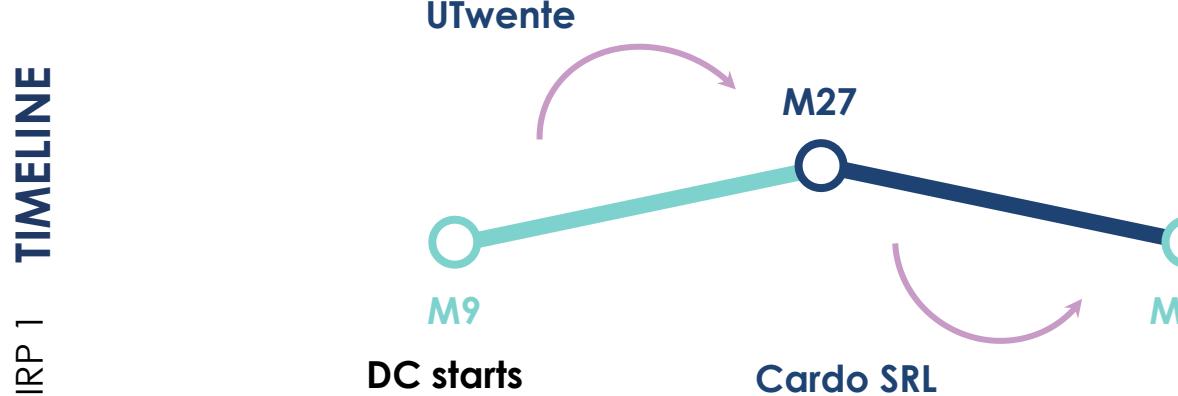


IRP 1 : Individual Research Project

Topic	Involvement
Strengthening European financial service providers through applicable reinforcement learning	<ul style="list-style-type: none">• IRP belongs to WP3 (Explainable and fair AI)• WP Leader: BFH (Bern)• Two supervisors from seconds: CAR, and ECB
Objectives	Deliverables
Reinforcement Learning (RL) has become popular for automating uncertain decision-making in complex environments . Deep reinforcement learning can make impressive algorithmic decisions in closed environments, but real-world applications in open environments are harder. This project examines how RL can advance digital finance.	The project will address several RL implementation issues in digital finance. Utility-based RL deliverables will improve financial decision-making by developing multi-criteria analysis, extreme scenarios, and risk management methods . RL in decision-support will be optimised for explainability, regulatory compliance, model abstractions, and human judgement . We will also examine technological challenges like Digital Twin environments, machine learning pipelines, and digital finance ecosystem integration .



Training on EU principles,
supervision policies and
research

