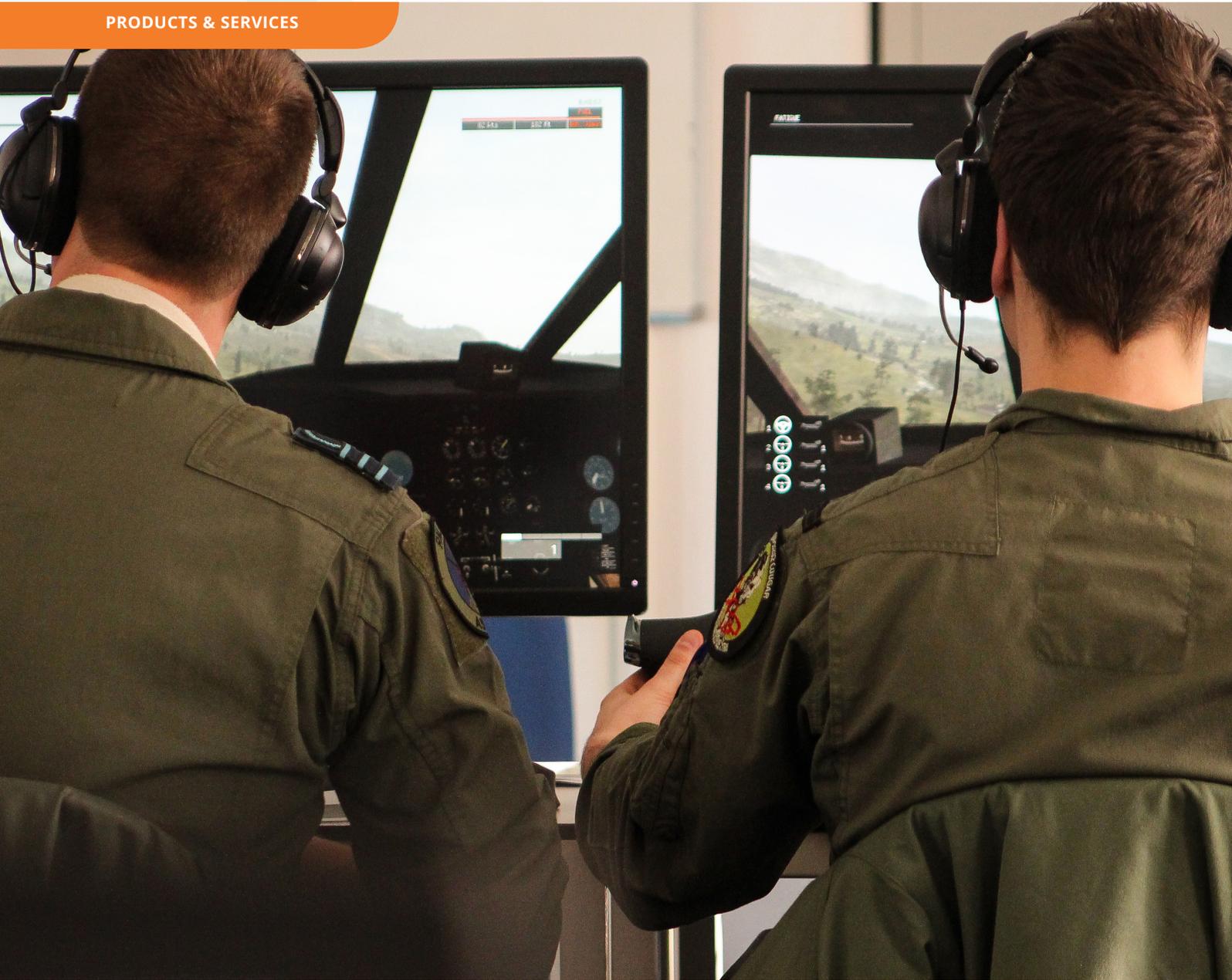




Dedicated to innovation in aerospace

# Personalised Continuation Training

PRODUCTS & SERVICES



## Constructing the backbone for Performance Based Training

The NLR program Education & individual Training (OIT) enhances the knowledge base for developing continuation training programs that accommodate the personal needs of military personnel. The ultimate goal is to prevent skill decay and to provide training only when needed.



### WHAT YOU NEED

- Optimal retention of the war-fighter's skills
- Performance based training
- Insight and tooling to realise data-driven personalised continuation training

### WHAT WE DELIVER

On completion of the program in 2021, we intend to provide thorough understanding of the mechanics and the conditions for dynamically modelling of personal retention. This provides the conceptual framework for data-driven training programs and a roadmap for developing the toolset to realise personalised continuation training.

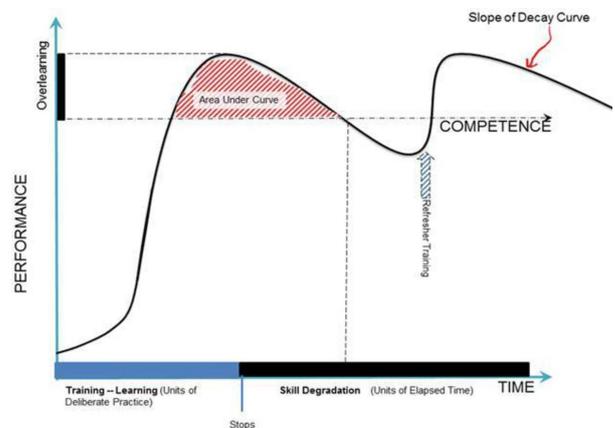
### OUR CAPABILITIES

The OiT activities will lead to:

- A state-of-the art overview of the factors that influence the retention of knowledge and skills of high-performance military professionals
- A contribution to the theory of retention by gathering empirical data on 1) long-term non-use of skills and knowledge, and on 2) more complex levels of skills. Such data is missing in standard academic studies
- A toolbox to measure performance and related factors
- A framework to improve retention using the identified factors
- Insight in the options and limitations to mathematically model performance and the retention curves (also known as 'skill decay')
- A model to predict and therefore prevent skill decay

### OUR CAPABILITIES

In modelling retention we combine our capabilities in the domains of psychology of learning, educational design theories, statistical modelling and machine learning. We will acquire or validate know how through academic efforts, game-based experimentation, and real training data. We combine NLR's capabilities with TNO's. Together, we gather data from all defence services. This will help to produce a generic personalised model for all military personnel.



### PRODUCTS & FEATURES

The NLR program 'Education and individual Training' will deliver a range of papers and articles on personalised continuation training to share with academia and military stakeholders. The know-how includes results from a series of test cases at military schools and operational units.