

DX & Smart Manufacturing Data and Analytics

WHY SHOULD I CARE ABOUT DATA?

The average financial impact of poor data on business is **9.7 million** per year (Gartner).

In the US alone, business lose **3.1 trillion USD** annually due to poor data quality (IBM).

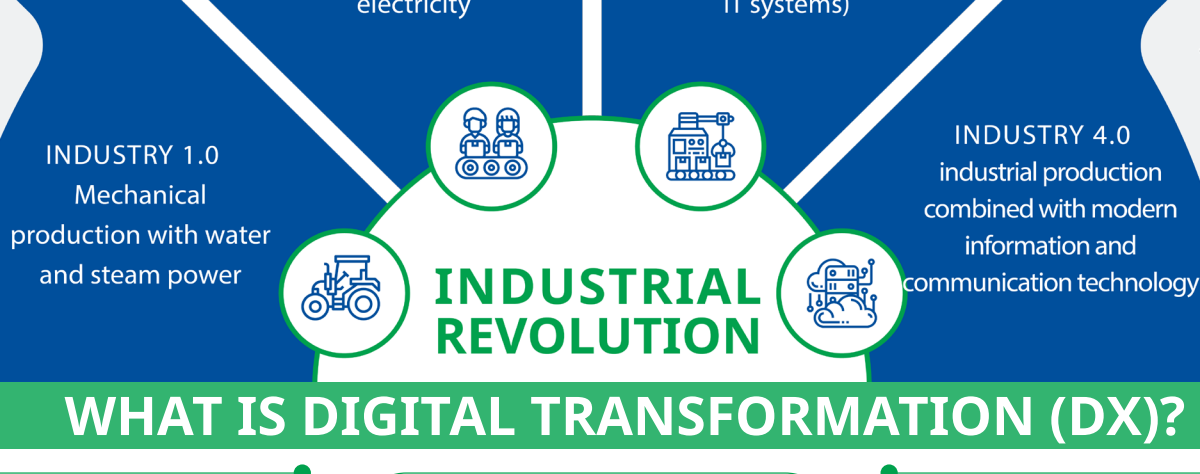
Smarter, data-driven factories and production lines can result in **2.6% annual cost savings** (McKinsey).

Organizations make fewer than **50% of their decisions** based on quantitative information as opposed to gut feeling, experience, or opinion (Forrester).

By 2022, **90% of corporate strategies** will explicitly mention information as a critical enterprise asset and analytics as an essential competency (Gartner).



HOW DID IT ALL START?



WHAT IS DIGITAL TRANSFORMATION (DX)?



DIGITIZATION

The process of making information available and accessible in a digital format.



DIGITALIZATION

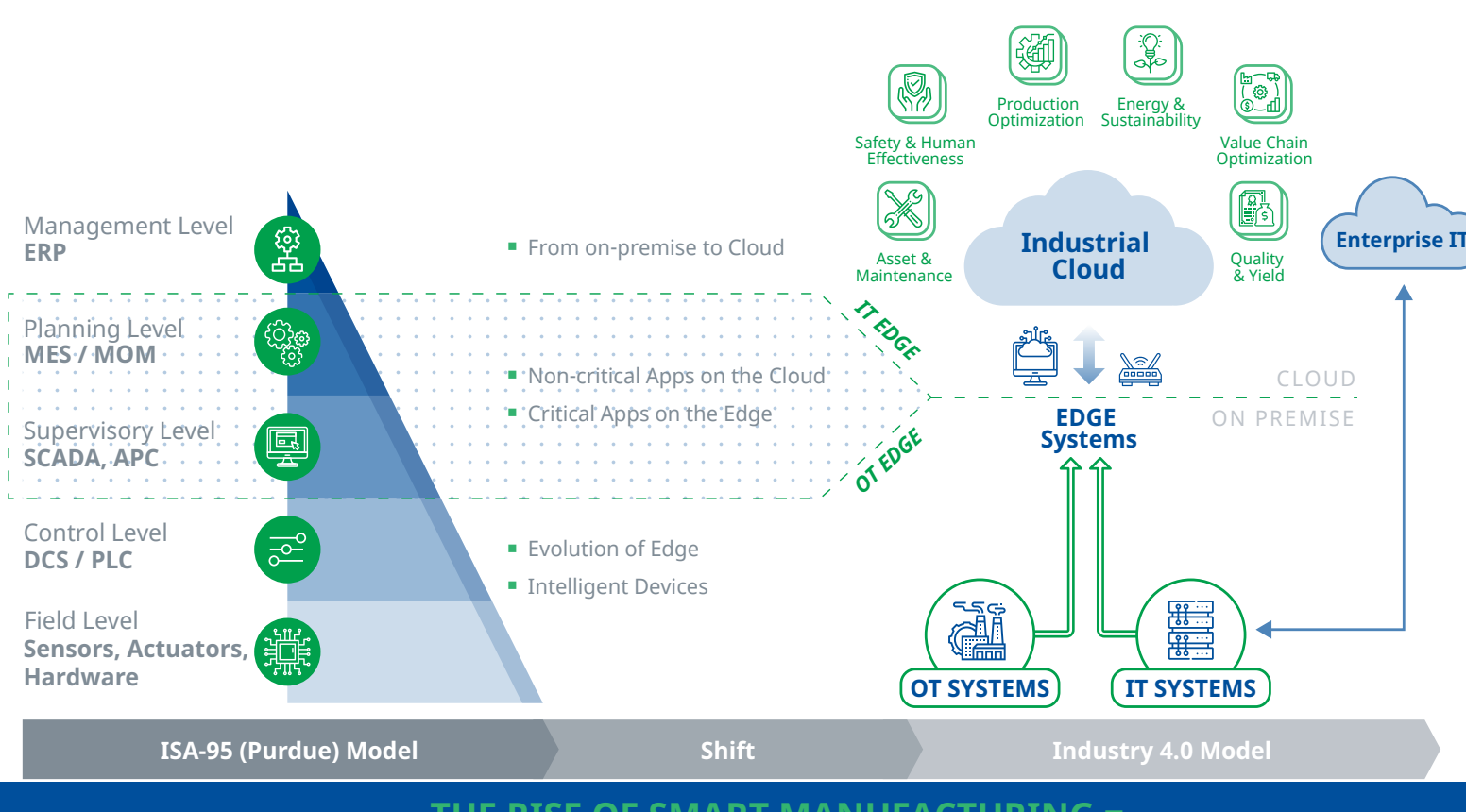
The act of making processes more automated through the use of digital



DIGITAL TRANSFORMATION

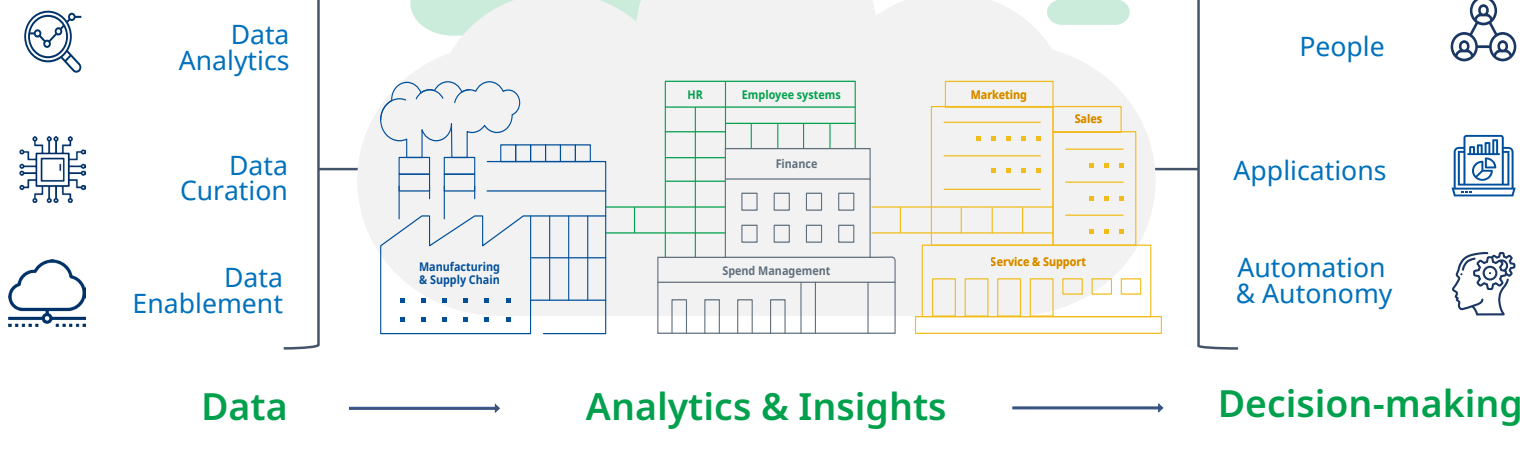
The process of devising new business applications that integrate all the digitized data and digitalized applications.

DX IS CHANGING INDUSTRIAL AUTOMATION



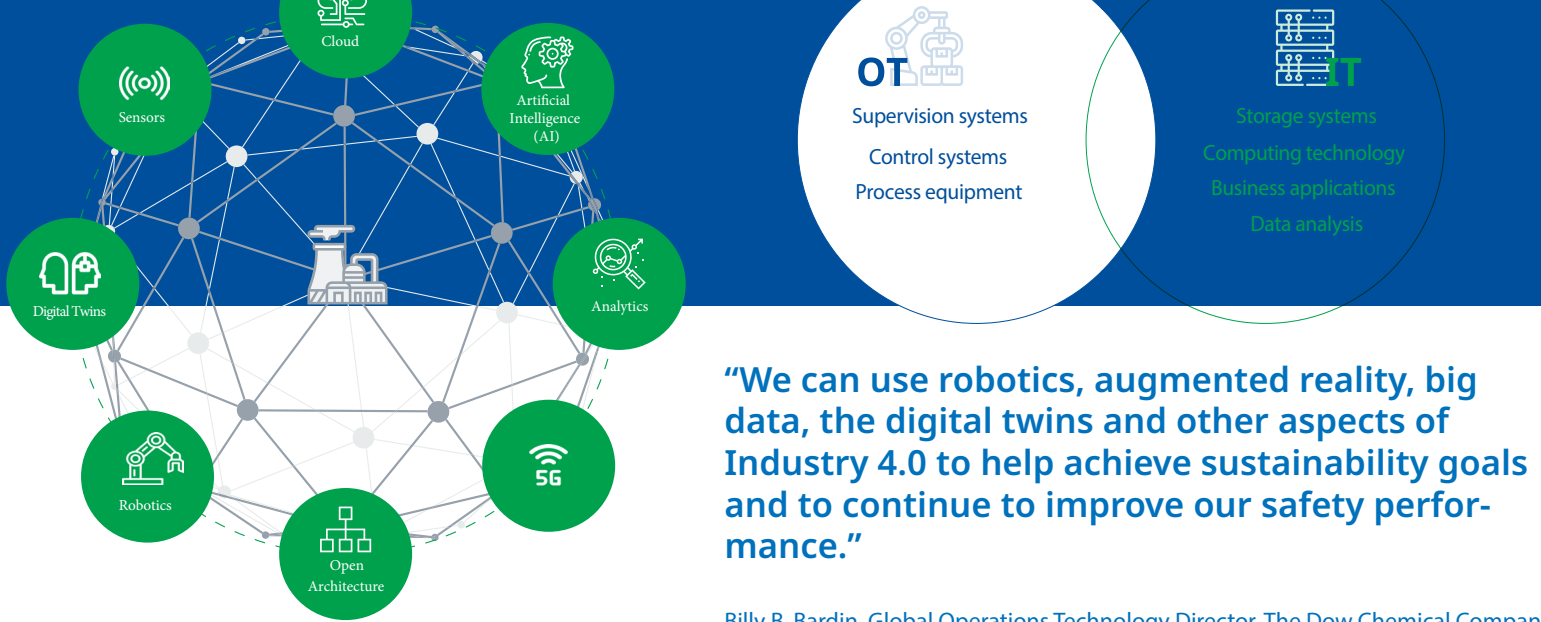
THE RISE OF SMART MANUFACTURING =

Deriving value from digital data from various sources and assets along with algorithms to make insightful and well-informed decisions.



NEW TOOLS AND MECHANISMS

Along with exponential increases in IT/OT convergence, there has been a corresponding increase in data volume. New tools and mechanisms have been created to analyze, visualize, and interpret this enormous volume of what some refer to as: big data.

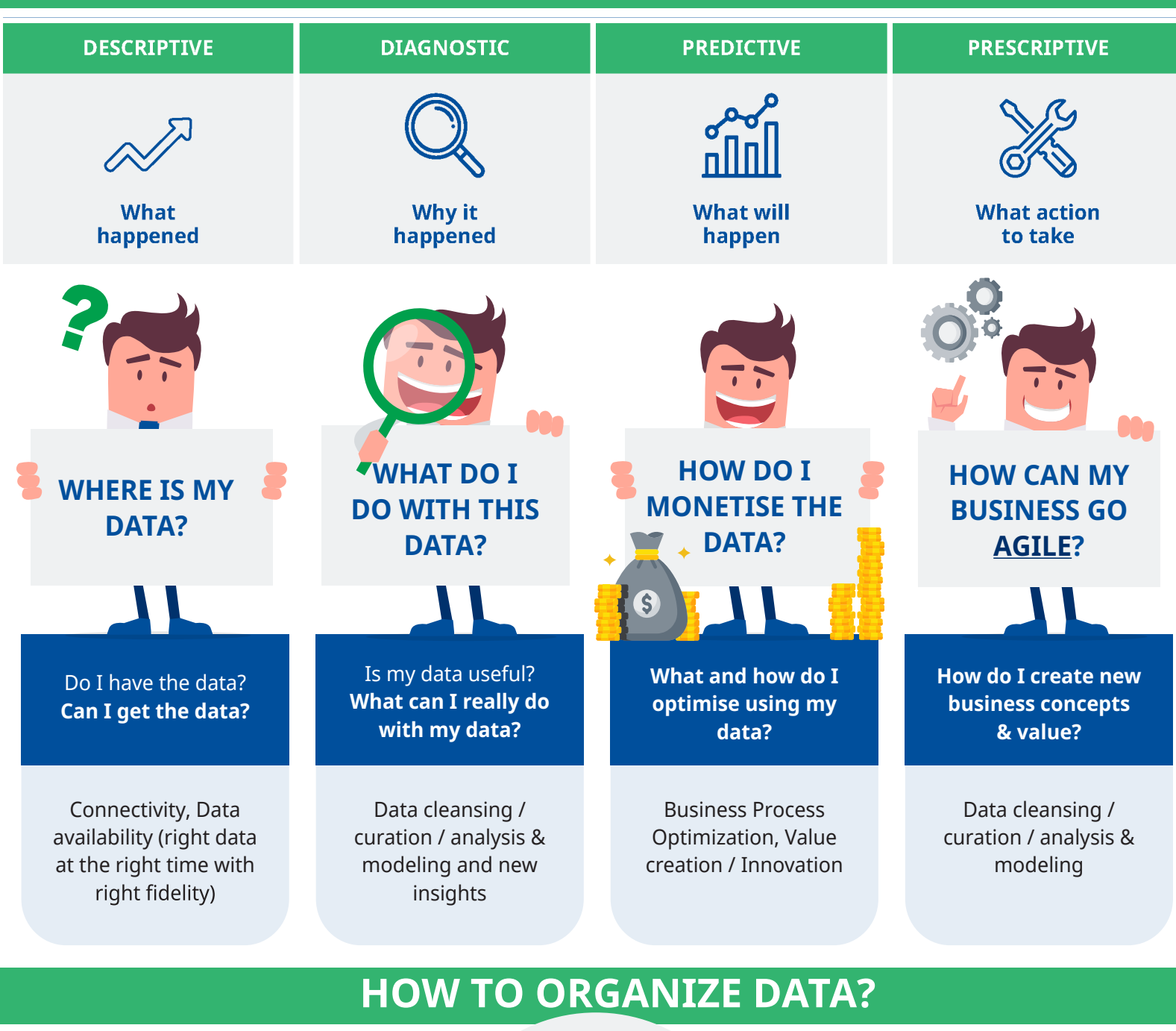


“We can use robotics, augmented reality, big data, the digital twins and other aspects of Industry 4.0 to help achieve sustainability goals and to continue to improve our safety performance.”

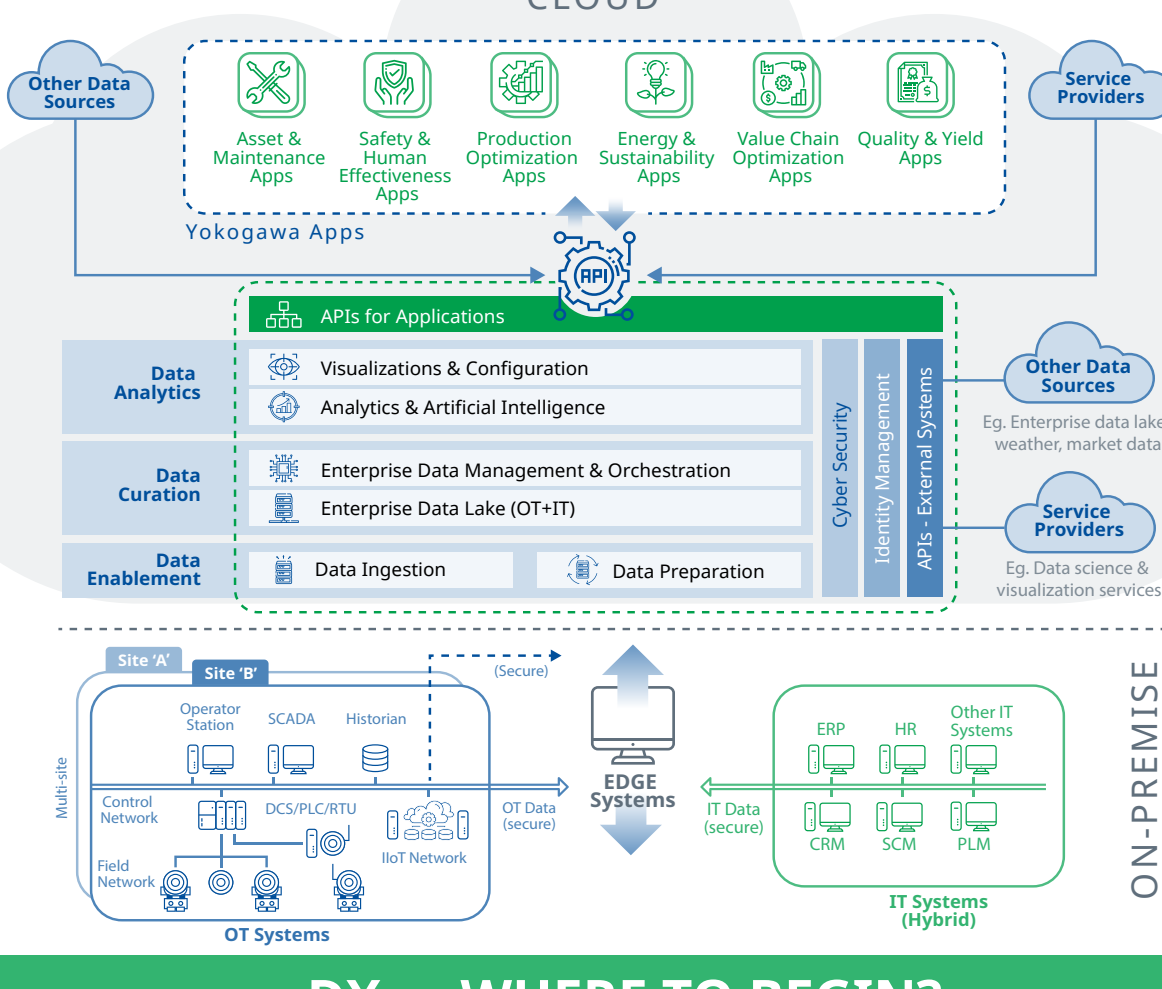
Billy B. Bardin, Global Operations Technology Director, The Dow Chemical Company.

“99% of collected data goes to waste because it’s siloed, lacks consistency, or simply remains unused. Manufacturers must systematically assure data quality to make their data available for automation and critical decision-making.”

WHAT TO DO WITH DATA?



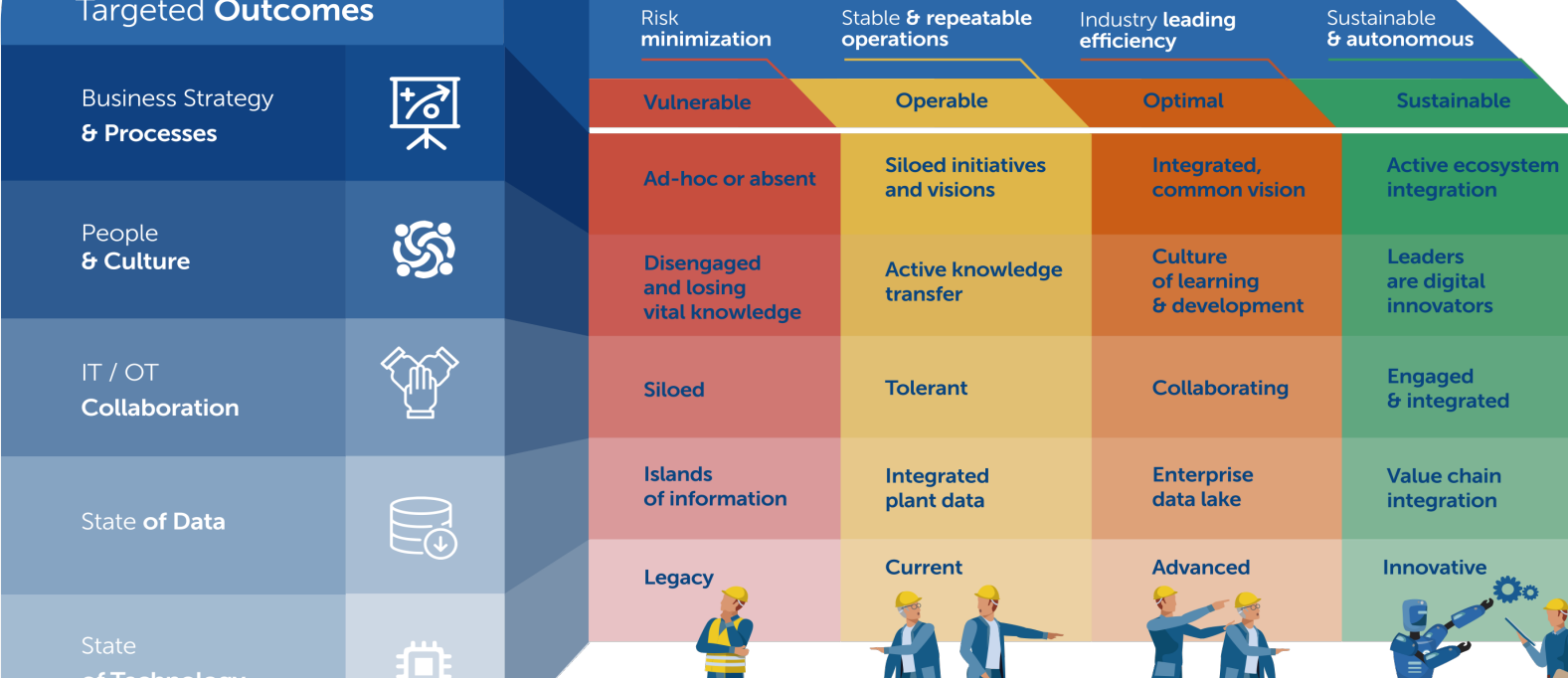
HOW TO ORGANIZE DATA?



DX --- WHERE TO BEGIN?



WHERE ARE YOU?



Digital Transformation in Process Industries eBook

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