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Neuroscience for Pilot Training

The Enhanced Pilot Performance System (EPPS)

Christian Kusmitsch, PhD, CTO at Mindset Technologies
Aladar Tepelea, CEO at Mindset Technologies



Date: 10.12.2025

Time: 18:00 c.t.

Location: ETH Zurich, ML E 12 (Tannenstrasse 3)

Pilots frequently operate at very high cognitive workloads. Many safety-relevant decisions must be made in parallel – unconsciously, consciously, and simultaneously. But how can cognitive load actually be measured? How can instructors ensure that cadets always scan the right instruments? Advances in neuroscience offer a new solution.

Mindset Technologies has developed specialized hardware and software that continuously monitors pilots' eye movements and cognitive biomarkers. This allows to objectively quantify cognitive load and improve pilot training.

During this lecture, neuroscientist Dr. Kusmitsch and his colleague Mr. Tepelea will demonstrate their novel neurotech solution for optimizing human-machine interfaces in aviation.

We look forward to welcoming you to this event. Guests are most welcome!

Best regards,

Michael Weinold for the Academic Aviation Club Zurich

Dr. Jürg Wildi for the Swiss Association of Aeronautical Sciences

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