



# HYPLANE: The Future of Sub-orbital Space Access is Today

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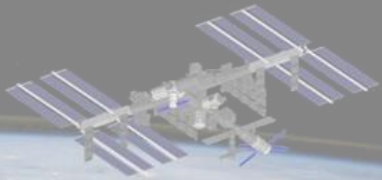


**Category A – Direct Commercialisation of Exploration Outcomes**

*Workshop on "Commercialisation and Utilisation of Space Exploration Technologies"*  
*Turin, 15-16 March 2018*

## Category A – Direct Commercialisation of Exploration Outcomes

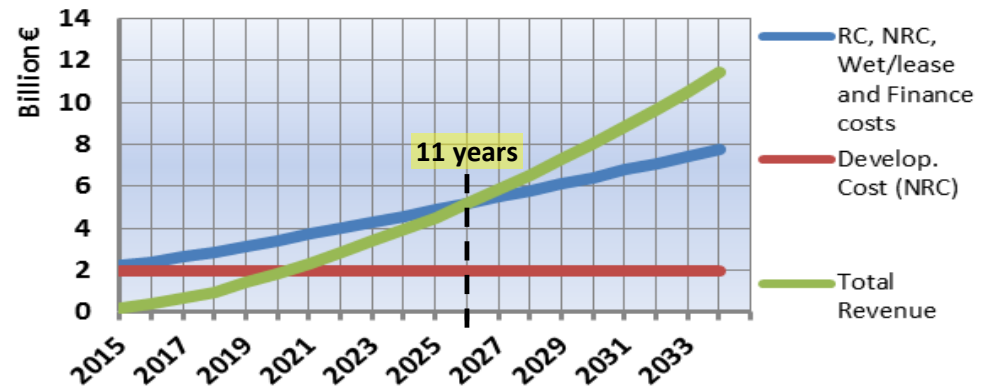
- **Suborbital flight** above the Karman line (Microgravity Exp., Space Tourism, Training)
  - **Urgent Travel market** segment
  - **6-seats, Mach 4.5** spaceplane
  - **HTHL from 80% of available airports** (L<1000 m)
- Integrates **state-of-art** aeronautic and space technologies:
    - combined cycles prop.
    - hot structures
    - thermal control
    - Advanced GNC



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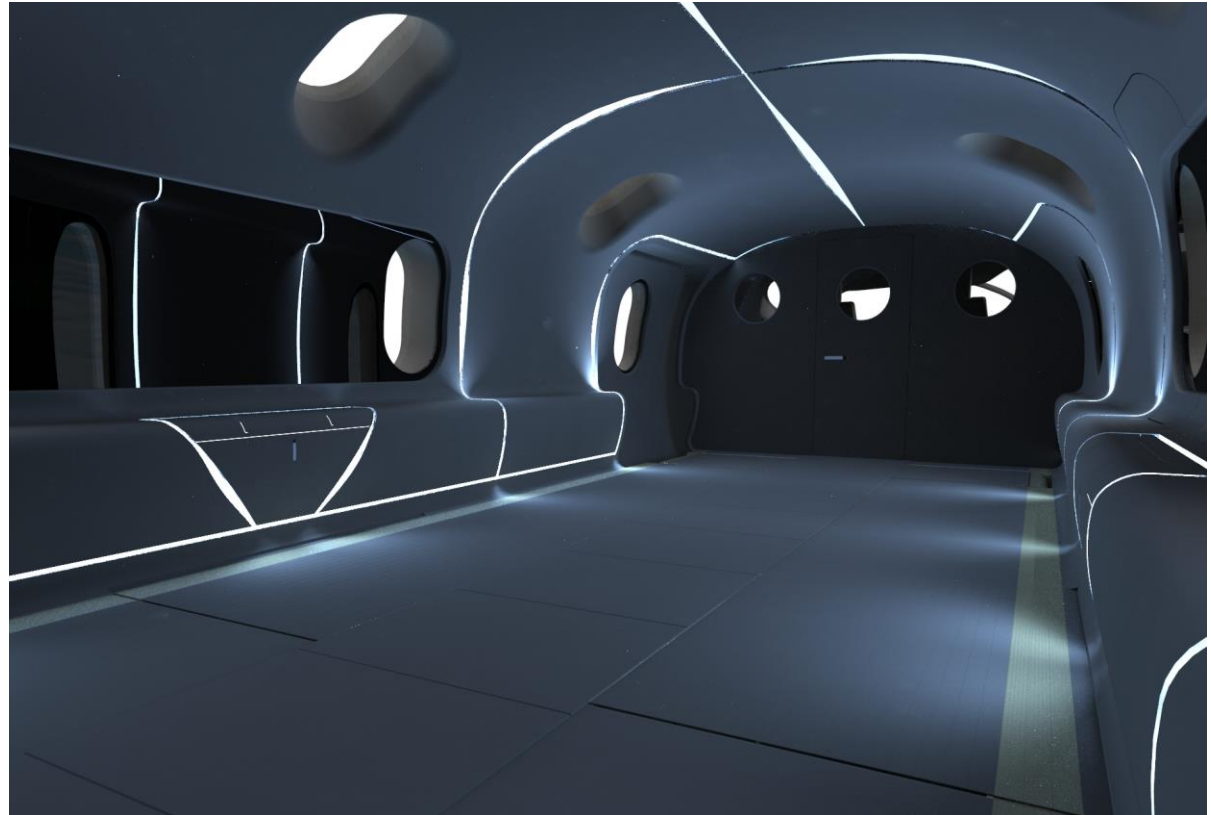


Break Even Point for the manufacturer



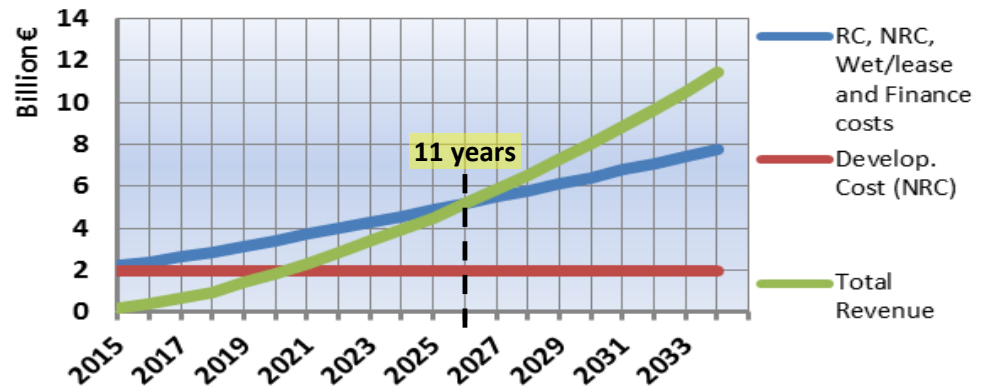
2 B€ development investment  
 10 B€ total life cycle cost  
 13.7 B€ total life cycle revenue  
**3.7 B€ Total life cycle First Operating Margin (EBITDA)**

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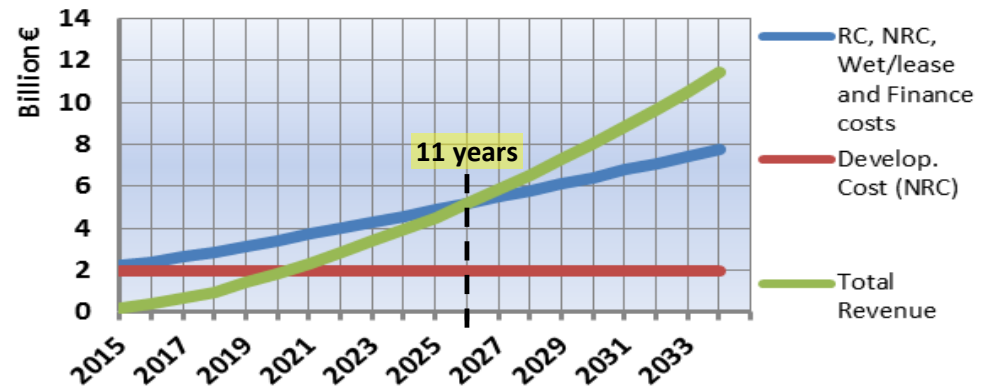


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*THANK YOU*