# IRP 6 : Individual Research Project

## Topic

Collaborative learning across data silos

## Involvement

- IRP belongs to WP1 (Financial Data Space)
- WP Leader: BBU (Cluj)
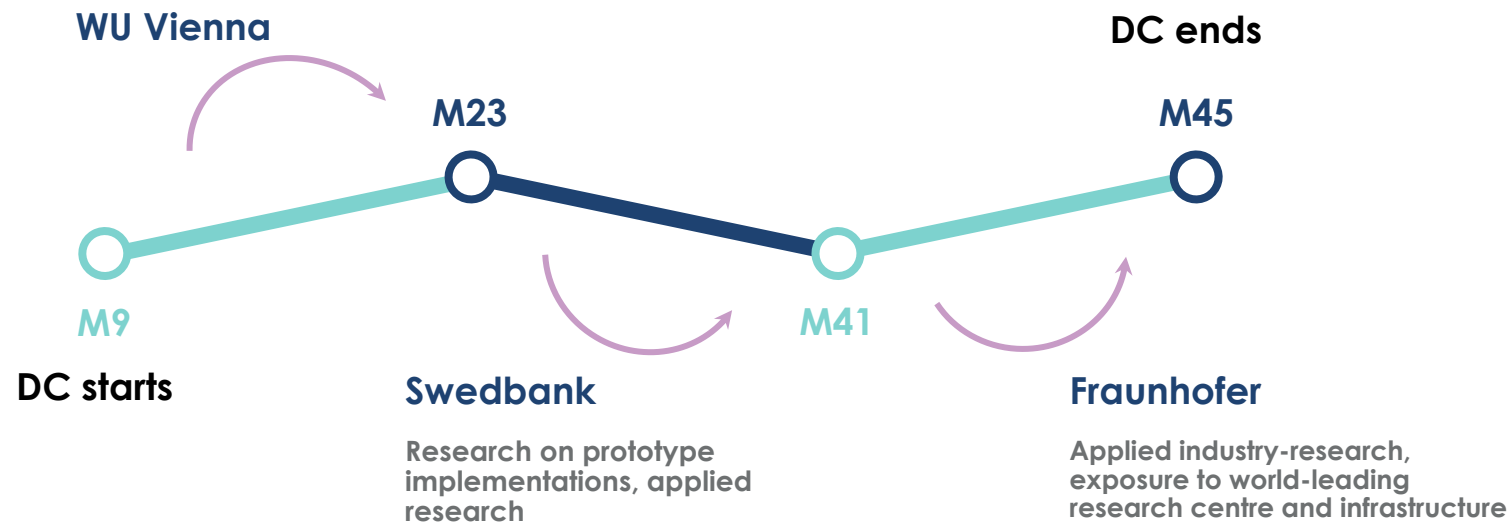- Two supervisors from secondments: SWE, and FRA

## Objectives

Connecting several dozen different data pipeline components and integrating an excessive number of APIs to leverage siloed data is a significant barrier to the comprehensive implementation of AI-based systems in finance. We will concentrate on the **data challe**nges that finance service providers face by proposing solutions to **streamline data collection, resolve data quality issues, and structure data to support downstream processes.**

## Deliverables

APIs for integrating Machine Learning and Deep Learning algorithms into FinTech processes necessitate careful abstraction of the specified input and output, which is the responsibility of the researchers to simplify and aggregate the complexity. This project produced **a large number of API definitions** that are closely related to research papers in the fields of theory of Artificial Intelligence and Machine Learning, as well as theory of Finance applications in various sub-fields such as security and compliance. The API specification itself should not only be **integrated into financial institutions' business processes**, but should also **provide fruitful input for new research papers** that are of interest to readers and users of all involved fields of research.



**TIMELINE**

IRP 6

**WU Vienna**

**DC ends**

**M23**

**M45**

**M9**

**DC starts**

**M41**

**Swedbank**

Research on prototype implementations, applied research

**Fraunhofer**

Applied industry-research, exposure to world-leading research centre and infrastructure

*DIGITAL*