

In collaboration with PwC

Centre for Frontier Technologies and Innovation

National Space Strategy Toolkit

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Lead, Planetary Solutions Impact

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TU Space Sustainability Summit

Our mission

Fueling the Future of Space

No longer a distant frontier, Space has become essential to how we live, work, and secure our world. Space infrastructure underpins everything from global communications and weather monitoring to national security and scientific discovery.

With the space economy projected to reach \$1.8 trillion by 2035, there is an immense opportunity not only for commercial growth, but also for shaping the future of technology, security, and sustainability of life on and beyond Earth's surface.

The Future of Space Network aims to advance a more prosperous, secure and sustainable future for humanity on Earth and beyond, driven by accessible, competitive and widely adopted space capabilities.

2025 Guiding Questions

- What are the implications on the space industry of a few nations or actors holding outsized control?
- As reliance on space infrastructure grows, how will the benefits and risks for consumers evolve?
- What does a truly commercial space ecosystem mean in both the current and future space environment?
- How are geopolitical and security concerns impacting the space ecosystem?



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Background

How the space ecosystem is changing



Increase in the Number of Actors and Activities



Expanding Space Economy



Space & Socio-Economic Development





Space Diplomacy



Technology Stack





Shift from traditional R&D and large-scale missions toward commercial partnerships, agile regulation, and private-sector innovation



Rising interest in space driven by economic and societal opportunities, with governance needed to harness them



Nations using space to build **national** competitiveness, focusing on areas of expertise and industrial potential

Toolkit Objectives

- Support emerging and smaller national actors in optimising their national activities and investments by providing step-by-step guidance, recommendations based on best practices and lessons learned from space actors around the world, and useful quantitative information for nations to build an effective space programme and strategy
- Raise the awareness of the impact of space activities and its links to contributing to socio-economic development, STEM education, and technological innovation across all sectors

Timeframe

Initiated in July 2024. To be released in September 2025.



Audience

National actors, such as government entities or space agencies



Outputs

Online tool
(assessment + use case library) + accompanying briefing paper



Partners

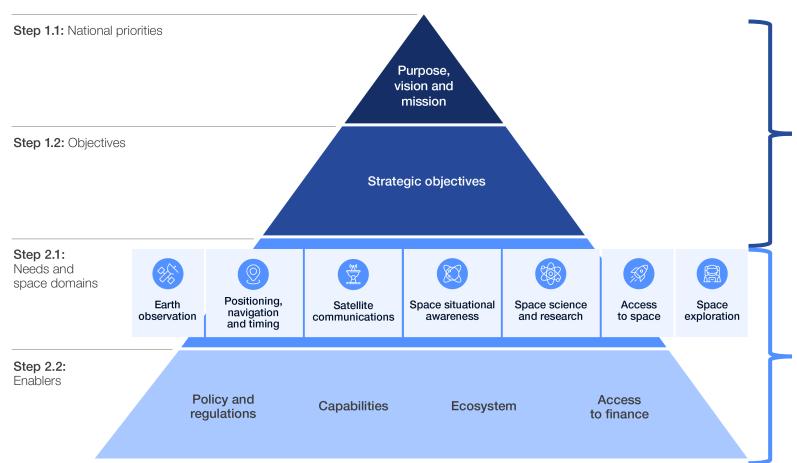
Led by the Forum in partnership with PwC.

Community consists of government and space agencies from more than 33 nations, Forum industry partners, relevant academia and civil society.

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Methodology of Toolkit

Prioritising space activities that serve national priorities while focusing on developing only the essential capabilities are the key



Step 1 Definition of a High-level Strategy Step 1.1

The reason for the creation of a space strategy and programme, and how space fits in the core values and long-term aspirations of the nation

Step 1.2

The objectives of the space strategy to be set in order to fulfil the vision and mission of the nation

Step 2 Prioritising Actions

Step 2.1

Prioritisation of needs and space domains aligned with the priorities and objectives of the nation

Step 2.2

Key levers needed to create and sustain a national space programme

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Outputs



Briefing Paper

High-level introduction to the benefits for nations investing in space and points of consideration





User Guide

Methodology, definitions and details of how to use the Toolkit





Assessment

Step-by-step assessment helping nations systematically think through strategies





Use Case Library

More than 450+ use cases linked to the recommendations provided in the Toolkit from space actors across the globe

National Space Strategy Toolkit Use Case Library This is page is a use case library of the National Space Strategy Toolkit. Please refer to the Toolkit page for more information. Q. Search for... Locations V. Action Area V. Damain V. Brabber V. Ratcon V. Policy Area V. V. More filters Acquire open-source data from public entities - Europe Acquire open-source data from public entities - Europe



Toolkit in Practice

Key Considerations

After going through all the steps of the toolkit, the user will need to reflect on a few key points before developing the national strategy



Strategy development is an iterative process.

After going through the final recommendations, return to the high-level purpose and objectives and refine them as needed.



Involve the right stakeholders.

Bring together key people from the space ecosystem and government when setting the vision, mission and strategic objectives.



Know your capabilities and gaps.

Determine the status quo of the nation's positioning. Identify current space capabilities, strengths the nation can leverage to grow your space ambitions, and essential capabilities that are missing in the nation.



Set targeted and achievable goals with different timelines.

Prioritising the most effective space domain will ensure an efficient use of resources and development of key capabilities that will enable the nation to maximise the ROI on space. Consider the capability gap and the required investment to lay out short-term, mid-term and long-term strategies.

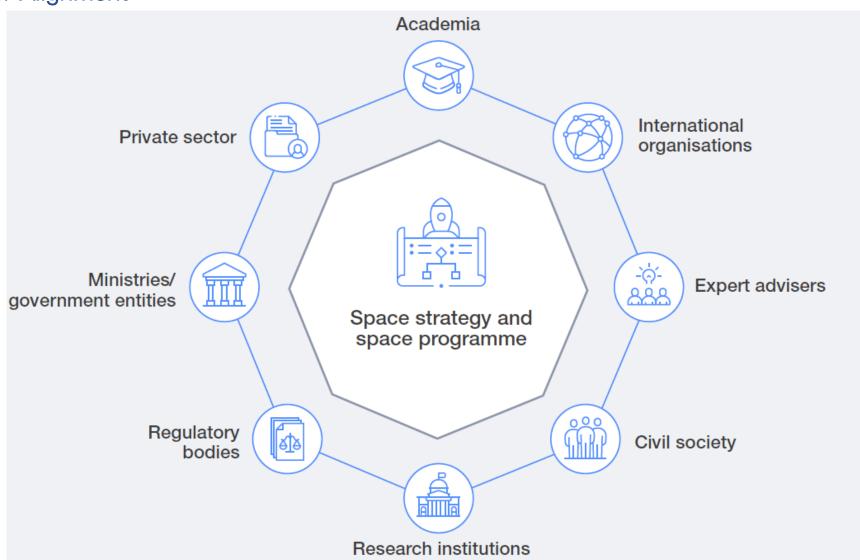


Evaluate and track progress.

Set KPIs to measure progress, assign responsibility and ensure accountability for achieving specific goals.

Toolkit in Practice

Stakeholder Alignment



Toolkit in Practice

Prioritisation of Actions

High	Development or acquising non-existing and/or spenting and E.g. set-up of academic of		cific capabilities	Other actions requiring sustained investment for specific capabilities E.g. workforce strengthening, dedicated space hub			
Required investment			Medium-term strategy (3-5 years) Short-term strategy	Long-term (5+ years)	strategy rm strategy		
Requ		Carried out with existing	(1-3 years)	(3-5 years)			
Low	E.g. public-private partnerships (PPPs), development of customer base, capacity building activities			Development or acquisition of non-existing and/or specific capabilities E.g. developing space regulation			
	Low Capabilities gap						High

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Call for Action

- Use the Toolkit to review and develop public sector space strategy
- Share additional use cases
- Express interest in briefings/workshops for support and connecting with other Toolkit users
- Reach out to engage with the Forum's Future of Space Community





Questions?

The World Economic Forum is the International Organization for Public-Private Cooperation.

Our mission is to improve the state of the world. Our purpose is to bring together stakeholders from all sectors of society. We provide a platform for the world's 1,000 leading companies to shape the future.

Contact

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