



Australian Government  
Department of Defence

# *More, together*

## Defence Science and Technology Strategy 2030

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# Strategic context

Australia faces a challenging and contested security environment over the next decade, where our interests will be tested more frequently

This is a unique moment in history – our opportunity to reinvigorate Australia's broader R&D sector, and reposition it's role in our economic vitality, as well as deliver the capability we need to achieve our national security outcomes.

**We can *work together* to achieve this.**

# More, together

The *More, together* strategy will allow us to focus on what matters, scale up through collaborative partnerships and create impact for our Defence Force

## FOCUS

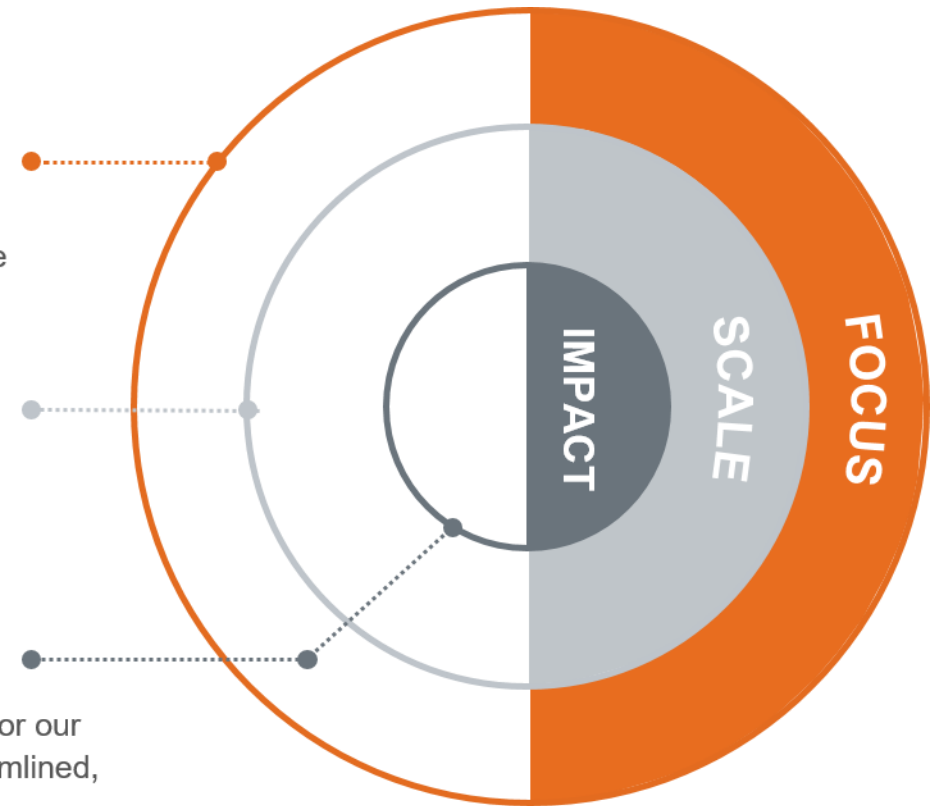
Focusing on larger S&T programs supporting Defence strategic priorities.

## SCALE

Partnering with our broader Australian R&D sector and international alliances.

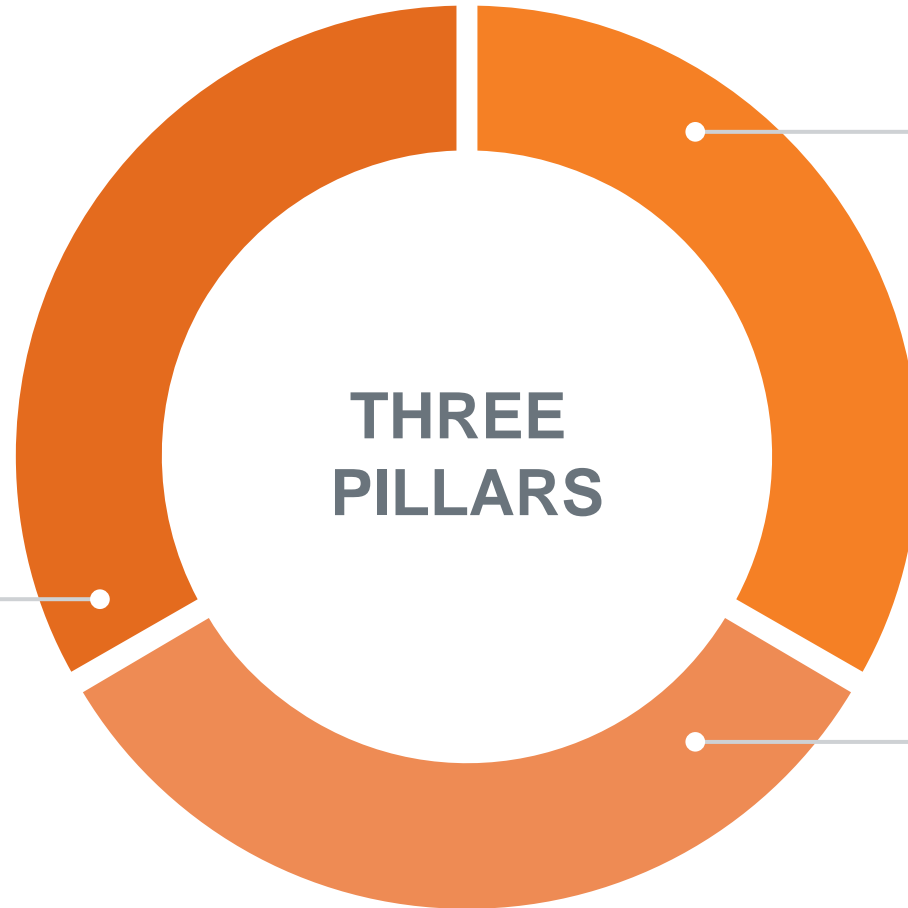
## IMPACT

Delivering a capability edge for our Defence Force through streamlined, secure innovation pathways.



# Our three strategic pillars

To achieve this we need a highly skilled and collaborative workforce, supported by outstanding research infrastructure, delivering the capability Defence needs



## One Defence S&T capability

Harnessing the S&T sector to ensure that our military forces have a strategic advantage through leading-edge technologies and capabilities.

## Outstanding research infrastructure powering innovation

Cutting-edge physical & digital research environments, innovation precincts, and shared infrastructure – powering leap-ahead technologies.

## Brilliant people, collaborative culture

A highly skilled and collaborative workforce, partnering with the best & brightest of Australia's R&D sector.

# STaR Shots

Science, Technology and Research (STaR) Shots are challenging, inspirational and aspirational S&T missions that will align strategic research to force structure priorities. They will drive the evolution of innovation pathways, from fundamental research and development through to prototyping and transition into capability, to focus the national S&T enterprise on Defence's biggest problems. STaR Shots will aim to deliver new capabilities into the hands of the warfighter and collectively support the overarching objective of equipping Defence to prevail in contested environments.

Eight STaR Shots have been established to focus strategic research and proactively develop new leap-ahead Defence capabilities



# Resilient multi-mission space

## CONTEXT

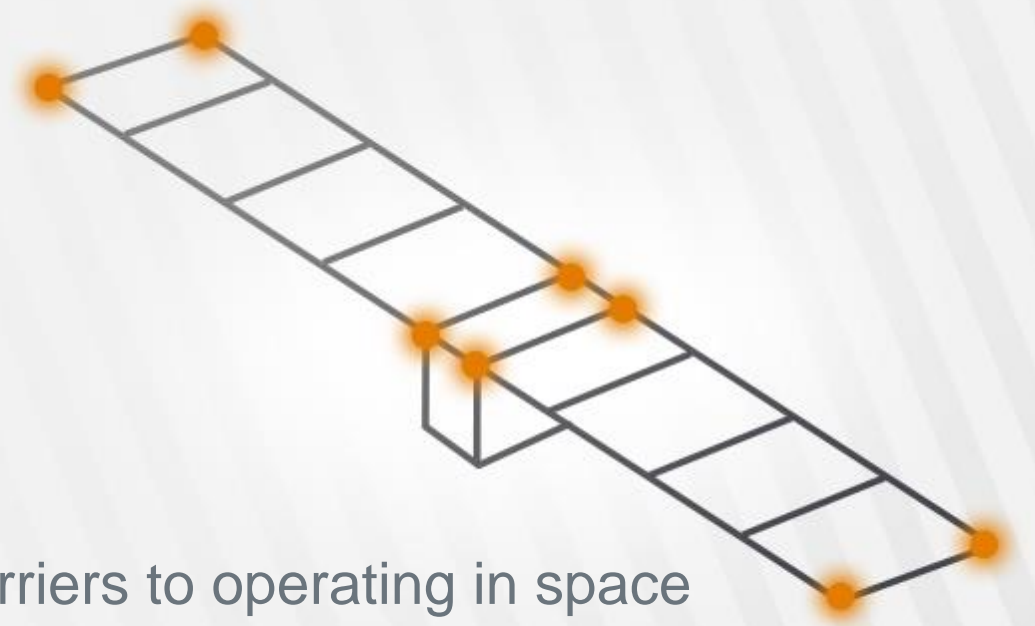
Space is vital to Defence operations. As the barriers to operating in space are lowered, adversaries are seeking to limit the military advantage provided by space-based capabilities.

## CHALLENGE

Assure access to space-based services within a congested and contested space environment, delivered direct to Defence users and coalition partners.

**Sponsor:** Chief of Air Force

**DSTG Chief:** Chief of Intelligence, Surveillance and Space Division



# Information warfare

## CONTEXT

Our social, commercial, civilian and military systems are completely dependent on information environments that are highly contested by a range of actors from criminals to nation states.

## CHALLENGE

Deliver integrated information warfare capabilities to enable Defence to fight in and operate through contested information environments.

**Sponsor:** Chief of Joint Capabilities

**DSTG Chief:** Chief of Cyber and Electronic Warfare Division





# Agile command and control

## CONTEXT

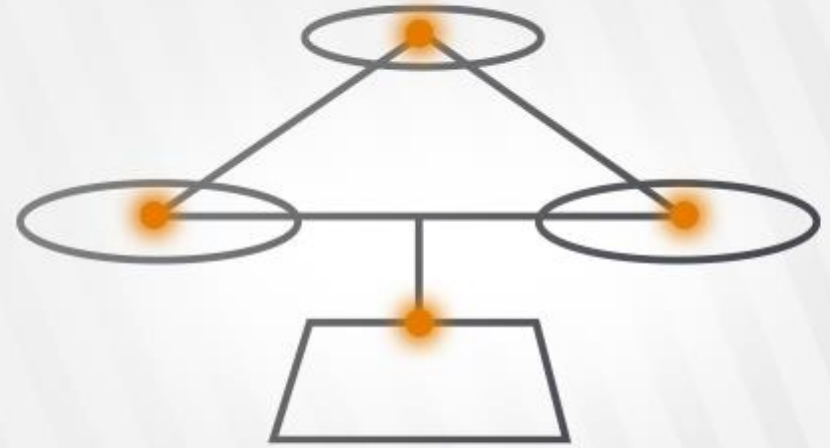
Joint all-domain operations are the new reality in modern warfare where high-speed, high-manoeuvre concurrent operations are conducted at an unmatched tempo.

## CHALLENGE

Connect, synchronise and integrate capabilities across multiple domains, multiple services and with a variety of partner nations to understand, shape and dominate the future battlespace.

**Sponsor:** Chief of Joint Operations & Chief of Joint Capabilities

**DSTG Chief:** Chief of Joint and Operations Analysis Division





# Quantum assured position, navigation and timing



## CONTEXT

The core reliance of military systems on the Global Positioning System (GPS) is a critical vulnerability.

## CHALLENGE

Assure uninterrupted operations in complex and contested environments where access to Global Navigation Satellite Systems (GNSS) is compromised, degraded or denied.

**Sponsor:** Chief of Joint Capabilities

**DSTG Chief:** Chief of Cyber and Electronic Warfare Division

# Disruptive weapon effects

## CONTEXT

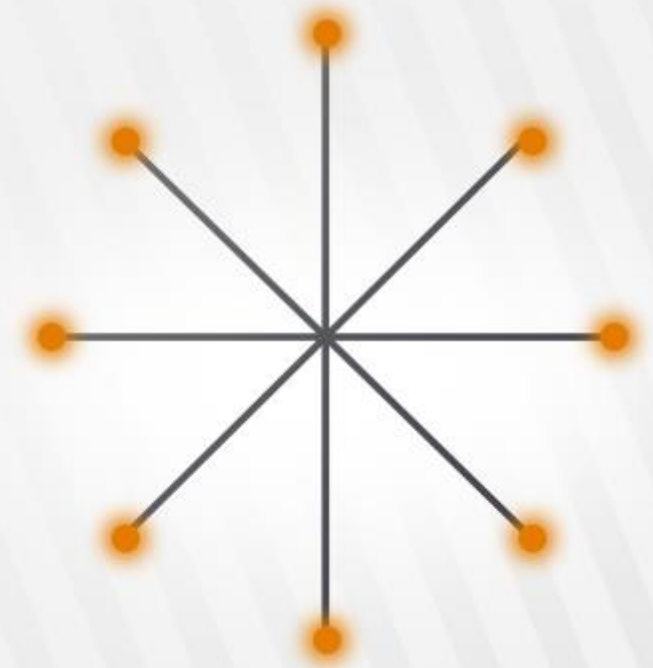
The emergence of new advanced and unconventional weapon systems is transforming the battlefield and disrupting the way we influence, deter, deny, fight and win.

## CHALLENGE

Deliver precise weapon effects with low collateral damage to control the battlespace, enable freedom of manoeuvre and survive multi-domain combat in highly contested environments.

**Sponsor:** Vice Chief of the Defence Force

**DSTG Chief:** Chief of Weapons and Combat Systems Division



# Operating in CBRN environments

## CONTEXT

The threat of Chemical, Biological, Radiological and Nuclear (CBRN) attacks against military and civilian populations is growing as state and non-state actors are increasingly willing to resort to these indiscriminate methods and CBR agent synthesis manufacturing processes are proliferating.

## CHALLENGE

Safely and effectively operate within CBRN contaminated environments for prolonged periods of time.

**Sponsor:** Chief of Army

**DSTG Chief:** Chief of Land Division



# Battle-ready platforms

## CONTEXT

The ability of a nation to commit to a war and endure a campaign of protracted battles depends on the availability, preparedness and sustainability of its warfighting machines.

## CHALLENGE

Maintain sustained presence and battle-readiness to enable high-tempo operations for extended periods of time.

**Sponsor:** Chief of Navy & Chief of Air Force

**DSTG Chief:** Chief of Aerospace Division



# Remote undersea surveillance



## **CONTEXT**

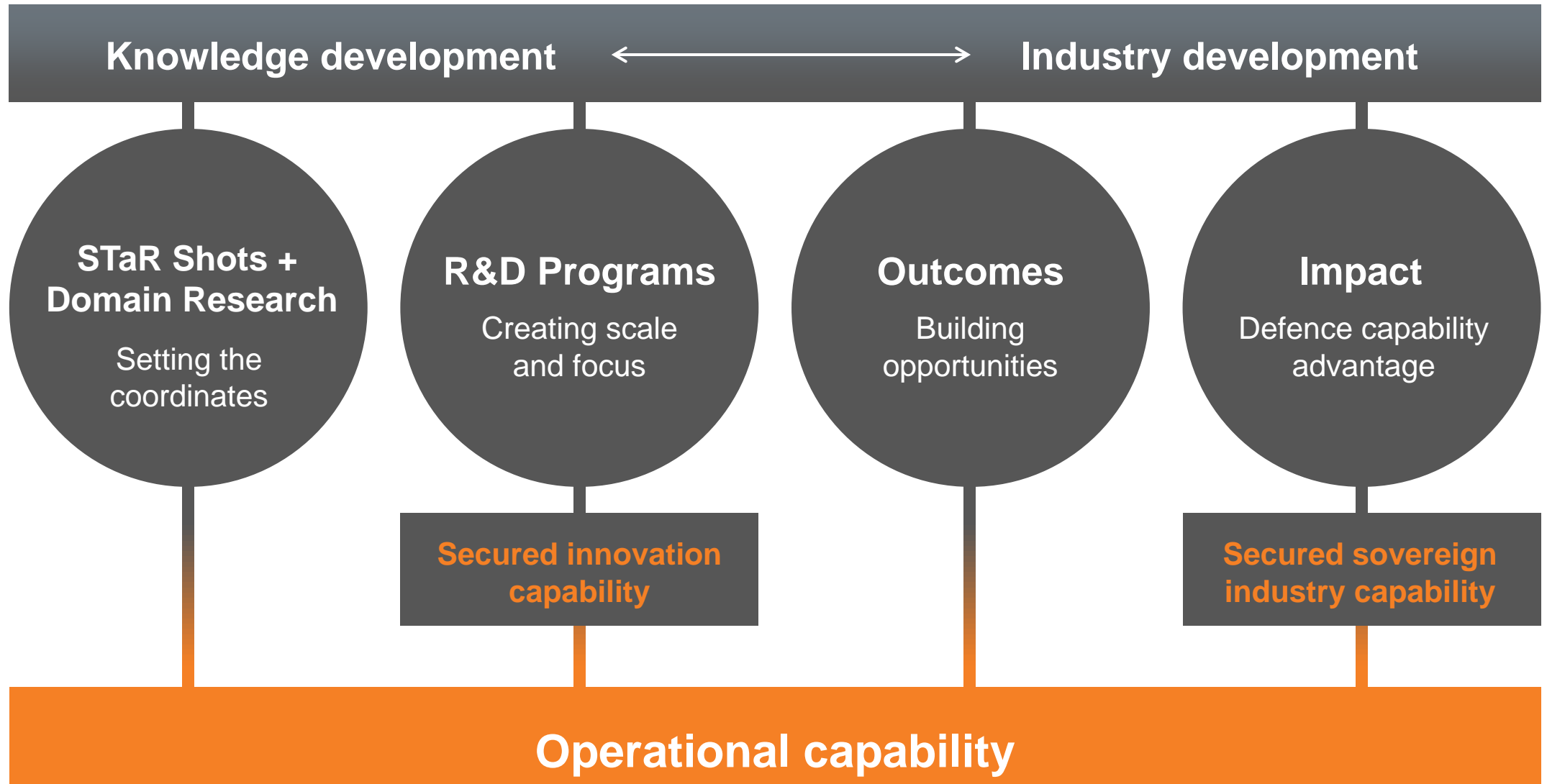
Situational awareness of Australia's maritime interests is essential to meeting Australian Defence Force operational demands across the spectrum of Navy supported tasks.

## **CHALLENGE**

Maintain comprehensive undersea situational awareness of large maritime expanses of strategic importance to inform undersea warfare responses.

**Sponsor:** Chief of Navy

**DSTG Chief:** Chief of Maritime Division

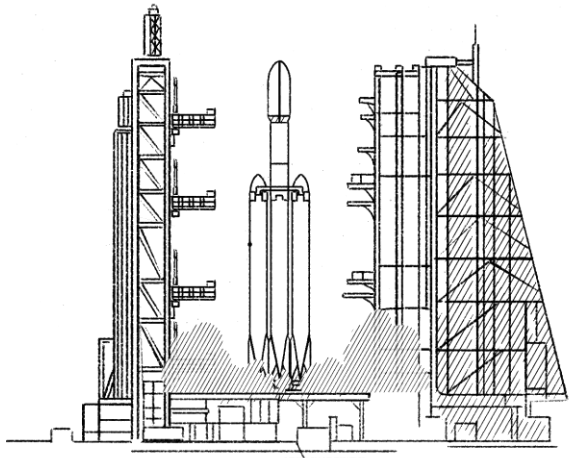


# Where to from here?

Engagements

Partnerships

Outcomes





**Thank you. Questions?**