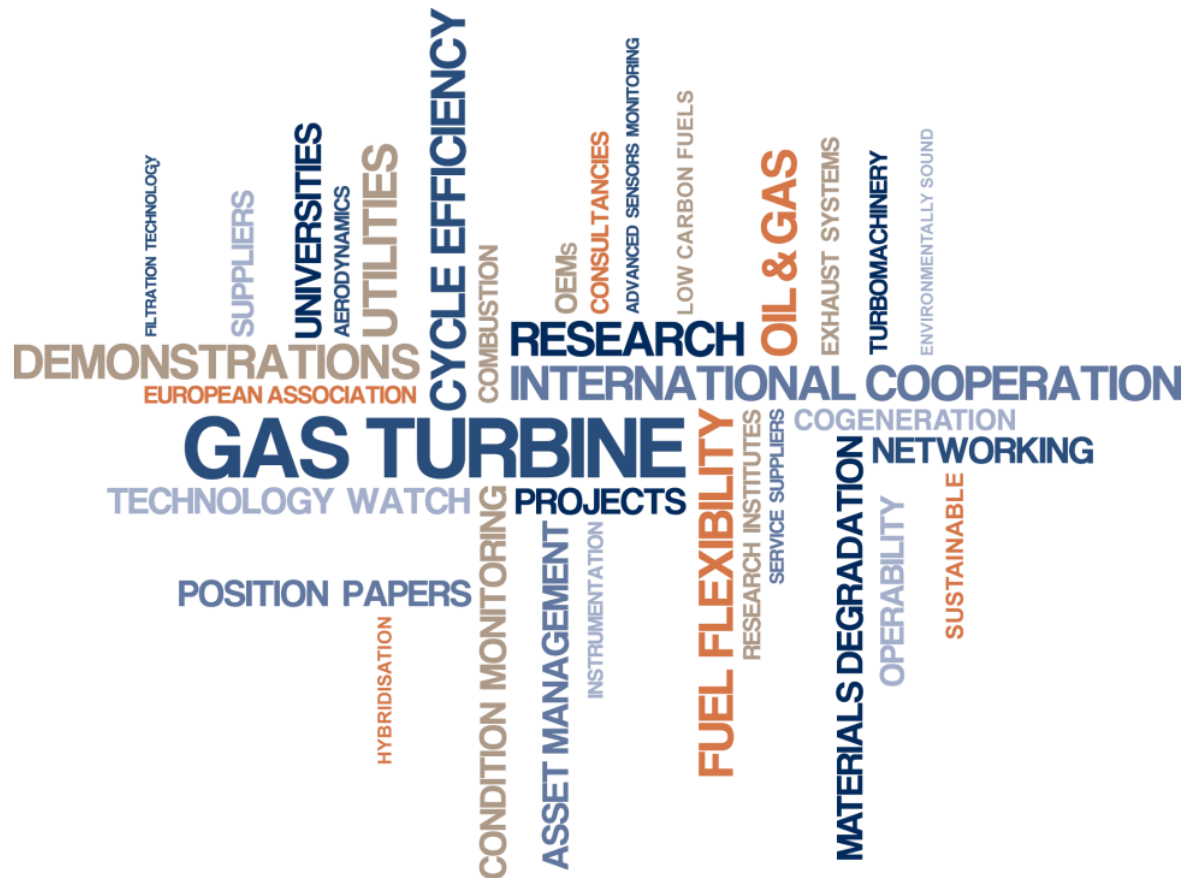




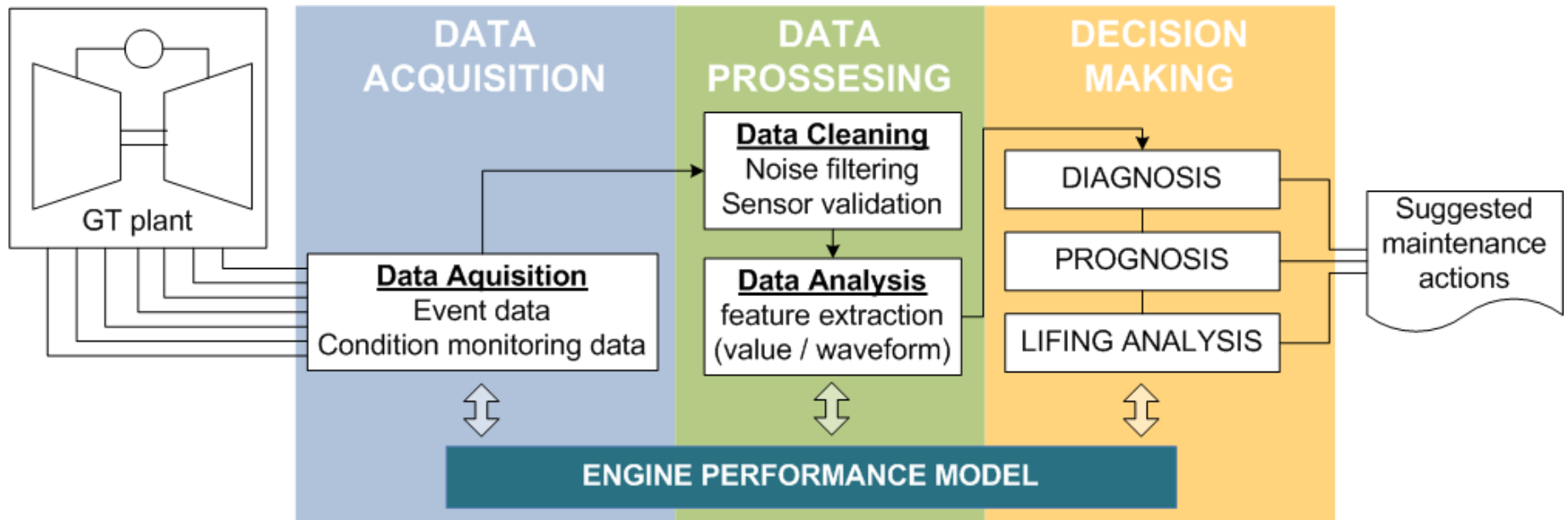
# Condition-Based Maintenance for GT plants





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# Overview of the CBM approach



CBM is a maintenance approach, where maintenance actions are suggested, based on information collected through condition monitoring



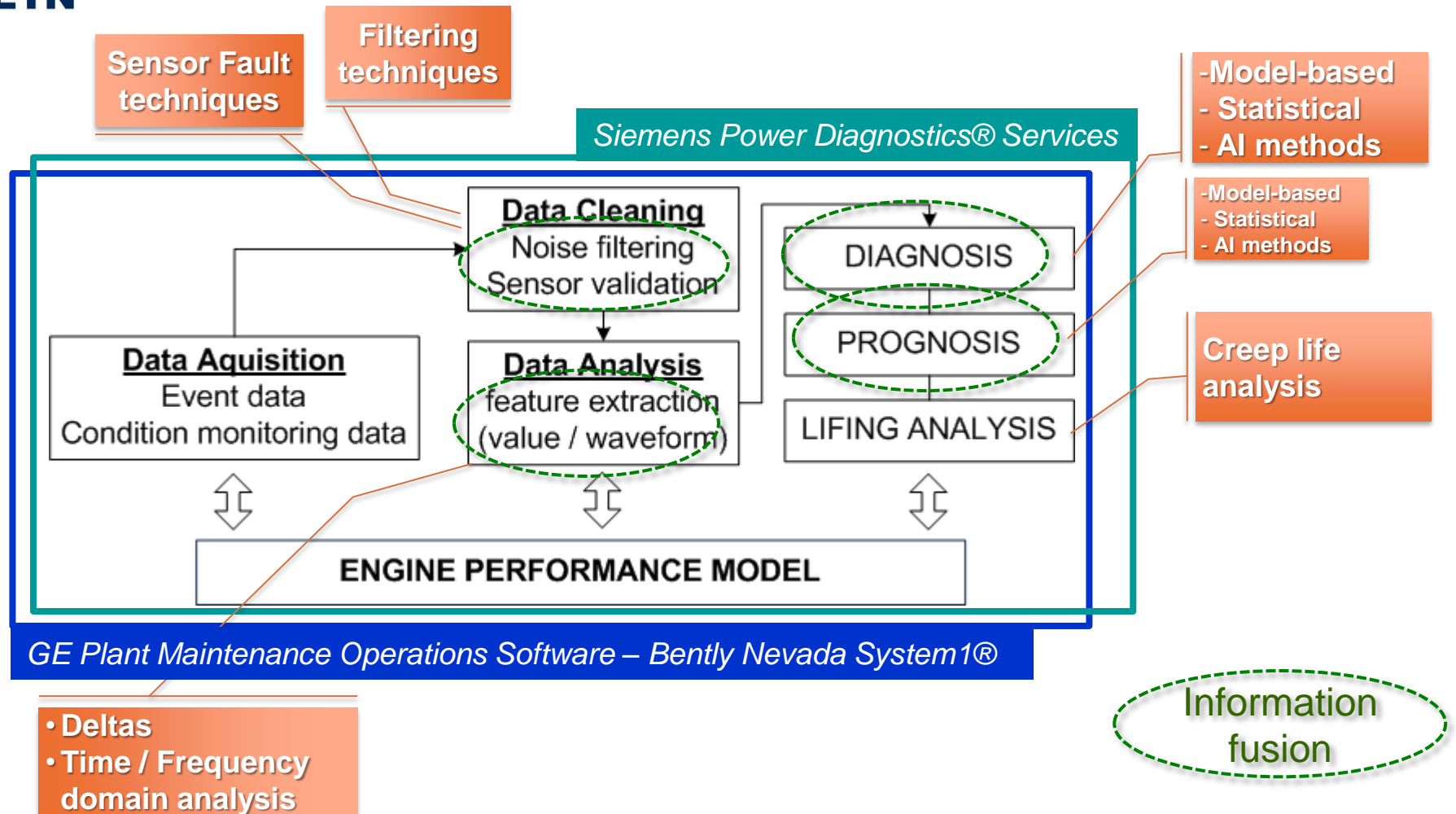
# Benefits from incorporating CBM policies

- ❑ CBM can lead to increased RAM, along with cost-efficient plant operation.
- ❑ Maintenance point of view; allow better planning (spare parts, arrange personnel and necessary equipment in well advance), result in improved availability and reduced operating costs.
- ❑ Strategic planning point of view; a CBM program can assist in modifying the plant operating profile according to the actual health condition of the engines and the commercial needs.



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# Current status of CBM practices

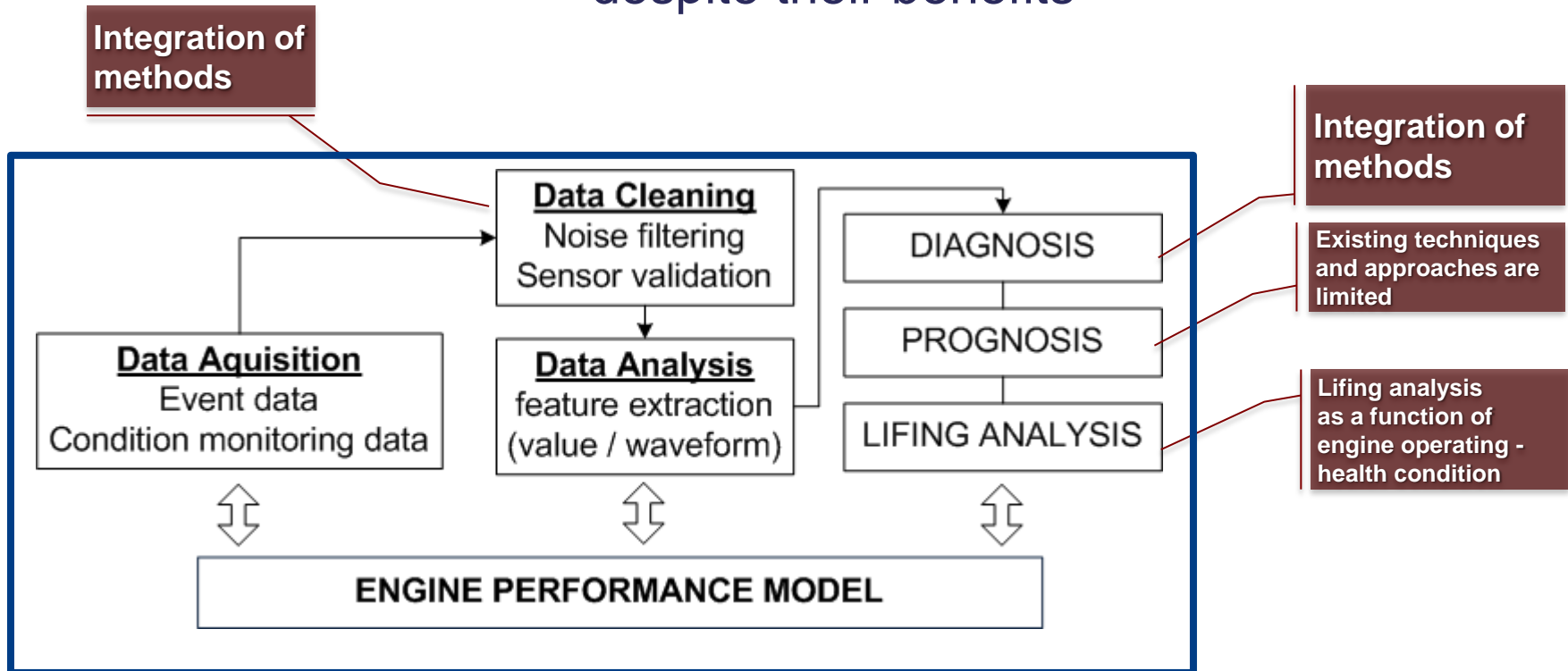




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# What is missing?

CBM policies are not widely adopted,  
despite their benefits



## CBM validation approaches

Without CBM performance metrics, qualitative and quantitative evaluation of any CBM policy or planning will be subjective and its effectiveness over existing maintenance practices cannot be justified.

# Key points of the proposed project (I)

## □ Main scope of the project:

- Bridging the gap between advanced maintenance methods and current industry practices.

## □ Issues addressed in the project:

- Development of efficient diagnostic, prognostic and lifing approaches
- Integration of diagnostic/maintenance approaches
- Development of efficient validation approaches
- On-site testing and evaluation of the developed CBM tool

# Key points of the proposed project (II)

## □ Ideal consortium:

### ➤ Academia/Research institutions:

The research community should contribute by developing CBM related methods. Integration and a common platform of the developed methods is also a task.

### ➤ Industry:

The participation of industrial partners and gas turbine users is vital for the success of the proposed project. In addition, the industrial partners could provide requirements for CBM related methods and install/test developed techniques.

## □ Desired scheme:

### ➤ EU funded project





Rue Saint Georges 30, 1050 Brussels, Belgium

Tel: +32 (0)2 646 15 77 [info@etn-gasturbine.eu](mailto:info@etn-gasturbine.eu)

[www.etn-gasturbine.eu](http://www.etn-gasturbine.eu)