iLink Digital
Thinking Beyond

Data Implementation Best Practices

2020

Top 10 Best Practices for Big Data Implementation

Though big data offers a lot of opportunities for the IT industry it also offers implementation challenges. As per a study by McKinsey Global Institute, if big data is effectively collected, analyzed, and visualized by the company to gain insights and achieve business goals, they can outperform their competitors.

But with the volume, variety, and velocity of big data generated by the connected devices, it becomes important for businesses to implement them the right way. Here are some of the best practices for big data implementation.

Define Your Big Data Business Goals

To leverage big data, it's important to define the corporate business objectives of the company. Before exploring how big data solutions might enhance your future performance it's important to understand what are the Key Performance Indicators (KPIs).

It's beneficial to document and study each use case to understand and learn how big data can realize the business objectives. The objectives should identify business targets, desired outcomes, and results. Understand which projects in the industry need to use big data to make maximum profit. While drafting the Big Data strategy make sure it aligns with your business goals and address key business problems.

Approached Through A Business Perspective Rather Than An IT Or Engineering

Why so?

Well, the aim here is to achieve business objectives and not technology goals, the reason why Big Data implementation should be approached through a business perspective. Though the IT team is equally important, the solutions they build should best fit the business needs.

Also instead of the IT department working alone on implementing Big Data, it should involve data owner and an outsider - be it vendor providing Big Data technology or a consultancy to evaluate the current situation. It helps to gain meaningful insights and ensure a successful outcome.

Use An Agile And Iterative Approach That Delivers Quick Solutions.

Over the course of implementation, the organization can realize the need to evolve the business objectives. The organization might stop working on one form of data and realize the need to work on another form. Hence along with flexibility in the approach, the implementation should be agile and iterative that delivers solutions based on the current needs of the project.

Consider breaking down the big data analytics at a certain point to review and change the course whenever needed. IT and stakeholders should communicate for effective collaboration.

Evaluate Big Data Requirements

As most of the data acquired are unstructured, it is important to evaluate the big data and its source to determine the best store so that businesses can use it to their advantage. The evaluation process helps to decide what data needs to be retained, managed, made accessible, and what data can be discarded.

For real-time processing, you might need Apache Spark or you can use Hadoop which is a batch process. For companies with multiple locations and data centers, there are geographic databases that can split data over multiple locations.

Standardize Big Data Efforts With The IT Governance Program

With the growing data and it's potential, there can be a shortage of professionals who can manage and mine the information. To overcome the potential skill issues it is best to standardize big data efforts with the IT governance program.

Check the health of the data periodically as data privacy is a major issue, especially with the growing sensitivity of the data. So the data collected should be accessible to the necessary people only. Determine what data should be accessible in the public cloud and what should be available on-premises and obviously who controls which data.

Establish A Center Of Excellence

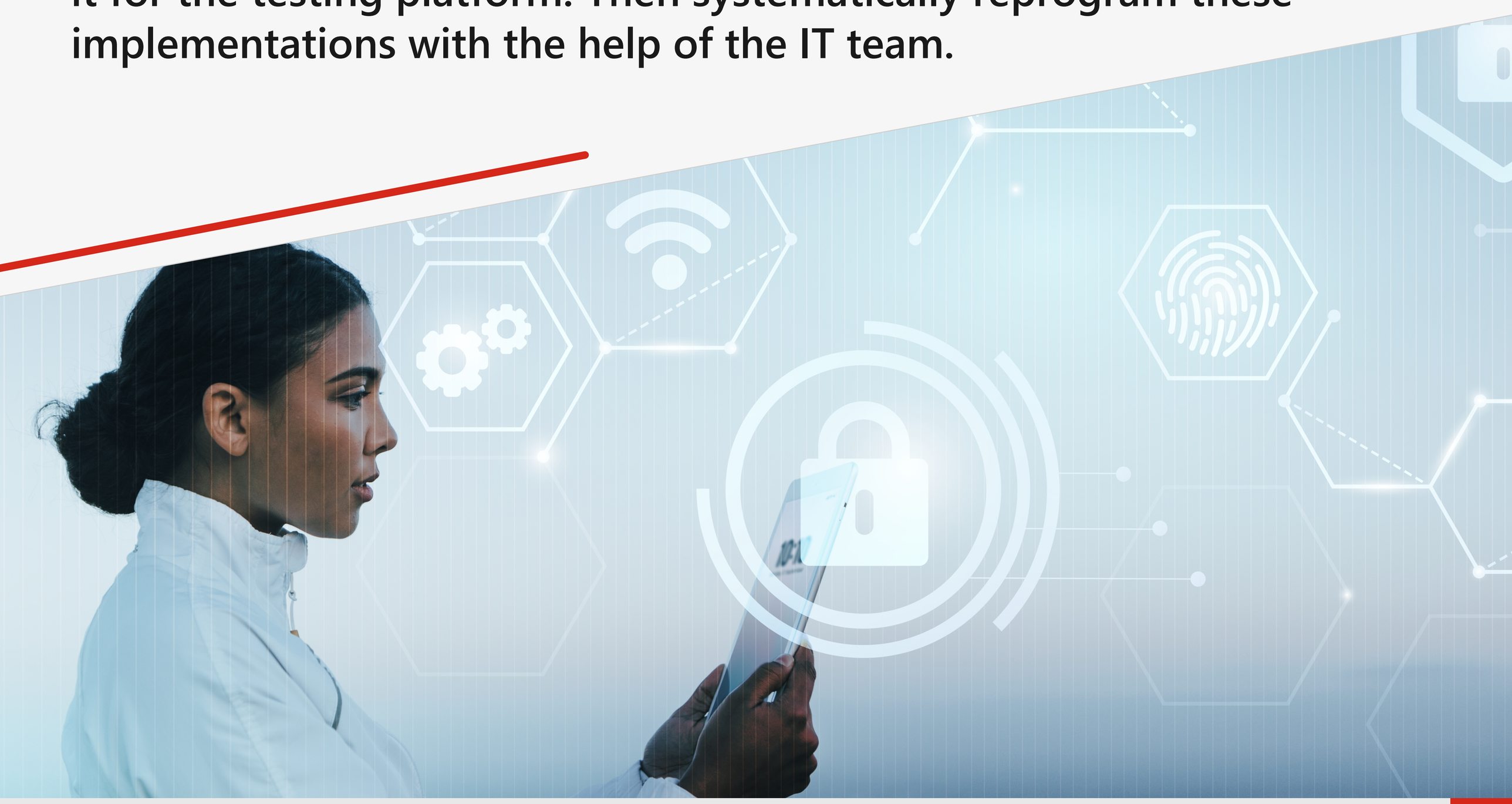
Today it is extremely important for the companies to establish themselves as incubators of innovation and installing a center of excellence (CoE) within the company helps them to achieve it. The CoE works across business units with experts having leading-edge knowledge and competency. These experts share the knowledge and best practices in an organization.

Having a CoE helps establish visibility and focus, eliminate risk in a project, flexibility to innovate, and fast fail, and monitor and control cost. Ensure oversight of the project to minimize mistakes to drive the big data and overall information architecture maturity in more structured and systematic ways.

Allow Data Scientists To Construct Their Data Experiments

As technology is always breaking new ground, it’s important to allow data scientists to conduct their data experiments and prototypes using their preferred languages and programming environments. For this, you can use data subset and many tools offered by cloud providers like Amazon and Microsoft.

You can set up a development and test environment in hours and use it for the testing platform. Then systematically reprogram these implementations with the help of the IT team.



Connect The Big Data With The Enterprise Data

To unleash the full potential of big data, it needs to be connected with the company's data. Instead of throwing away the prior investment of infrastructure, platform, business intelligence, and data warehouses, the company should leverage it to implement a big data strategy. It enables workers to correlate different types and sources of data, to make associations, and to make meaningful discoveries.

The Potential Of Big Data Forecasting

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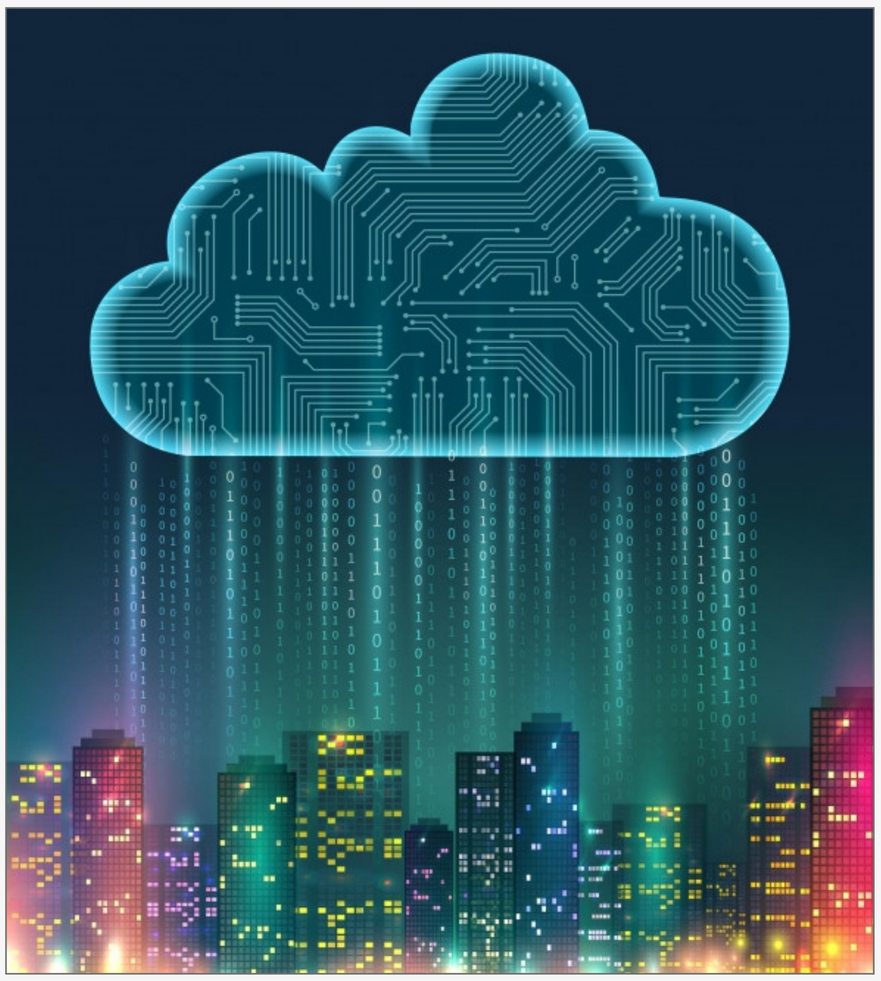

The Bottom Line

Though it seems working with loads of complicated data and time-consuming procedures, it's worth the effort. It leaves behind a great deal of insight which helps companies have a competitive edge over others. Well, don't feel overwhelmed by all the data out there. With the right tools, iLink Systems help you to understand the data journey better and eventually grow your business.