



5G Turns Wireless Network Service Providers into IoT Players

NOW'S THE TIME FOR 5G

From hype to real-world deployment, the time is now for 5G technology.

Analysts are predicting that 5G capabilities on new devices are likely to be mainstream by mid 2020.

Use cases dependent on 5G for cost effective implementation are ready for execution and new revenue opportunities that dramatically impact consumers' lives and transform business processes are ready to be captured.



BIG BANG AND BIG BUCKS!

Network Function Virtualization (NFV) and 5G are expected to deliver a big impact – reducing operational costs, adding new revenue opportunities, and accelerating process transformation. Speed, lower latency, and higher reliability drive this value.

5G BUSINESS IMPACTS



Acceleration of the value that can be derived from IoT



Higher returns on existing IoT investments



Reduction in the infrastructure required to support many workloads



Lower power consumption



Enablement of a broad range of sophisticated managed services



Expansion and deployment acceleration of machine-to-machine use cases



Improved productivity of remote workers



More efficient network operations

5G ADVANCES THAT MAKE A DIFFERENCE

SPEED



Reaching **speeds of 1 Gbps** for some **mobile applications**

LATENCY



60 to 120 times better than 4G

RELIABILITY



Mission critical control possible with **1 millisecond latency**

5G IMPACTS

Acceleration of Network Function Virtualization deployments with 5G and IoT connectivity growth.

Expansion of sensor-to-sensor or machine to machine communication and the use of edge computing.

In manufacturing, high connectivity and low latency reduces dependency on expensive infrastructure.

5G relies on NFV to provide intelligence at the wireless edge to handle network slicing, traffic handling and routing.

Network slicing:

- Enables the deployment of the right networking in the right place at the right time.
- Provides the capability to apply different service qualities and characteristics.
- Introduces efficiencies and functionalities that were not economical or technically feasible in the past.

5G AND NETWORK SLICING WILL ALLOW MOST – IF NOT ALL – NETWORKING ELEMENTS TO MOVE TO A WIRELESS ENVIRONMENT.

NETWORK SERVICE PROVIDER (NSP) USE CASES

NFV, 5G and network slicing are the technological capabilities that allow service providers to dynamically allocate speed, capacity, and coverage based on real-time use case demand. NSPs have the opportunity to leverage this intelligence to offer additional services that will help entire industries interact with their clients. Let's explore a few of these opportunities.



NEW EXPERIENCE FOR SPORTS FANS

Delivering the capability to stream high resolution, live action from drone-mounted 4k cameras with real-time access to statistics based on sensors located throughout a stadium or sporting facility can provide a fully immersive experience for sports fans.



SELF-DRIVING CONNECTED CARS

Ultra-reliable, low-latency connectivity of 5G will enable the widespread use of self-driving cars. It also enables the ability for other interactive driver applications from travel to maintenance and warranty services applications.



AUGMENTED REALITY USE CASES

Cost effective augmented reality use cases require NFV and network slicing. Examples include assisted technical service and maintenance or assisted medicine.



MORE EFFICIENT NETWORK MANAGEMENT

As NSPs begin their 5G implementations, new technologies and capabilities like Massive MIMO, beamforming, full-duplex traffic, and small cells will come to the forefront as offerings that enable smarter and more efficient performance across the network.



GET READY FOR THE 5G ERA WITH VITRIA

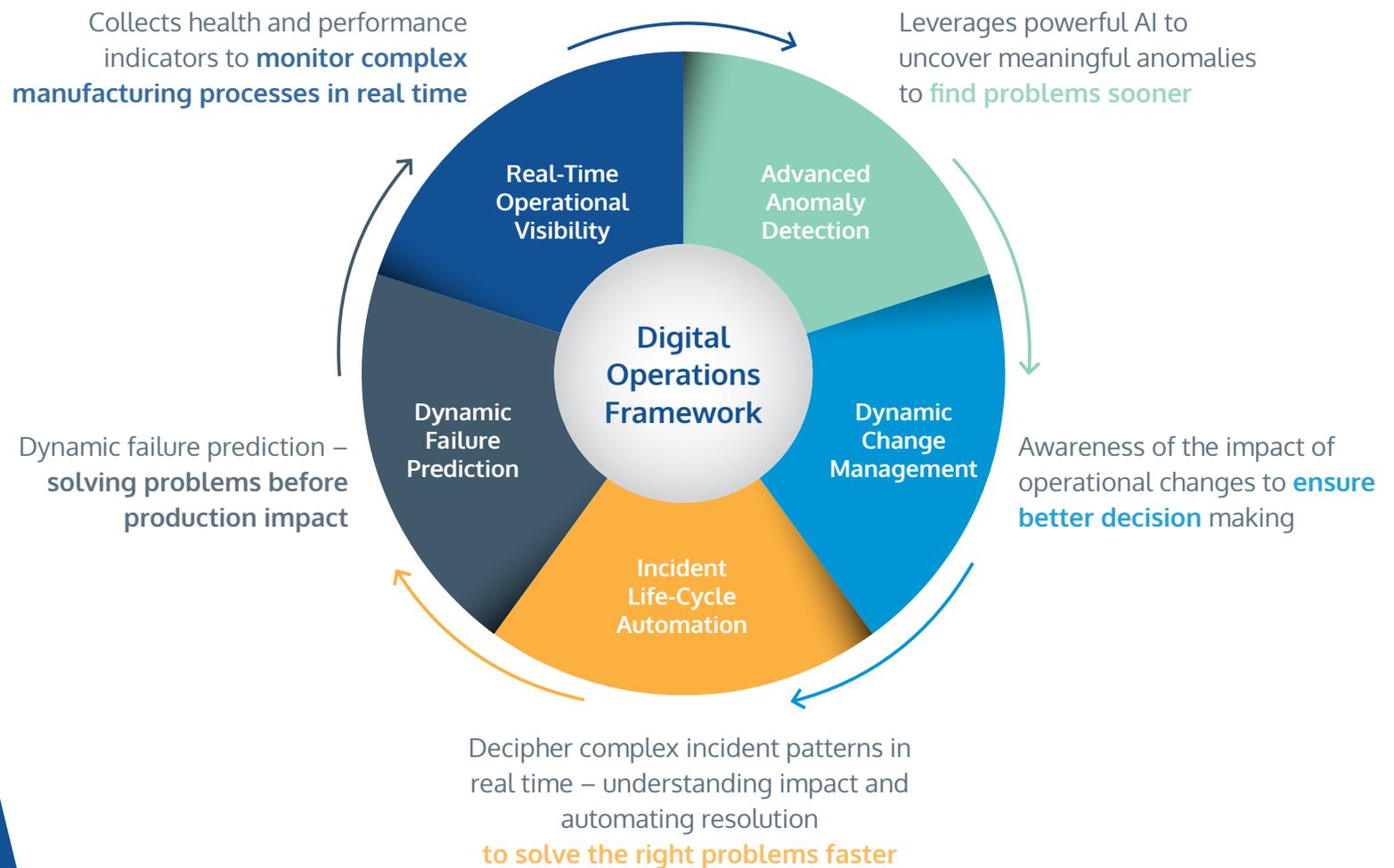
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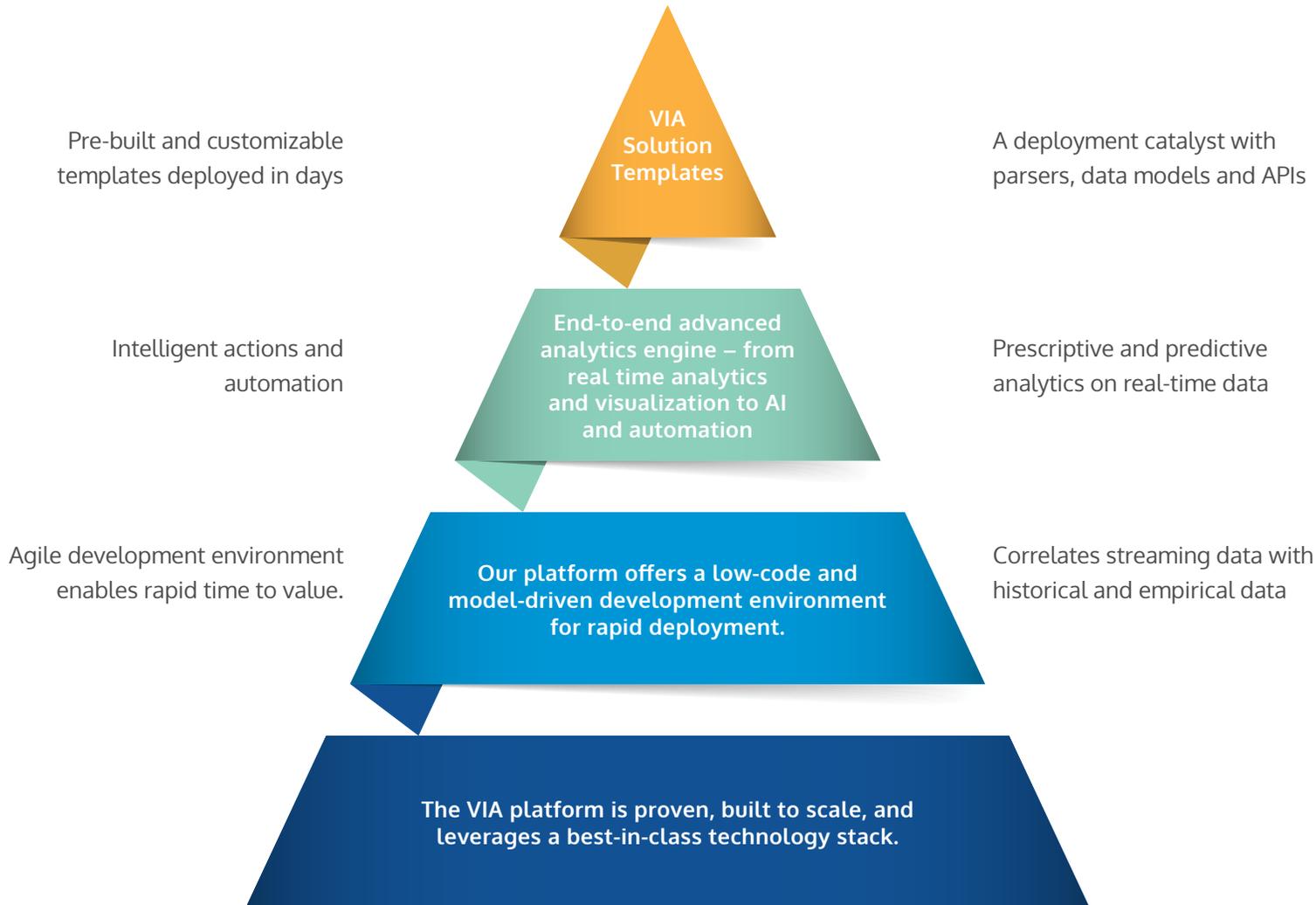
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DIGITAL OPERATIONS – HOW WE MAKE IT HAPPEN



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