Australian Government

Department of Defence
Science and Technology

Data–driven warfighter performance

For warfighters, their individual and team performance can determine not only mission success but their very survival.

The future of human performance is data–driven. Sensors are reducing in size and cost whilst the availability and cost-effectiveness of data processing and storage continues to increase. This intersection between science and emerging technology is transforming our understanding of human health, performance and behaviour, and how to optimise it.

Human performance rests on an extraordinarily complex intersection of attributes that underpin our **potential** to **sense**, **think** and **act** in the world. The relentless advance of science is continually expanding our understanding of how these factors influence our wellbeing and performance. Existing technologies such as sports trackers and machine learning, along with anticipated advances in fields such as human biotechnology and artificial intelligence will increasingly displace the 'art of performance' with evidence-based strategies to attain and sustain a competitive advantage.

Building and adapting the tools required to gather, integrate and apply this deluge of data into timely actionable interventions to enhance warfighter performance will deliver a significant battlefield advantage.
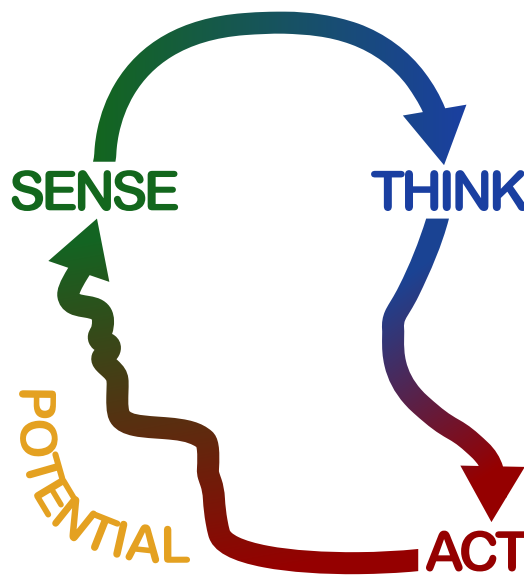
Next Generation Technologies Fund

No single researcher, or team, has all of the answers. For this reason, enhanced human performance has been identified as a priority area under the Next Generation Technologies Fund.

The Next Generation Technologies Fund provides the means of attracting a multidisciplinary team of leading researchers from industry and academia who together can make real and meaningful advances in enhancing human performance.

Partnering opportunity

DST is interested in hearing from potential partners with world class expertise and creative concepts for delivering a data-driven performance advantage to the ADF's warfighters.

For more information contact:
PartnerWithDST@dst.defence.gov.au

DST ⋮ **Science and Technology for Safeguarding Australia**