



PwC in the new space economy





The space industry is growing at a rapid and accelerating pace: The US Chamber of Commerce estimates that the global space economy could reach \$1.5 trillion by 2040.

As the burgeoning space economy integrates into the global economy, piecemeal proprietary networks are linking, and public- and private-sector entities are collaborating in ever-more diverse ways. Initiatives in the civilian and military arenas overlap, interlink and cross-fertilize. The boundaries between aviation and aerospace are blurring.

The result is an expanding and unprecedented array of opportunities and challenges in both the global and the US space markets.



We can deliver advanced solutions to meet your needs now

At PwC, we are helping our clients scale up their capabilities and capacities to realize their upmost ambitions. We can deliver advanced space digital engineering technology and consulting services to help accelerate various aspects of your business.

We are fluent in addressing the evolving demands of the public sector's space and military agencies, including many aspects of US and international regulatory compliance. And we are just as deeply experienced in dealing with the needs of the private sector — both public and private companies — including tax and compliance issues unique to the space sector.

Whether you are committed to space as a business, a realm of investment, an enabler or an adjacency, we can help you enhance the speed, efficiency, effectiveness, profitability and sustainability of your enterprise. Our solutions can support companies that seek to innovate in multiple areas of the space industry today, whether long established or emerging:

- Aerospace Engineering & Flight Sciences
- Launch
- Consumer space tourism
- Commercial space transport
- Space-based communications
- Space surveillance, surveying, and environmental monitoring
- Ground operations
- Geostationary equatorial orbit (GEO), medium Earth orbit (MEO) and low Earth orbit (LEO) applications
- Satellite & Sensor data services
- Space Law
- IPO Readiness
- Deals, Mergers, & Acquisitions
- Business to Government Contracting
- Tax Consulting
- Audit

We can help our space clients reduce costs, save time, and increase collaboration with automated data and artificial intelligence/machine learning (AI/ML) pipelines to accelerate engineering and flight sciences analysis. We can guide clients in developing and implementing strategies that launch new products, create market differentiation and open new paths for growth. Our bespoke digital solutions can enhance talent retention in the space sector's highly competitive labor market, while also increasing shareholder value and trust.

We enable leadership through strategic digital innovation

At PwC, we are positioned to help you not only thrive in the emerging new space economy, but also to lead in this exciting era of change. Here are some of the areas in which we have helped clients define or redefine and fulfill their objectives:

Digital engineering modernization

Across the military and civilian aviation and aerospace sector, digital transformation of program management, engineering and analysis processes are underway to enable the digital thread, digital twin simulation and true configuration management. We can help you modernize critical aspects of your flight sciences and engineering by enhancing your model-based systems engineering (MBSE) processes, including parts registry and testing. Our advanced digital solutions can lead you to a new level of integration in a digitally enabled environment, whether cloud, multi-cloud or hybrid. In addition, we can support you in addressing complex regulatory compliance requirements and data classification.

Generative AI in space

GenAI (Generative AI) is transforming a wide array of space industry-specific use cases, including spacecraft design and engineering, flight sciences analysis, maintenance and repair operations, contract and proposal automation, supplier optimization, certification and testing acceleration, and satellite data integration to name a few, as well as a vast array of line-of-business use cases for both front- and back-office operations. PwC is a trusted and proven leader in providing GenAI solutions and holistic consultative guidance to assist our clients in establishing responsible AI solutions and governance. With a portfolio of GenAI capabilities, our clients benefit from the ability



to accelerate their operations to launch innovative and trusted GenAI solutions at scale.

Space mergers and acquisitions deals valuation

PwC's space-specific consulting services include tax compliance, risk assessment, deals valuation and strategy, private equity support and IPO readiness. We work with venture capitalists and other investors to devise the most desirable funding and investment strategies. Whether you want to create or fund a startup or support an established venture, we can help. We can also guide you to a strategically successful divestiture.

Data classification and acceleration services

For space enterprises, data security is absolutely mission-critical. Our digital solutions can support the correct classification of sensitive data to enable commercial computing's and cloud environments' ability to engage and scale the services you need. We also can help you leverage export-control policies to carefully engage with classified data.

Trust and Assurance services

As space companies expand the transnational and often global scope of their business, gaining stakeholder trust becomes ever more critical and ever more complex. We can help you credential and pursue new audit and assurance opportunities, including environmental, social and governance (ESG) and other essential assurance services.

Testing and certification acceleration

Meeting launch dates while also maintaining compliance in the space industry is a massive challenge. With ever-evolving changes to regulatory and environmental policies, the ability to engineer, test, certify and release new capabilities can be an insurmountable challenge. PwC helps customers with test and certification acceleration for spacecraft, satellite and other payloads by analyzing large volumes of data through generative AI in order to prioritize testing procedures, resulting in increased time-to-launch.

Supplier optimization

Increasing supplier optimization and efficiency is top of mind for our clients in the new space economy. Issues resulting in parts and supplier proliferation caused by upstream design decisions dramatically affect the balance sheet of any program and enable long-term complexity to unwind. Clients are leveraging PwC's experience in enabling supplier analytics and forecasting, fraud and anomaly detection, and parts proliferation services to decrease and reduce these challenges. We are using GenAI to analyze product lifecycle management (PLM) systems data and parts registries, while also running advanced analytics and machine learning-based algorithms to analyze the existing supplier base. The goal is to throttle increased efficiency and usage for our clients or suppliers – for products on which they critically depend on.



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For further insights:

*[From design to launch: AI solutions for the
future of spaceflight](#)*



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