# Aircraft Passenger Cabin Stakeholders & Design Drivers - A Holistic NPDI Framework

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## Value Statement:

The presented toolset defines the stakeholders involved in aircraft passenger cabin interior development projects, and their pursued design drivers. - Stakeholder Definition sheet presents all types of organisations involved in the design of aircraft cabin interiors, disregarding of the involvement extent.

- Stakeholder Analysis sheet contains the pairwise comparison matrices for all stakeholders along the influence and interest axes, and the resulting plot.

- Cabin Design Drivers sheet contains the definition of drivers pursued by the cabin interior projects. These are defined as a multi-level structure including:
- -- Top-level profitability-based design drivers,
- -- Their constituent factors representing the design considerations and themes, and
- -- Bottom-level design criteria representing the detailed product specifications, requirements, features, qualities, performance targets etc.
- Design Factor Weights present a set of pairwise comparison matrices for deriving the relative importance weights at the factor and driver levels.
- R Input sheet contains R code template to use with R Studio software to retrieve Eigenvector values.
- Design Factors Map sheet contains factor applicability mapping to represent stakeholder concern and interaction points on a cabin interior project.
- Cabin Product Breakdown sheet presents the composition of state-of-the-art cabin interiors by listing out the components it may have. The presented list is an allencompassing version and does not represent the product line of any specific cabin manufacturer or equipment supplier.
- The presented sheets may be used as information source, or be amended to reflect the needs of their specific project. Amendments may be performed in the white cells of the pairwise comparison matrices on Stakeholder Analysis and Design Factor Weights; and applicability indicators in Design Factors Map and Cabin Product Breakdown sheets.

#### Abbreviations:

Abbreviations:		
AIP	Aggregate Individual Priority	
AMC	Acceptable Means of Compliance	
ANSP	Air Navigation Service Provider	
AOG	Aircraft On Ground	
BFE	Byer Furnished Equipment	
CA	Certification Authorities	
CAD	Computer-Aided Design	
CDS	Content Delivery System	
CEM	Cabin Equipment Manufacturer	
CSR	Corporate Social Responsibility	
DMO	Destination Management Organisation	
FEM	Finite Elements Analysis	
FST	Fire, Smoke, and Toxicity	
GHP	Ground Handling Provider	
IFE	In-Flight Entertainment	
LOPA	Layout Of Passenger Accommodation	
MRO	Maintenance and Repair Organisation	
NDT	Non-Destructive Testing	
NPV	Net Present Value	
NRC	Non-Recurrent Costs	
PE	Premium Economy	
PED	Personal Electronic Device	
PSU	Passenger Service Unit	
QA	Quality Assurance	
R&D	Research & Development	
RC	Recurrent Costs	
RM	Revenue Management	
RoHS	Restrictions of Hazardous Substances	
RS	Requirements Specification	
SFE	Supplier Furnished Equipment	
TRL	Technology Readiness Level	