INQUIZITY

SNOP and Business Process Automation Solutions

Supply Chain Planning – Process Automation – Consulting

Introduction

dataSAVI
Low Code
Application &
Analytics Platform

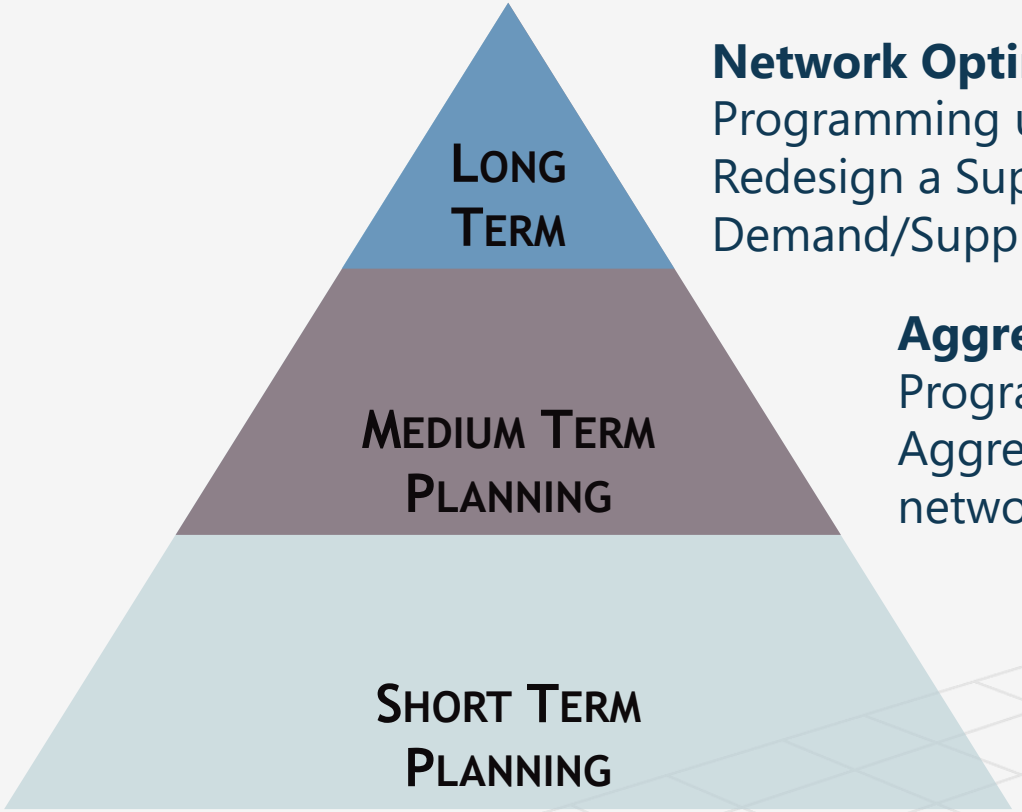
Agenda

- **Introduction**
- Product / Service Offering
- dataSAVI
- Engagement Models

About Inquizity

- Inquizity is focused on Selling and Implementation solution of **End to End Supply Chain Planning and Automation Solutions**
- Inquizity has developed its own **Low Code Cloud based Application Platform** that allows us to offer a whole host of solutions in both the Planning and Automation space
- Inquizity is now a **30+ strong team based in Mumbai** comprising **OR Analysts, Math Modellers, Software Architects** along with a strong Support Team. In addition, we have developed our ecosystem **Math Modellers, Software Architects** from top institutes IITs and organisations like Optimiser.com, Microsoft etc.
- Inquizity now boasts more than a **110+ installations of the solutions** that it sells and implements **across industries**
- Inquizity offers unique **deep involvement and evolving Engagement Models** which have seen significant success in ensuring **sustainable implementations** with path for **continuous improvements**

Inquizity has Solutions that spans across from Strategic Planning to Tactical to Operational



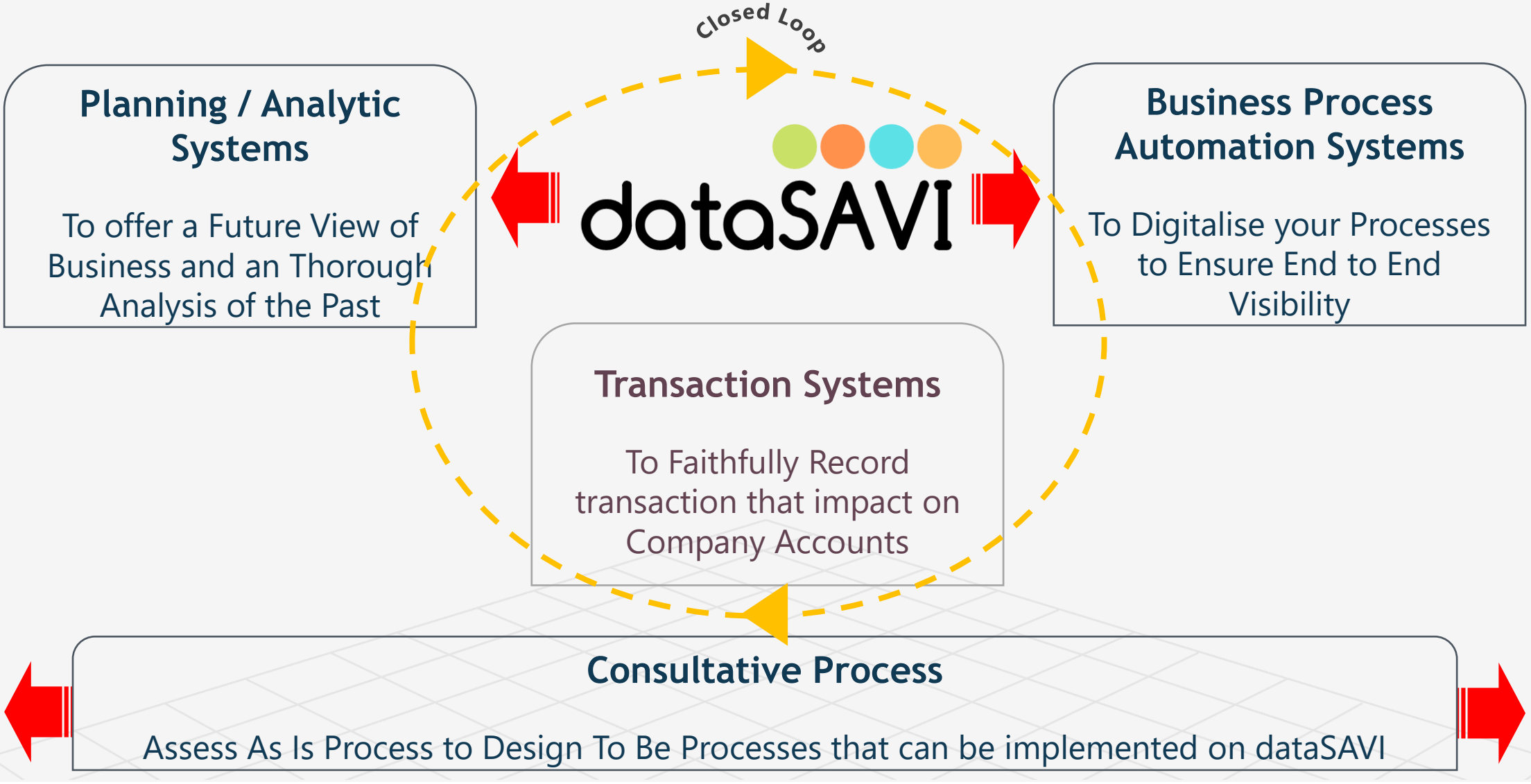
Network Optimization : Decision Support using Mixed Integer Programming used to Design a New Supply Chain Network, or Redesign a Supply Chain Network taking into account Demand/Supply/Logistic/Taxation constraints in the Long Term

Aggregate Planning: Decision Support using Linear Programming for Planning the Procurement/Distribution on an Aggregate basis in the Medium term so as to best utilize a given network taking into account Demand/Supply/Logistic constraints

Short Term Scheduling: Decision Support using Linear Programming or Heuristics for Planning/Scheduling Production or Dispatches so as to best utilize a given infrastructure (Plant/Network) on a day to day basis

We enjoy the support of 100+ prestigious clients across industries

dataSAVI is a Low Code Singular Supply Chain Digitalisation Platform that integrates Planning and Process Automation with Transaction Systems to form a Closed Loop



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dataSAVI is a Low Code Singular Supply Chain Digitalisation Platform that integrates Planning and Process Automation with Transaction Systems to form a Closed Loop

Planning / Analytic Systems

Our Planning Products provide End to End Supply Solutions. Products include

Demand Planning | Supply Network Planning | Production Planning | Replenishment Planning | Network Design | End to End SNOP etc.

100+ Customers including: Hindalco, Aurobindo, Intas, Aditya Yarns, Titan, Strides, BKT, ATG, MRF, Daikan, Godrej, Britannia, JK Lakshmi, Jyothy Laboratories, Hafale etc.

Business Process Automation Systems

dataSAVI is our Low Code Application Platform for Custom Automation Solutions adjunct to Planning: Products include

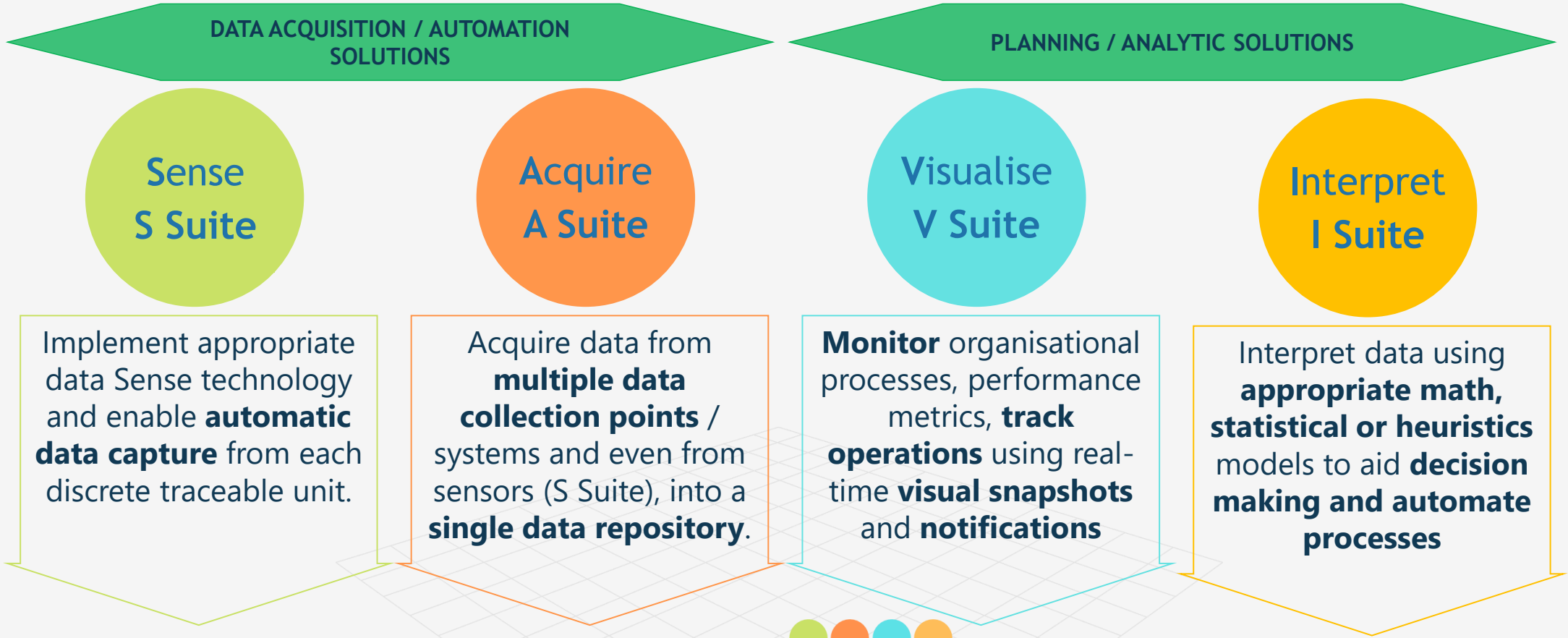
Dashboard | Control Tower | Customer Portals | Supplier Portal | Demand Aggregation Portal | Field Force Automation | IIOT |Warranty Management | Production Track and Trace | Warehouse Track and Trace | End to End Business Process Automation

20+ Customers including: KSB, Finolex, BKT, Hindalco, Hafale, ATG, Krishna Consultants, Envirocare, Eqube, Borosil, Godrej / MCF etc.

Process and Automation Consulting

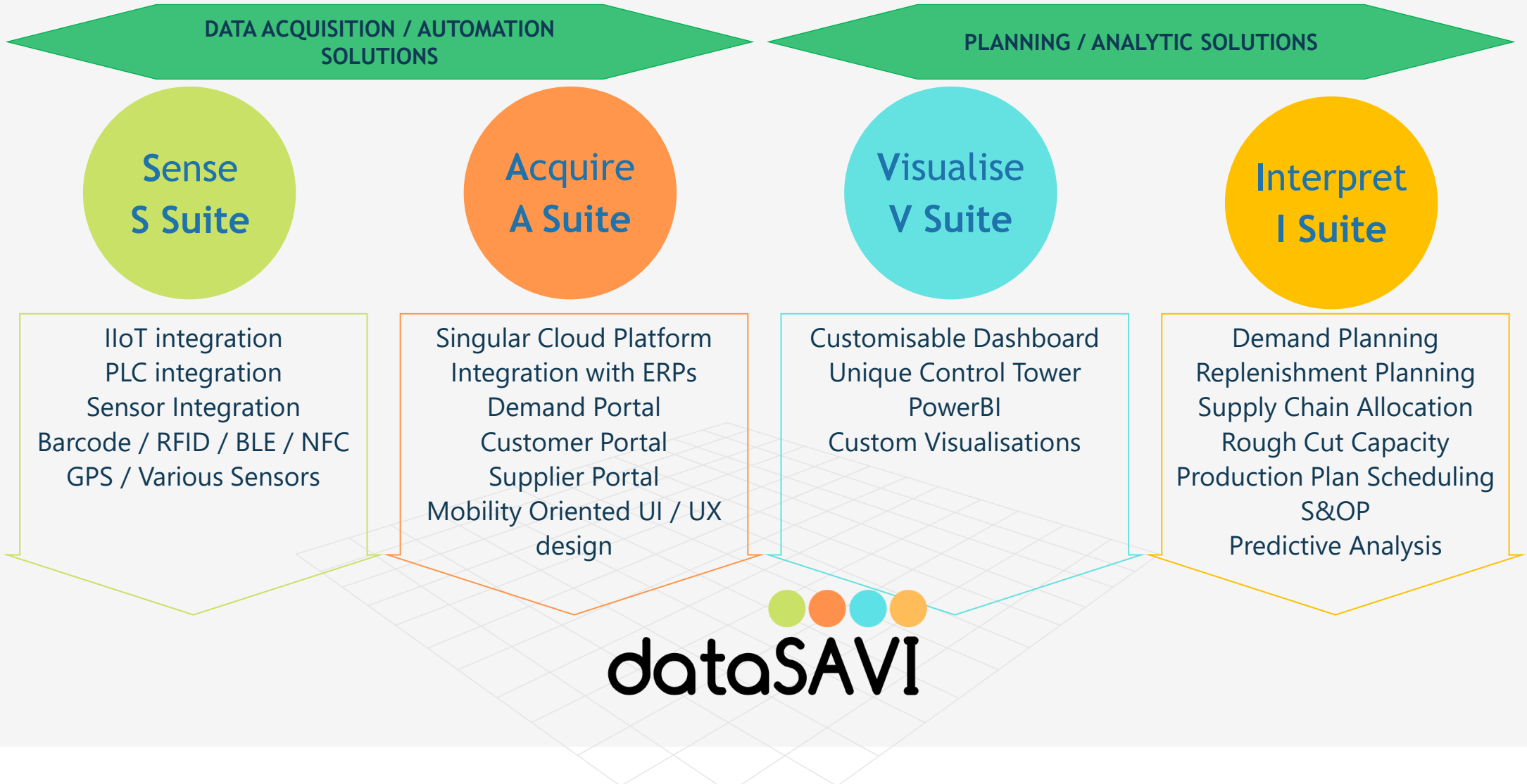
We provide Operations Consulting with a significant focus on digitalisations of operations

dataSAVI considers the four elements of Sense, Acquire, Visualise, Interpret as key for sustainable and intelligent Supply Chain Digitalisation



dataSAVI

The four elements translate to applications / modules that in tandem ensure sustainable and intelligent Supply Chain digital transformation



Our Business Process Automation application suite offers significant opportunities to get data from various sources on a singular platform

dataSAVI

. . . processes that use **manual systems** such as Registers, Books etc.

. . . processes that are supported by **standalone Excel Spreadsheet**

. . . processes that use varied **island communicatio n methods** like such as WhatsApp, Email etc.

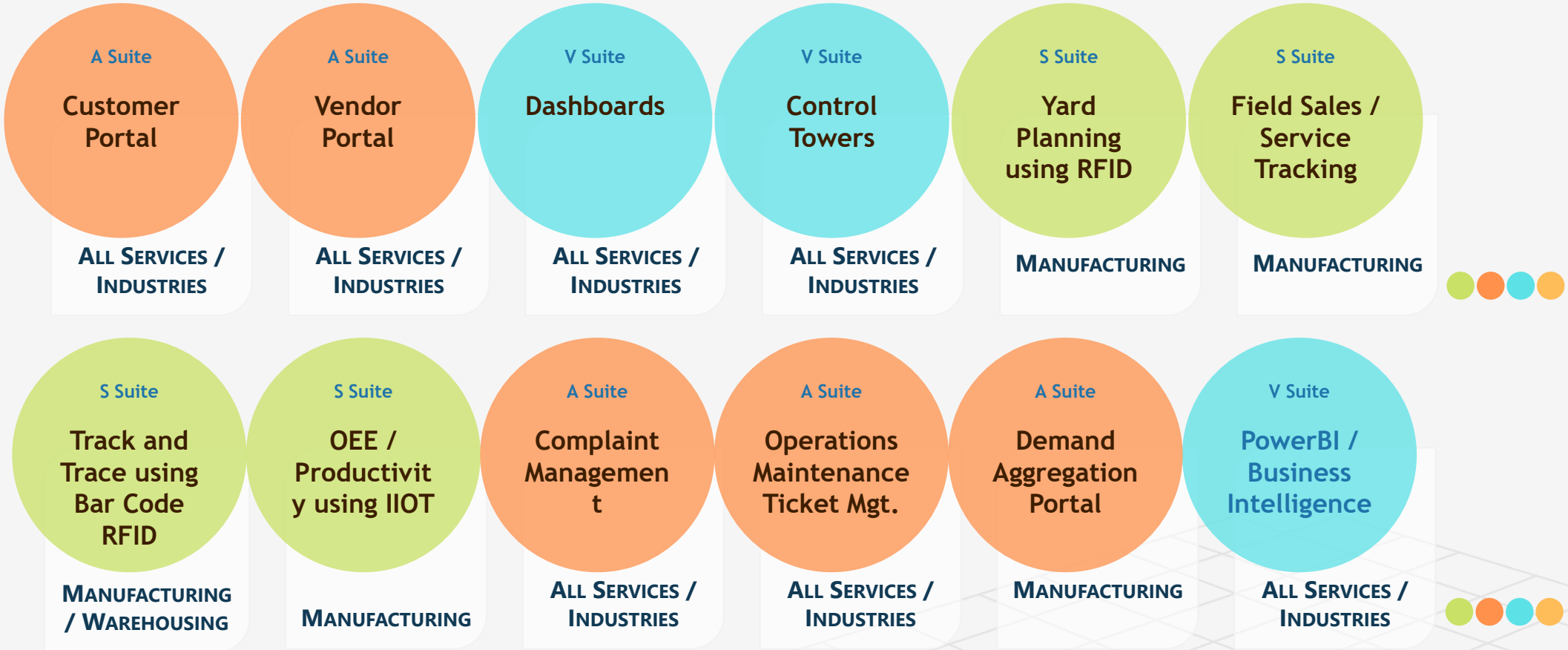
. . . systems are **legacy / archaic / standalone** that can be transformed using new digital technologies

. . . processes are **broken flow** thereby leading to **lack of singular view** of operations

. . . processes and functions that are **NOT covered by regular ERP / CRM** systems

. . . companies looking to embrace **digital technology / digital marketing**

Our Business Process Automation Solutions cater to a growing number of diverse Use Cases (Applications)



Our End to End Supply Chain / Sales & Operations Planning Suite allows for intelligent decision support system across the Supply Chain

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Annual Operating Plan/Budget

SUPPLIERS

Calculating Net Demand

Demand Finalisation

Demand would forecast using Collaborative forecasting
Taking a medium term view (3 months) the for a demand pattern

Demand SKU Wise (3 Months Rolling)

Sales Order

Plant Wise Production Demand Allocation

Allocating Optimal Supply Points

Master Planning / Supply Network Planning

Source/Plants best suited (cost/service) to service the Market would be Allocated taking into account various Constraints such as Capacity, Mode Availability, Demand etc.

Monthly Demand at the Distributors/CFAs

Sales Order

Demand CFA-SKU Wise (1 Months)

Building the Inventory

Production Planning and Scheduling in the Plant

Production Planning would be done on the Allocated Demand which would be over a longer time horizon and would focus on meeting the demand for 2-3 months in future

Monthly Demand at the Distributors/CFAs

Sales Order

Demand CFA-SKU Wise (1 Months)

Deploying the Inventory

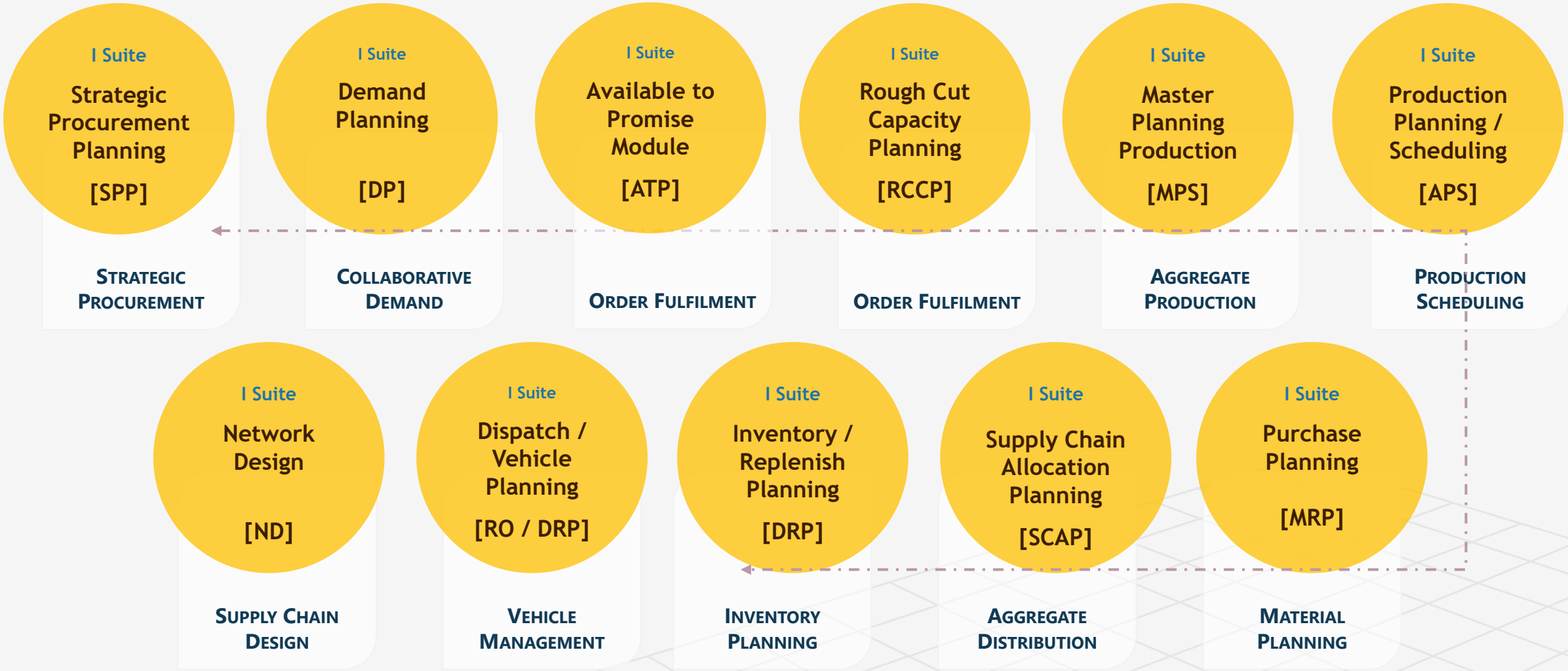
Distribution Allocation and Replenishment / Dispatch Planning

Dispatch Planning would be done on the requirements for the immediate month with focus on meeting the requirements in the Supply Chain

DISTRIBUTORS

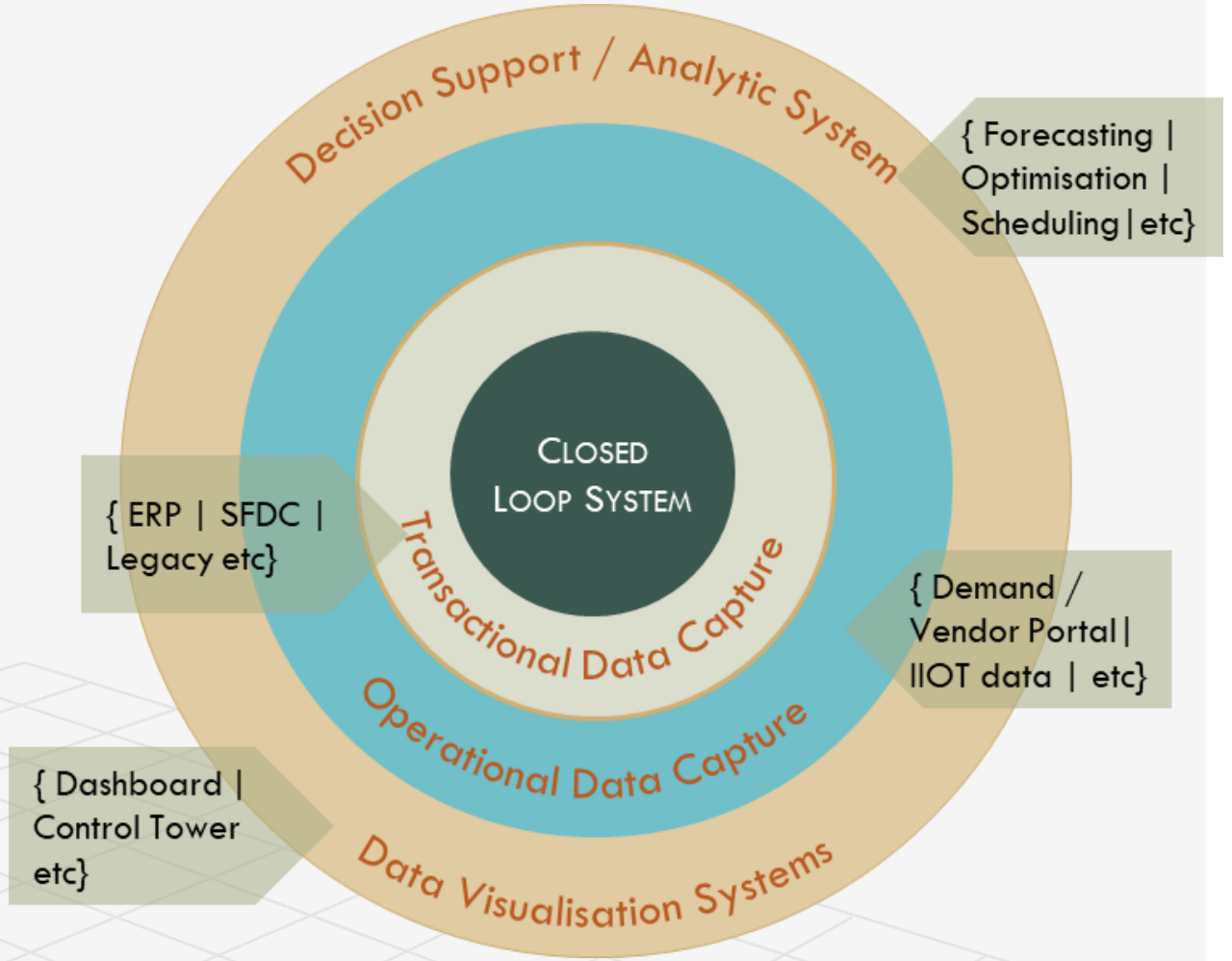
End to End Dashboard and Control Tower

Our Planning and Analytic Suite enables End To End Supply Chain Planning and SNOP Process

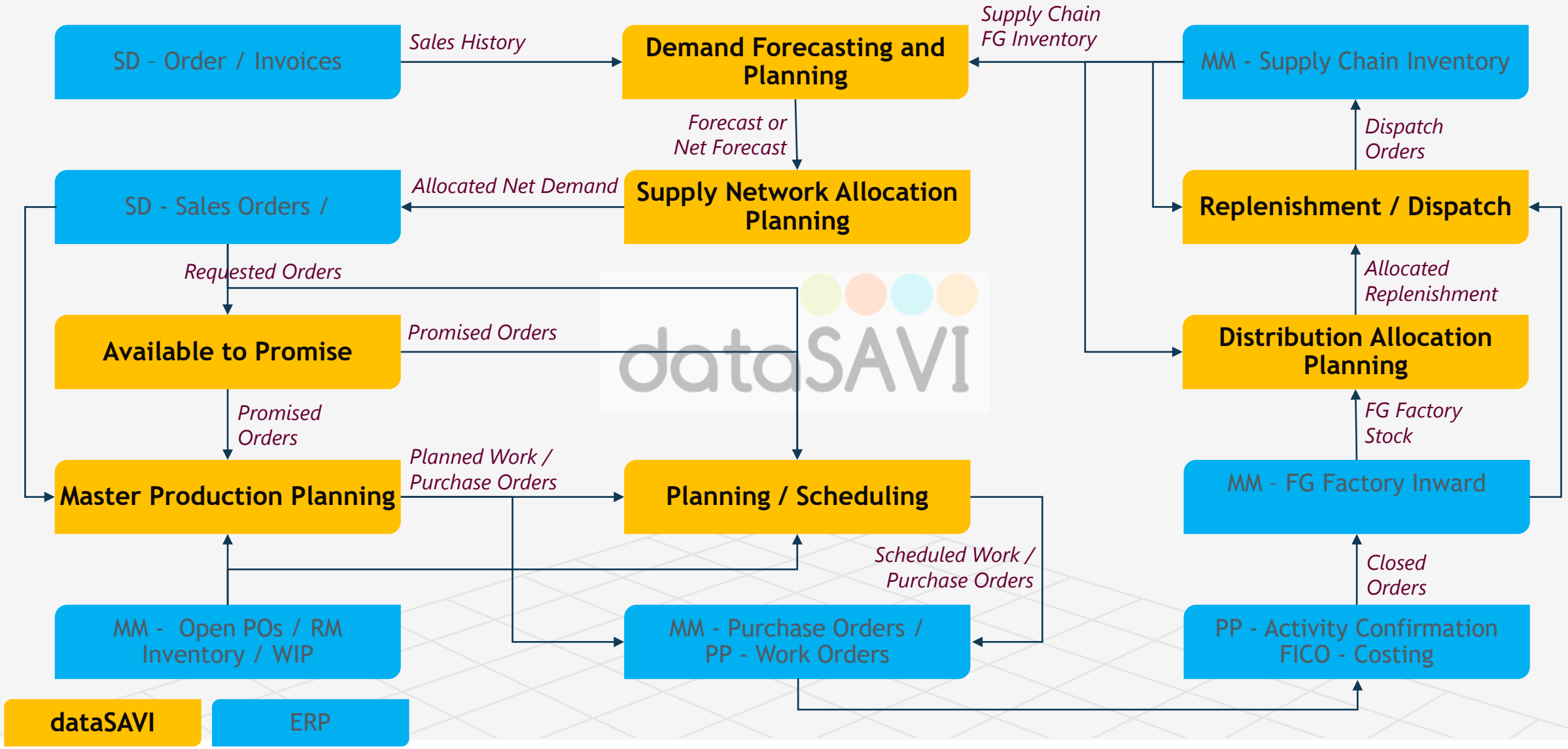


Together we offer a Closed Loop End to End Supply Chain Planning and Automation system that sits on top of a Transaction system

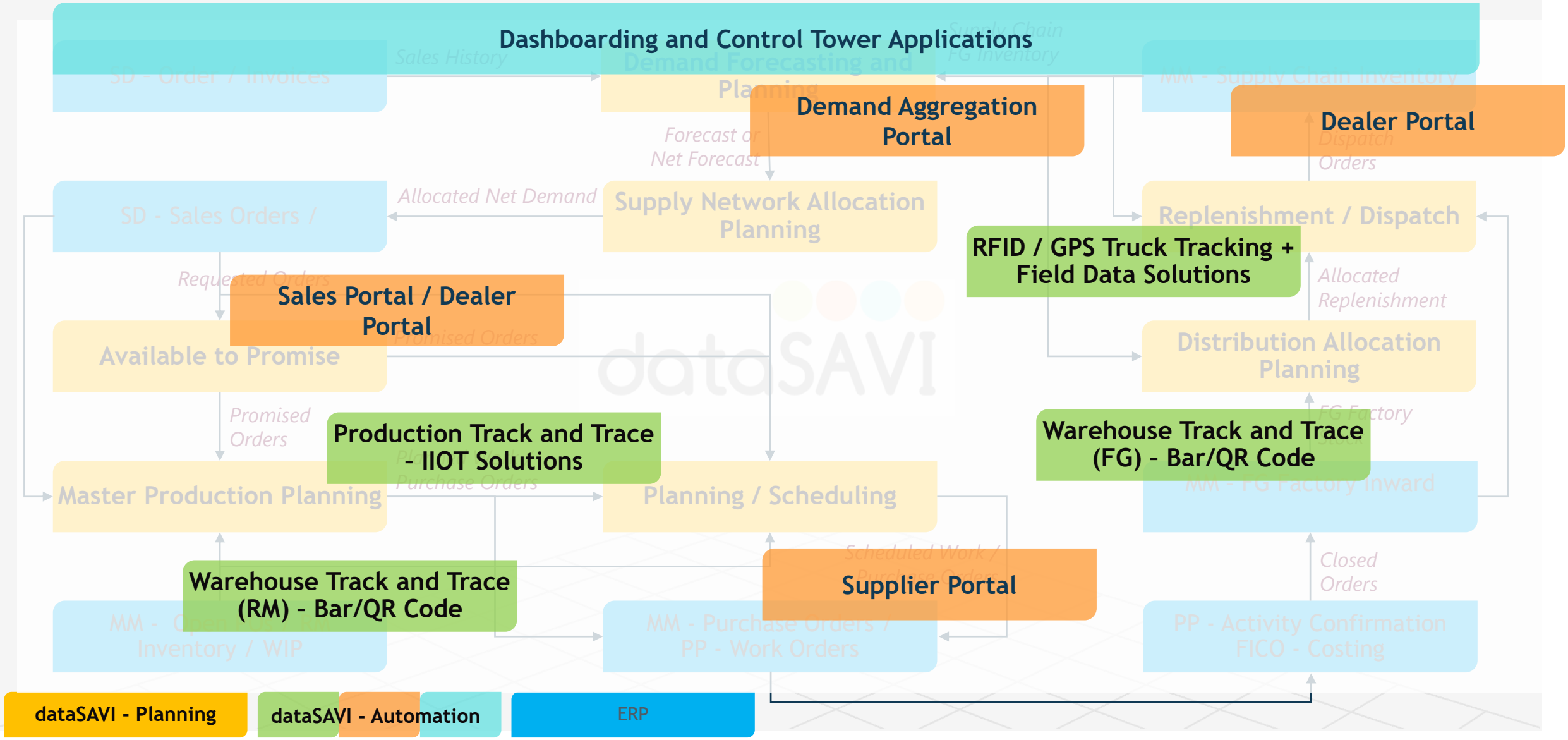
- We boast of a **Modularised approach** and have all the Modules required for Supply Chain Planning solutions. We have the complete suite which competes with the best of breed including large players like SAP, Oracle, Quintiq etc.
- We offer both **Planning and Automation Solutions** which ensure that the plan and data from operations are kept in one system which then integrates with the backend ERP. This ensures data is in a **Closed Loop**
- The Automation solution is Low Code so highly **configurable and quickly implementable**



Planning Solution Schematic



Automation Solution Schematic



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dataSAVI is a Low Code** Cloud based Application Platform that uses latest and mature technologies in the backend

Single Application for Mobile / Web and Offline Browsing

Robust Backend Technology

Robust Backend Technology

Math Engine Integration

Statistical Engine Integration

Excel Add-In Functionality

NLP Integration

Fast Caching for Handling Large Dataset

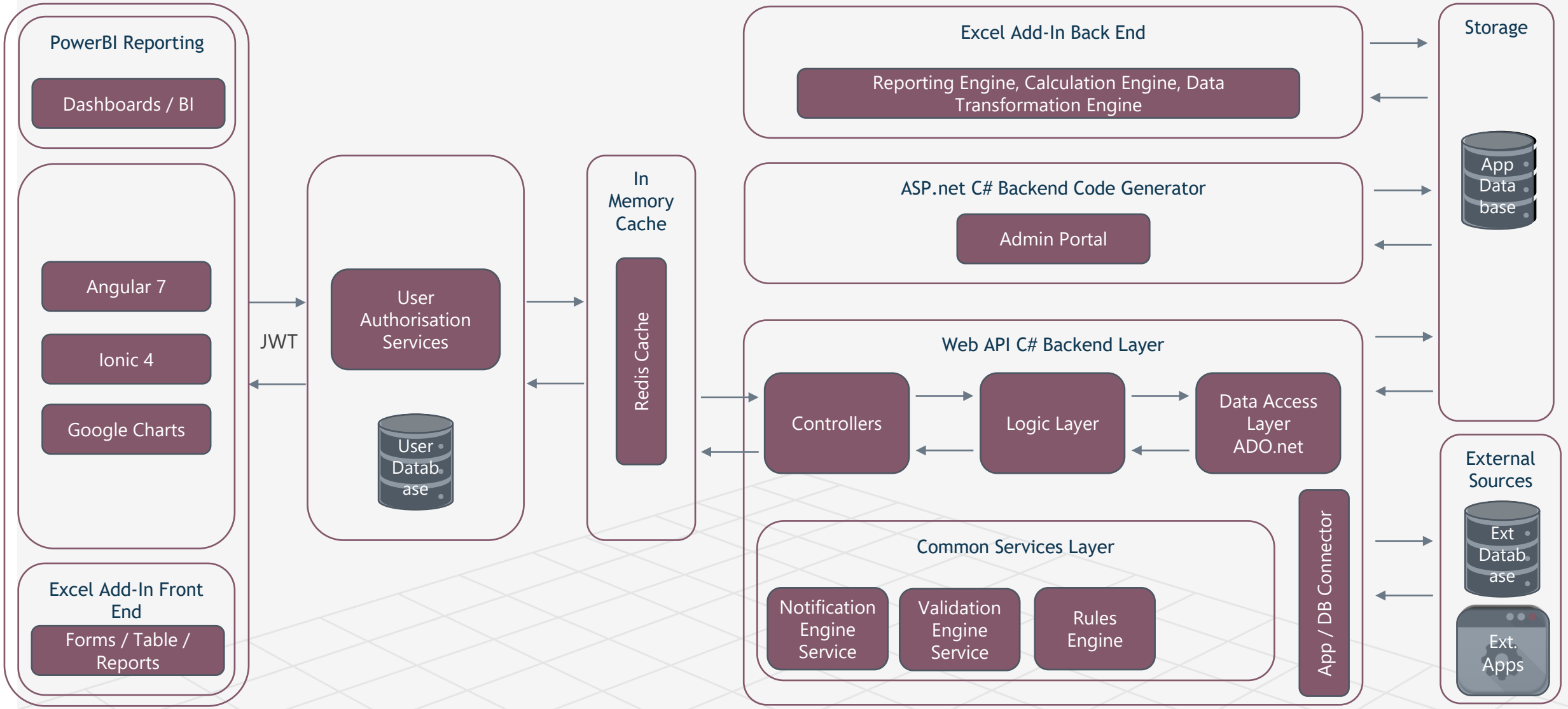
Cloud Technology Enabled

Robust Backend Database

Visualisation Tool Integration

***Low Code: We do not write source code for an App but merely configure our dataSAVI platform which generates code for the App; this significantly increases speed and quality of development*

Architecture



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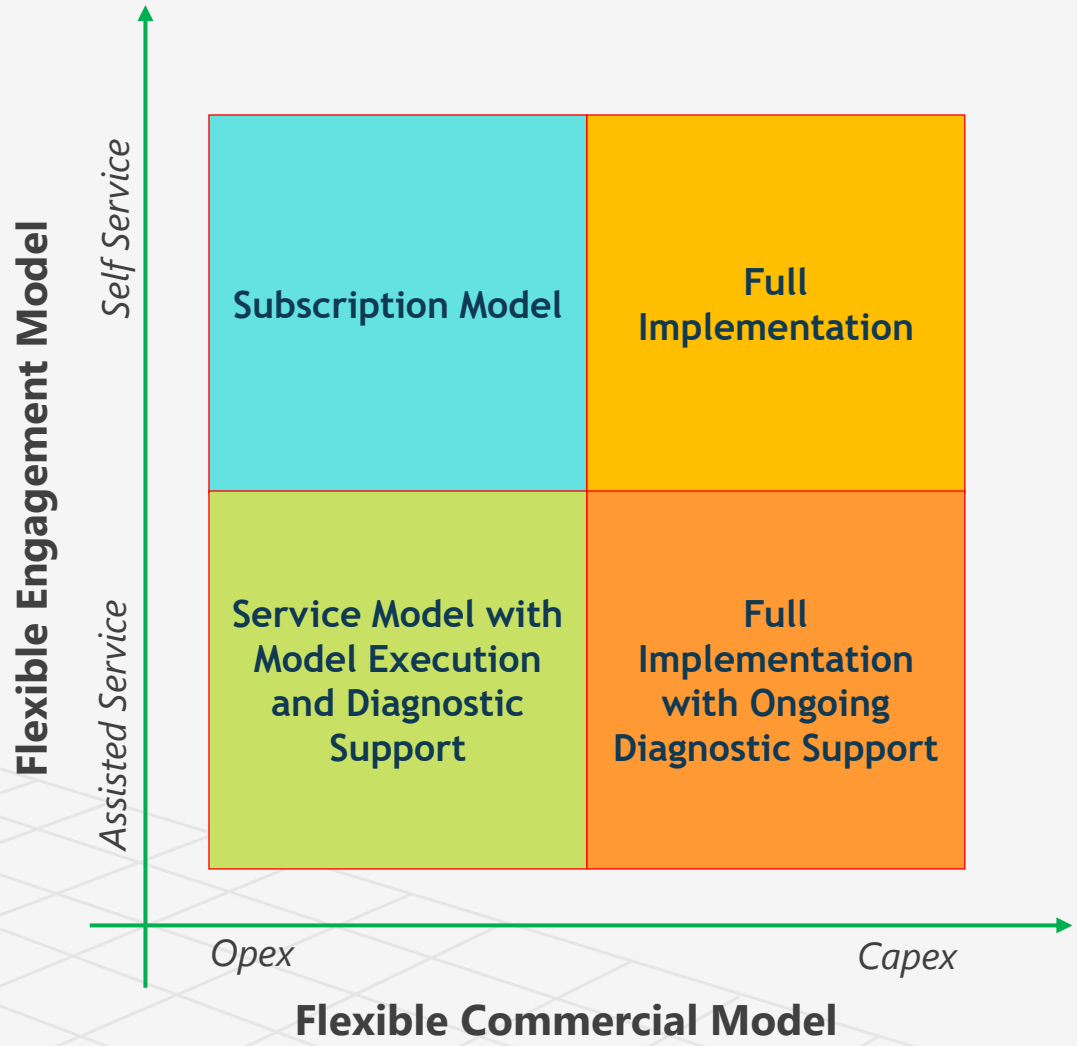
We Support Flexible Engagement and Commercial Models that allow for Low Capex / Opex / Fully Supported Models

- We offer our Solutions in 3 Models
  - Service model [OPEX MODEL]:
    - We are outsourced Planning Partners who execute the Tool Planning Process and our solutions are on rent
    - Mainly for Planning Applications
  - Subscription Model [OPEX MODEL]:
    - We offer our services on rent whereas you execute the Solutions
    - Mainly for Planning and Automation Applications
  - Full Implementation [CAPEX MODEL]:
    - We sell the License for use and you execute the Planning Process
    - Mainly for Planning Applications



Illustrative

Our Solutions are End to End & the resultant outcome is a Closed Loop Planning & Automation Solutions that is comprehensive in its scope

dataSAVI

INTERPRETATION Suite

Demand Forecasting [DP]
Proprietary R based tool. Demand Planning will include Statistical Forecasting and Collaborative Planning

Replenishment Planning [DRP]
Proprietary logic to plan dispatches based on at production inventory, lead times, inventory at supply chain etc.

Planning and Scheduling [MPS / APS]
Proprietary logic and MILP solution to Plan and Schedule Resources based on delivery dates under Finite Capacity

Allocation Planning [SCAP]
MILP to optimise supply chain network by maximising contribution through optimal Plant-WH-Market Allocations

VISUALISATION Suite

End to End Dashboard and Control Tower [DASH / CRTL / ANLY]

The Dashboard and Control Tower Layer to provide vital KPIs and Notifications to ensure that various levels of the Organisation Structure get the necessary Information, Measurements and Action Steps along with an aid through the Mobile App for Quick Action

PLANNING / ANALYTIC SOLUTIONS

ACQUISITION Suite

Demand Aggregation Portal / App [DAP]
The Demand Aggregation Portal would be use to accumulate data

Dealer Portal [DEAL]
The Dealer Portal would allow customers to get a view of the inventory levels at the various Depots / Trade Markets

Supplier Portal [SUPP]
The Supplier Portal would allow customers to track dispatches against Open POs which becomes input to the Planning tool

SENSE Suite

GPS / QR Code / Camera / data Entry Solution [FIELD]
PWA Mobile Applications to allow Field people to enter Tertiary Inventory/Sales data

IIOT / RFID / Bar Code for Prod / WH | GPS for Trucks [TRACK & TRACE]
Track and Trace using Sensing and IIOT solutions for Production / Warehouse / Trucks etc.

DATA ACQUISITION / AUTOMATION SOLUTIONS

Transaction Suite

Master and Transaction data [SAP]

User Mapping / Authorisation [SFDC]

TRANSACTION SYS

Next Steps

- We would like to showcase our solutions and discuss with you on possible ways to engage with our Products and Services in your environment

Thanks!

Any questions?

You can find us at

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