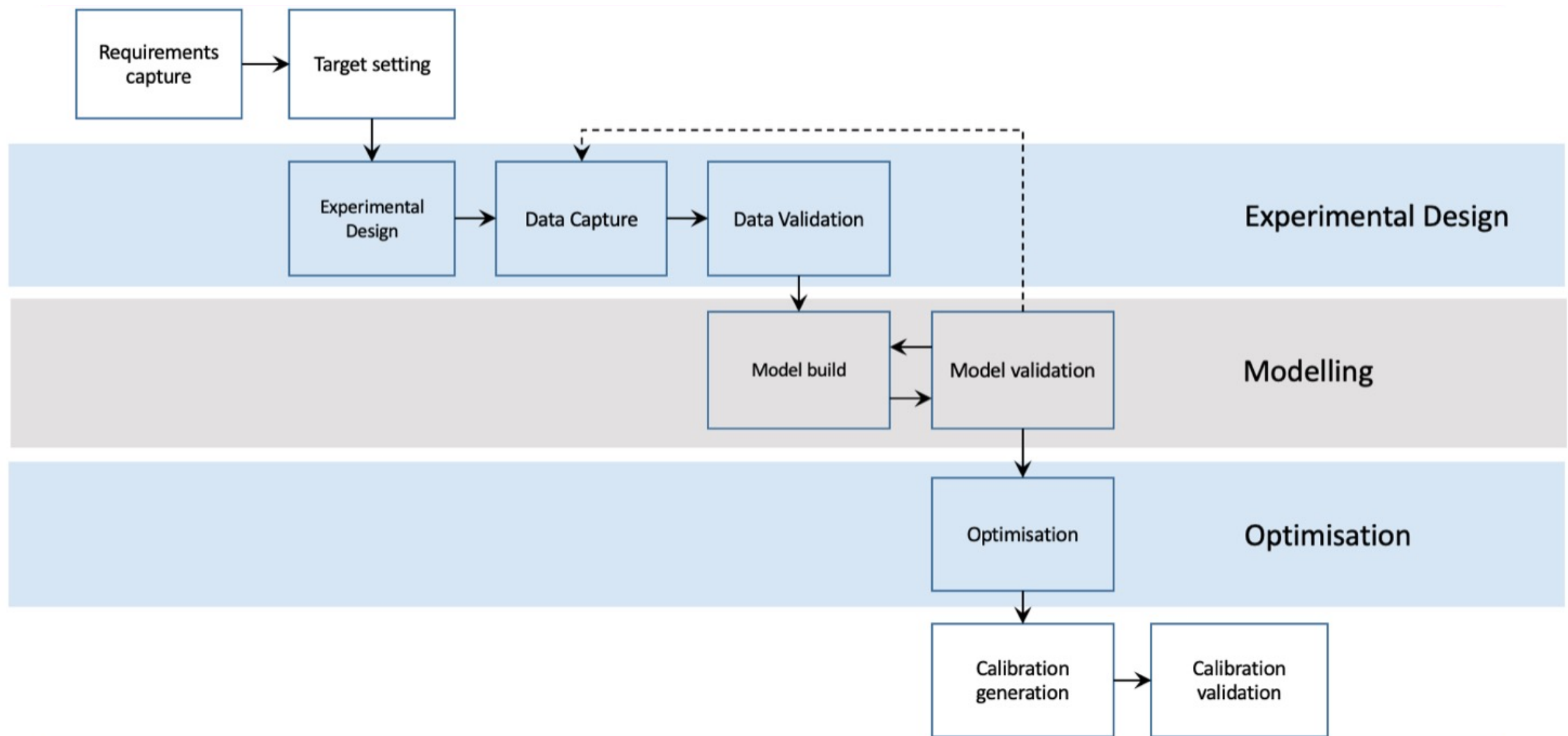


Calibration Exercises

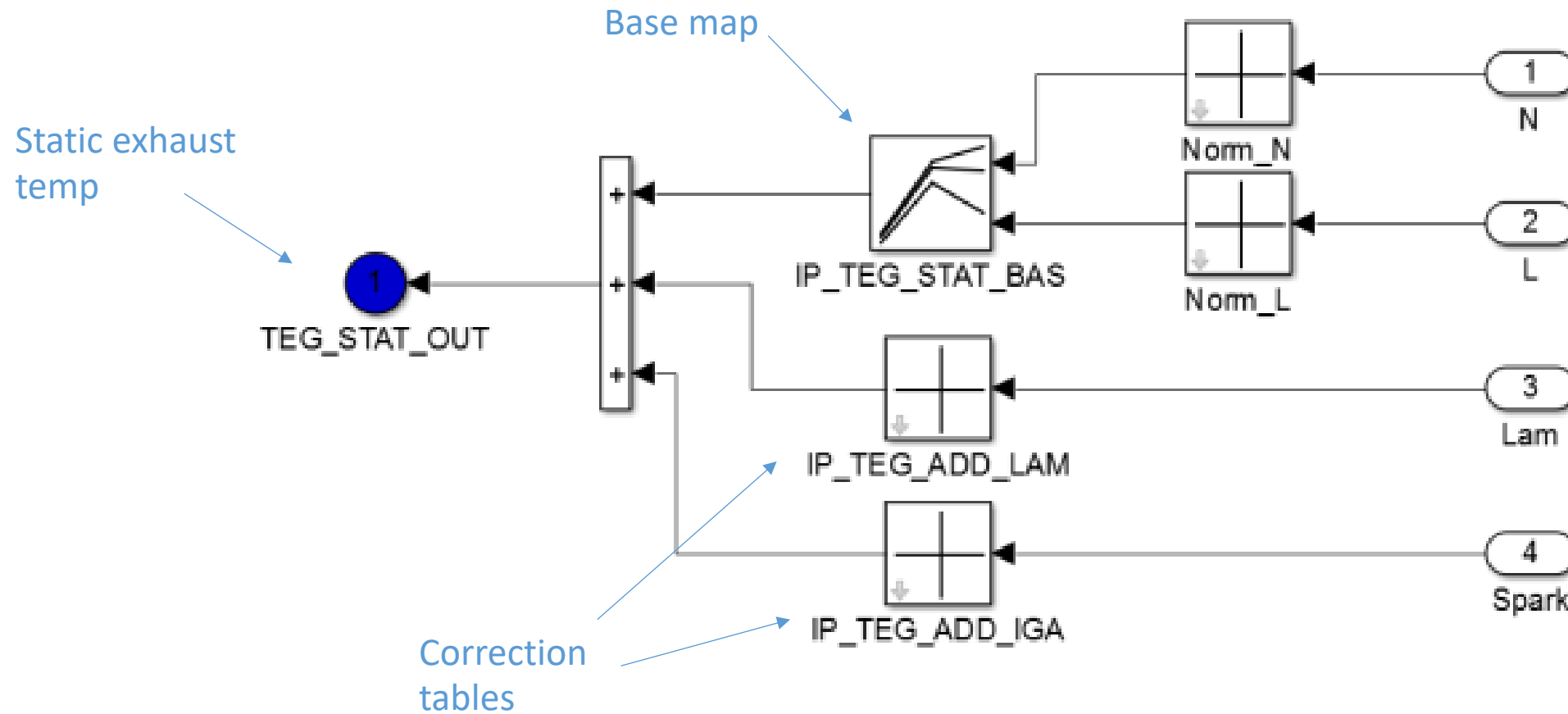
Introduction



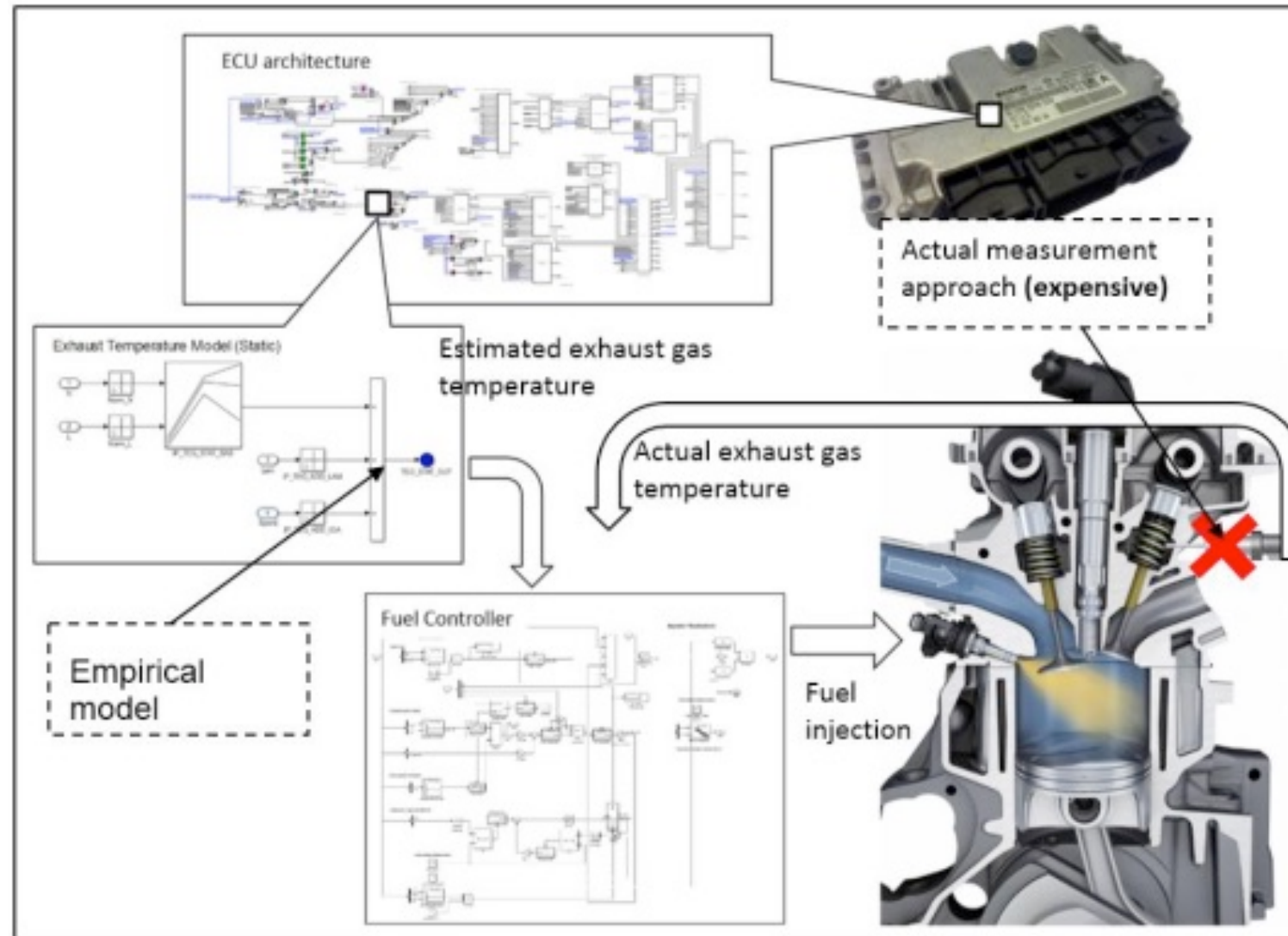
Calibration Exercises

- Lesson 4 – Engine modelling (v8 Engine Example)
 - Lesson 5 – Feature Calibration (v8 Engine Example)
 - Set up models, features and strategy
 - Establish calibration tables
 - Calibrate a feature
 - Lesson 6 – V8 Engine Trade-off Calibration ($\text{BMEP}_{\text{mean}}$ / BMEP_{var})
 - Lesson 7 – PI Controller Calibration (optional)
-

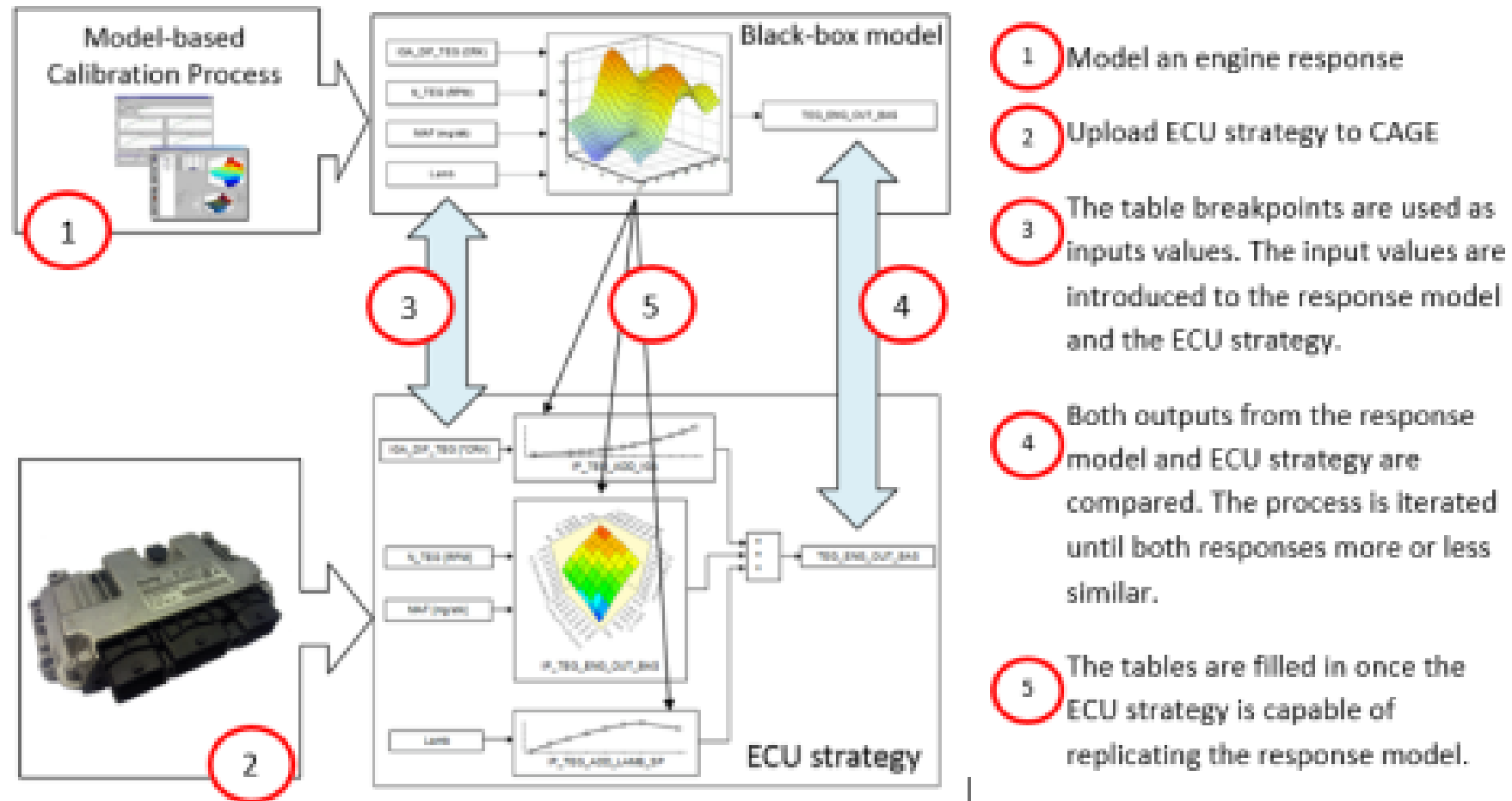
Lesson 5 -Exhaust Temperature Model (simplified)



Powertrain Calibration Optimisation

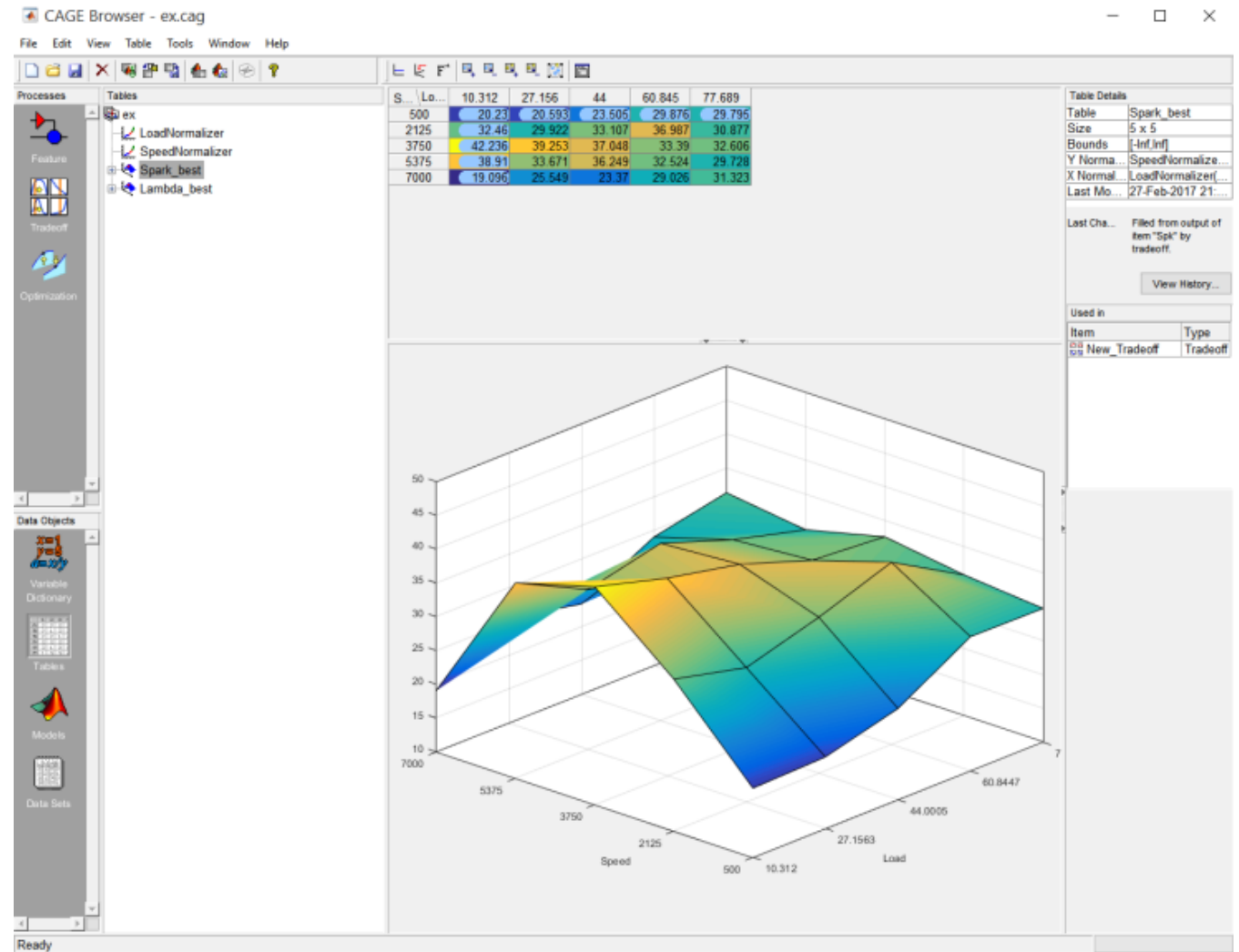


Powertrain Calibration Optimisation



Lesson 6

- Optimise for $BMEP_{mean}$ whilst minimising $BMEP_{var}$ subject to constraints of $T_{exh} < 800C$.
- Compare a manual and 'automatic' approach



Lesson 7

- PI Controller Calibration
 - Fuel controller

