



TECHNOLOGY BIZ 2018: Alla Geven i fondi UE per migliorare il comfort degli aerei

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INTRODUZIONE - *GEVEN*

L'azienda Geven s.p.a. opera attualmente in tre divisioni, Aeronautico, Navale e Ferroviario.

L'attività prevalente della Geven è orientata verso il comparto dell'Aeronautica.

I prodotti certificati Geven sono destinati all'arredamento degli aerei commerciali, militari, business jet, VIP&Corporate.

Le principali linee di business della Geven sono:

- Poltrone per passeggeri
- Poltrone per piloti
- Altri arredi di interni (Lavatory&toilet, Galley, Guardaroba)
- Pannelli di rivestimento interni
- Sistemi pallettizzati
- Strutture/finiture e isolamento termoacustico della Cabina

L'ampia gamma di poltrone per passeggeri e piloti comprende le seguenti classi:

- Classe turistica
- Business Class
- VIP Class
- Military seats

● *Nola (n. 4) + S. Sebastiano (n. 1)*

N. 2 Company (Geven/Skytechno)
N. 5 Plants

LOCATION	Nola – Italy Industrial Area
Superficie	42.000 m² +18.000 m² in progress



INTRODUZIONE – CERTIFICAZIONI & APPROVAZIONI

Company Approvals:

- ❖ UNI EN ISO 9001 : 2015 (cert. body TÜV)
- ❖ UNI EN 9100 : 2018 (cert. body TÜV)
- ❖ PART 21 (G) Production Organization EASA Approval n. IT. 21G.0009
- ❖ PART 145 Maintenance Organization EASA Approval n. IT. 145.0029
- ❖ PART 21 (O) Alternative Procedure to DOA n. AS-AP-003 (AP109)



Customers Approvals:



- AIRBUS BFE Approved Supplier
- ATR Approved Supplier
- LEONARDO Approved Supplier
- AIRBUS D&S Approved Supplier
- BOEING Def. Sys. Approved Supplier
- ATITECH Approved Supplier
- PIAGGIO Aero Industries Approved Supplier



INTRODUZIONE – LABORATORI



‘Crash Test Facility’ per certificazione ‘interiors’:

- FAA/EASA (Aviation)
- IMO HSC code (Maritime)



‘Static Test Facility’ per certificazione ‘interiors’:

- FAA/EASA (Aviation)
- IMO code HSC (Maritime)

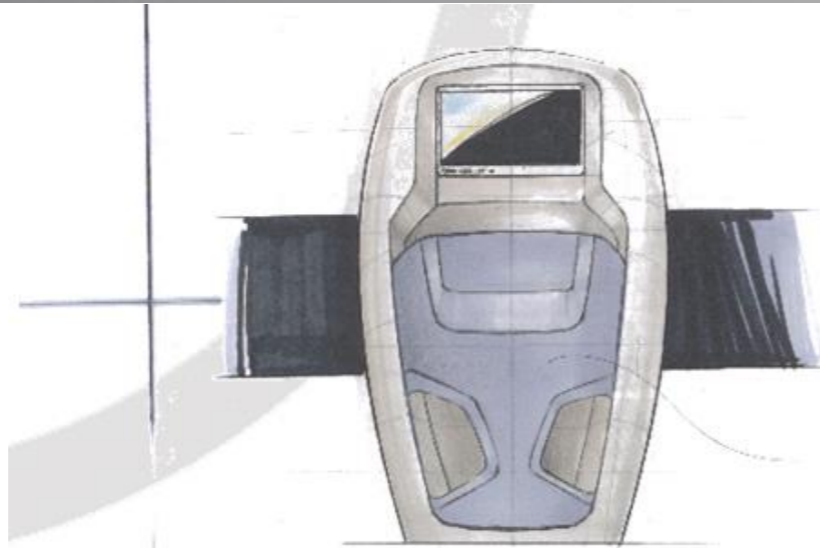
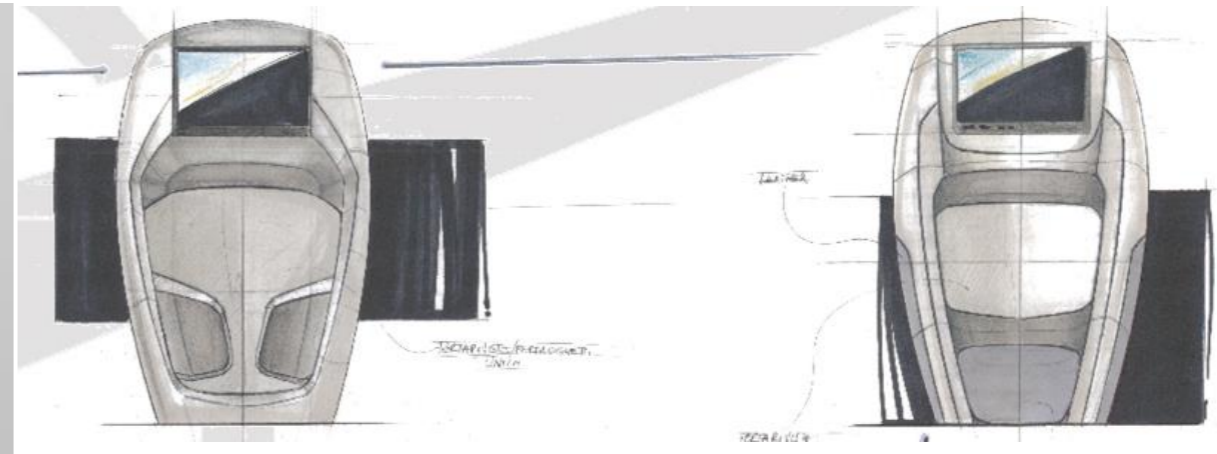


‘Flammability Laboratory’ per la certificazione dei materiali:

- FAA/EASA
- AIRBUS / BOEING/ LEONARDO



INTRODUZIONE – STYLING



INTRODUZIONE – SEDILI ‘PREMIUM & ECONOMY CLASS’



INTRODUZIONE – SEDILI ‘PREMIUM & ECONOMY CLASS’



INTRODUZIONE – SEDILI ‘BUSINESS CLASS’



INTRODUZIONE – ‘GALLEY’



INTRODUZIONE – ‘LAVATORY’



INTRODUZIONE – SISTEMI PALLETTIZZATI

VIP Module



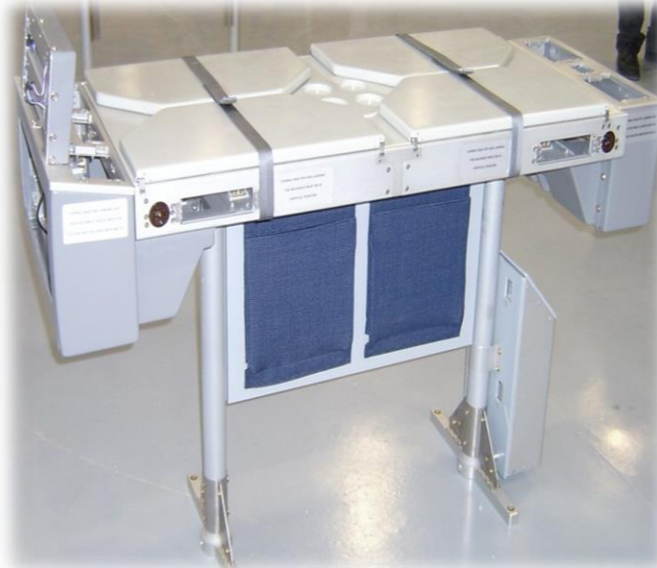
FWD Module with Galley



AFT Module



INTRODUZIONE – ULTERIORI ALLESTIMENTI

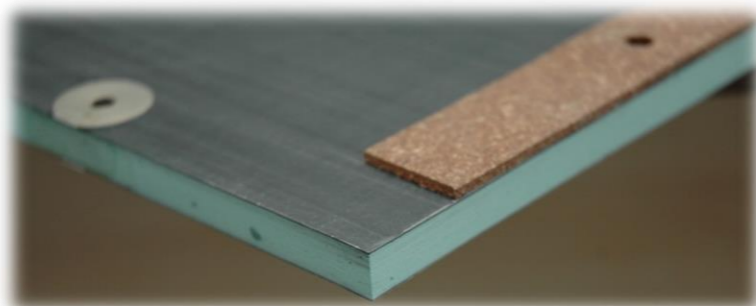


INTRODUZIONE – PAVIMENTO & TERMOACUSTICI

Blankets



Floor Panels



CASTLE (CAbin Systems design Toward passenger welLbEing)

PARTNERS

The CASTLE Consortium is represented by eleven partners:

Project Coordinator

GEVEN (Italy)

Project Beneficiaries

- Acumen Design Associate LTD (UK)
- Invent GMBH (Germany)
- PGA electronics (France)
- Siemens Industry software NV (Belgium)
- Noesis (Belgium)
- DEMA (Italy)
- CIRA Italian Aerospace Research Center (Italy)
- UNINA: University of Naples Federico II (Italy)
- UNIBO: University of Bologna (Italy)
- POLITO: Politecnico di Torino (Italy)



PROJECT DETAILS

Duration: 6 years

Start date: 1 July 2016

Consortium Composition

- 7 Industries and SMEs
- 4 Research Organizations



GEVEN S.P.A. COORDINATOR

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CASTLE

"CAbin Systems design Toward passenger welLbEing"



This project has received funding from the Clean Sky 2 Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No CS2-AIR-GAM-2014-2015-01.

ABOUT THE PROJECT

The Clean Sky 2 Programme (CS2) has been launched under H2020 and runs from 2014-2024 to enable the continuation of the successful Clean Sky 1 under FP7. CS2 aims at supporting further gains in environmental impact, support new mobility for EU citizens, and reinforce the global competitiveness of the European aeronautics industry and its supply chain.

The proposal "CAbin Systems design Toward passenger welLbEing" - CASTLE (Proposal Number 699777) - has been presented by a Consortium of 11 partners on the call H2020-CS2-CPW02-2015-01 (Activity: AIR-02-08), published in collaboration between Leonardo Aircraft and Dassault Aviation, referring respectively to JTP Work Packages B-4.4 "Affordable Low Weight Human Centred Cabin" (integrated within Technology Stream B-4 "Advanced Fuselage of Regional Aircraft") and A-5.2 "Office Centred Cabin" (integrated within TS A-5 "Novel Travel Experience in the Business Jet Aviation").



OBJECTIVES

The objectives of CASTLE Consortium are the following:

- for regional aircraft - an improved and optimized passenger cabin environment by means of an innovative and integrated design approach, mainly based on human factor issues regarding ergonomics, anthropometrics, as well as effects of vibration, noise and motion on passenger, crew and people with reduced mobility, including psychological aspects
- for business jet - an improved and optimized passenger cabin comfort increasing passenger's well-being and efficiency, both turning the travelling time into effective productive time.

FOCUS

All proposed methodologies and technologies will be validated by following the building block approach: from the coupon level (single material characterization) up to interiors sub-component level (real scale cabin equipment) through element level (material layout and composition full characterization). The most promising methodologies and technologies will be brought from component level maturity up to the demonstration of overall performance at systems level to support the innovative flight vehicle configurations. Once validated, they will be applied to an on-ground pax demonstrator of cabin fuselage.



Soluzioni ergonomiche avanzate, comfort, usabilità per interni di aereo



Sviluppo di un design innovativo per l'interno cabina di Velivoli sia Regionali sia Business jet, supportato da tecnologie volte alla diminuzione del rumore interno cabina, introducendo materiali 'green' e illuminotecnica avanzata

Configurazioni Innovative di interno Cabina



CASTLE (CAbin Systems design Toward passenger welLbEing)

'Human-Centered'
Design

Ripensare completamente
l'ambiente Cabina seguendo un
approccio di progettazione che
tenga in considerazione i
bisogni specifici dei passeggeri

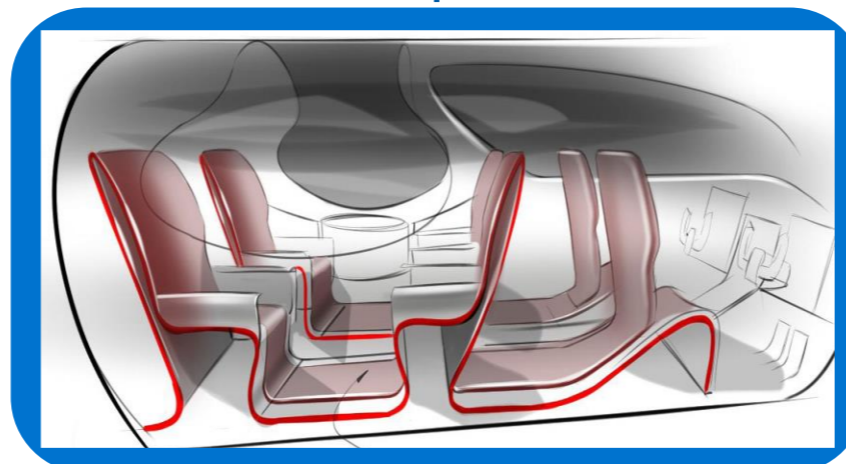
'Office-Centered'
Design



Migliorare l'ambiente Cabina
dei Velivoli Regionali
considerando i fattori umani
alla base della progettazione



Trasformare il tempo di
viaggio per i Velivoli
Business Jet in tempo
produttivo ed efficace



CASTLE (CAbin Systems design Toward passenger welLbEing)

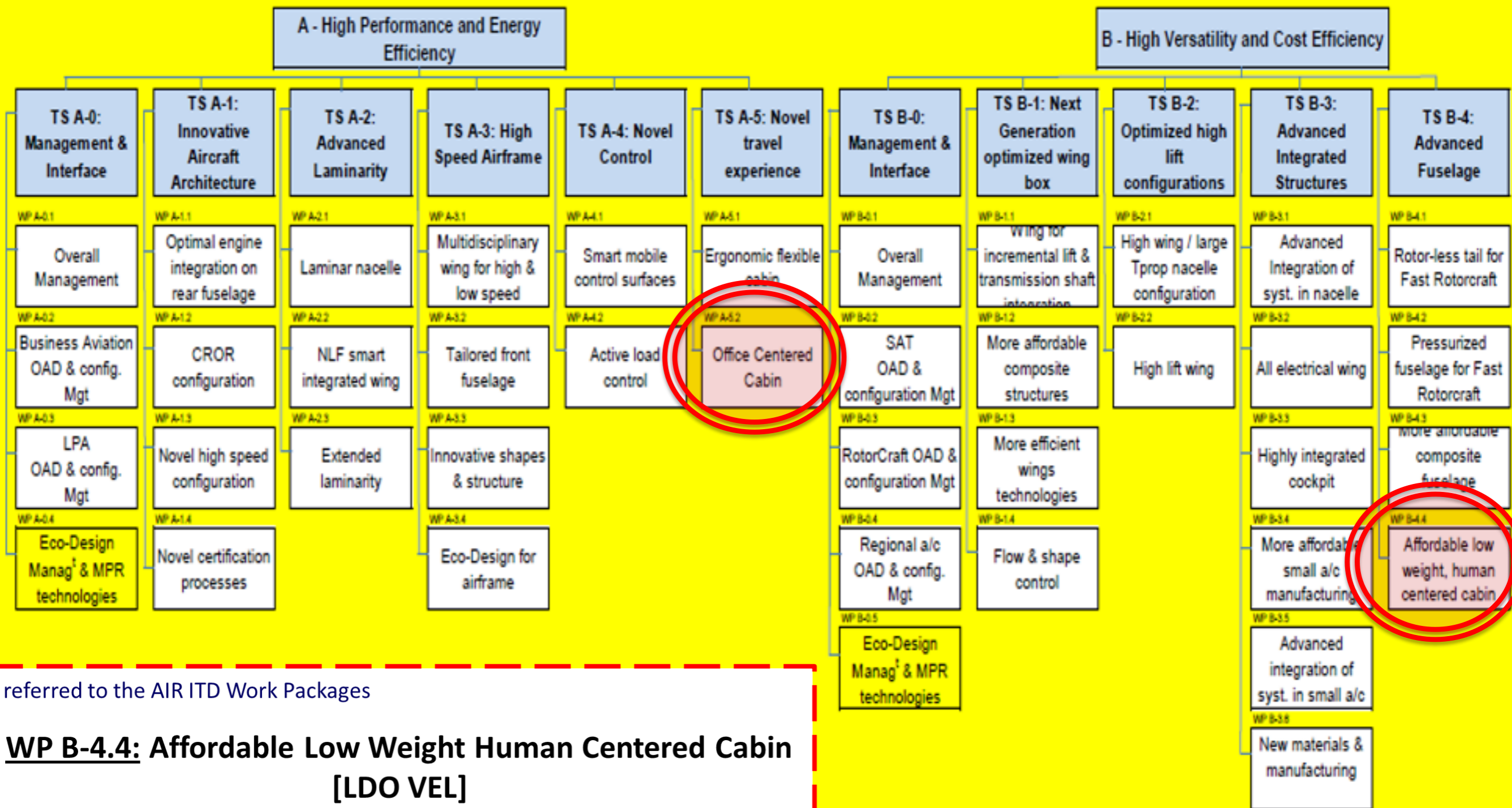


best rated answering to CfCP W2



JTI-CS2-2015-CPW02-AIR-02-08 - Cabin systems and Ergonomics, comfort & human perception improvements

CASTLE (Cabin Systems design Toward passenger welLbEing)

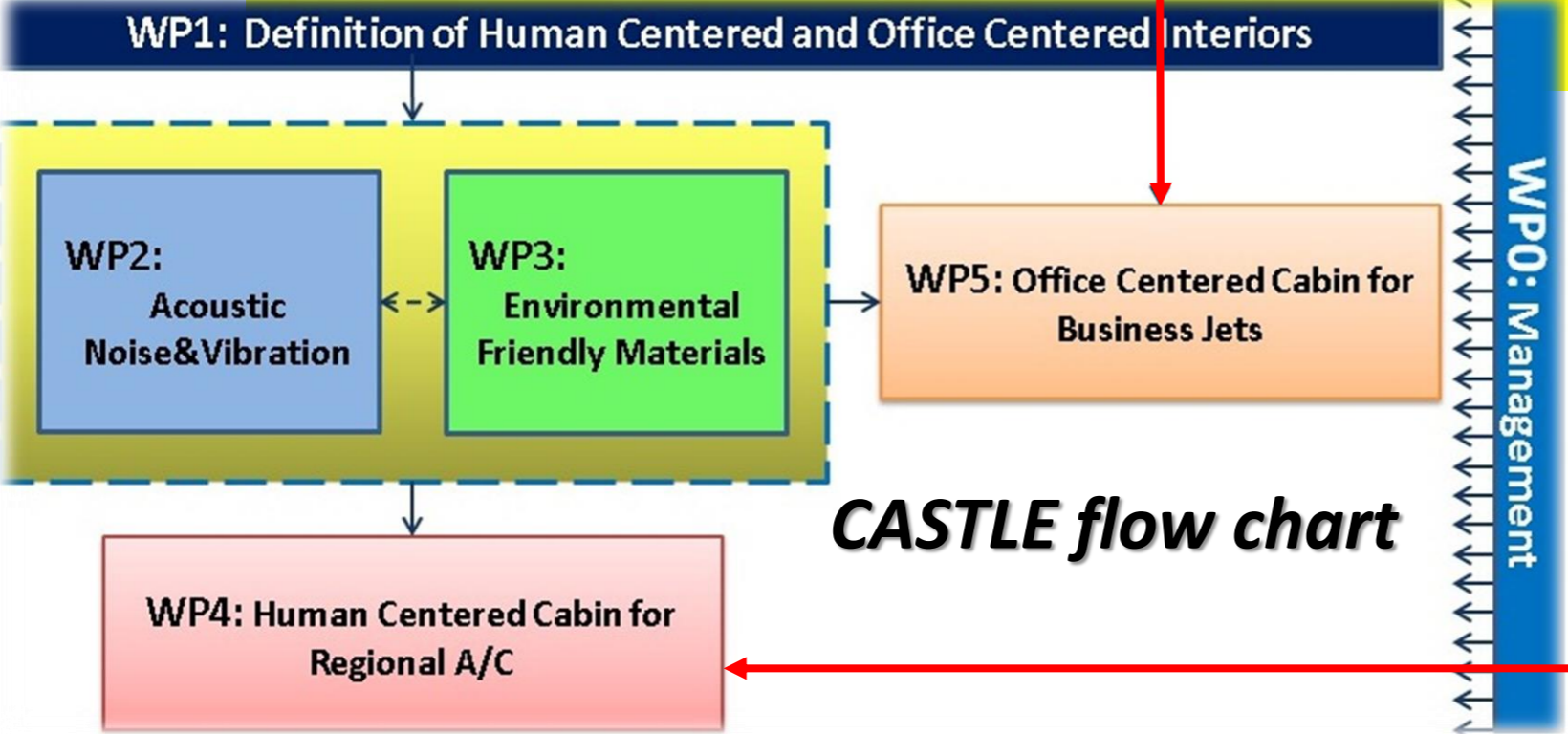
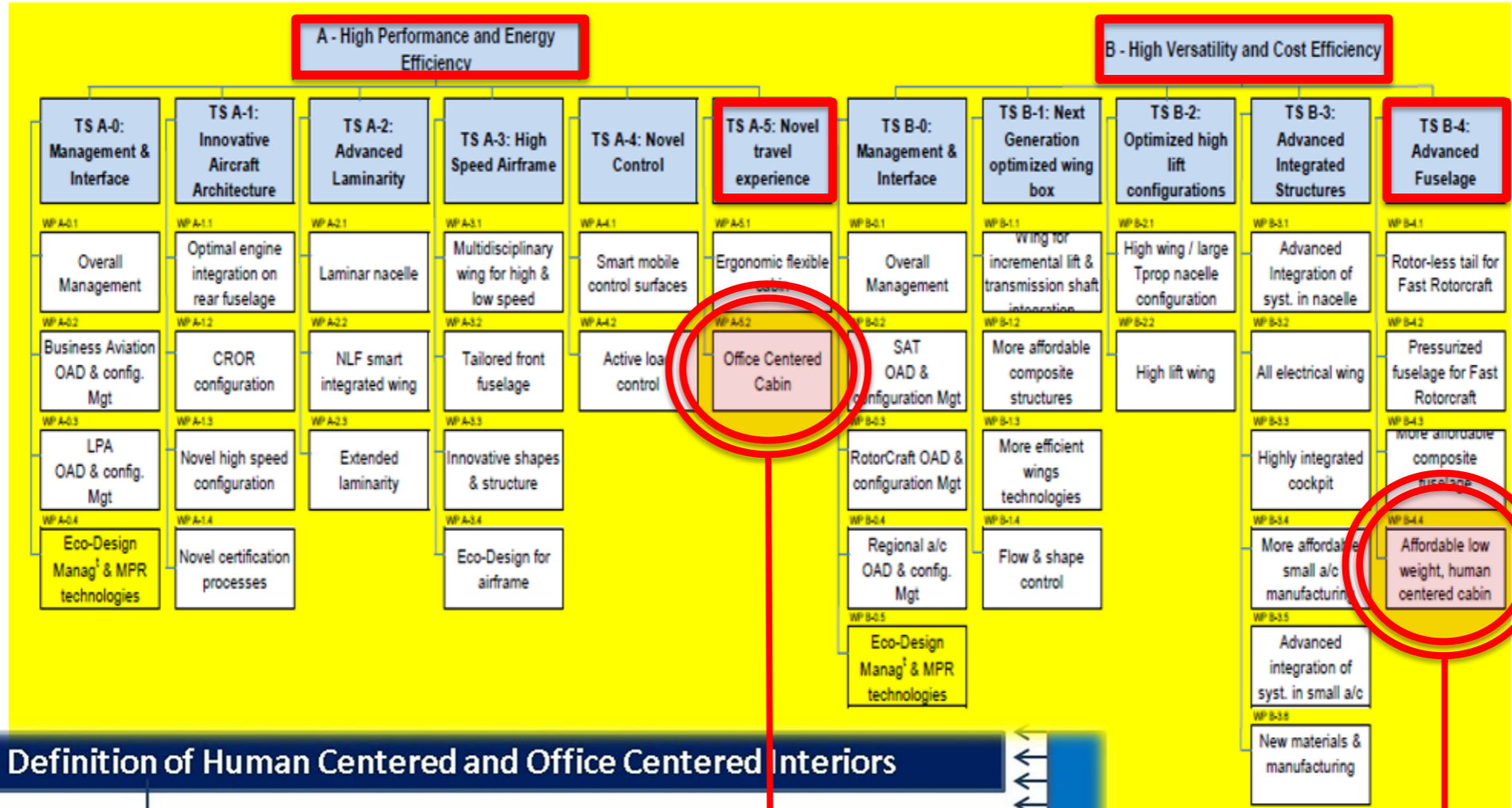


referred to the AIR ITD Work Packages

WP B-4.4: Affordable Low Weight Human Centered Cabin
[LDO VEL]

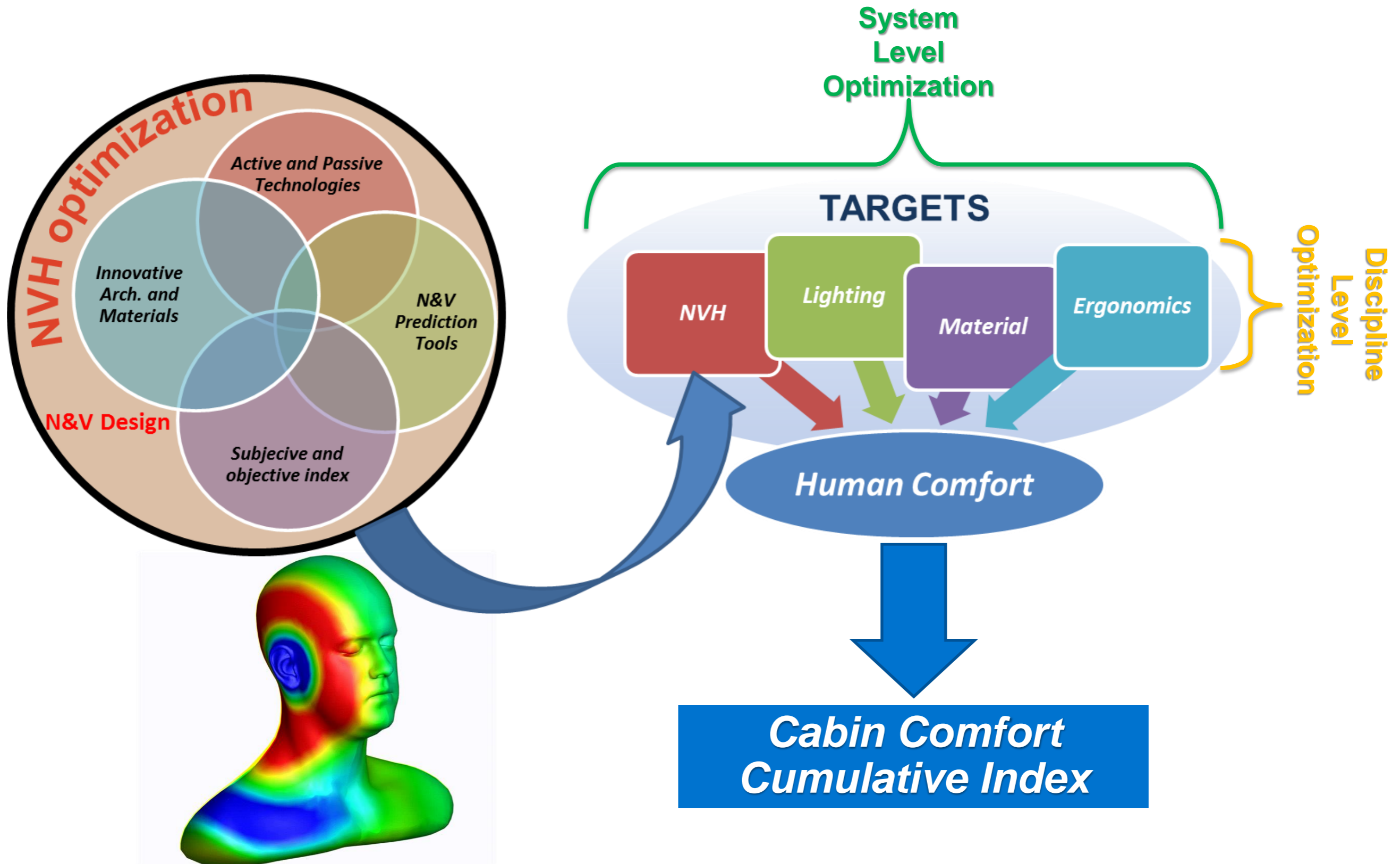
WP A-5.2: Office Centered Cabin [DAv]

CASTLE (CAbin Systems design Toward passenger welLbEing)



CASTLE flow chart

CASTLE (CAbin Systems design Toward passenger welLbEing)



Grazie!

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