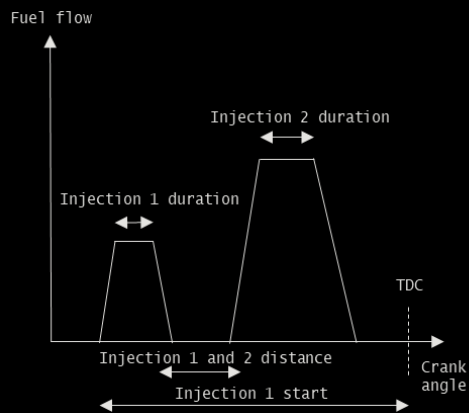




Optimization of injection strategy using AI

- A Neural Network was trained to correlate injection strategy with engine emissions
- The objective of the optimization is to find the best strategy to minimize engine emissions



I
N
P
U
T

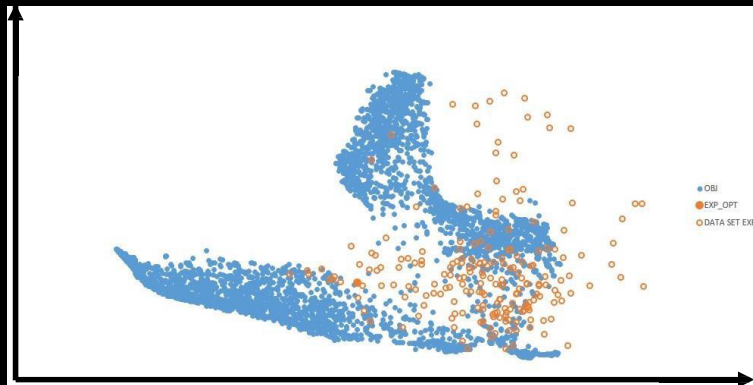
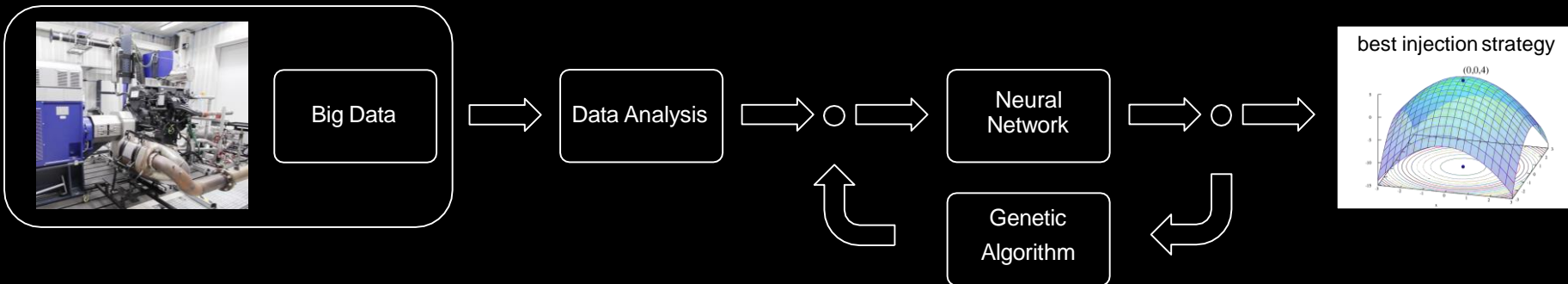
Neural
Network



O
U
T
P
U
T

NO_x
CO
HC

Emission
Prediction



- Training Set → 200 experimental acquisitions (< 3.5 h)
- Evaluated Set → 10.000 virtual acquisitions (3h instead of 6 days)
- Important NO_x reduction