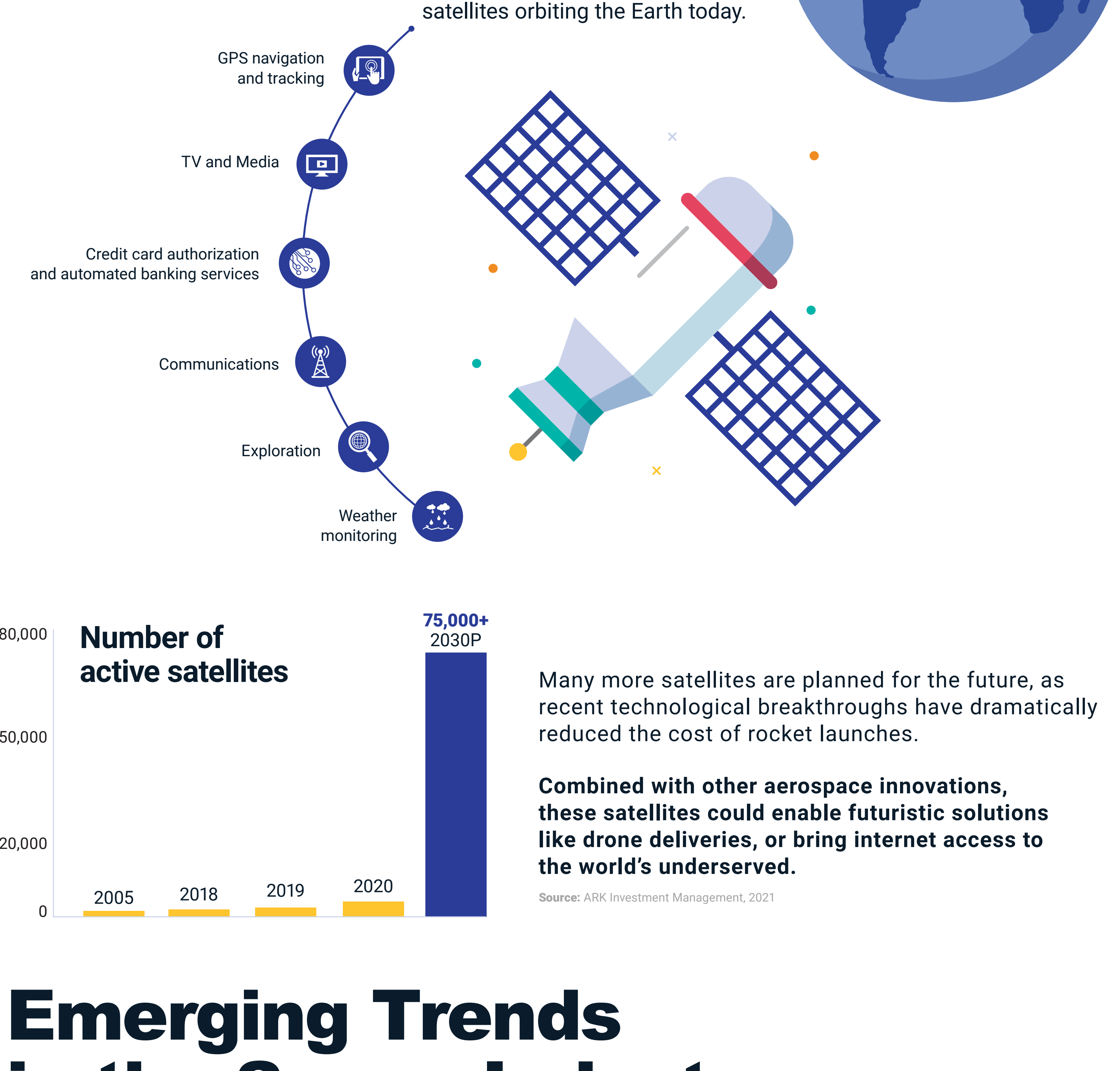


Is Space the Next Frontier for Investors?

Over the past several decades, space and satellite technology has become the invisible foundation of our digital world.



Emerging Trends in the Space Industry

From an investment standpoint, the space industry is a broad opportunity set which can be divided into three sub-categories:

1

Products and services focused on orbital and sub-orbital spaceflights

This segment includes reusable launch systems, hypersonic travel, and satellite connectivity.

Rocket reusability is one of the most important trends to watch because it could lower the cost of launches by several magnitudes.

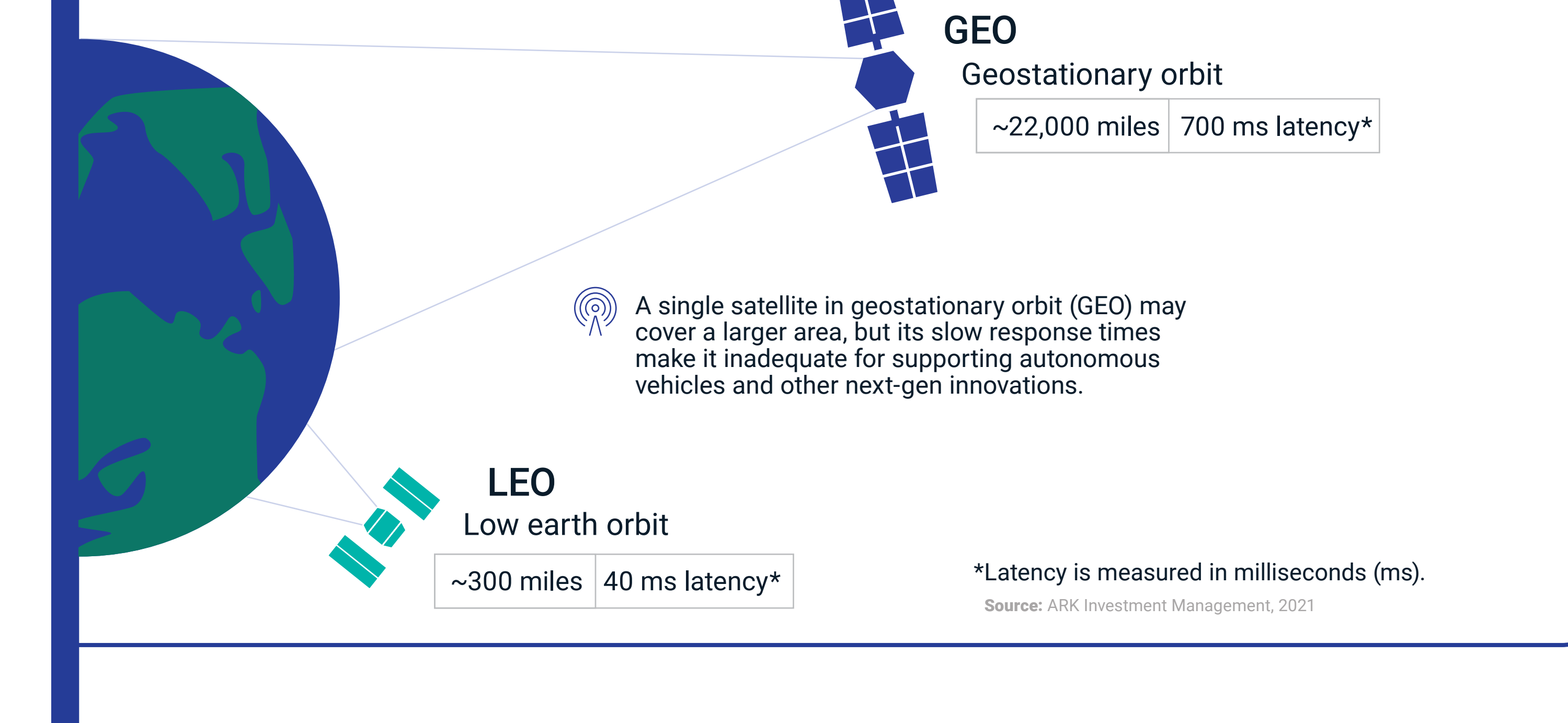


Rocket Launch Costs USD/kg



Cheaper launches translates into greater satellite connectivity.

That's because companies are now able to cost-effectively launch thousands of satellites into low earth orbit (LEO), enabling continuous coverage with lower latency.



2

Technologically enabled products and services for space exploration

This segment includes sectors that support space exploration, including unmanned aerial vehicles and avionics (electronics used in spacecraft).

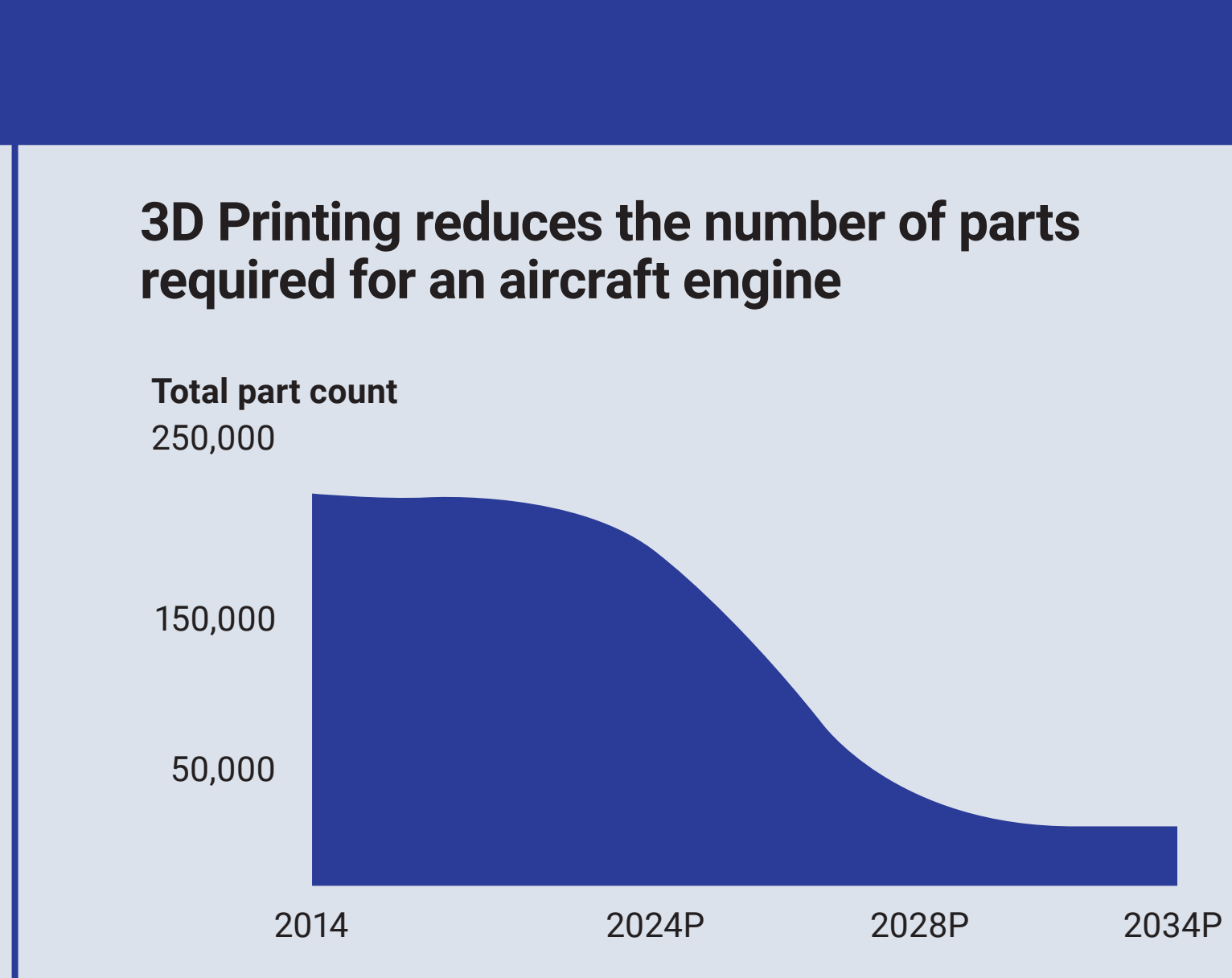
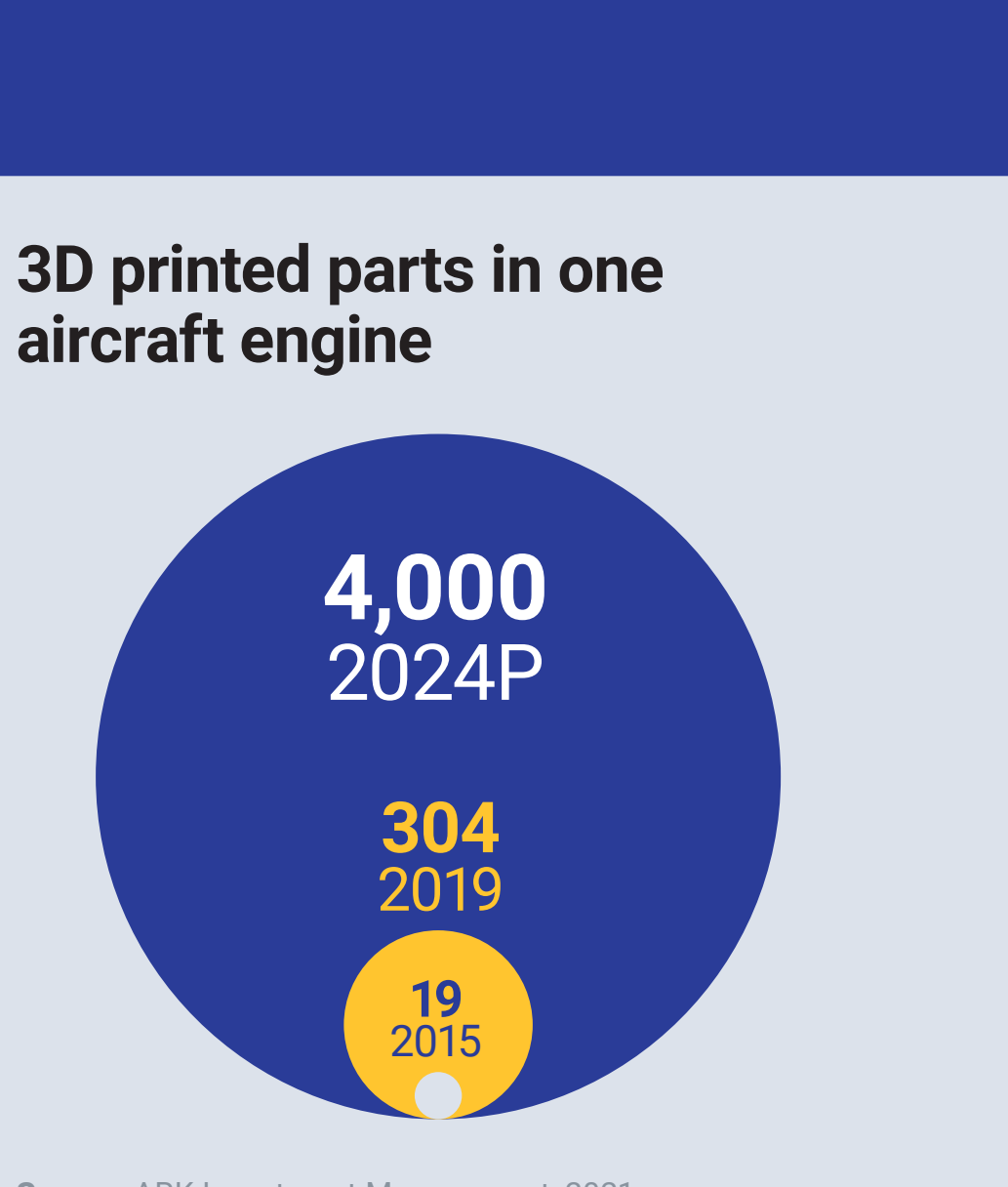
One of the biggest opportunities, though, lies in 3D printing.

3D printing is a form of additive manufacturing that builds objects layer-by-layer. This is the opposite of traditional methods where material is removed from larger blocks.



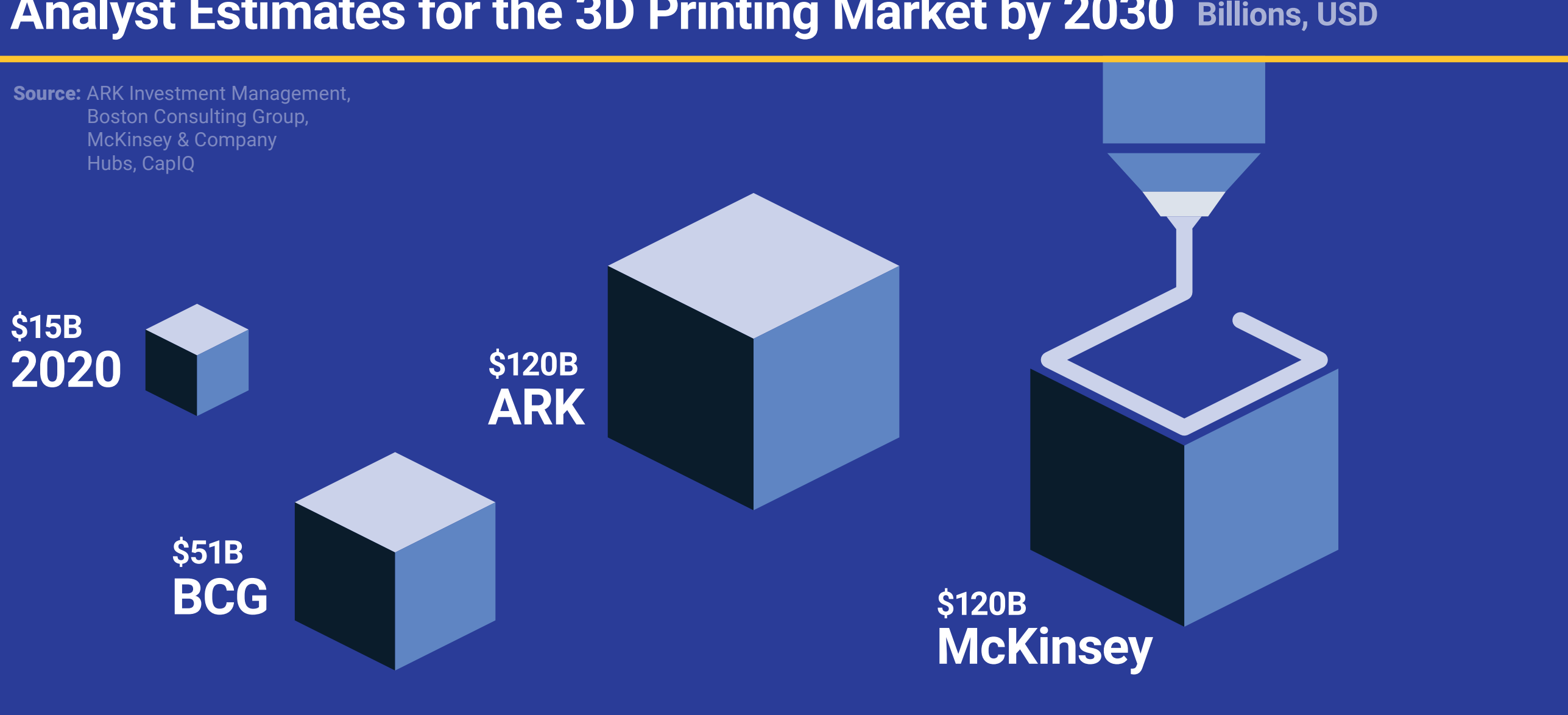
While 3D printing has applications in a broad range of industries, a large share of the opportunity is in aerospace.

3D printing reduces the delay between design and production, which simplifies the supply chain for complex components.



As space activities continue to ramp-up, so too will the adoption of relevant technologies like 3D printing.

Analyst Estimates for the 3D Printing Market by 2030 Billions, USD



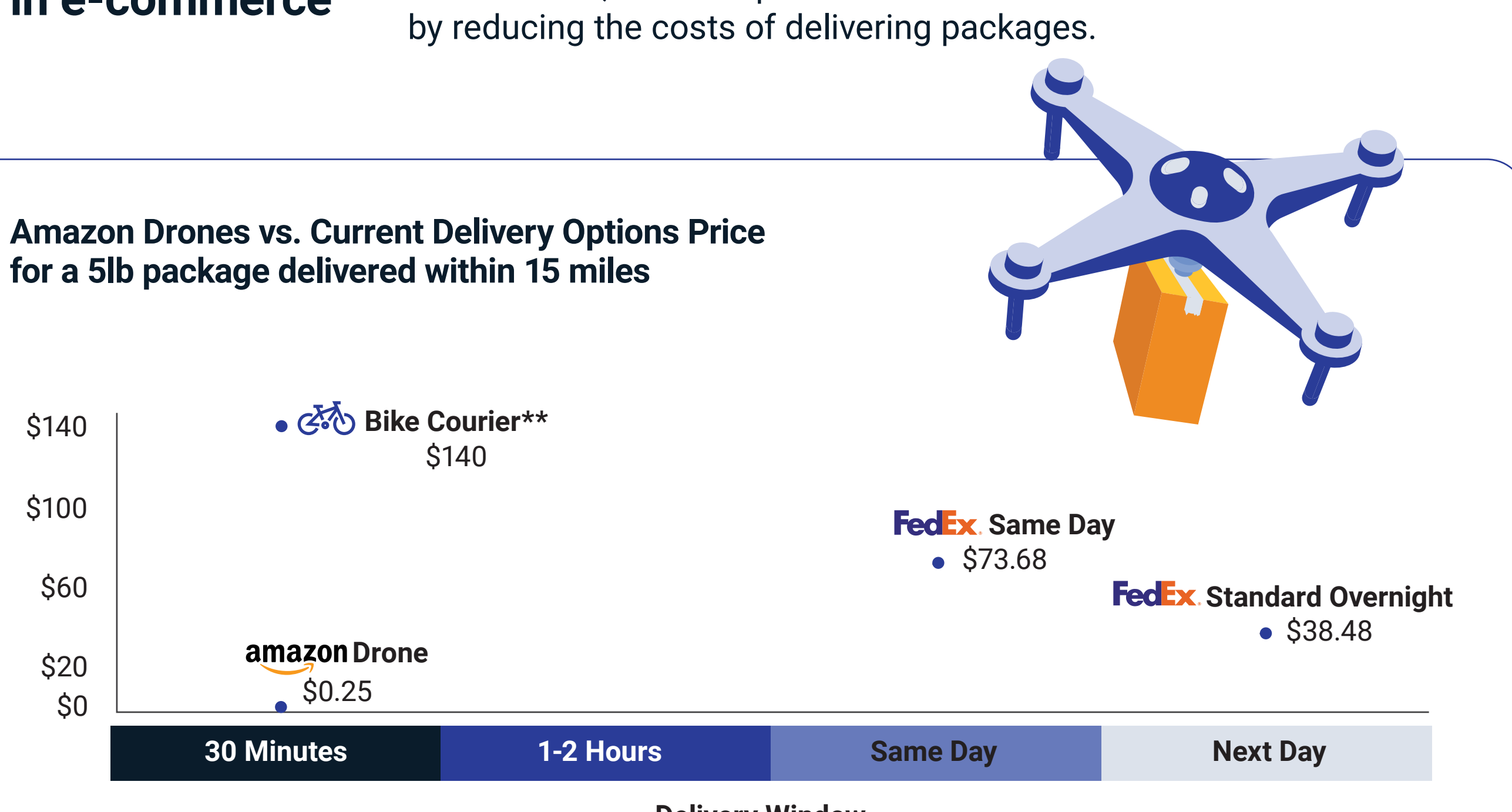
3

Other relevant products and services

The last segment of the space industry includes urban air mobility, satellite imaging, and satellite communication. These sectors can leverage the aforementioned trends to unlock new and powerful drone capabilities.

Drone deliveries in e-commerce

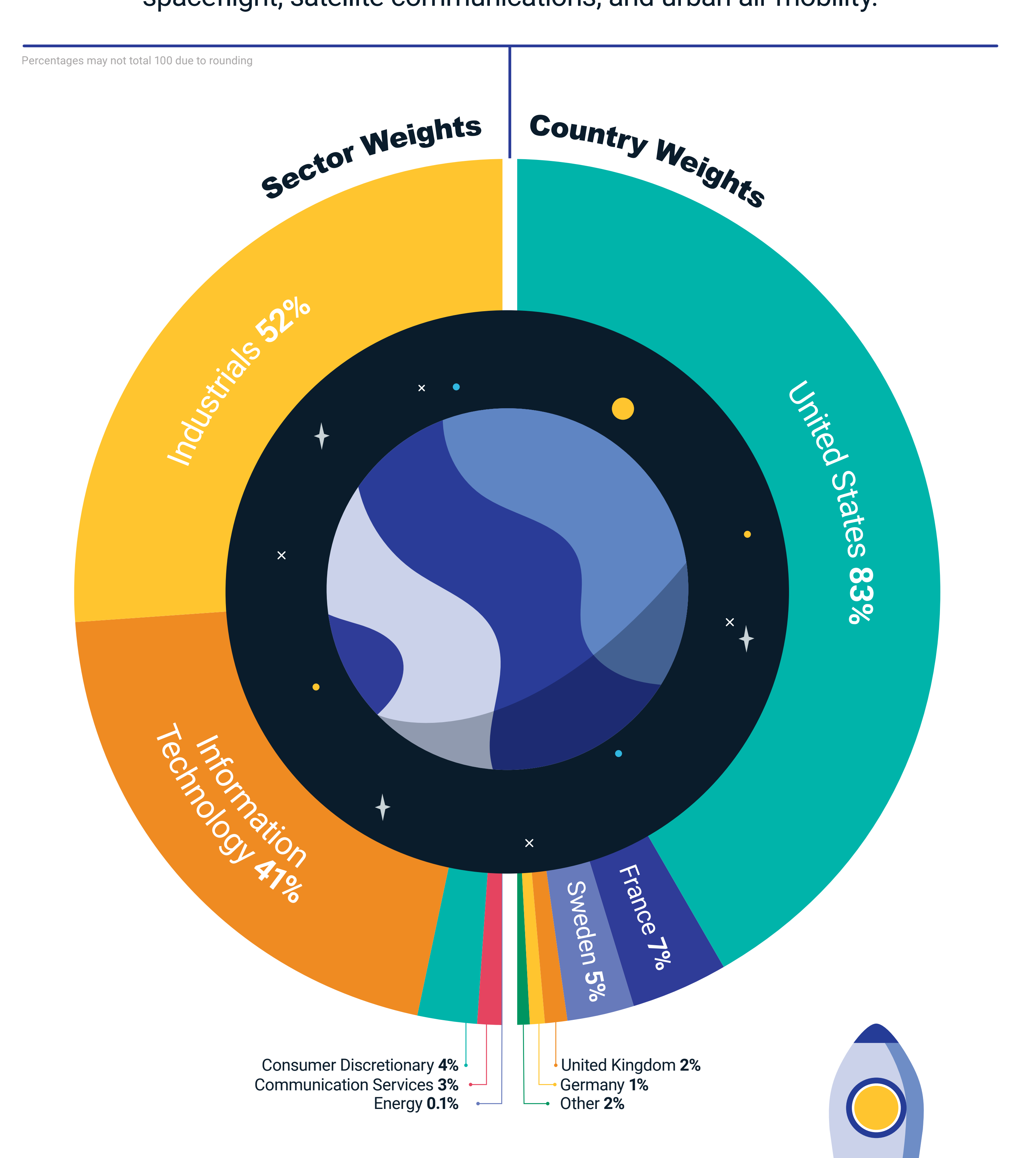
Autonomous drones, which would rely heavily on satellite GPS, have the potential to unlock value by reducing the costs of delivering packages.



Consumers could enjoy greater convenience at an even lower cost, while businesses stand to benefit from greater operational efficiency.

Introducing the MSCI Space Exploration Index

Developed in collaboration with ARK Invest, this index aims to represent the performance of companies associated with developments in spaceflight, satellite communications, and urban air mobility.



A monolithic and bureaucratic industry is being upended by falling rocket and satellite costs.

Embrace this new frontier with MSCI's first ever space-themed index.