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

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?

1-2 years behind leaders
Mainstream adoption in 1-2 years

Slow to adopt due to degree of transformation required

Manufacturing
Construction
Aerospace
Defence

47% of all respondents identified unprompted Manufacturing as the leading vertical in terms of digital twins adoption

Time to adopt

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

Source: STL Partners interview programme, May 2020