CASE STUDY

Data Analytics Tool Tableau implemented to maintain demand and supply in irrigation to ensure sustainable water usage

Quick Summary

Through the utilization of data analysis tools, the Irrigation Department of the State Government successfully tracked the demand versus supply of water and identified areas with supply deficits. This approach has enhanced the department's ability to monitor and manage water resources effectively, ensuring sustainable water usage and improved water distribution. The insights gained from this analysis will assist in making informed decisions and implementing targeted interventions to address supply deficits and maintain a balance between demand and supply in irrigation.

About the Customer

The Irrigation Department of the State Government plays a crucial role in managing water supply, conservation, and regulation across the state. Its primary objective is to ensure sustainable water usage and maintain a balance between demand and supply in irrigation. The State Government's requirement to analyze the data from the Irrigation Department and gain insights into the demand and supply of water. This was specifically aiming to track the conversion rate between approved and supplied water discharge, record the demand versus the approved and actual supply, and identify stations, circles, and divisions with high demand but low supply.

Problem Statement:

One of the main challenges faced by the Irrigation Department of the State Government was effectively monitoring and managing the demand and supply of water across different areas. Data quality issues and the lack of a centralized system for tracking and analyzing water-related data posed additional challenges.

Solution:

To address these challenges, Tableau was utilized as the data analysis tool. The data was extracted from the organization's database and visualized through various charts and KPIs. The analysis focused on the conversion rate between approved and supplied water discharge, the comparison of approved and actual supply, and the identification of areas with supply deficits.

The analysis revealed that the conversion rate between approved and supplied water discharge was more than 100%, indicating an excess supply. However, not all of the demanded discharge was approved, leading to variations in the demand versus supply ratio across stations. By identifying stations, circles, and divisions with supply deficits, the Irrigation Department gained insights into areas requiring further attention and resource allocation.

Business Benefits:

The implementation of data analysis through Tableau provided several benefits to the Irrigation Department.

The identification of areas with high demand but low supply helped in prioritizing interventions and ensuring more equitable water distribution.

Additionally, the insights obtained from the analysis facilitated evidence-based decision-making.

It allowed for better monitoring and management of water supply, enabling more efficient resource allocation.

It also improved the overall effectiveness of water resource management.
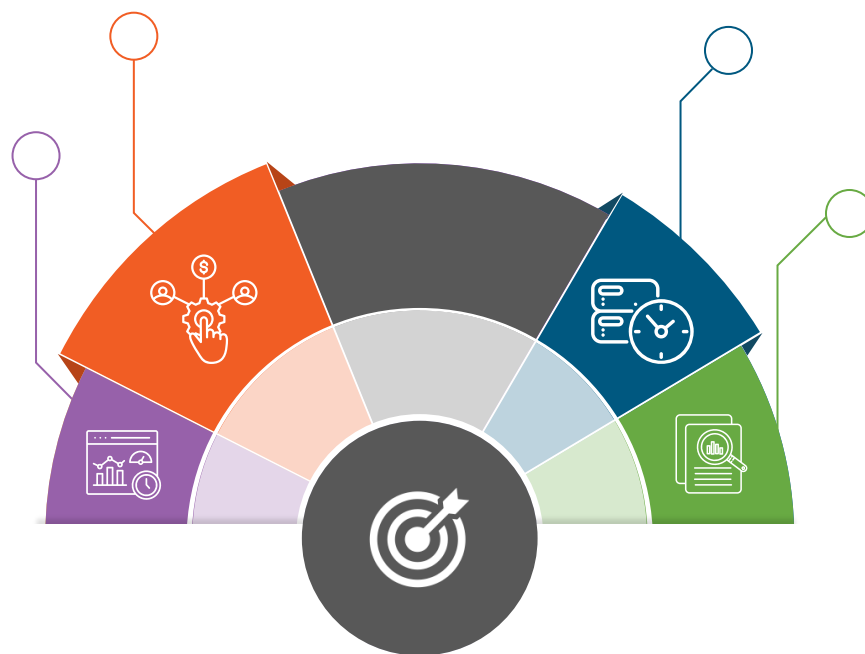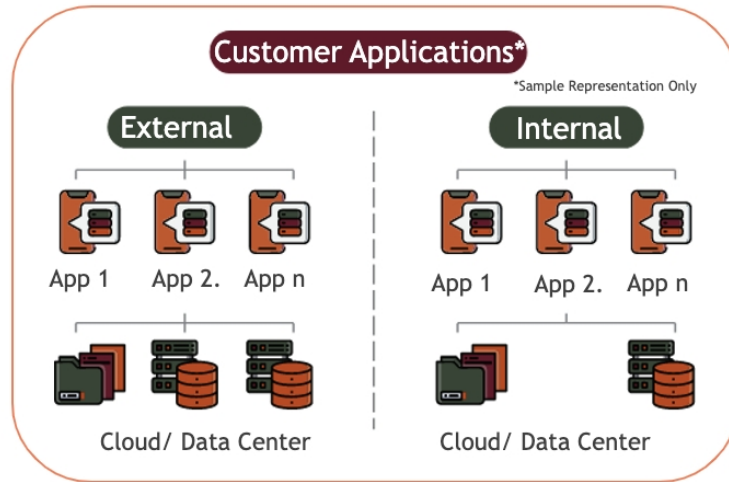
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Microsoft   USEReady
WE EMPOWER PEOPLE TO SUCCEED WITH DATA

Customer Applications*
*Sample Representation Only

External

App 1   App 2.   App n

Cloud/ Data Center

Internal

App 1   App 2.   App n

Cloud/ Data Center

RPA

We automate all high volume and mundane tasks to reduce manual errors and to increase efficiency with the help of products like AA (Automation Anywhere), Yellow.ai

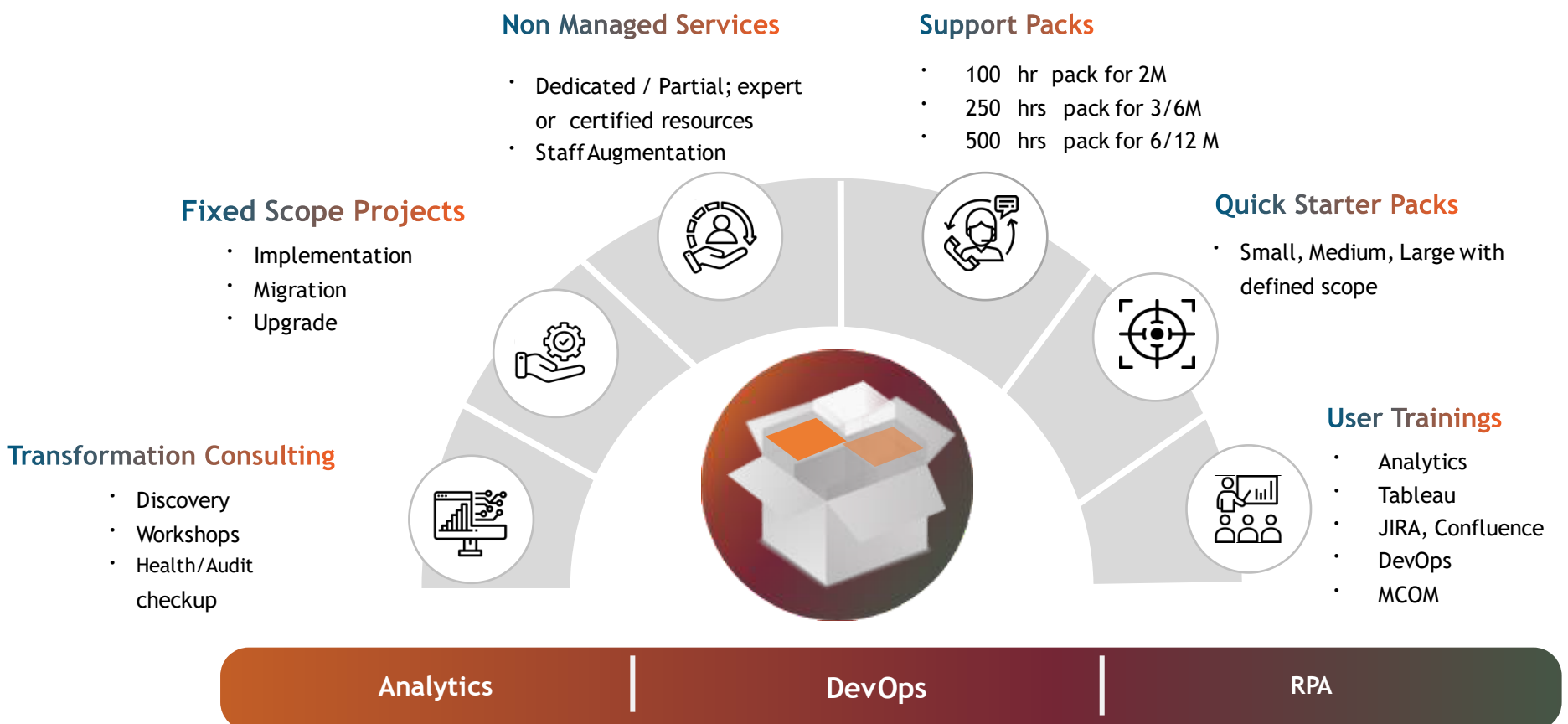AUTOMATION ANYWHERE   yellow.ai

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- Dedicated / Partial; expert or certified resources
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Support Packs
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- 250 hrs pack for 3/6M
- 500 hrs pack for 6/12 M

Fixed Scope Projects
- Implementation
- Migration
- Upgrade

Quick Starter Packs
- Small, Medium, Large with defined scope

Transformation Consulting
- Discovery
- Workshops
- Health/Audit checkup

User Trainings
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- Tableau
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- DevOps
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