AEROSPACE & MAINTENANCE

in Brabant





This is why Brabant excels



Strong industrial heritage (100+ years) of companies like

Philips and MSD



A distinct connection to regional **HTSM-companies** as suppliers to the Aerospace & maintenance cluster

London



Excellent education at 15 top universities within a 1.5 hour's drive



Perfect geographical location between the biggest (air)ports of Europe

Paris





TODAY

In Brabant a number of key ingredients have been fruitfully mixed together over the last 100 years, creating one of the strongest high tech systems and materials regions in the world, offering its technology to the global Aerospace industry.

The Brabant Aerospace industry stands out because of its many high tech companies and experts that shape the advancement of our HTSM and Maintenance sector.







CHROMALLOY







TERMA®





THALES





TOMORROW

The High Tech Systems & Materials (HTSM) cluster in Brabant secures the innovative drive of aerospace companies worldwide. In fact there is almost no machine that cannot be built in Brabant, because of the available value chain for HTSM manufacturing. From processing raw materials to the manufacturing of assets for OEM's like ASML, Philips Healthcare, DAF and VDL busses.

In combination with the activities around The Netherlands Air Force bases in Woensdrecht, Eindhoven and Gilze-Rijen, the region offers a worldclass Aerospace MRO ecosystem.

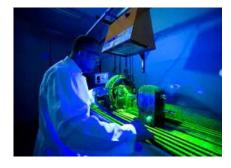


Because of our aviation heritage Brabant particularly excels in:



New materials:

Maintenance, repair and modification of composite structures and components.



Engine & component repair: Scroll Compressor System,

APU Load Compressors, avionics cooling, environmental control, power generation etc.



Aircraft MRO and upgrades:

Tailor-made solutions, parts supply, component MRO, Modification engineering.



Future concepts:

Predictive maintenance, AI, automated repair, additive manufacturing, electrification etc.



Aircraft Systems:

Aerostructures, electrical wiring systems, landing gear.

BRABANT IS BRIGHT

key facts

In total Linked to Aerospace

160+ companies

18,700 jobs

137

suppliers to the Aerospace industry

20%

employs between 100 - 500 people

Aerospace & Maintenance in Brabant

5.8 billion euros

turnover of Aerospace related activities in Brabant

jobs

regional airports
and airforce bases

5,310

employees with the Dutch Air Force

Patent applications

50%

of all European patent applications from the Netherlands are generated in Brabant

5th

place in Europe for regions with the highest number of patent applications

Cluster size
Aerospace &
Maintenance

Aerospace research operations

19.6%

1,900

research

of the Dutch Aerospace

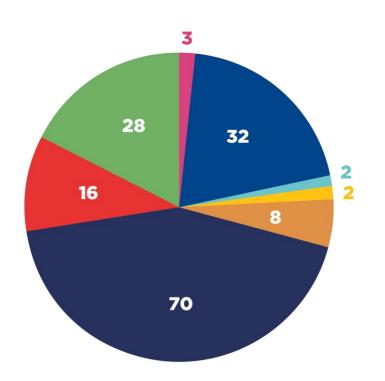
jobs are in Brabant

jobs in Aerospace

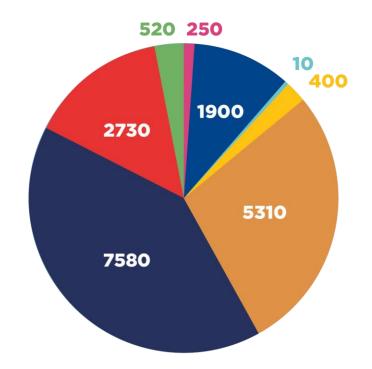
Source: In-depth Analysis Aerospace, 2020 (commissioned by BOM)



ESTABLISHMENTS IN AEROSPACE,DIRECT AEROSPACE AND AEROSPACE RELATED



JOBS IN DIRECT AEROSPACE, DIRECT AEROSPACE AND AEROSPACE RELATED







Integrated value chain core







DESIGN & ENGINEERING

COMPONENT & SUB-ASSEMBLIES MANUFACTURING

COMMERCIALIZATION

AEROSPACE & MAINTENANCE









Lightyear 🚫



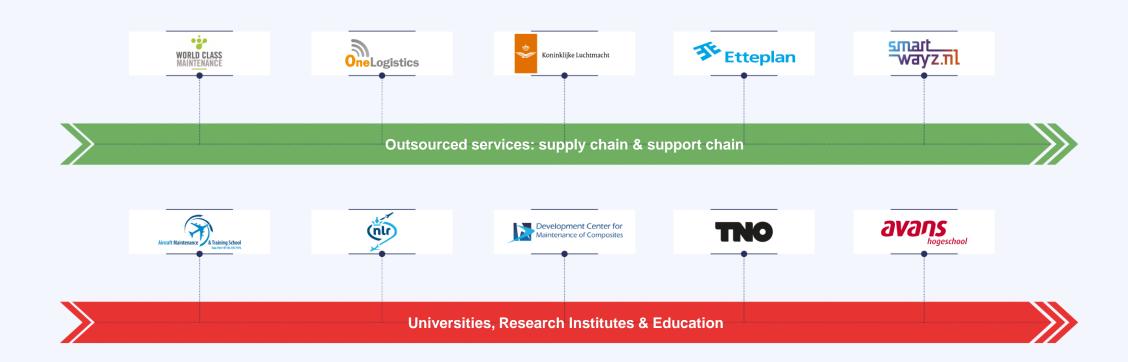








Integrated value chain support Selection of organisations





Milestones foreign investment

2015 2016 2017



StandardAero

StandardAero buys
DutchAero to perform
maintenance on the F-16 for
RNLAF in Woensdrecht.



Aeronamic and Fokker/GKN receive additional contracts for component repair and MRO services for the F-35. The airbase of the RNLAF and Aviolanda Businesspark prepare their premises for the global F-35 program.



DCMC The Development Center for Maintenance of Composites initiates the innovation projects with Fokker, NLR, Airborne/Specto, TiaT, RNLAF, Rewin and BOM.

2018 2019 2020



Specto receives contract from Boeing to perform MRO of rotor blades of the Apache and Chinook helicopters.



Onelogistics and RNLAF officially open the regional warehouse for the global F-35 program.



kmwe receives order to produce high tech components for the F135 Pratt & Whitney jetengine as part of the F-35 program.



Prominent players in Brabant







































































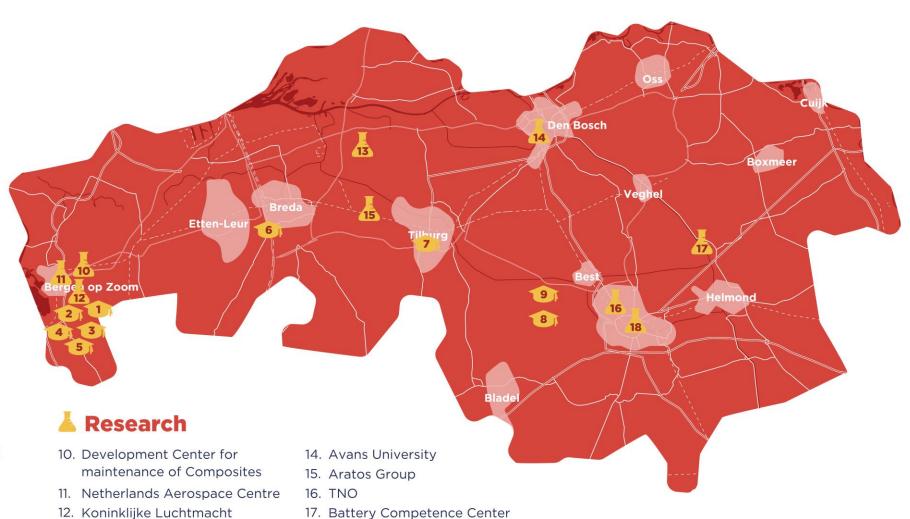
Aerospace footprint

Training & education

- Development Center for maintenance of Composites
- 2. Koninklijke Luchtmacht
- 3. TiaT Europe
- 4. Dutch Drone Centre
- 5. Aircraft Maintenance & Training School

13. World Class Maintenance

- 6. World Class Maintenance
- 7. Avans University
- 8. Fontys
- 9. Summa College



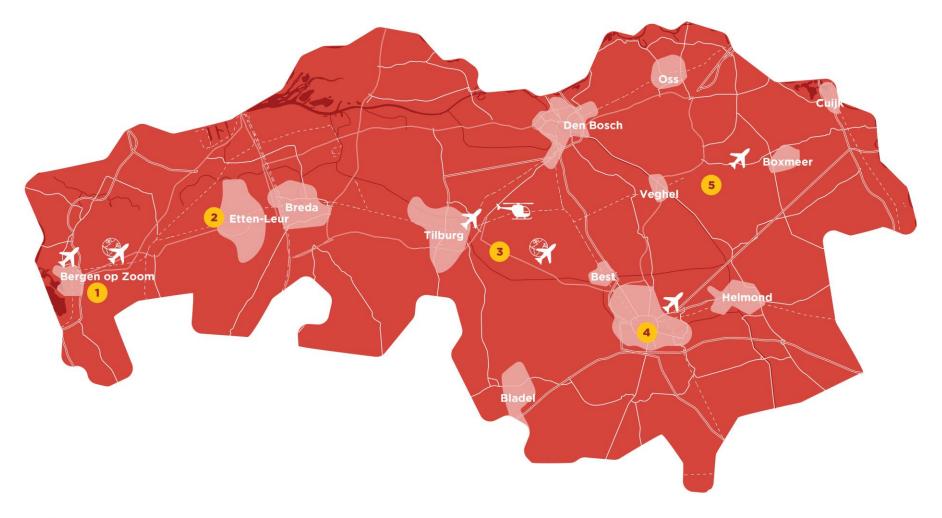
18. University of Technology (TU/e Campus)



Aerospace footprint

Air Base & Airport

- . Woensdrecht Air Base
- 2. Breda Airport
- 3. Gilze-Rijen Air Base
- 4. Eindhoven Airport & Air Base
- 5. Volkel Air Base













OBJECTIVES

The collaboration between Aviolanda and the Royal Netherlands Air Force offers opportunities for new business opportunities, labour capacity and technological developments.

The cluster facilitates military and civil MRO activities that range from training and education, to specialized aircraft upgrades.



PROMINENT COMPANIES

- Fokker/GKN
- Fokker Services
- Aeronamic
- Specto Aerospace
- Boeing
- StandardAero
- Onelogistics
- AMTS
- Thales



- European MRO & logistics for F-35
- MRO/U & logistics for RNLAF
- · MRO training & education RNLAF
- Air Campus
- Drone pilot training
- MRO & logistic facilities (hangars)
- 3,000 jobs
- 15 companies
- Runway
- Composites Expertise Centre
- Safe & secure premises
- · Firebrigade training centre









Gate2 Gilze-Rijen is a Smart Industry hub that facilitates the development and realization of innovative Smart Factory projects. It includes the Cyber Physical Factory for new production techniques, simulation and digitization, as well as the Campione fieldlab for predictive maintenance.

It cooperates with education institutes for training programs regarding new production and repair techniques in the domains of new materials, 3D printing, non-destructive testing and predictable maintenance. It is also an international top location for aviation simulation training.



PROMINENT COMPANIES

- Aratos Systems
- Daedalus
- Ericsson
- WorldClassMaintenance



- HAPS Expertise Centre
- · (Military) Flight Simulation Centre
- Cyber Physical Factory
- 5G research center
- Special OPS training
- Predictive Maintenance fieldlab
- · Expert centre gluing techniques
- · Business Center facilities





BRABANT IS BRIGHT





OBJECTIVES

Eindhoven Air Base is the home base of the Air Mobility Command of the Royal Netherlands Air Force. Their most important task is the provision of military air transport for worldwide military operations, humanitarian missions and special assignments. In addition, air force personnel are tasked with airport duties at Eindhoven Airport day and night.



TASKS

- Providing military air transport and air-to-air refuelling for military aircraft;
- · Handling cargo and passengers;
- Making the airport available for joint military and civilian use;
- Facilitating national and foreign military units.



- Base for military transport aircraft
- MCCE program (military transport Europe)
- EATC program (aircraft deployment planning)
- MRTT (Multi Role Tanker Transport)



BRABANT IS BRIGHT



-the-art
facilities
Electric Aviation
Community



OBJECTIVES

The Electric Aviaition Community was established in 2021 to facilitate partnerships between stakeholders from different industry sectors that can contribute to the realization of electric flying.



FOUNDERS

- Battery Competence Center
- Automotive Campus
- University of Eindhoven
- Eindhoven Airport
- Brainport Eindhoven
- Brabantse Ontwikkelings Maatschappij



- Members are active in various industry sectors, like airport management and infrastructure, aircraft engineering and construction, new energy concepts, MRO, maintenance, airline operation, battery development, drive chain development etc.
- National cooperation with a.o. Duurzame Luchtvaart Tafel, NAG, NLR, TNO, National Airports, industry partners etc.
- Project particpation (PowerUp!)
- Matchmaking activities









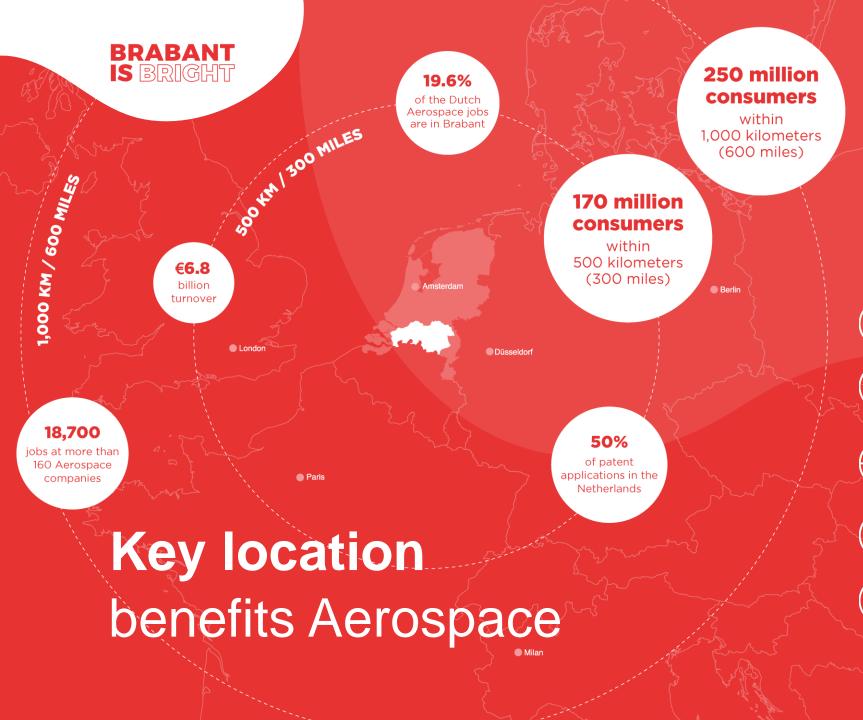












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