

# ASSIGNMENTS

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## 1 Assignment 1.1

**Assignment:** To write down an initial list of requirements for an aircraft that shall replace A350, with an entry into service in 2030. Please, while listing the requirements, refer to the categories reported in Sect.1.4

### *List of Requirements*

- Item 1
- Item 2
- Item 3
- Item 4
- ...
- Item N
  - SubItem 1
  - SubItem 2
  - ...
  - Subitem M
- Item N+1

## 2 Assignment 1.2

**Assignment:** On the basis of the list of Requirements elicited in the previous step, identify a good list of reference aircraft and collect data to be used as meaningful statistical population.

### 3 Assignment 1.3

**Assignment:** *Critical Analysis of statistical trends.* Verify whether your statistical population fits the trend reported in literature (e.g. Raymer) or suggest improvements to the simple mathematical models (e.g. updates of coefficients).

### 4 Assignment 1.4

**Assignment:** *Guess data estimation for the reference case study.* Apply the original or improved statistical trends to perform the first guess data estimation for the reference case study. Please, report all iterations needed to convergence to the design maximum take-off mass. An example of iterations is reported into [1], pages 43-52.

As Higashikata [1] says, this is a book

### References

- [1] Josuke Higashikata. *How to be a Stand User*. Speedwagon Foundation, 2018.