

iMES 2024

Integrated Manufacturing
Planning, Tracking and Execution
System

INTENSECOMP PTE LTD

www.intensecomp.com

Agenda

1 Executive Summary

2 Company
Introduction

3 Overview of Previous
MES Barcode Project

4 Strategy and Implementation

5 Conclusions

Executive Summary

Established in 2002, Intensecomp has grown from a single tracking solution company to company providing mass - solutions for connected devices in global scales.

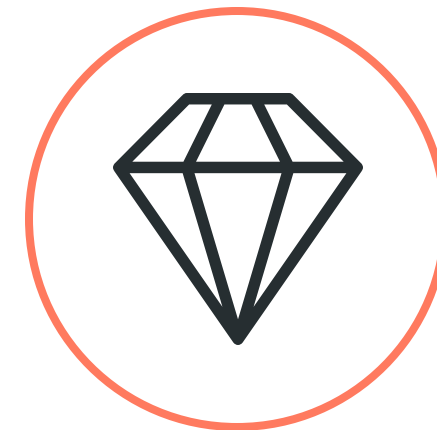
Intensecomp develops innovative solutions for automated identification and focused on tracking systems with intelligent analytics.

Intensecomp is well positioned to harness for the current trend of automation and data exchanges for all smart devices through “Internet of Services”



RFID & AUTOID

More than 15 years of experience in RFID and AUTOID system.



AI & INTERNET OF THINGS

Our products such as Smart Cabinets, Shelves, Remote Controllable Sensors and Cloud Artificial Intelligent Services.



BUSINESS ANALYTICS

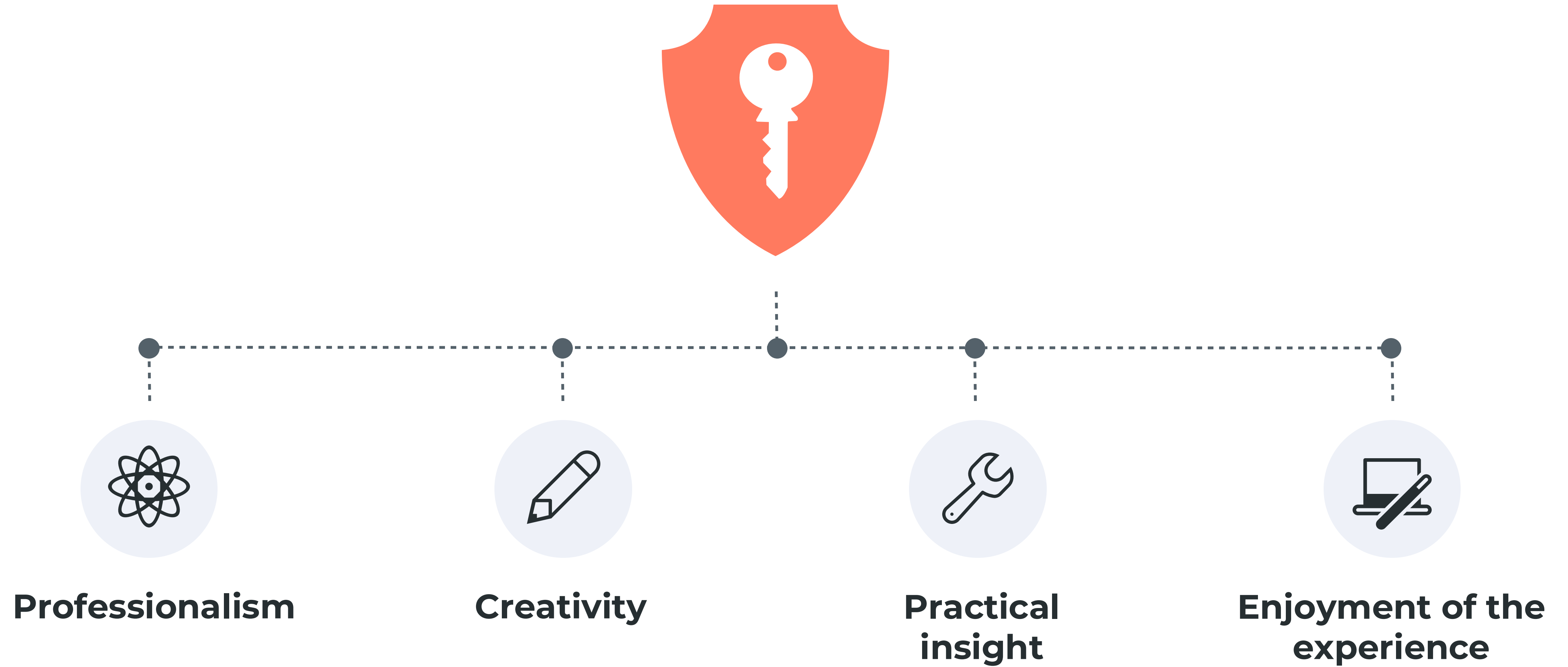
We provide dashboards and analytics charts through our software system for vital information to customers.



We Are the Leader in Connecting World of Devices

Everything we do in Intensecomp is to enable smart devices to work with each other with seamless and minimum interference from human. We believe our implementations and products can positively impacting and scale up productivity of our customers.

Intensecomp Keys to Success



Enterprise MES – InvenTrack

Industry:

Chemical & Manufacturing.

Description:

Manufacturing execution system with barcode to prevent mix-up and tracking of all raw materials and finished goods..





Vision

Defines the vision of the project as a system which can be deployed across all plants.

Goals

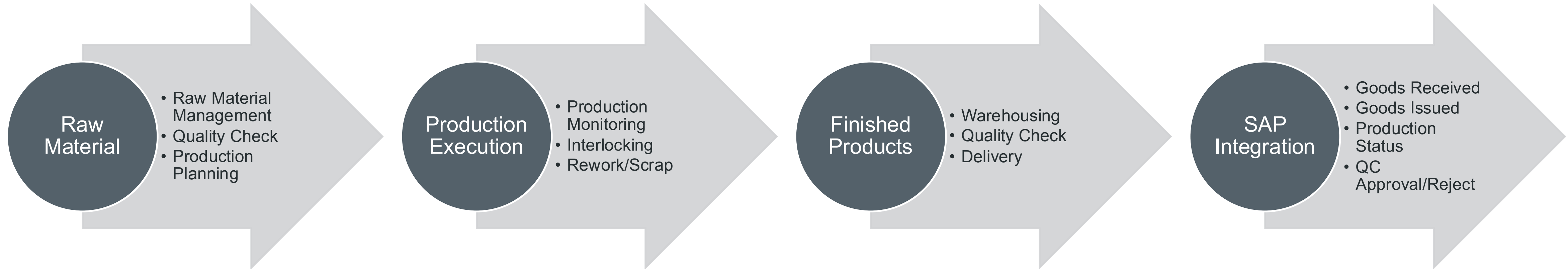
To prevent mix-up and enable overall tracking of material in the plant.

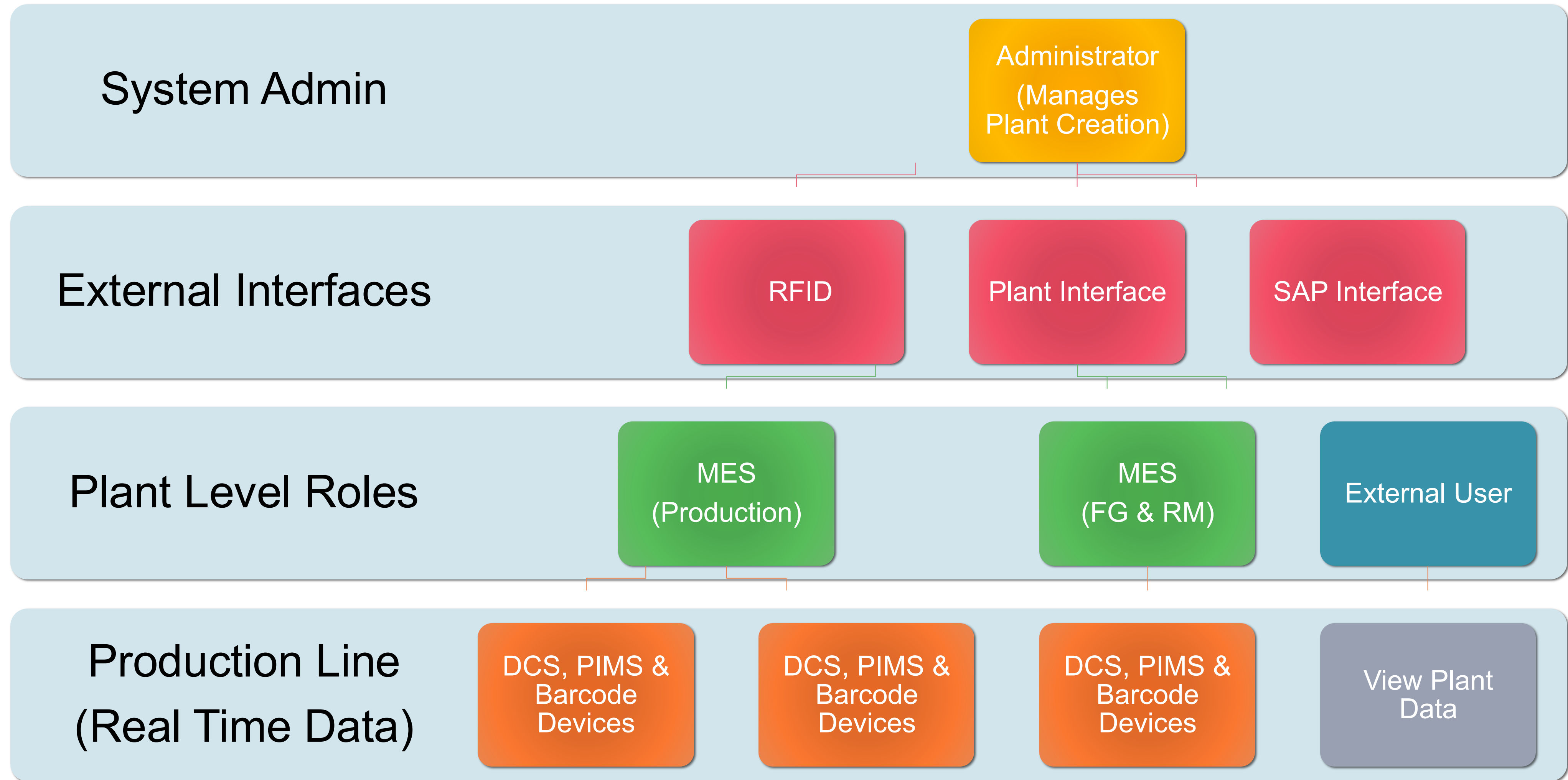
Tactics

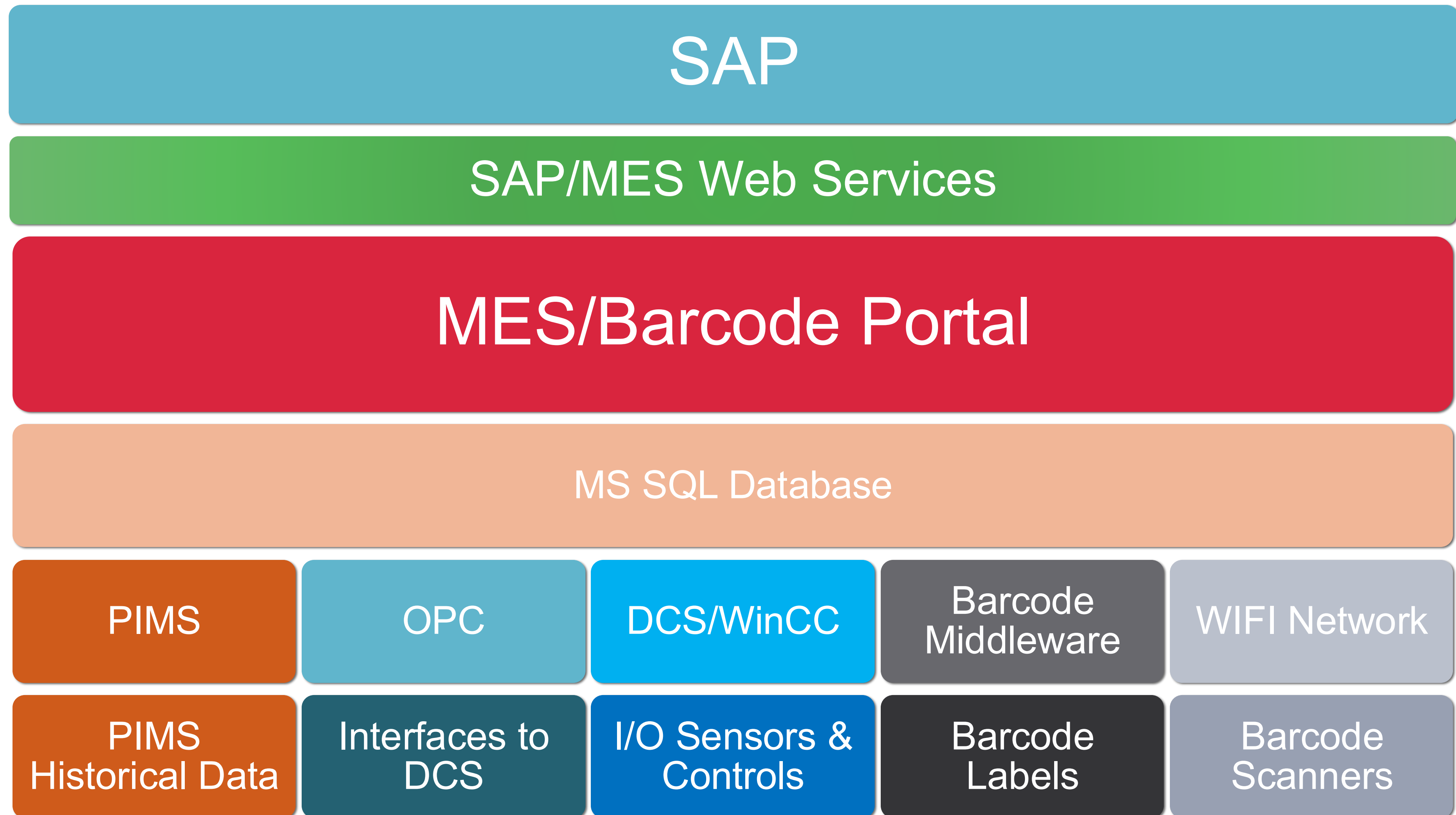
Defined a robust architecture and stable system using Smart Devices

Action Plans

Ensure prompt implementation and delivery of all agreed deliverables.









Product Barcode Printer

Area:
RM Warehouse
Production
FG Warehouse



Mobile Barcode Scanner

Area:
RM Warehouse
Production
FG Warehouse



RFID

Area:
Weigh Bridge
Tank Farm



QC Label Barcode Printer

Area:
RM Warehouse
FG Warehouse

Recipe & Process Order Management

Process Order Management

To retrieve any material from the warehouse, production order and pick list are required.

[Pick List](#) | [Premix](#) | [Loading Point](#) | [Edit](#) | [Details](#) | [Back](#)

Process Order Details

Process Order No: 601342057
Start date: 2016-01-01 00:00:00 +0800 (2016-01-01 13:55:18 +0800) **End date:** 2015-12-01 00:00:00 +0800 (2016-01-02 06:44:32 +0800)
Finish Goods Material Description: ULTB3EG3 BK00564 25KG 5H4 V **Finish Goods Material No:** 6027053
Total Quantity: 33000 KG **Production Line:** Line 4
Batch No: [41601002](#) (30250.0) KG **Status:** Completed

Scheduled Time vs Actual Time

Batch Info

Recipe

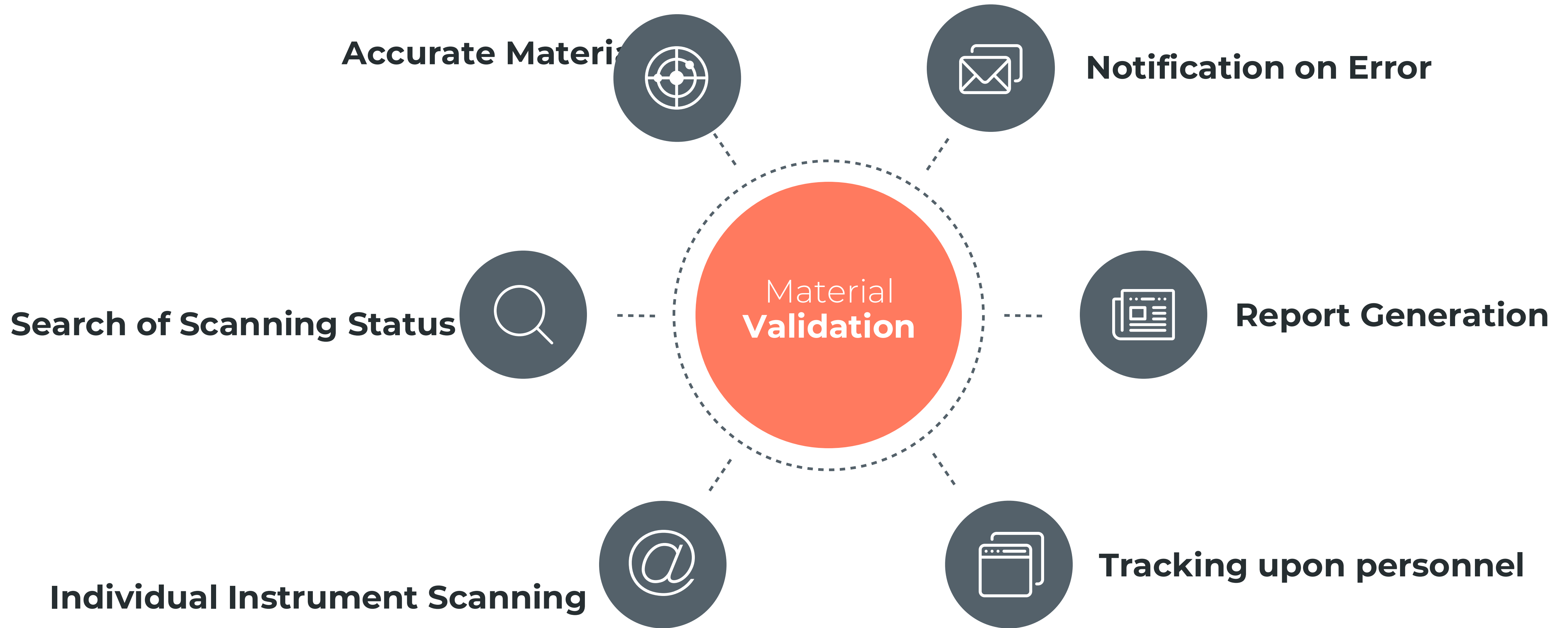
Material Description	Material No	Unit	Qty/Unit	Requested Quantity	Used Quantity
ULTB27 E	50933199	KG	0.0	24888.9	0.0
PA6 27 (LIBOLDN 6) 820KG 13H3	50180375	KG	820.0	24888.9	25954.0 (1065.1)
ULTRABATCH 624 700KG 13H3	50366070	KG	700.0	500.1	514.0 (13.9)
GLASS FIBER PA-10 1000KG 13H3	53803890	KG	1000.0	4500.0	4609.0 (109.0)
CALCIUMMONTANAT 25KG 4G	50491230	KG	500.0	66.0	63.0 (-3.0)
IRGANOX 1098 2x20KG 4G	50111278	KG	480.0	56.1	53.55 (-2.55)
ULTB3EG3 SW00564 NT	50402499	KG	0.0	3000.0	1657.0 (-1343.0)
ULTB3EG3 SW00564 NT	50402499	KG			603.0 *
ULTB3EG3 SW00564 NT	50402499	KG			390.0 *
ULTB3EG3 SW00564 NT	50402499	KG			666.0
NYLON Reinforced Scrap	52355294	KG			300.0
ULTB3EG3 SW00564 NT	50402499	KG			424.0

Materials Used

Rework/Running Rework By Bag

- [1000000000250850](#) (Stock Out - 41601002)
- [1000000000250855](#) (Stock Out - 41601002)
- [1000000000250869](#) (In Location - 41601002)
- [1000000000250870](#) (In Location - 41601002)
- [1000000000250871](#) (In Location - 41601002)

* Running Rework



Material Validation

- Via Equipment Interlocking.
- Check for Correct Material
- Check for QC Status
- Check for Safety Checklist.
- If all checks passed, allow valve or pump to start.

Scan Barcode Location & Material



Comprehensive Material Tracking System



MIX-UP PREVENTION

Accurate tracking ensure no mix-up in products during production and handling of finished goods.



COMMAND & CONTROL

Complete accountability of all materials manufactured including rework and scrap.



FUTURE PROOF

Extensible system with Smart Devices design concept provides upgradable systems.

iMES is a system designed to harness the latest Smart Devices technology allowing extensibility on the system as well as future proof the investment with sustainable implementation.