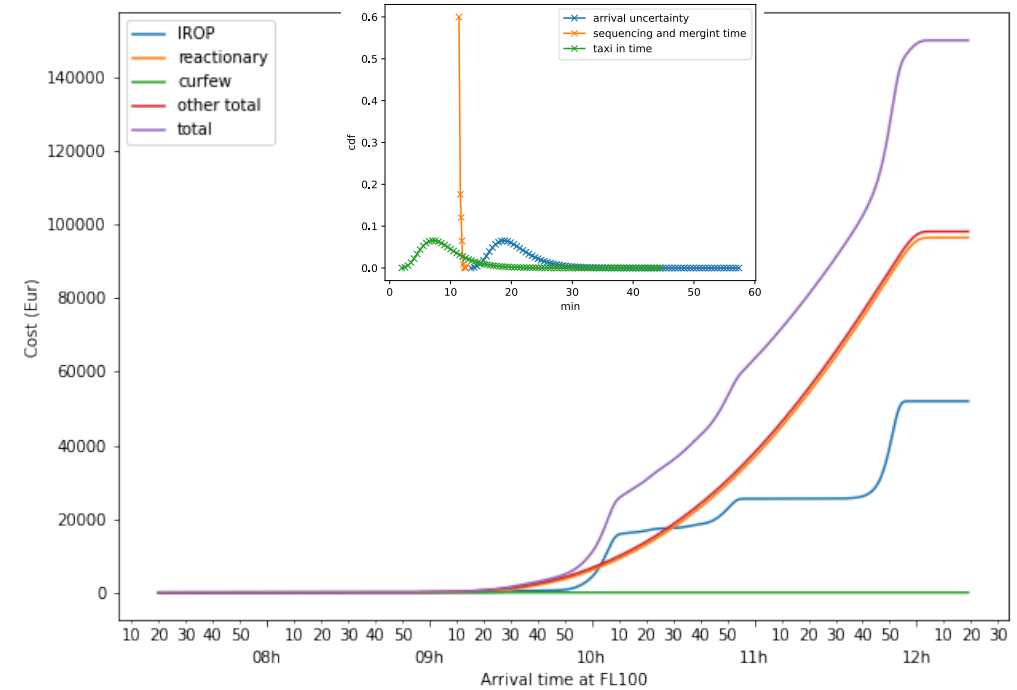
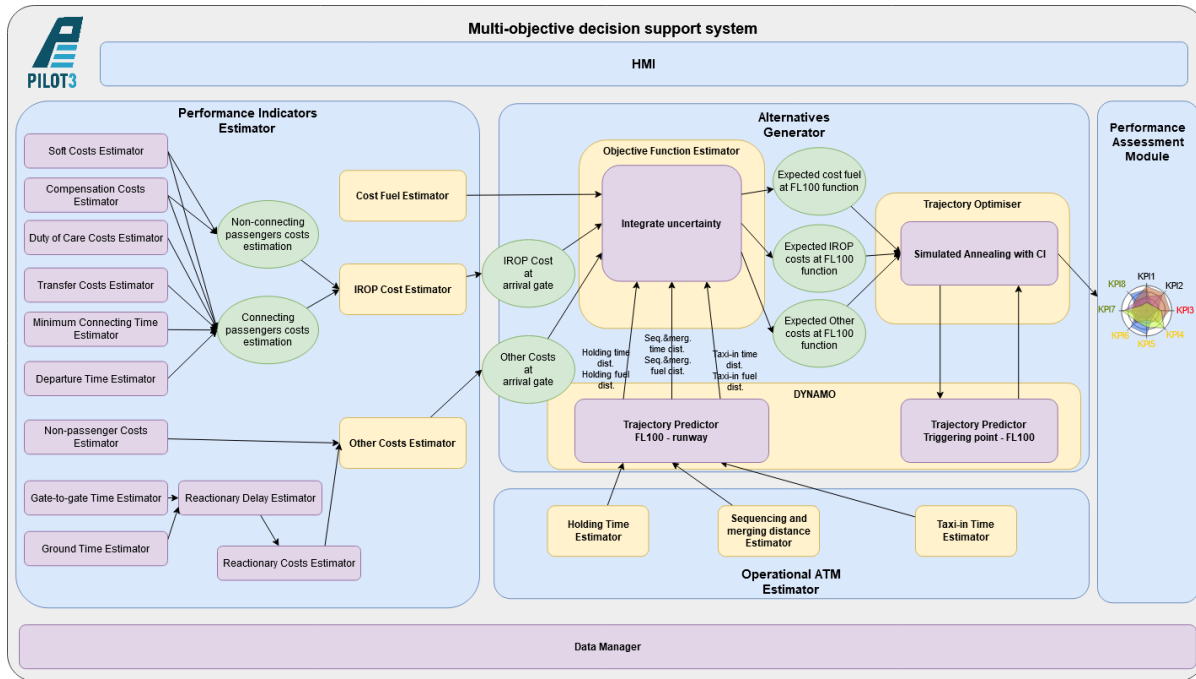


# A software engine for multi-criteria decision support in flight management

## Use of dynamic cost functions – Architecture and first results



### Modular architecture

- **Performance indicator estimator:** dynamically estimating delay costs at gate
- **Operational ATM estimator:** dynamically estimating uncertainty at arrival
- **Objective function estimator:** integrating uncertainty on cost
- **Alternatives generator:** optimising cost index
- **Performance assessment module:** ranking alternatives

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### Estimation of cost function

Cost function for cost components considering uncertainties at arrival:

- Passenger related costs
- Reactionary delay costs
- Curfew costs
- Other costs

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