

The relationship between 5G and Digital Twins for Industry 4.0

For more information, read the full report [here](#) or get in touch via contact@stlpartners.com.

What can 5G do for Digital Twins?

A Digital Twin needs high performance connectivity for **right time** access to **real data**

Emerging use cases for digital twins in industry will need 5G's capabilities

AR/VR	Precision Monitoring	Video analytics
Low Latency	High Capacity	High Bandwidth

Enterprise customers need help understanding 5G's capabilities



60% of industry respondents have not yet explored the benefits of 5G

What can Digital Twins do for 5G?

5G is the promise of **more data, received quicker** - Digital Twins is a **philosophy** of managing that data to make it **useful**

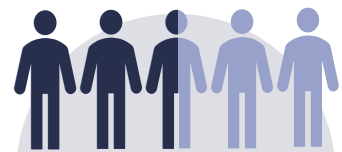
Digital Twins help build the business case for 5G

With 5G emulations, verticals can plan & innovate around emerging applications

"When it comes to government applications, the difficulty is proving the security of a network" – Global Engineering Company

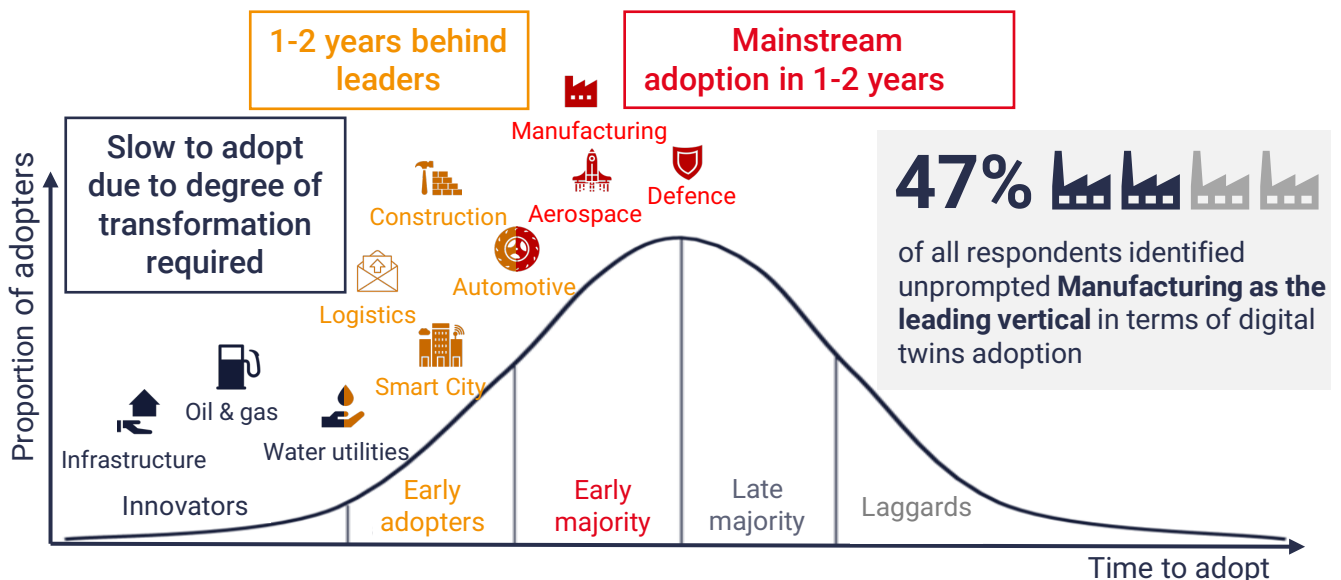
Telcos can use twins internally to accelerate 5G deployments

"Telcos will need dynamic digital twins to stay on top of the implementation of 5G" – Edge Software Provider



53% of all respondents took a business case-first approach to **cut through the tech hype**

How far away is mainstream adoption of Digital Twins?



The Digital Twin Ecosystem – who will coordinate this?

Digital Twins hold the most potential when they are part of a **connected ecosystem**, which will mean being interoperable with 3rd party twins

Academia will play a key role in developing this ecosystem



60% of industry respondents are partnering with academic institutions



"The main distinction of a Digital Twin is that it should have a representation of all of the components and how they interact" – Global Consumer Goods Manufacturer

To effectively derive insights through twins on assets and processes, consider the **holistic environment**, including a twin of the **connectivity** itself