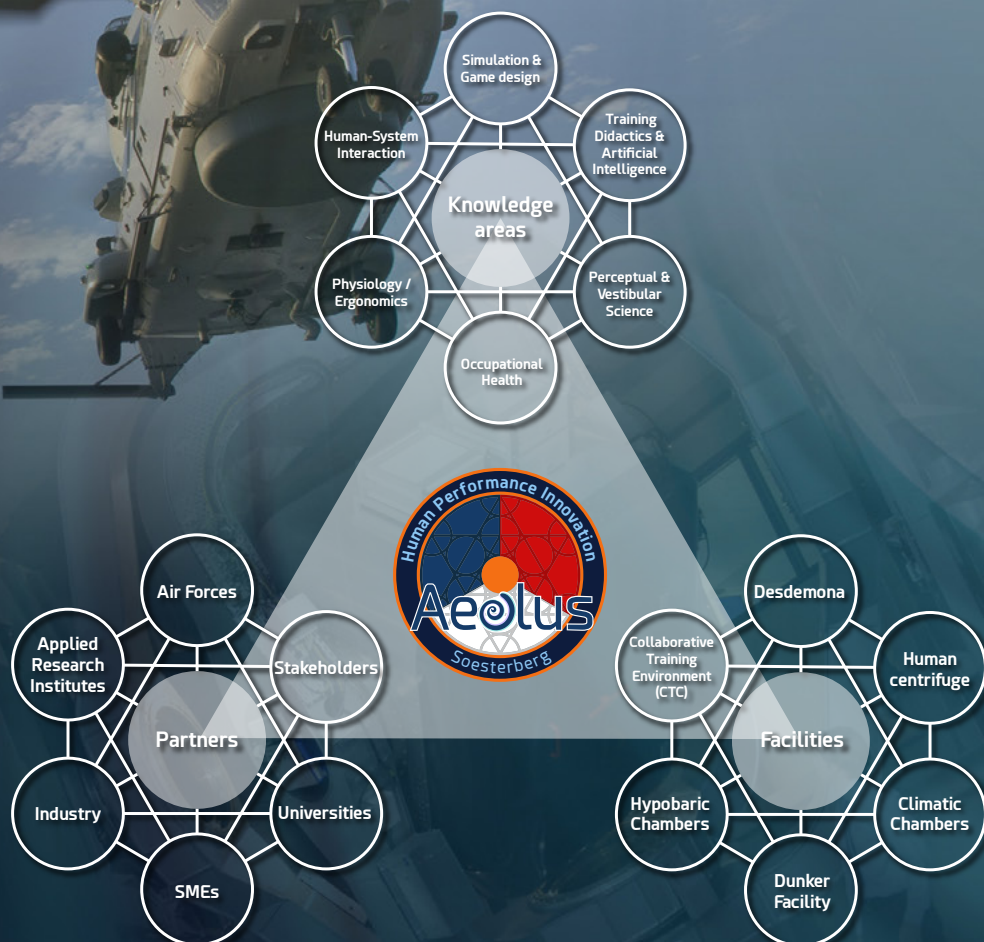


TNO



Aeolus

Human Performance Innovation



Human Tech Campus
Kampweg 53 / 55
P.O. Box 23
3769 ZG SOESTERBERG
THE NETHERLANDS

"Will you fly
the AEOLUS way?"

www.aeolus-hpi.org



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Human Performance Innovation

AEOLUS is the joint innovation center on Human Performance under Extreme Conditions in Military Aero-space. It is our mission to improve the readiness and operational effectiveness of military pilots, aircrew and maintenance personnel by creating more and faster access to innovative products and services.

Royal Netherlands Air Force and TNO founded AEOLUS to **accelerate the innovation cycle** for international air forces, research centers and industry using

- our high-end multi-disciplinary knowledge, and
- our world-class facilities
- with trusted partners.

As an independent center, AEOLUS programs innovate **Wearable Technology and Systems** and enhance **Human Factors Simulation & Training**, with the development of multi-stressor training environments.

AEOLUS is part of the **Human Tech Campus** of both founding institutes and provides access to unique research & test facilities, world-class scientists, military pilots and defense industry. The **F-35 Pilot Readiness Center** on our campus provides unique opportunities for innovation!

AEOLUS: the place of choice to take warfighter readiness to the next level."

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Human Performance Stressors

- G-load
- Spatial disorientation
- Hypoxia
- Degraded visual environment
- Thermal burden
- Noise
- Information overload
- Automation surprise / startle
- Fatigue

Operation Oriented Simulation & Training

- 5thGen multi-stressor environments incl. VR
- Hypoxia training in motion sim
- Enhanced motion cueing
- Distributed LVC-simulation incl. NVG
- Sensing methodology for training effectiveness

Wearable Technology & Systems

- Pilot flight equipment
- Fitting, comfort, scalable protection
- Helmet, HMDS, visor, oxygen mask, comms ear plugs
- Flight suit, G-suit, cooling system
- Smart and adaptive clothing / textiles
- Physiological monitoring – sensing shirt

Flight Sensing Shirt

Mobile Hypoxia Trainer
for F-35 Pilots