

The hotspot for **Aerospace**, 10 reasons why



The Rotterdam The Hague metropolitan region is home to a unique Aerospace cluster, including the complete chain of academic research - knowledge applications - OEM's - first, second and third tier suppliers and end users. The activities include the design and manufacturing of complete aeronautical subsystems, airport development, satellite communication systems and unmanned aerial vehicles as well as data gathering and processing. We hereby present our top 10 reasons to invest in this region.

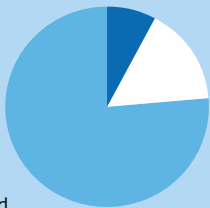
TALENT & KNOWLEDGE



1 ACCESS TO TALENT



WO (Research-oriented University) **2,500 students**



MBO (Senior Secondary Vocational Education and Training) **260 students**

HBO (University of Applied Sciences) **500 students**

Total
3,260 students



TU Delft
#1 in Europe for Aerospace Engineering

2 RESEARCH & INNOVATION



TU Delft

Faculty of Aerospace Engineering (largest in Europe)



TNO Space

Institute for Space Science



ESA / ESTEC

Largest ESA location in Europe



Leiden University

International Air & Space Law institute (1 out of 3 in the world)



3 AREAS OF TOP EXPERTISE



Satellite Communication Systems



Complete Aerospace Subsystems



International Space Law



Airport Operations



Nano Satellites



New materials and composites



Unmanned Aerial Vehicles



Earth Observation

EXCELLENT INFRASTRUCTURE



4 HOTSPOTS

World Class Space Business Facilities

- 1. Noordwijk:** Space Business Park (ESA, ESTEC, SBIC)
- 2. Delft:** TU Delft Science Park (YES!Delft, RoboValley)
- 3. The Hague:** Business Park Ypenburg (composites & manufacturing)
- 4. Leiden:** Airbus Defence & Space
- 5. Papendrecht:** Fokker Technologies

20 miles



5 ESA / ESTEC European Space Research and Technology Center (ESTEC)



ESA location in Europe
2,500 engineers / technicians / scientists



R&D location in Europe



Technology Transfer Program / Incubator Program

- ESA Test Center:
Testing Services / Shared Facilities
- ESA Business Incubation Center:
ESA BIC Noordwijk



BUSINESS OPPORTUNITIES



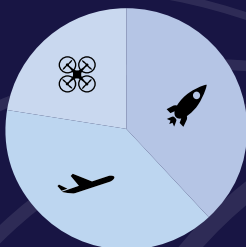
6 LEADING COMPANIES



7 STRONG AEROSPACE INDUSTRY

UAV
35 companies

Aeronautics
62 companies



Space
60 companies

✓ Nice fact

Strong network of suppliers:
300+ companies in this region
are direct suppliers in
the manufacturing process

8 PRESENCE OF RELEVANT AGENCIES & ASSOCIATIONS

Agencies:

- Netherlands Space Office
- European Patent Office
- Radiocommunications Agency

Associations:

- DAG (Dutch Aviation Group)
- SpaceNed (Dutch Space Association)
- NAG (Netherlands Aerospace Group)
- NIDV (Defense Association)

HOME-GROWN INNOVATIONS



9 SUCCESS STORIES



Aerospace Composites



Small Satellite Systems



1:1

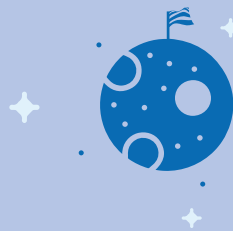


High End Instrumentation

10 INNOVATION AGENDA FOR AEROSPACE 2016-2025

Testing grounds - shared facilities for development and testing. Themes:

- Scaled Aircraft Development & Flight Testing
- Smart Structures & Miniaturization
- Multi-purpose Composites
- Airport of the Future
- FML Automation Center
- Dutch Optics Center
- Test Center Fit for Flight
- UAV Testing facility



**CENTURIES OF EXPERIENCE.
AS A REAL-LIFE TESTING GROUND.**

