

5 ESSENTIAL ELEMENTS to Ignite Asset Performance Management



ASSET PERFORMANCE MANAGEMENT (APM) has been a poorly understood and underutilized opportunity for asset-intensive industries. As we forge ahead through the age of Digital Transformation with Industry 4.0 or Smart Manufacturing, APM is at the forefront as a critical component for success. **Enter APM 4.0 – an evolutionary step for companies to bring together the essential elements to succeed in the new age.** For any organization pursuing Industry 4.0, these elements are necessary to support and redefine the APM strategy.



1 PRESCRIPTIVE ANALYTICS

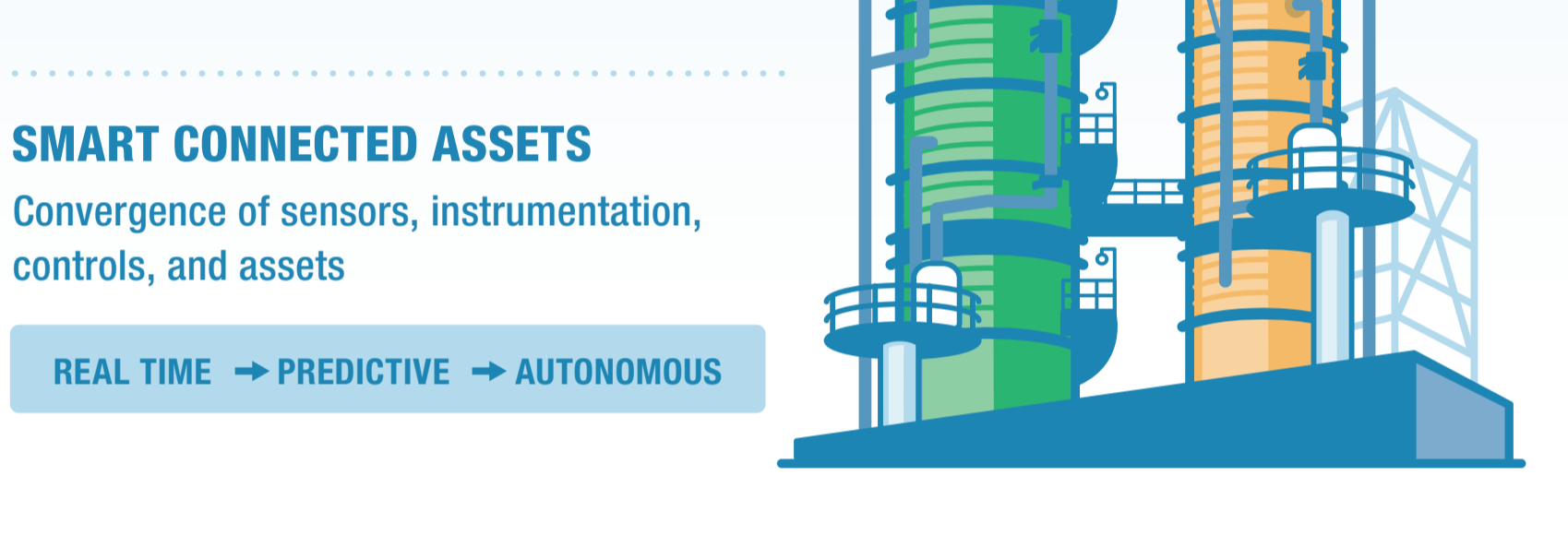
THERE ARE TWO LEVELS of prescriptive analytics organizations should consider with APM 4.0. The first is prescribing maintenance activities to postpone or prevent failure. The second is more sophisticated; it is the ability to prescribe operational changes to alter how the equipment performs to postpone or prevent failure. The first level means becoming maintenance smart; the second enables operational excellence and alignment to Industry 4.0.

BIG DATA ANALYTICS FRAMEWORK



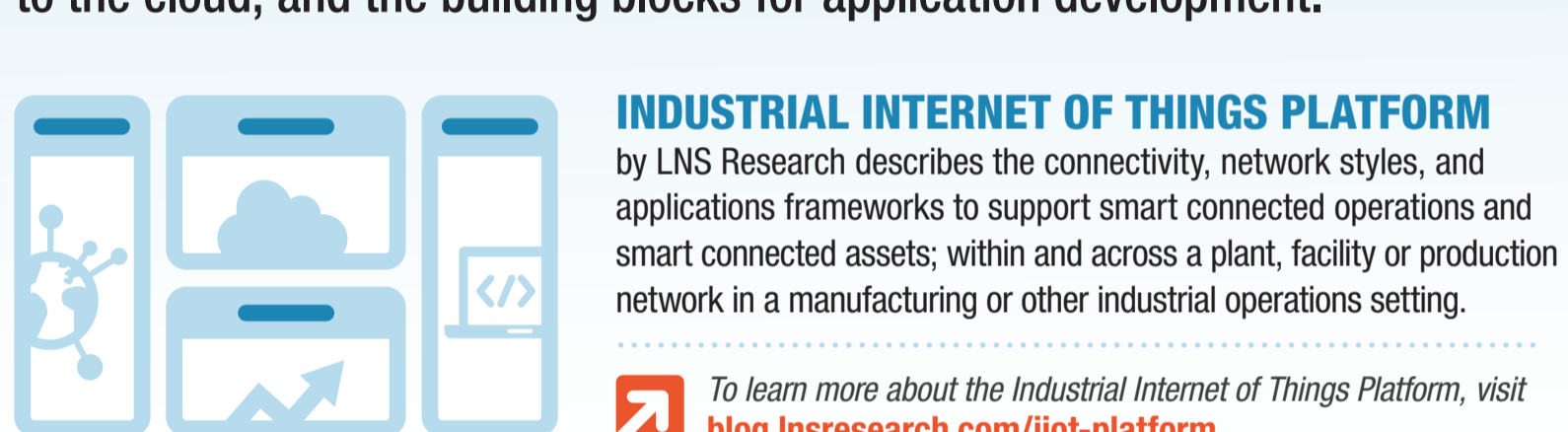
2 SMART CONNECTED ASSETS

INDUSTRY 4.0 is all about connecting cyber-physical systems, these are smart connected assets. The information, insight and potential for these assets to enable Digital Transformation initiatives is critical for success. These assets will lay the groundwork by providing a key data source to do more real-time and predictive analysis.



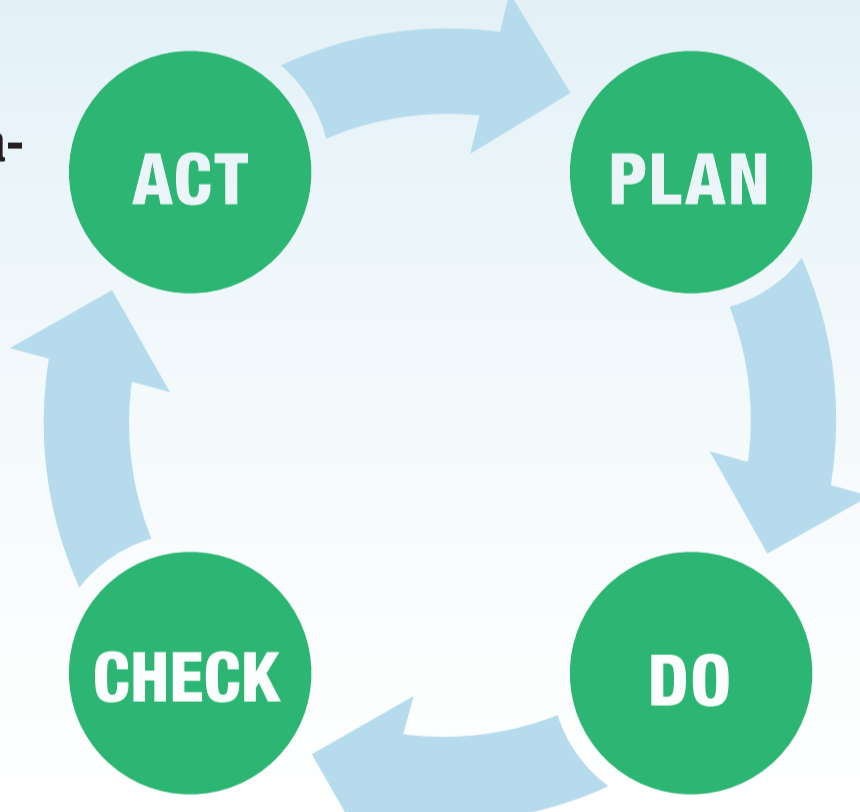
3 IIoT PLATFORM

THIS IS THE BACKBONE for APM 4.0. These platforms will be used to handle the many connections and communication protocols to assets, sending data to the cloud, and the building blocks for application development.



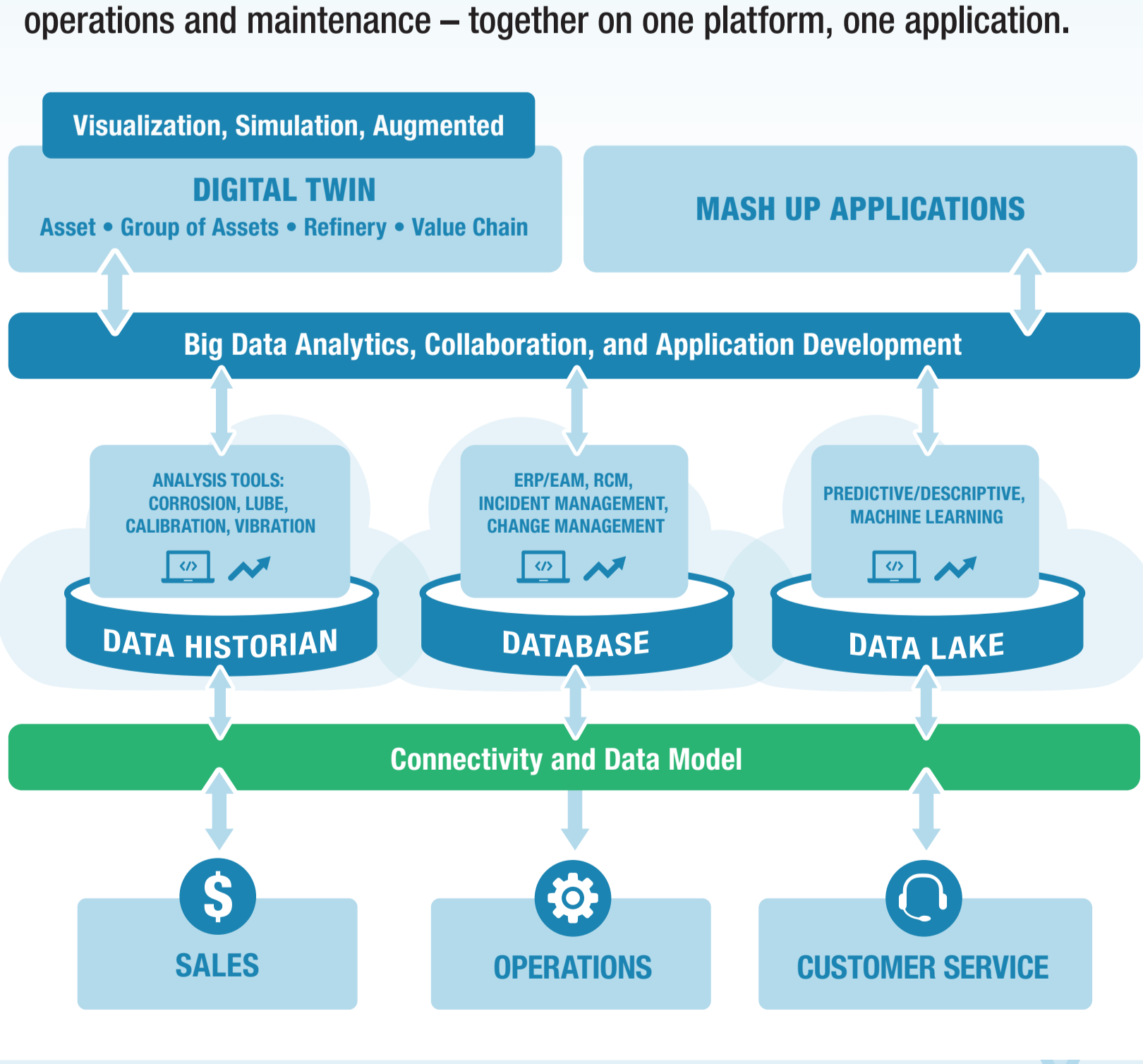
4 INDUSTRY BEST PRACTICES

AS TECHNOLOGY STRENGTHENS so should our understanding and application of industry best practices. In the age of APM 4.0 maintenance professionals must implement best practices, otherwise technology will fail to live up to its potential. One of the most prolific is ISO 55000, that prescribes steps to pursue and provides flexibility to evolve according to each organization's specific needs.



5 KILLER MASHUP APPS LIKE DIGITAL TWIN

MASHUPS WILL USE CONTENT (video, weather, text, schedules, etc.) from more than one source for a single view and interface to operate efficiently and effectively. One of the first will be the Digital Twin – starting with an asset view, users can connect the data and the services they provide, to anyone in the workforce – suppliers, manufacturers, sales and marketing, operations and maintenance – together on one platform, one application.



TO SUCCEED WITH INDUSTRY 4.0 OR SMART MANUFACTURING, organizations must lay the right foundation to capitalize on the opportunities that exist today.

BRING TOGETHER THE FIVE ESSENTIAL ELEMENTS OF APM 4.0, to redefine Asset Performance Management and support Industry 4.0 or Smart Manufacturing.



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