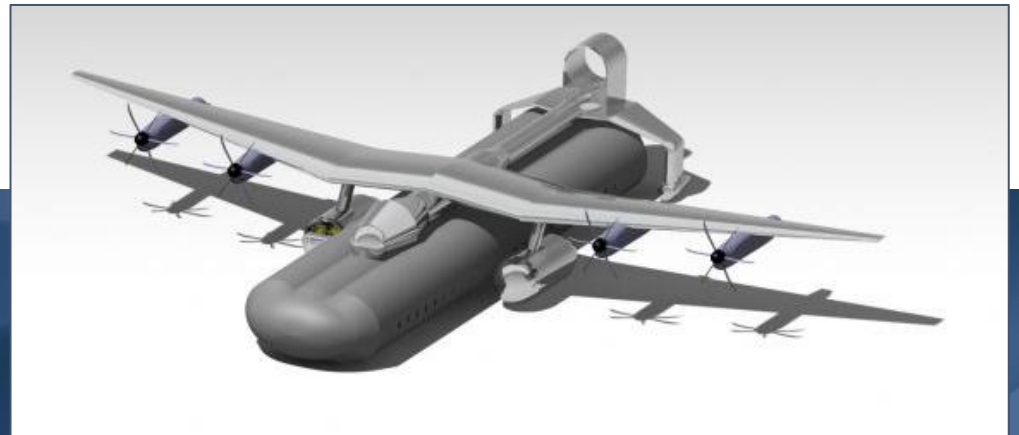


## Bee-Plane collaborative project

TRL3 Launch – july 2022

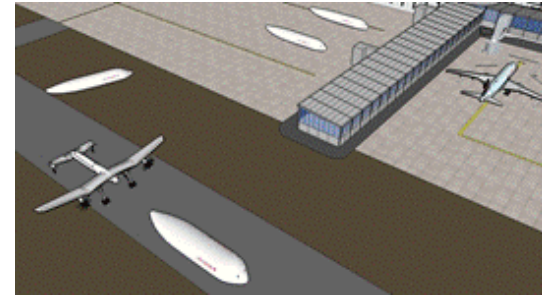


Medium range aircraft with  
detachable fuselage

# A medium range aircraft with detachable fuselage



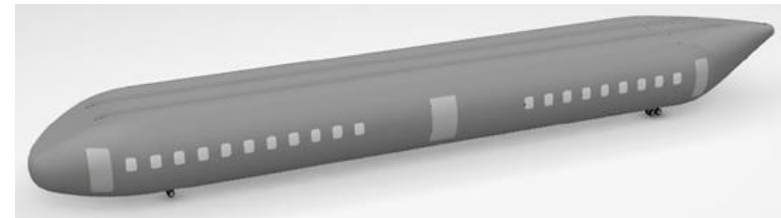
A bee and its pollen basket



Bee-Plane on an airport



Bee (upper aircraft)

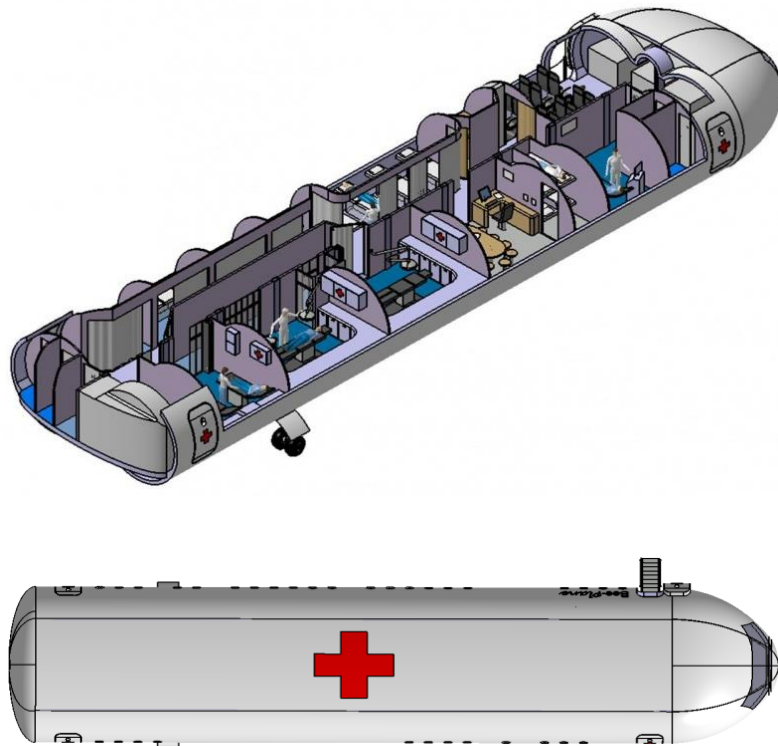


Basket (detachable fuselage)

**Goal : reduce by 50% flight costs**  
by improving operating logistic costs and fuel burn, with today's engines

# Civil forces usages

## Hospital



## Water Bomber



# Collaborative project partners



Lesser Open Bee  
License 1-3

Coordinators :



Universities :



Institution & financial partners :



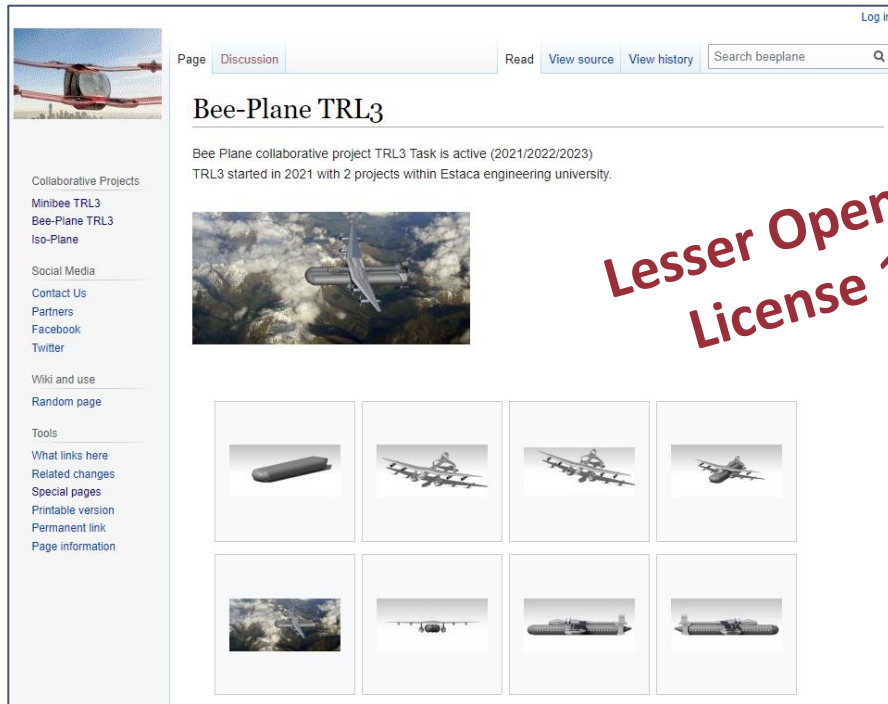
Design:



Projects is looking for :

- New partners (academic, industrials)
- Fundings (industrial and public)

# Bee-Plane Collaborative project



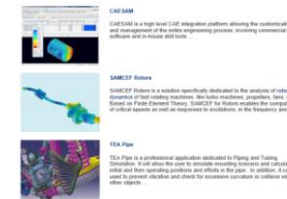
**Lesser Open Bee  
License 1-3**

All works from academic partners is available on wiki  
Coordination made by Technoplane SAS

<https://wiki.collaborativebee.com>

Bee-Plane is a collaborative R&D project  
It generates open innovation

# Lesser Open Bee License 1.3



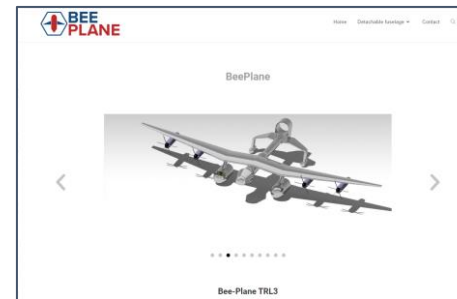
Patents,  
Trademarks  
Design & Models



Open  
source



Proprietary  
licenses



## Bee-Plane project

- Aircraft of 2050, ambitious
- collaborative, innovant
- Polyvalent usage of the detachable fuselage

Dedicated lesser open source license  
[www.bee-license.com](http://www.bee-license.com)

# Bee-Plane Technology review



Fairchild XC-120 Pack Plane (1950)

&



Electronic wiring



Noise reduction



Carbon body

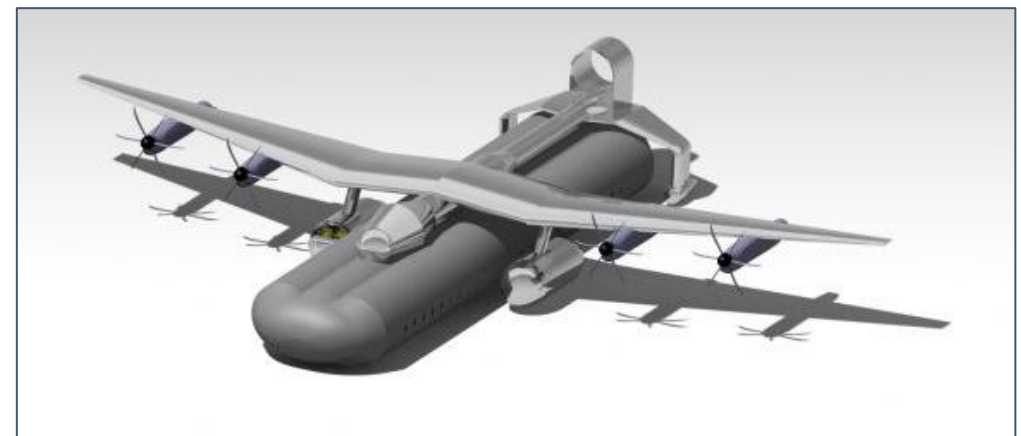


Triple bubble

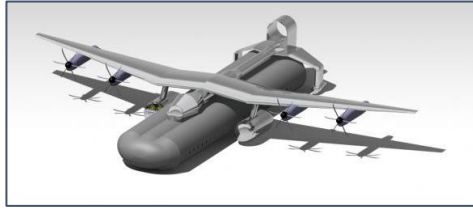
= The logo for Bee-Plane, featuring a stylized red and blue arrow pointing upwards and to the right, enclosed in a blue hexagon, followed by the text "BEE PLANE" in blue and red.



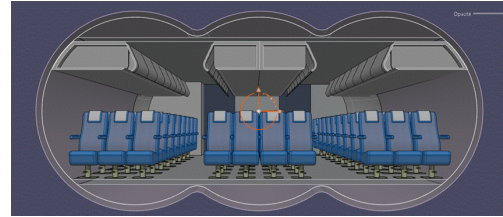
Hybrid Turbofan & Turboprop PWC150A



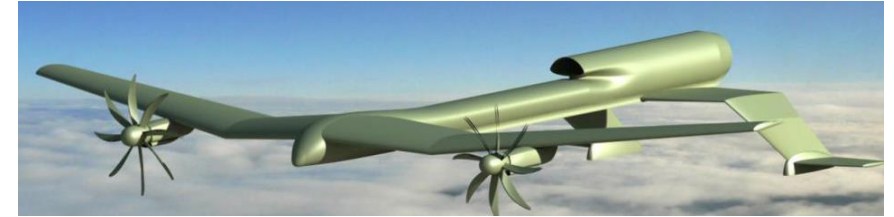
# Project overview



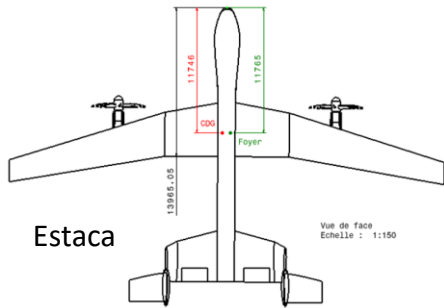
Estaca 2022



Supméca



Estaca



Estaca



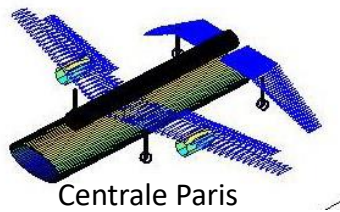
PoLiTo



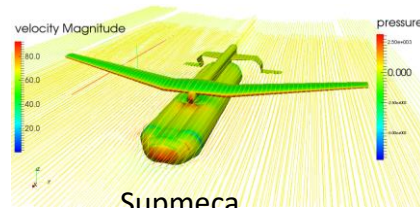
Fouatih



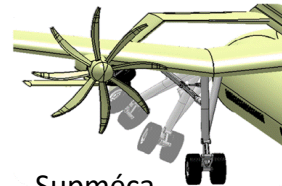
Estaca



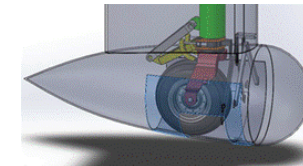
Centrale Paris



Supméca



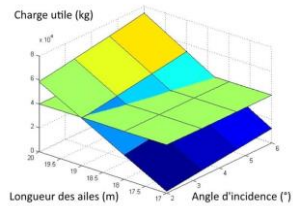
Supméca



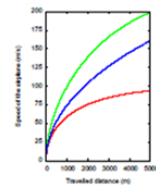
IFMA



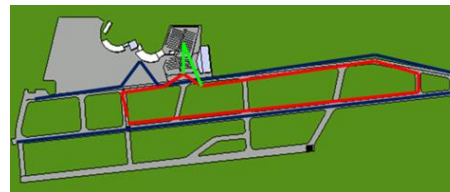
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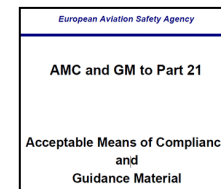
Centrale Paris



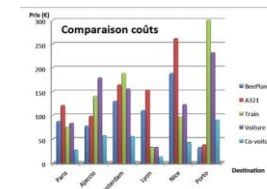
INSA



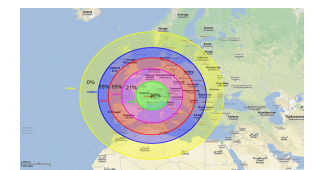
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Estaca



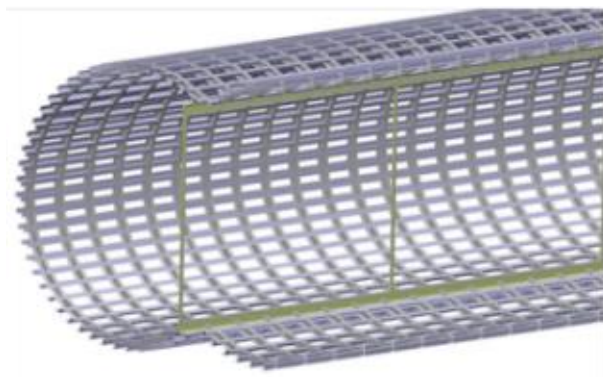
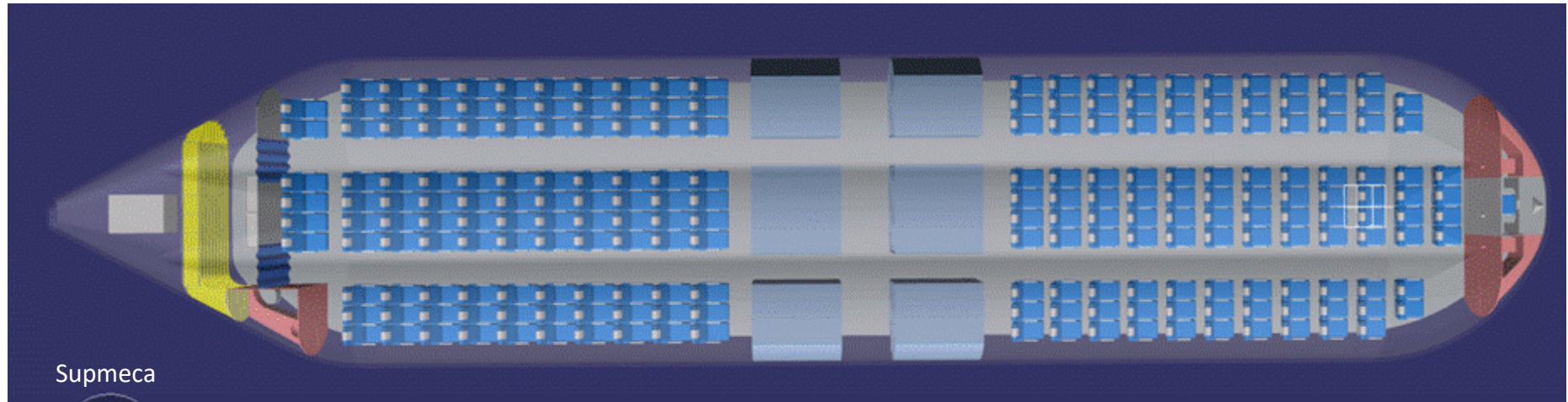
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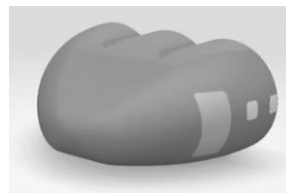
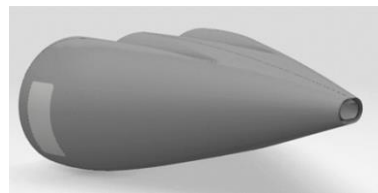
Supméca



# Detachable fuselage : 220 PAX



Supmecca



Shape - Supmecca

- 220 PAX in full economy
- Rows of 3+4+3 seats
- 1 main central passengers door on each side

# Join us !

