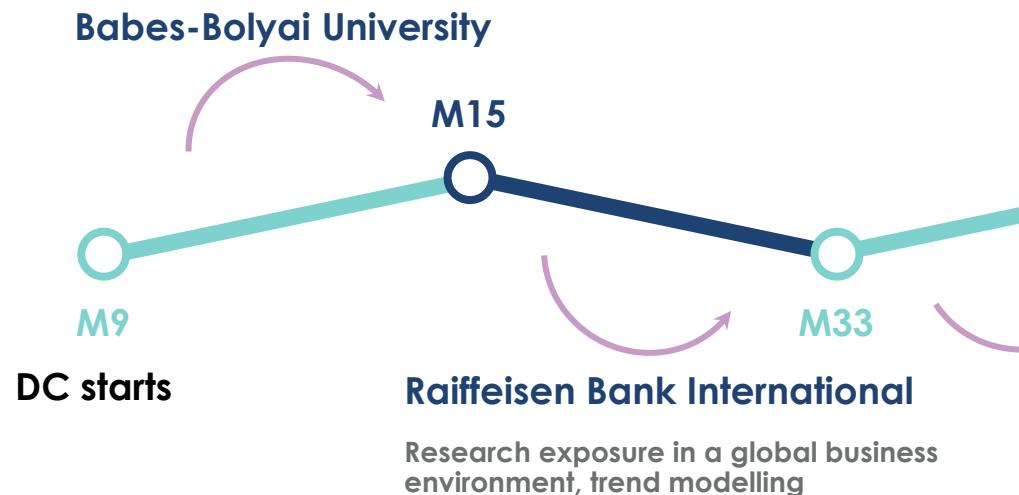


IRP 13: Individual Research Project

Topic	Involvement
Predicting financial trends using text mining and NLP	<ul style="list-style-type: none">IRP belongs to WP1 (Financial Data Space)WP Leader: BBU (Cluj)Two supervisors from secondments: RAI, and ECB
Objectives	Deliverables
<p>The main goal of this doctoral candidate is to enhance the application of AI-driven natural language processing (NLP) techniques for forecasting credit risk and detecting financial fraud. This involves analyzing speech text from audit reports, social media, and various other sources. The focus is on predicting non-compliance by interpreting the sentiment in free-text answers from survey participants. Additionally, the project aims to develop attitudinal indices derived from free text and integrate them into behavioral models. These models, which also consider other qualitative and quantitative elements, will help in assessing the probability of system fraud and determining the risk level associated with accreditation processes.</p>	<p>Constructing large databases that provide both qualitative and quantitative data for use in the development of AI algorithms for both public and private. Using text mining and NLP, evaluate the viability of various models that could predict the risk of fraudulent behaviour in the financial sector. Utilisation of these models in both the public sector (public policy formulation) and the private sector (help banks and FinTechs in credit scoring).</p>

IRP 13 **TIMELINE**



Research exposure in a global business environment, trend modelling

DC ends
M45
ECB

Exposure to globally leading central bank, research training on EU principles, supervision



DIGITAL