrosion”, to be delivered Sept. 29, 2026 (3:00 pm CEST) by Prof. F. Bobaru from University of Nebraska-Lincoln**



EURAD-2 2nd annual event, Dublin, Ireland (2026)