

## Deliverable 1.1: Characterization of R3VOLUTION site streams

### What is the deliverable about?

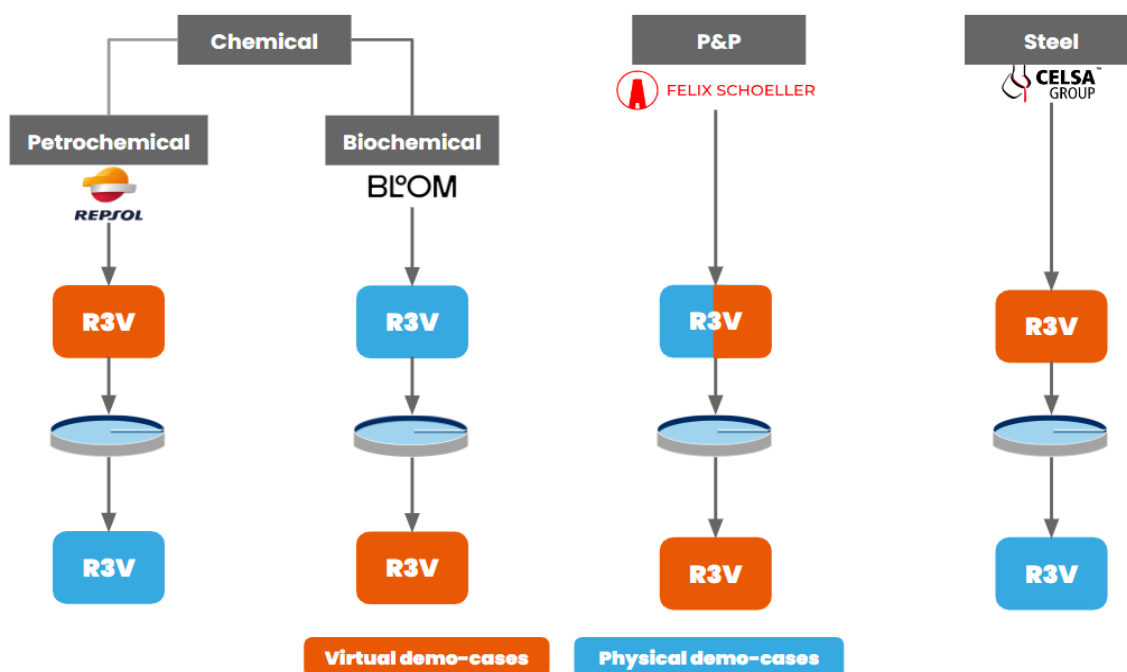
This deliverable describes the characterisation of industrial wastewater streams from four sectors (petrochemical, steel, pulp & paper, biochemical) as part of Task 1.1 of the R3VOLUTION project. The aim was to identify streams that could be treated by the project's membrane systems to recover water, solutes, energy and enable reuse. Both physical cases (to be treated by pilot plants) and virtual cases (to be modelled digitally) were identified upstream and downstream of existing wastewater treatment plants. Specific streams at each industrial site were characterised in terms of physico-chemical parameters and potential for re-use.

### What challenges are addressed?

The characterization of the input streams was a necessary step to begin the design, integration, construction, and operation of the treatment train pilots for each demonstration case and site.

### What is the innovation?

A total of 16 streams have been characterized across the four industries. At least one stream has been characterized for each of the physical and virtual demo cases within these four industries.



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