



HADEAN
BRIDGING PHYSICAL AND VIRTUAL WORLDS

CERUUS

BAE SYSTEMS

DisTec Presentation | 26 Apr 22

Enabling command, operations and training in a complex world



HADEAN

BRIDGING PHYSICAL AND VIRTUAL WORLDS

CERVUS

BAE SYSTEMS



Nick Brown - Defence
Product Marketing Director



Alan Roan - MD of Cervus



Tim Colebrooke - Business
Development Manager BAE

Delivering Operational Effectiveness presents many challenges

Synthetic Environments:
Scale and fidelity

Decision Support:
Effective and timely
decision-making



Digital Transformation:
Technical advantage and
information superiority

Cross-Domain Integration:
Integration and distribution
cross-domain live, virtual and
constructive training and mission
rehearsal

Partnership and Innovation:
Continuous evolution and
agile acquisition

Hadean: The Next Generation Platform for Defence

Enabling Digital Transformation, Information Superiority and Open Architecture

Our Capabilities and Outcomes



Synthetic Environments

- Enable and power multi-domain simulations with millions of entities and distributed participants
- *Simulate the scale, complexity and fidelity of real-world scenarios*



Enhanced Situational Awareness

- Optimise and integrate multiple live data sets across a vast and distributed network to form a cohesive and accurate operating picture
- *Empower personnel at all levels to command, operate and train with data-driven insight*

DISTRIBUTED
COMPUTING
BY HADEAN

Digital Twins

- Enable accurate, vast scale Digital Twins to represent live data, systems, capabilities and environments
- *More effective and efficient through-life systems and capabilities management*



Decision Support

- Rapidly simulate and explore unlimited what-if scenarios by leveraging the Hadean Platform's smart scaling capabilities
- *Confident predictions and a better understanding of risk to support logistic planning and decision making*



FORGE

Digital Decision Support for Army Futures

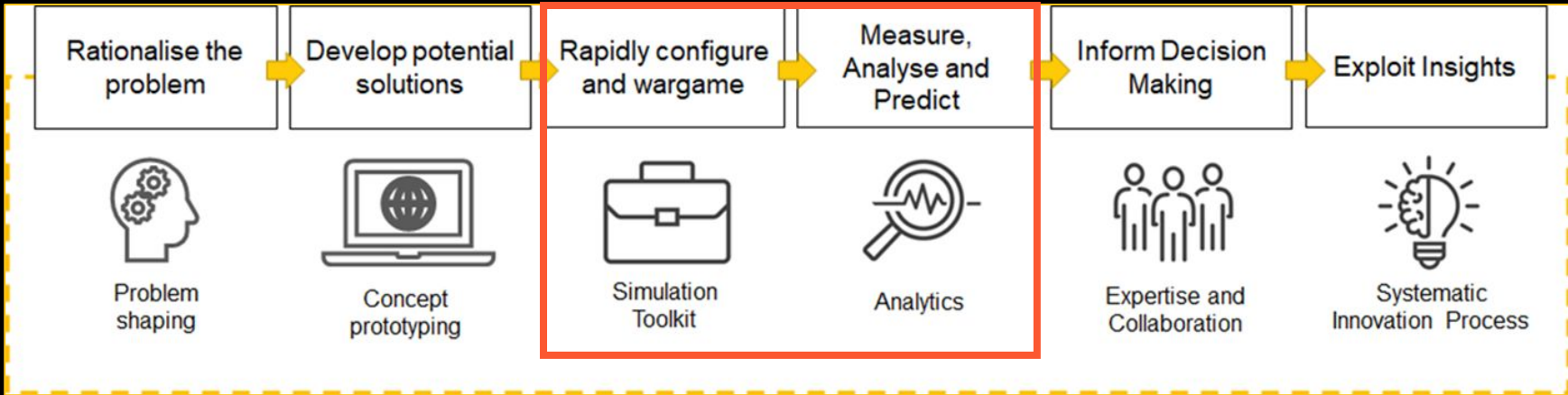
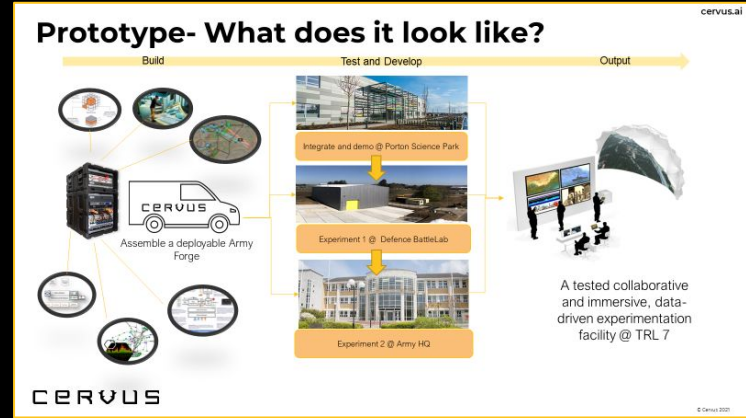
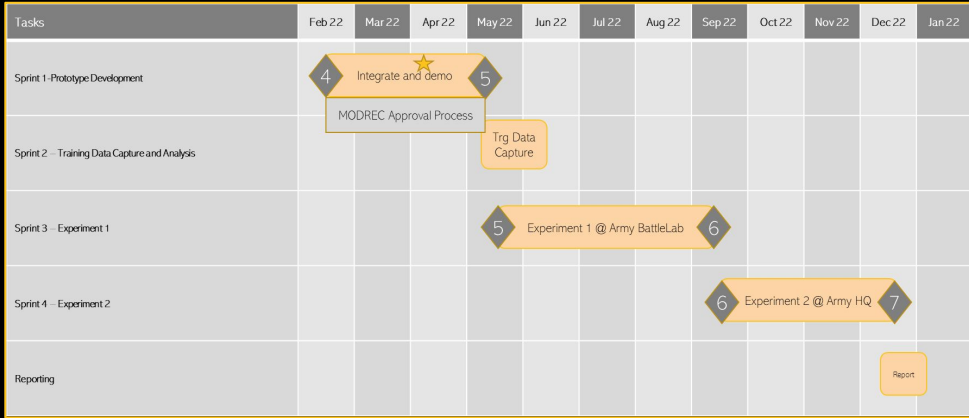


"Those of us in government charged to defend the country have a duty to protect new domains, as well as continuing investment in the traditional ones, but always adapting to the threat. History shows us, time and time again, that failing to do so risks irrelevance and defeat. As the threat changes we must change with it, remaining clear-eyed about what capabilities we retire, why we are doing things, and how they will be replaced."

Ben Wallace oral statement (Defence Command Paper 2021)

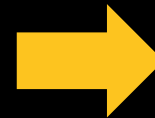
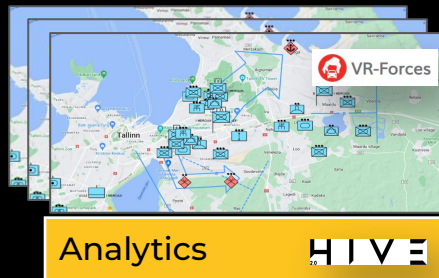
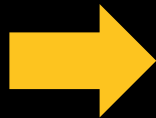


Defence needs a means to identify, assess, evaluate and prioritise capability requirements, gaps, and solutions; identify alternative risk approaches across the MoD enterprise; and develop a better understanding of the impact of changes across the Defence organisation to deliver actionable insights for strategic, structural and capability approach decisions



What we would
normally do

Single
Variables

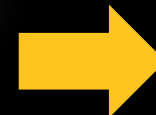
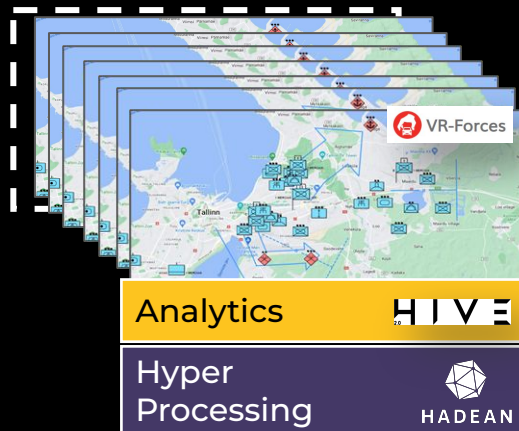
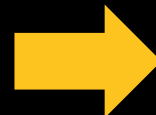


Limited
Exploration
(Cost and Time)

*What is the optimal
concept for operating
our future force in
Urban environments?*

What we think we can do
now might be **unlimited**

Multiple
Variables



Testing all the concepts,
simulations and variables
(Optimal decision faster
with more objective
evidence)

Training delivery where it counts available 24/7 @ point of need



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Synthetic Environments

Enhanced Situational Awareness



Digital Twins

Decision Support

ENABLING COMMAND, OPERATIONS AND TRAINING IN A COMPLEX WORLD