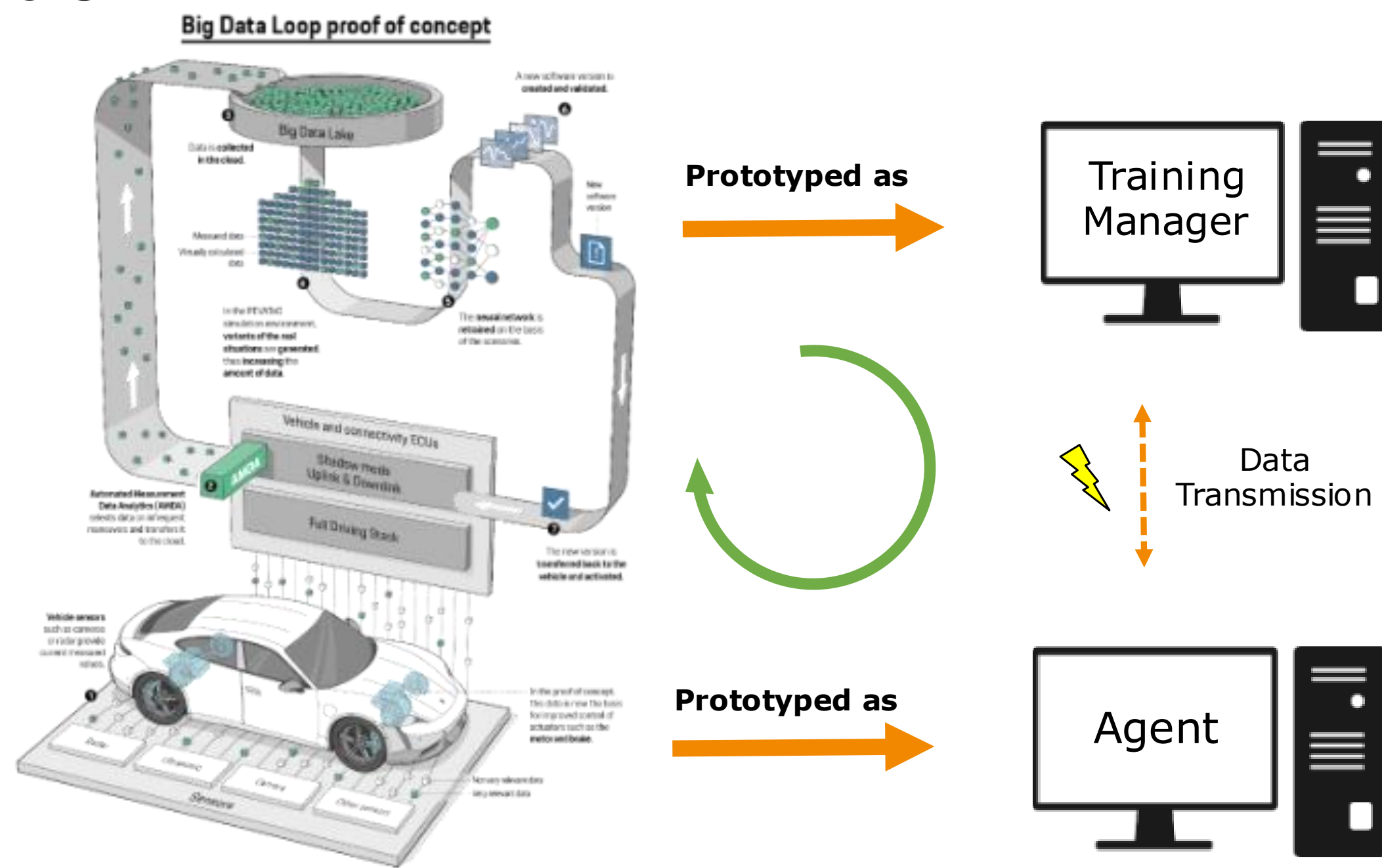
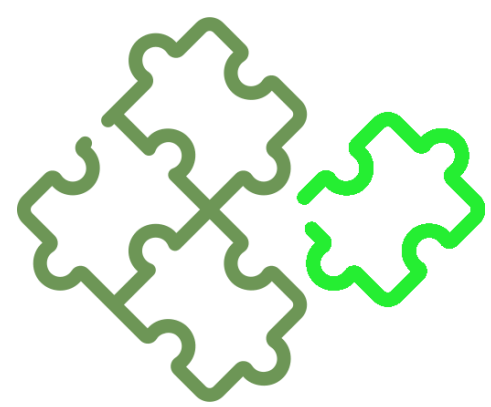


## UC description

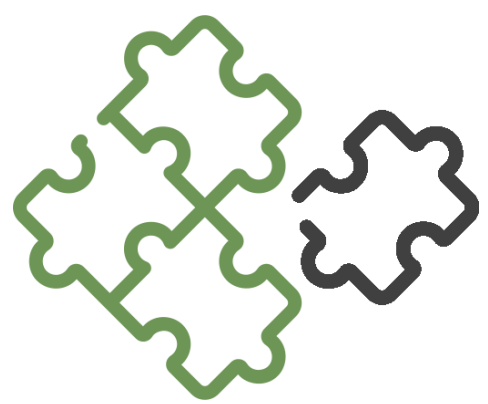
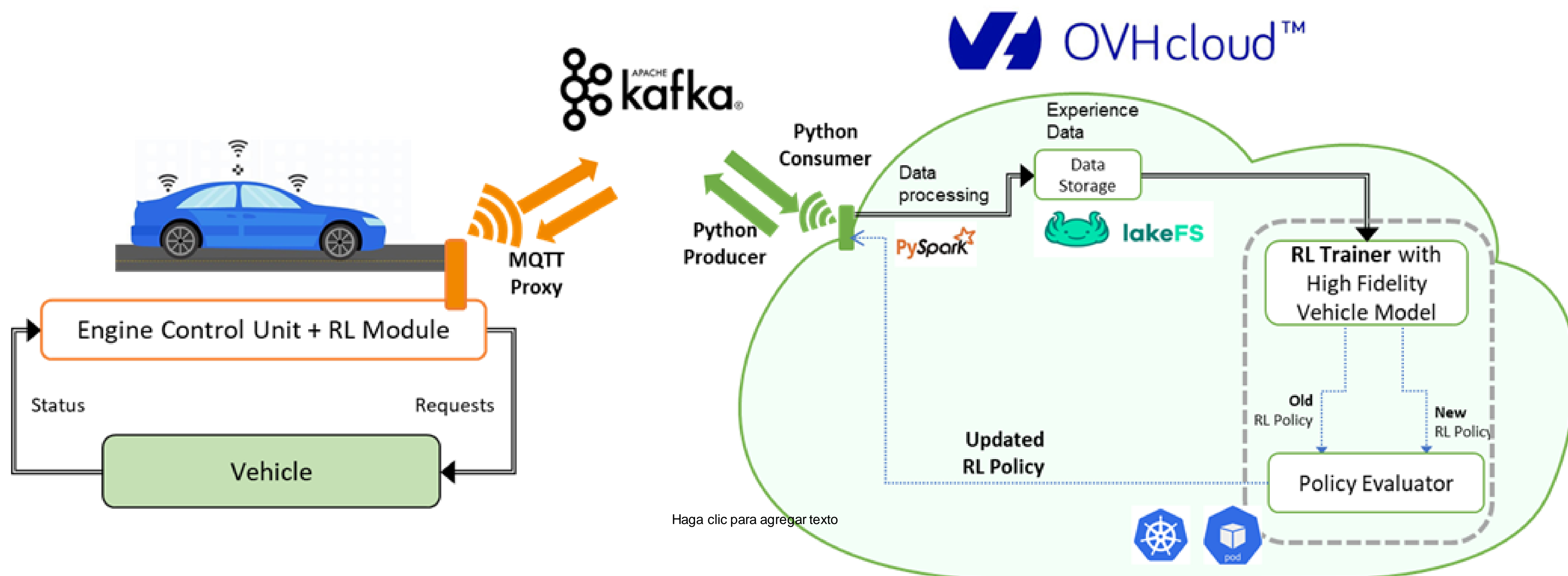


1. Vehicle Data handling, recording, filtration and categorization.
2. Cycles Data recording and utilization for further trainings.
3. Powertrain Model training and update.
4. Agent training (in a semi-supervised fashion).
5. Testing the improved policy
6. Deploy the new policy to the agent

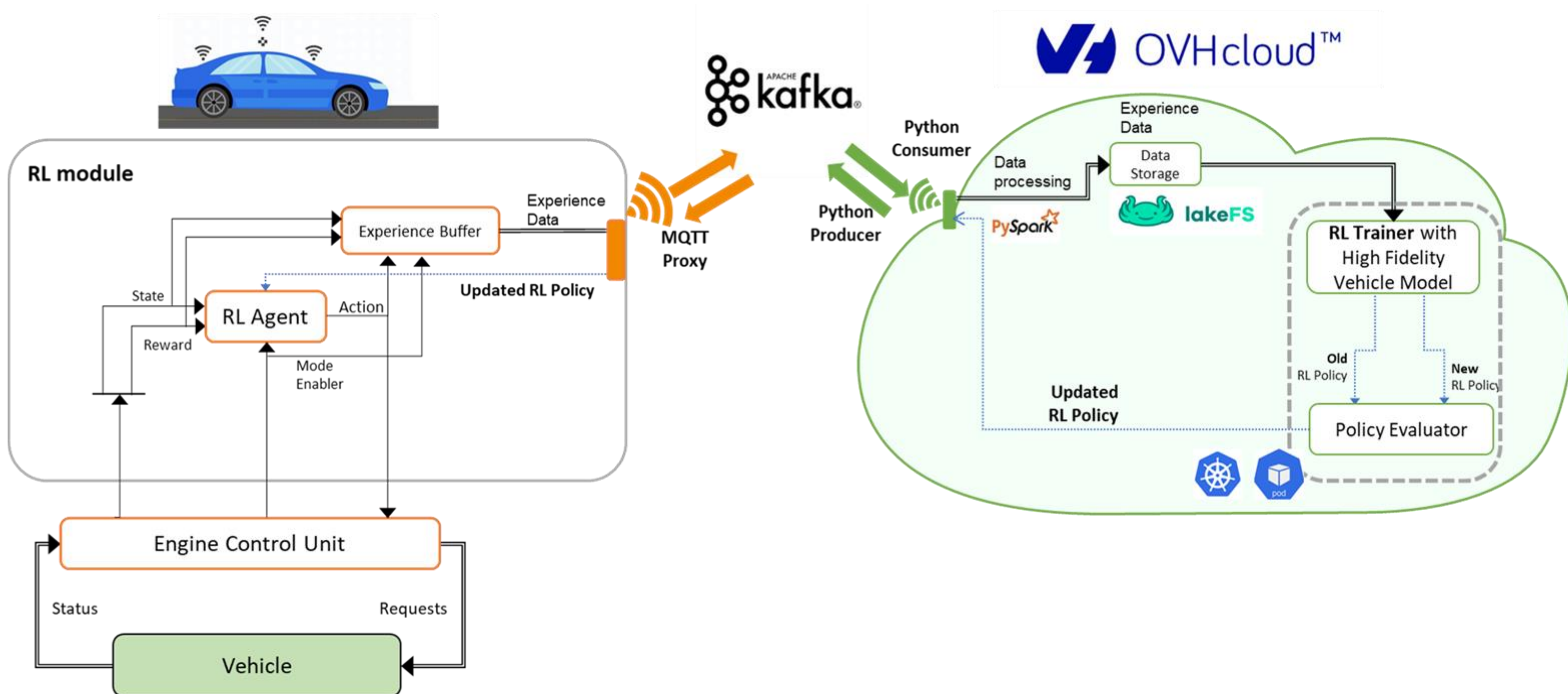
1. RL policy execution.
2. Episodes Data recording
3. Sending data to the cloud and implementing the updated policy from the cloud.



## FRACTAL Components



## UC Components



## KPIs (feature: adaptability)

Technical KPIs	quantitative criteria
Degree to which the control reaches its goals. Deviation between rule-based and RL-based control strategy.	< 5%
The RL-based control strategy needs to outperform the rule-based in terms of energy consumption.	energy consumption on unseen drive cycle < energy consumption on the reference cycle

Business KPIs	quantitative criteria
Reduction of calibration effort	25%
Responsiveness on unseen scenarios	strategy can handle unseen scenarios

EU2020 Horizon

Project N.877056

