10 Reasons

Why West Holland is the Hotspot for Space

Innovation Quarter

invest & innovate in West Holland
10 Reasons why West Holland is the Hotspot for Space

Around 80% of all Dutch space activities take place in West Holland. The region is home to the complete chain of academic research & knowledge, first, second & third tier suppliers and end users. ESTEC, the technical heart of the European Space Agency, is located here as well as a vibrant and growing satellite cluster with upstream (small) satellite companies and downstream data users.

### TALENT & KNOWLEDGE

**ACCESS TO TALENT**

1. **TU Delft Faculty of Aerospace Engineering**
   - University of Technology 2,500 students

2. **Leiden University Faculty of Astronomy, Institute of Air & Space Law**
   - Research Oriented University, 300 students

3. **Leiden, The Hague and Delft, Bsc Mechatronics**
   - HBO (University of Applied Sciences), 800 students

4. **Leidse Instrumentmakers School**
   - Senior Secondary Vocational Education and Training, 300 students

**TU Delft**
- #1 in Europe for Aerospace Engineering

### RESEARCH & INNOVATION

1. **TU Delft**
   - Space Institute / Dutch Optics Centre (in collaboration with TNO)

2. **TNO**
   - Institute for Space & Systems Engineering

3. **ESA**
   - ESTEC European Space Research & Tech Centre

4. **Leiden University**
   - International Air & Space Law / Leiden Observatory

5. **SRON**
   - Netherlands Institute for Space Research – (as of 2021)

### AREAS OF TOP EXPERTISE

- Satellite Communication Systems
- Complete Space (Sub) Systems
- International Space Law
- Optics & Optomechatronics
- Nano & Small Satellites
- New materials and composites
- Solar Panels
- Earth Observation Services

### EXCELLENT INFRASTRUCTURE

### HOTSPOTS

**World Class Space Business Facilities**

1. **Noordwijk**: Space Business Park (ESA, ESTEC, SBIC, GRC)
2. **Leiden**: University Science Park
3. **The Hague**: Business Park Ypenburg (composites & manufacturing)
4. **Delft**: TU Delft Science Park (YES!Delft, RoboValley)
EUROPEAN SPACE AGENCY (ESTEC)

The European Space Research & Technology Centre (ESTEC) in Noordwijk is ESA’s largest facility in Europe and is the technical heart of the organization. Most ESA projects are born here and are guided through the various phases of development. Some 2500 engineers, technicians and scientists develop and manage all types of ESA missions.

BUSINESS OPPORTUNITIES

GALILEO REFERENCE CENTER

Galileo is the global navigation satellite system (GNSS) created by the European Union (EU). Its reference center has the task of evaluating the quality of the signals in space and the performance of the Galileo Service Operator.

LEADING COMPANIES

Agencies: • Netherlands Space Office • European Patent Office • Radiocommunications Agency

Associations: • SpaceNed (Dutch Space Association) • NAG Netherlands Aerospace Group • NIDV (Defence Association)

PRESENCE OF RELEVANT AGENCIES & ASSOCIATIONS

NANO, CUBE & POCKETSATS

The region is internationally renowned for its comprehensive SmallSat cluster. Examples are:
• Expertise in constellation technology and miniaturization
• Realize turn-key small satellite missions, including launch services
• Design of small satellite platforms, for single missions or constellations

INNOVATIONS FROM WEST HOLLAND

OUR GROWING SPACE CLUSTER

Netherlands Institute for Space Research (coming to Leiden):
• SRON, the Dutch expertise institute for space research
• Focuses on astrophysics, Earth science, exoplanets and space technology

Space Campus Noordwijk (coming soon):
• Shared test centre, labspace & makerspace
• Shared facilities for assembly and integration
• €26 million public funding
Strong European market position
West Holland is home to around 80% of all Dutch space activities. Combined with ESTEC, the technical heart of the European Space Agency, this region is a true hotspot for space innovation. With a sound knowledge infrastructure and the presence of ample talent, the space cluster is known for its’ ground-breaking research & development and delivering the best performing and most reliable technology. This makes West Holland the ideal hotspot to launch your business.

WEST HOLLAND OFFERS YOU
• A strategic location in the heart of Europe
• State-of-the-art business, research and incubation facilities
• Highly educated and multilingual workforce
• Excellent quality of life
• A competitive tax climate
• Advantageous tax incentives for R&D activities
• A dedicated foreign investment team, offering confidential, free of charge services to international companies.

InnovationQuarter is the Economic Development Agency for the West Holland region in the Netherlands. We provide free assistance and advice to international companies looking to locate in West Holland. In addition, we facilitate co-operation between companies, academic institutions and government. Moreover, InnovationQuarter funds innovative and fast-growing businesses in the region.