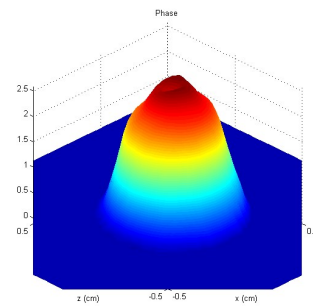




EASYWAX JIP – PHASE 2 (2023-2025)

A JIP DEDICATED TO WAX DEPOSITION



PHASE 1 OF JIP EASYWAX

Responsible
oil and gas

- A lot of data obtained:
 - At pilot scale (by IFPEN on the Lyre loop, and by Equinor on Porsgrunn's test rig)
 - Under single-phase and multiphase flow conditions
 - At middle scale on MRI flow loop, provided velocity and concentration profiles
 - At lab scale (wax deposit characterization)
- Questions still remain to
 - Molecular diffusion assessment:
 - Wich viscosity to consider for molecular diffusion?
 - Heat transfer coefficient
 - Thermal conductivity of the deposit
 - Mechanical behaviour of the wax deposit
 - Yield stress as a function of Wax crystals content

GUIDELINES FOR A JIP EASYWAX - PHASE 2

● **WP1: Consolidate Phase 1 results - Year 1**

- Objective: To go further in the analysis and understanding of results obtained during JIP EasyWax Phase 1

Gate at the end of WP1: define in more details additional tests to go further and the content of WP2 and WP3

● **WP2: Wax deposition mechanisms under single-phase flow**

- Objective: To provide a fine description of the wax deposit build-up for better predictions (aging and non-Newtonian effects)

● **WP3: Wax deposition mechanisms under High GOR**

- Objective: To study wax deposition mechanisms in risers

TIMELINE / BUDGET

Responsible
oil and gas

- Proposal to be finalized for October 2022
- Phase 2 Duration : 3 years
- Ticket : 90k€/year/ sponsor
- Kick-off Meeting early 2023

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