

# IRP 5 : Individual Research Project

## Topic

Fraud detection in financial networks

## Involvement

- IRP belongs to WP4 (Blockchain applications)
- WP Leader: ASE (Bucharest)
- Two supervisors from secondments: RAI

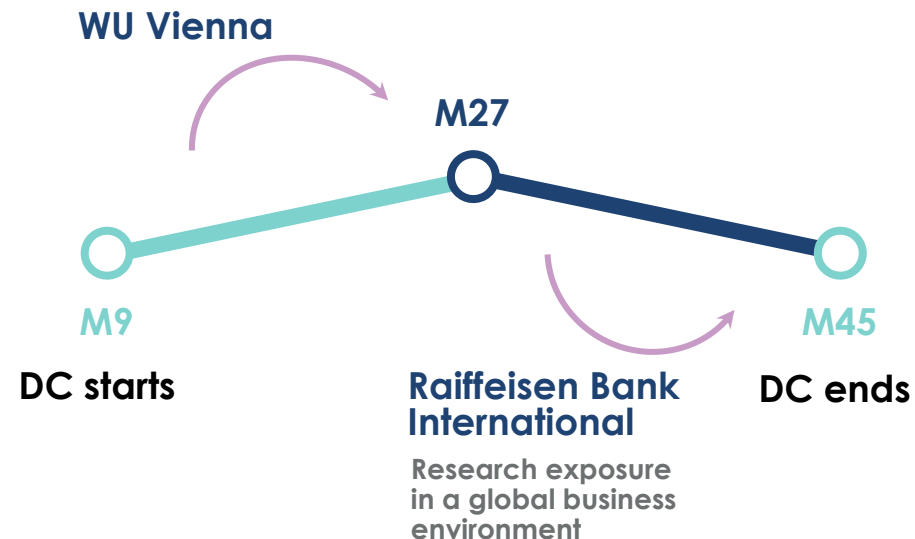
## Objectives

Detecting fraud is currently one of the most important topics in Finance. However, it is also one of the most complex, given that fraudsters typically represent and generate a highly dynamic system, requiring that the boundaries and objectives of any **system designed to detect and reduce fraud** be **constantly adapted to new extrinsic structures**. This enables the definition of not only a static fraud detection system, but also a **dynamic AI learning system**, particularly in relation to network analysis.

## Deliverables

On a meta-level, a set of Machine Learning and Artificial Intelligence models will be defined to **enable a research-based approach that can be applied directly in financial institutions**. The models are defined in such a way that the outcomes of the learning process within the institutions can be used to define and **design new algorithms from a scientific standpoint**. The work on **network algorithms** during the process of designing Machine Learning environments, will result in the publication of seminal papers.

IRP 5  
TIMELINE



DIGITAL