# Britain's Defence Future Will Be Won by Software, Not Hardware

For decades, defence capability was measured in ships, tanks and aircraft.

Increasingly, it is being measured in software, data and talent.

The publication of the UK's Strategic Defence Review (SDR) and Defence Industrial Strategy in June 2025 marks a significant moment not only for the Armed Forces, but for the wider technology and investment landscape. Much of the public discussion has understandably focused on defence spending commitments and military capability. However, the most important message emerging from the review is not about how much money will be spent. It is about where value will be created.

The UK's ambition to become a leading technology-enabled defence power represents a fundamental shift in how military advantage will be generated over the coming decade. The organisations that succeed in this new environment will not simply be those that build the best platforms. They will be those that can develop, integrate and deploy technology faster than their competitors.

This is no longer solely a defence conversation. It is increasingly a technology conversation, an investment conversation and, perhaps most importantly, a talent conversation.

## The Real Challenge Is Not Defence Spending

The Government's commitment to increase defence spending to 2.5% of GDP by 2027, with ambitions to move towards 3% thereafter, has rightly attracted significant attention.

Yet the central challenge facing policymakers is not how much to spend.

It is how quickly defence organisations can convert investment into operational capability.

Recent conflicts have demonstrated that military advantage is increasingly determined by speed of adaptation rather than the scale of procurement programmes. Technologies that can be developed, tested and deployed within months are beginning to challenge traditional acquisition models that often require years, or even decades, to deliver outcomes.

This creates a critical strategic question for government and industry alike: can defence procurement evolve quickly enough to keep pace with technological change?

In many respects, procurement speed may prove a greater determinant of future military effectiveness than budget size alone.

## The Digital Battlefield Has Already Arrived

The conflict in Ukraine has accelerated a shift that was already underway.

For much of the twentieth century, military power was measured through physical assets. Today, data, connectivity and software are increasingly shaping battlefield outcomes.

The SDR recognises this reality by placing greater emphasis on integrated digital capability, autonomous systems and real-time decision-making. Future defence forces will rely on the ability to collect, analyse and act upon information at unprecedented speed.

This represents a profound change in how military organisations create advantage.

The winners will not necessarily be those with the largest inventories. They will be those capable of integrating technology across multiple domains and translating information into decisions faster than their adversaries.

## Artificial Intelligence Is Becoming Defence Infrastructure

Artificial intelligence is often discussed as a standalone capability. In reality, its long-term importance may be far greater.

The most successful defence organisations will not treat AI as another technology programme. They will treat it as foundational infrastructure.

The SDR's proposal for a Defence AI Investment Fund and a common digital foundation reflects this shift in thinking. AI is moving beyond experimentation and towards operational deployment across intelligence analysis, logistics, predictive maintenance, mission planning and decision support.

At the same time, advances in agentic AI, machine learning and autonomous decision-support systems are accelerating faster than many organisations anticipated.

The competitive advantage will not come from simply adopting AI tools. It will come from building the underlying data architectures, governance frameworks and digital environments required to deploy AI safely, securely and at scale.

For many organisations, this will require a far greater focus on digital transformation than on AI adoption alone.

## Cyber Security Has Become a Strategic Capability

Cyber security is no longer an IT function. It is now a core element of national defence capability.

As critical infrastructure, telecommunications networks and defence supply chains become increasingly interconnected, cyber resilience becomes inseparable from national resilience.

At the same time, threat actors are leveraging automation and artificial intelligence to increase the scale and sophistication of attacks. Defence organisations are therefore entering an environment where defensive capabilities must evolve at the same pace as offensive techniques.

This convergence of cyber security and AI is likely to become one of the most significant areas of defence investment over the next decade.

The organisations that can combine cyber expertise, cloud infrastructure, AI capability and operational resilience will become strategically important partners across both government and industry.

## Defence Is Becoming a Technology Investment Ecosystem

Perhaps the most significant change emerging from the Defence Industrial Strategy is a recognition that innovation can no longer be delivered exclusively by traditional defence primes.

Historically, defence innovation flowed through relatively small numbers of large contractors. Increasingly, innovation is emerging from a broader ecosystem of technology firms, software providers, specialist engineering businesses, universities, venture-backed start-ups and private investors.

This shift has important implications for capital allocation.

For investors, defence is increasingly being viewed as a technology growth market rather than a specialist industrial sector. Software platforms, AI capabilities, cyber security businesses and autonomous systems developers are becoming increasingly relevant to national security priorities.

Over time, some of the most strategically valuable defence assets may not be physical platforms at all. They may be proprietary software, digital intellectual property and highly specialised technical talent.

This represents a significant evolution in how value is created within the defence sector.

## The Talent Challenge May Define Success or Failure

While much attention is focused on budgets, platforms and technology, the greatest constraint on the UK's defence ambitions may ultimately be people.

Every capability outlined within the Strategic Defence Review depends upon access to highly skilled professionals in software engineering, artificial intelligence, cyber security, cloud computing, systems engineering and advanced manufacturing.

Yet these skills remain in short supply across virtually every major industry.

Defence organisations are no longer competing solely with one another for talent. They are competing with technology companies, financial institutions, global consultancies and hyperscale cloud providers.

The implications are profound.

The organisations that successfully attract and retain digital talent will gain a significant competitive advantage. Those that fail to do so may find that funding is available, technology exists and strategic intent is clear, but delivery remains out of reach.

In many respects, talent has become a national capability in its own right.

## Looking Ahead

The Strategic Defence Review sets out an ambitious vision for the future of UK defence.

The next phase will determine whether that vision can be translated into funded programmes, deployable capabilities and measurable outcomes.

What is already becoming clear is that the future of defence will be shaped less by traditional distinctions between military and commercial sectors. Technology, defence, investment and workforce strategy are becoming increasingly interconnected.

The organisations that recognise this shift early will be best positioned to succeed. The defence sector's future will undoubtedly require ships, aircraft and armoured vehicles.

But the decisive advantage is increasingly likely to come from software, data and the people capable of turning technology into operational capability.

The UK's defence future will not be won by hardware alone.

It will be won by those who can innovate, adapt and deploy technology faster than everyone else.

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**5th June 2026**