

## Input

### Driver demand

- Accelerator pedal position
- Gear step
- Driving mode (Eco, Sport, ...)

### Operating condition / sensor

- Thermodynamic information
- Mechanical information
- Actual actuator position

### Vehicle communication

- Drive train components
- Brake signal (ABS)
- Error state

## Processing



### Management

- Operating condition
- Torque request
- Failure handling

### Target value calculation

- Air path
- Fuel path
- Ignition path (gasoline)

## Output

### Information

- Diagnosis
- Engine data (e.g. fuel consumption)

### Actuator

- Fuel management
- Air management
- Engine peripherals

### Vehicle communication

- Thermodyn. engine parameter
- Mechanical engine parameter
- Error in diagnosis