



IoT and Digital Twin to Reduce Costs Post-Covid

Your Company Name

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Agenda for IoT and Digital Twin to Reduce Costs Post-Covid



01

To assess the potential maintenance issues by adopting IoT technology that will help in minimizing the service calls and increasing the production line efficiency

02

Enabling users to supervise, monitor and control the system performance remotely

03

To implement digital twin and IoT that helps in analyzing the future challenges which will result in reducing the maintenance expenses

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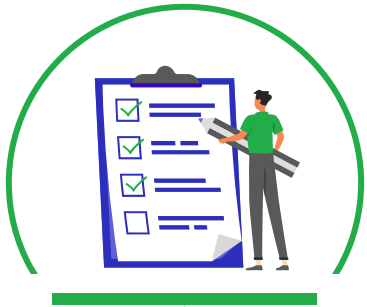
To identify the areas for innovation and improve business processes and performance

04

Using digital twin tools to improve the organizational productivity and reducing the overall costs

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Why do we Need IoT and Digital Twin Technology?

- Benefits Offered by Digital Twin to Businesses
- How IoT is Enhancing Digital Twin?

Implementation of Technology

- Consideration Points Prior Implementing Digital Twins
- Technology Roadmap- Internet of Things
- Adoption and Investment in Major Technologies

Supply Chain Optimization by Adopting IoT and Digital Technology

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- How Rail Transportation Operates After Implementing IoT and Digital Twin?

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- Different Use Cases in Medical Domain
- Healthcare After Adopting IoT and Digital Twin

Use of IoT and Digital Twin to Reduce Costs Post Covid- 19 Lockdown

Cost and Investments

- Industrial Spending on Digital Transformation Tools
- Costs Involved in New Technology Adoption

Impact of Implementing IoT and Digital Twin

- Affect of Digital Twin and IoT on Industry Revenues
- Cost Benefit by Implementing IoT and Digital Twin Post Covid-19 Lockdown

Dashboard and Metrics

- Key Performance Indicators in Oil and Gas Industry
- Dashboard Depicting Supply Chain Metrics
- Healthcare Dashboard Showing Analytical Data

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01

Current Situation Analysis

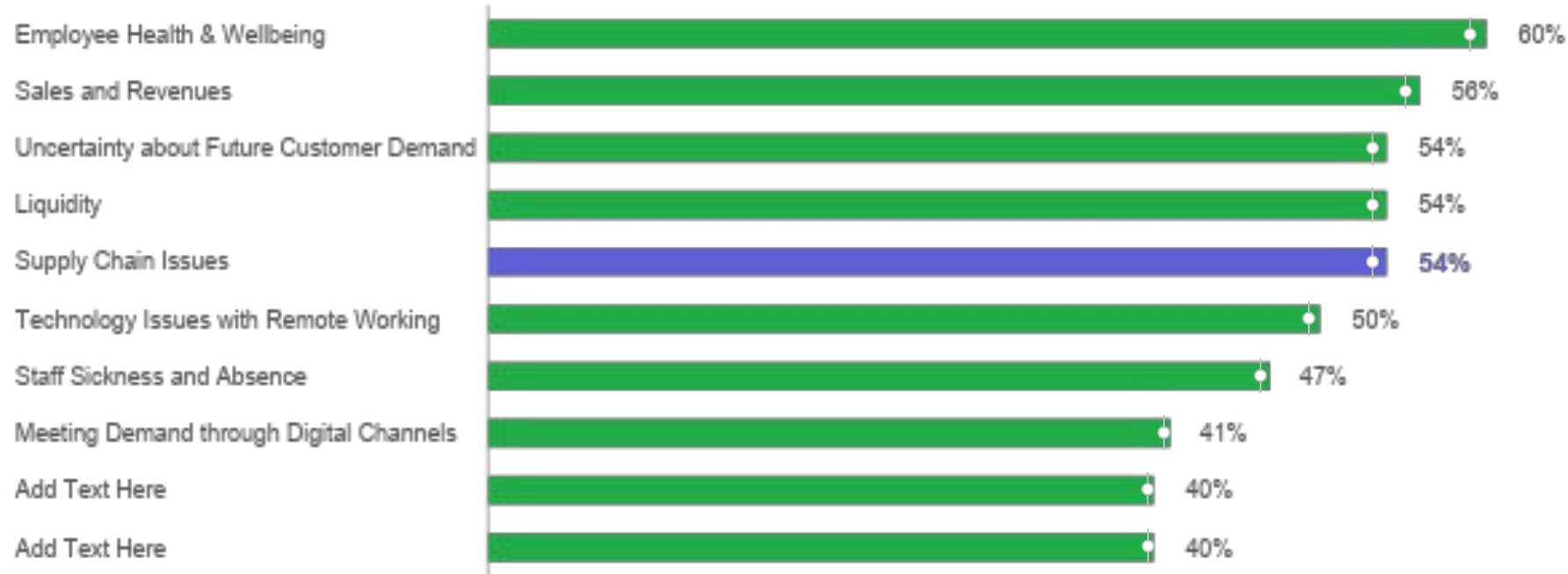
- ▶ Key Common Challenges Faced by Different Industries
- ▶ Issues Arises While Implementing IoT
- ▶ Barriers for Investing in IoT Technology
- ▶ Global Market Share of IoT and Digital Twin
- ▶ Impact of Covid-19 on IoT and Digital Twin



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Key Common Challenges Faced by Different Industries

This slide focuses on the key challenges faced by different industries which includes employee health, liquidity, supply chain issues, staff sickness and absence, etc.



Key Insights

- ▶ Biggest challenge that industries are facing is maintaining the employee health and wellbeing due to increases in covid-19 cases.
- ▶ 56% of industries are facing issues in supply chain management due to lockdown.
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Issues Arises while Implementing IoT

This slide shows the issues that arises while implementing internet of things which covers delivering value to customers, hardware compatibility and data connectivity issues.

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Deliver High Value to the Customer

- Understand the affect of digitalized solutions on the customer experience and satisfaction
- Identify key metrics to evaluate and improve services by implementing iot-based solutions



Hardware Compatibility Issues

- Involve sensors to legacy machines for collecting and transmitting information to the cloud
- Identify the compatibility issues associated with physical devices before implementing



Data Connectivity Issues

- Signalling is required to collect and route data between devices
- Must test the compatibility of device
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Inaccurate Data Capture Difficulties

- It happens due to inability of data analytical software to handle anomalies that leads to recording of incorrect data
- This will affect the quality of making decisions which needs to be corrected



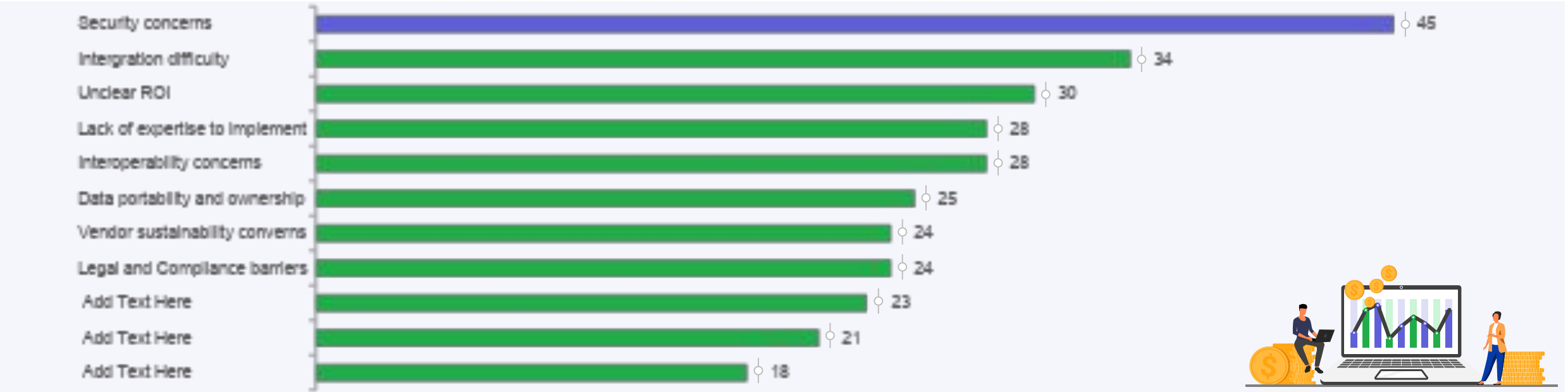
Data Security Issues

- Ensure the data should be safe by iot service providers
- For successful implementation of iot, it is necessary to plan policies regarding data security
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Barriers for Investing in IoT Technology

This slide shows the barriers arises in IoT technology such as security concerns, unclear ROI, lack of expertise to implement, data portability and ownership.



Key Insights



It shows that nowadays most of the companies finding security as a most concerned barrier in adopting IoT technology due to involvement of unauthorized systems

34% of companies have integration as a barrier

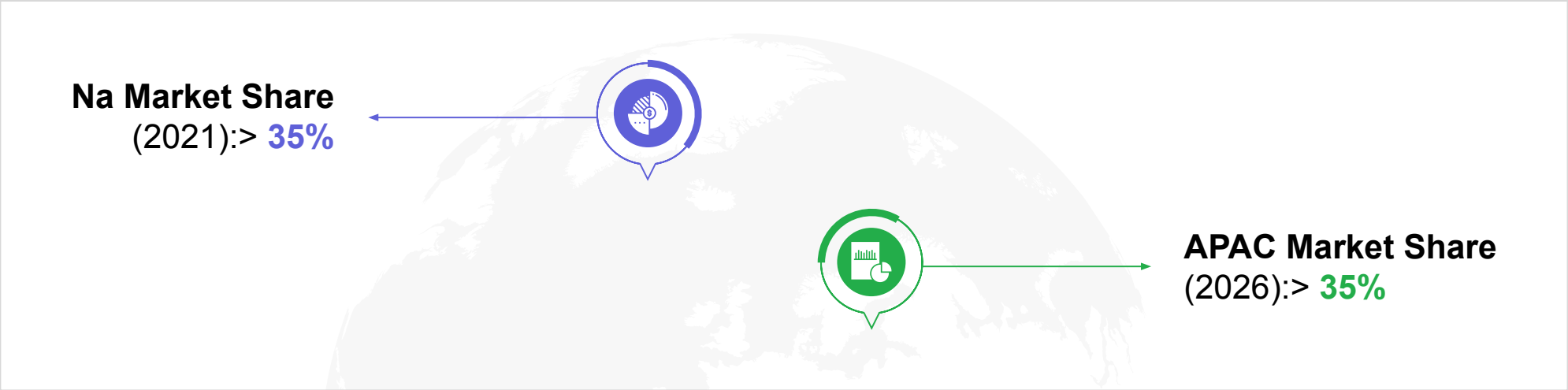
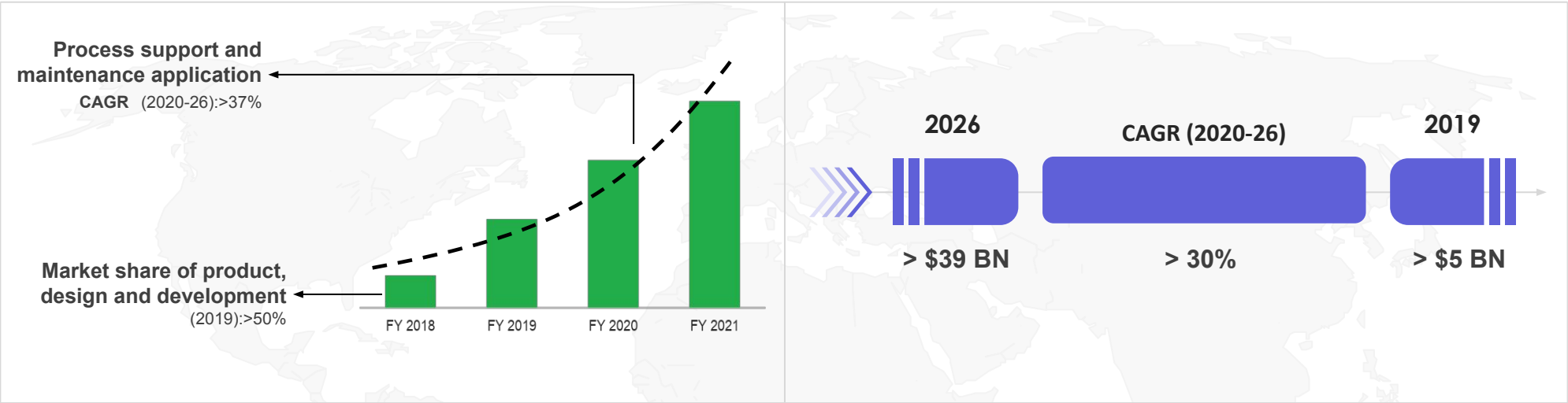
There is a lack of expert professionals to implement this technology

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Global Market Share of IoT and Digital Twin

This slide shows the global market share of IoT and digital twin which represents the market share of process support and maintenance application, product design and development, etc.

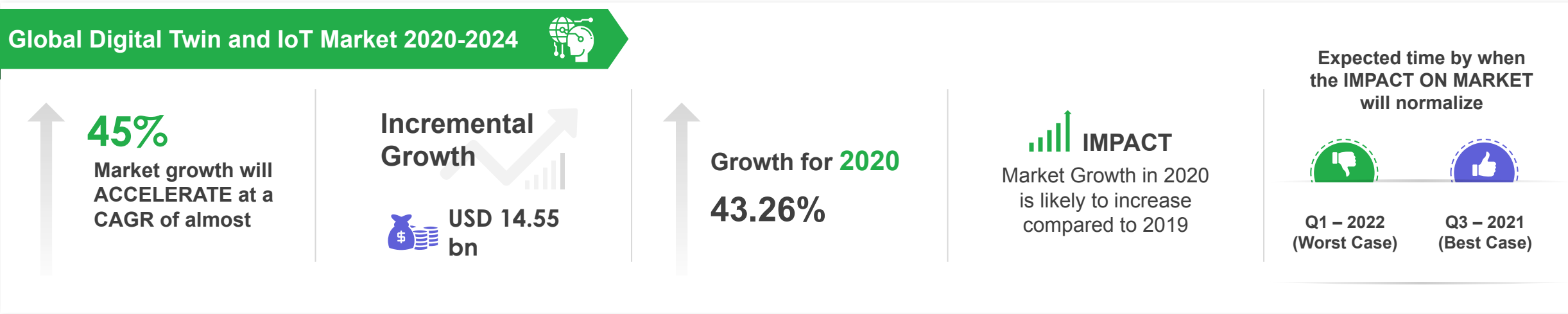
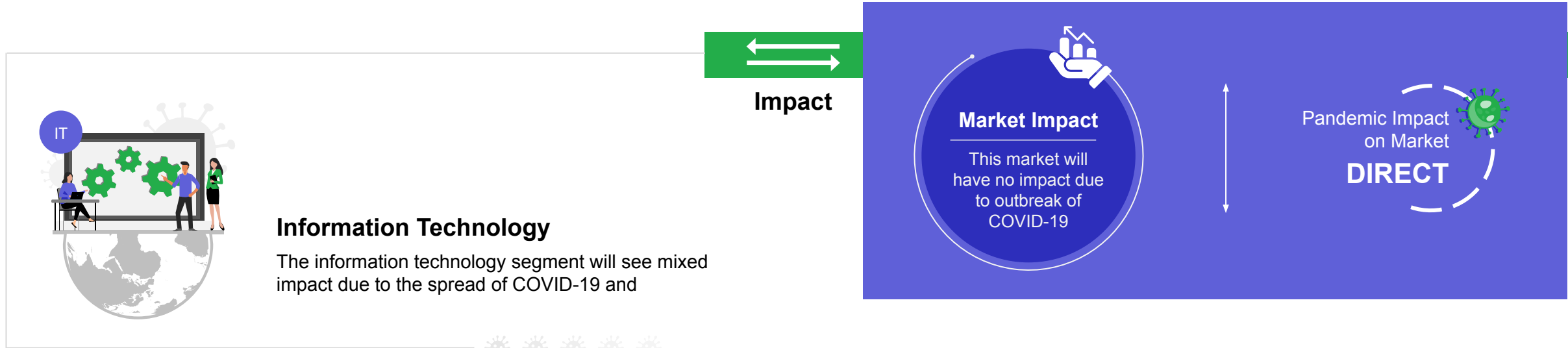




- Due to increasing demand to predict accurate outcomes, product design and development application in U.S. hold more than **50%** share in market in 2019
- There is an advent of new technologies such as digital twin, IoT, AI, deep learning, blockchain, etc. that results in reducing the time to market for various industries
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Impact of Covid-19 on IoT and Digital Twin

This slide shows the impact analysis of Covid-19 on IoT and digital twin which includes global digital twin and IoT market share is projected to reach good market share by 2024.



Integration of Technology for Future Contribution

This slide shows the integration of IoT and digital twin technology for future contribution which covers IoT sensors, artificial intelligence , machine learning, etc.



Internet of Things Sensors

- Integration of IoT ability into hardware will be a market disruptor
- It simplifies the setup and devices deployment that results in deploying the costs
- Leads to deployment of costs
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3D Laser Scanning Software

- Provides visualization of data for digital twins
- Helps in generating accurate points clouds by capturing free form shapes



AI and Machine Learning

- For successful digital twin adoption, it helps in developing accurate data analytics which in turn offers high degree of correct predictions
- Collects and integrates data from incompatible sources
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5G Connectivity

- Ability to handle multiple devices at one time
- Builds strong reliability and advanced mobility
- Results in transforming digital twin abilities such as low latency, long battery life, etc.



Cloud Computing

- Offers means to process and successfully run digital twins
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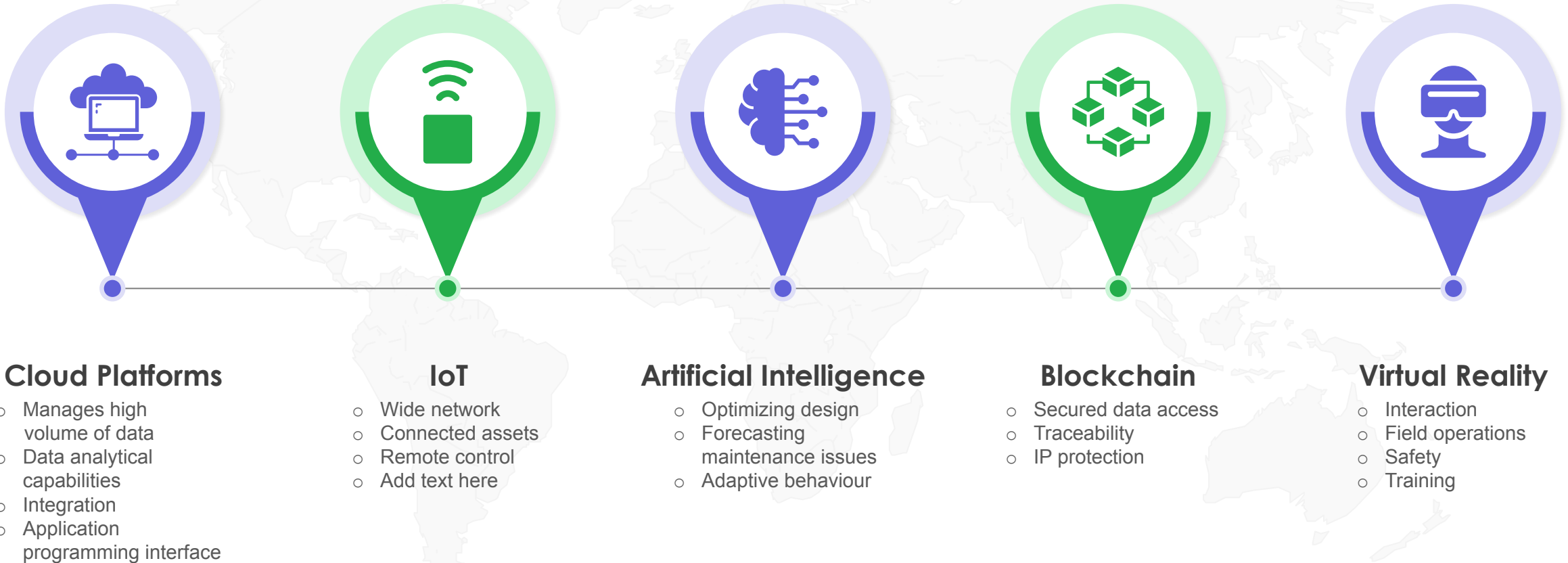
Future Scenario Across Industries

- ▶ Integration of Technology for Future Contribution
- ▶ Future Directions to Digitalize Technology



Future Directions to Digitalize Technology

This slide shows the future directions to digitalize technology which involves cloud platforms, internet of things, artificial intelligence, blockchain and virtual reality.



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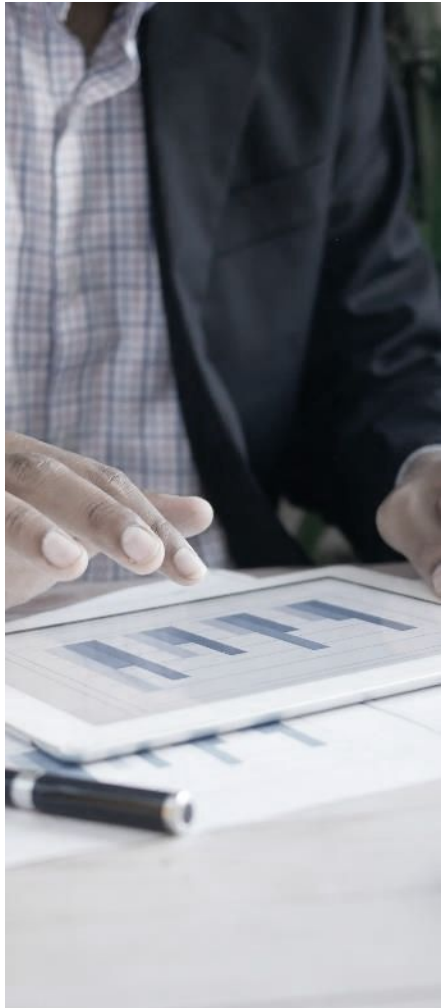
Why do we Need IoT and Digital Twin Technology?

- ▶ Benefits Offered by Digital Twin to Businesses
- ▶ How IoT is Enhancing Digital Twin?



Benefits Offered by Digital Twin to Businesses

This slide focuses on the benefits offered by digital twin to businesses that includes reduction in costs and time to market the product and service, etc.



01



Reduces Costs by 45%

- Helps to perform tests virtually
- Minimizes the defects during actual manufacturing
- Reduces the future risks and uncertainties by **23%**

02



Reduces Time to Market Product

- Reduces the number of changes in products and services
- Results in faster and easier improvements in the product specification
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03



Predictive Maintenance

- Develops report that provides insights about the possible issues
- For example – if any component is worn out and requires to be replaced

04



Better Team Collaboration

- It leads to improving productivity and operational efficiency by **56%**
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Real-time Remote Monitoring

- Digital twin enables users to evaluate the performance of physical system
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How IoT is Enhancing Digital Twin?

This slide shows the how internet of things enhances digital twin that covers offers visibility, unlocks operational intelligence and optimizes maintenance.

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Offers Visibility about Product Lifecycle



- Informs the establishment of future iterations in product
- Manages the production and service processes that minimizes the rework and lead times
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Unlocks Operational Intelligence

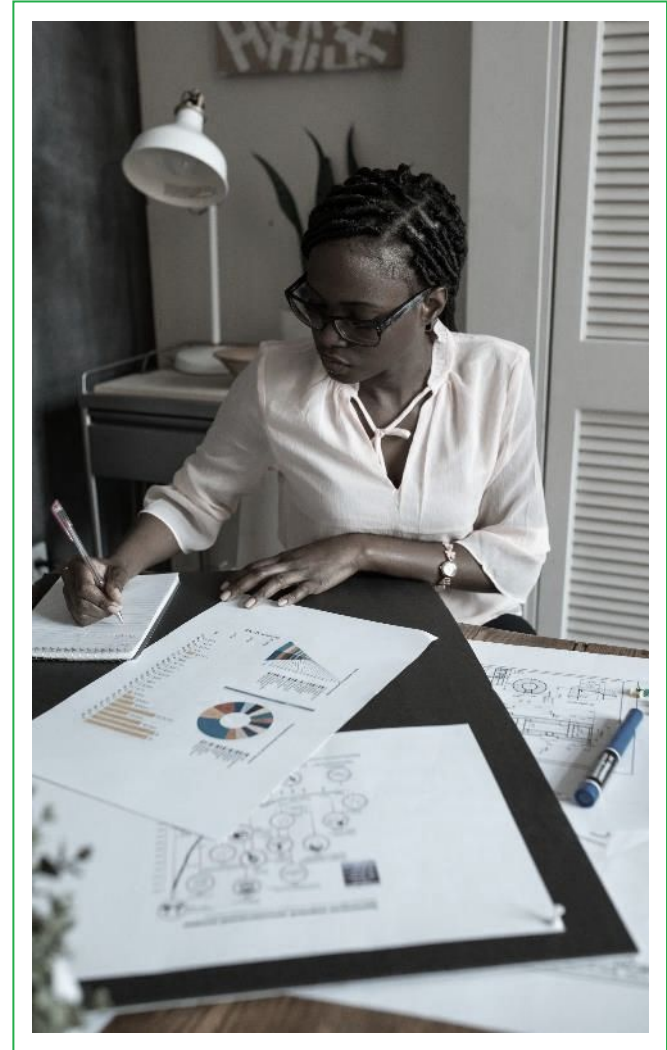


- Provides predictive insights that assists in improving the throughout
- Real-time **360 degree** view to manufacturers by connecting operational intelligence from diverse assets
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Optimizes Maintenance



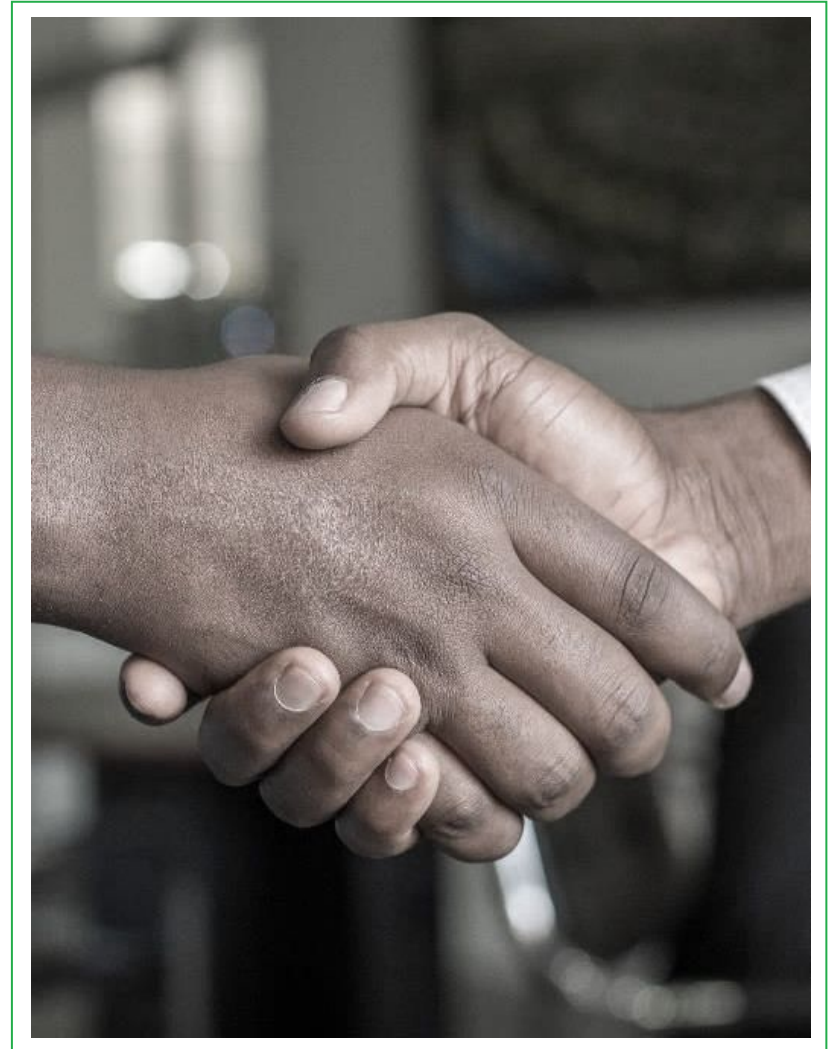
- Reduces the asset downtime by **22%**
- Leads to differentiate offerings
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