



Smart Supply Chain Management

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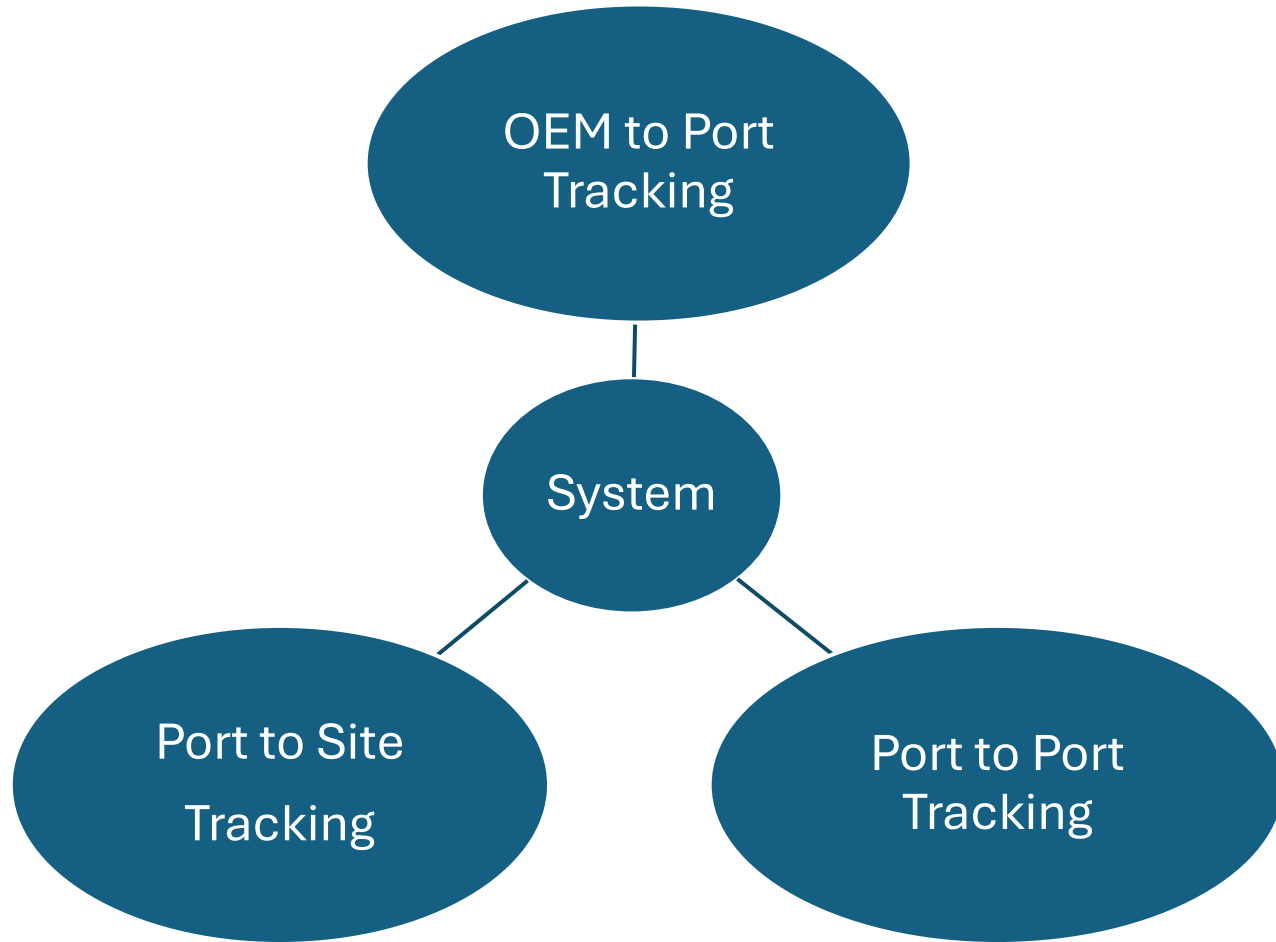
Logistic Management System

Logistics Management System

Problem Statement

- Absence of early warning signals.
- Accountability among various stakeholders are lacking.
- Insufficient integration and communication among systems
- Siloed teams operate independently
- Limited transparency and difficulties in tracking material
- Decentralized document management

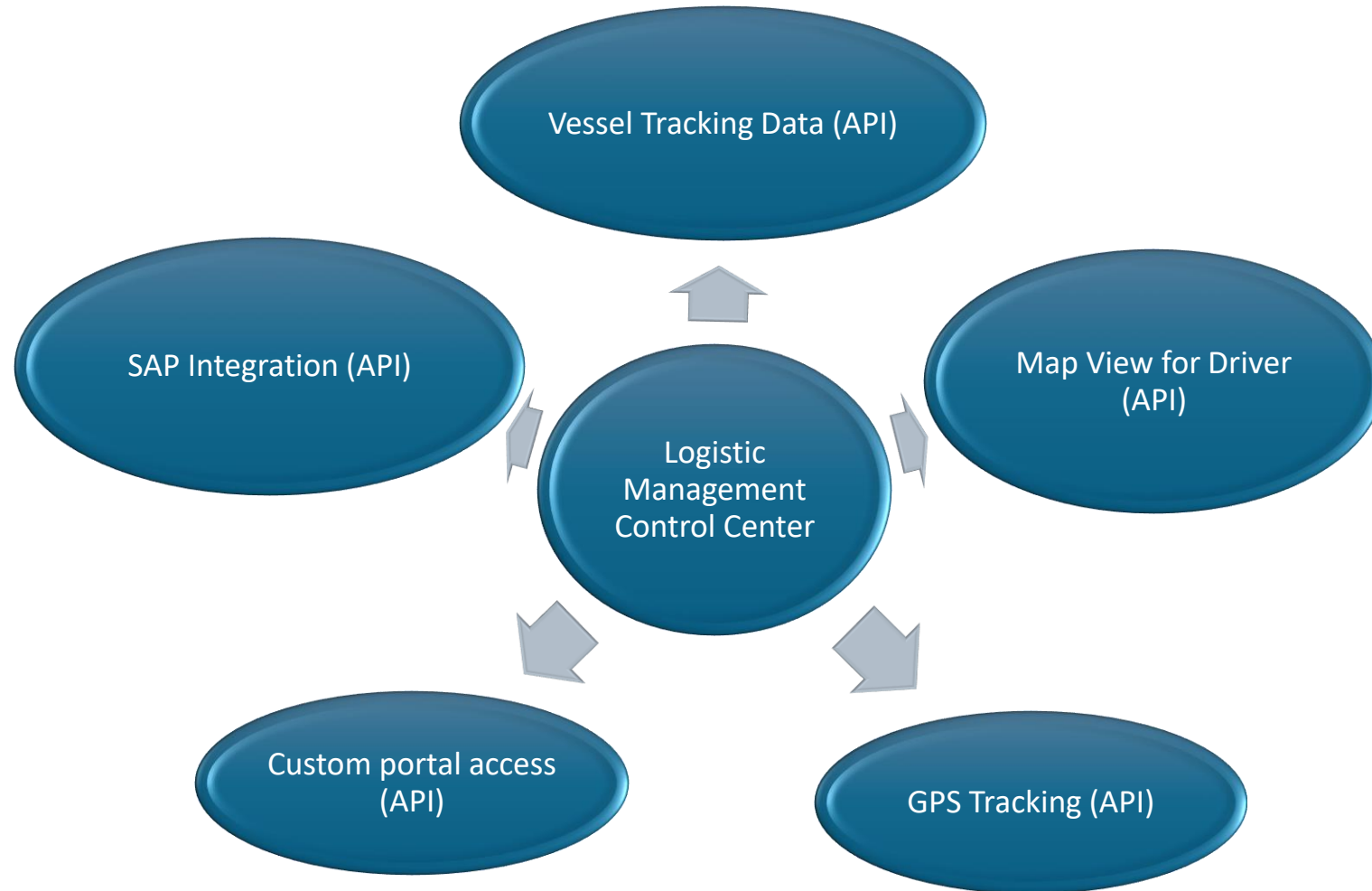
Functional Architecture



Various Stake Holders

- ✓ Engineering
- ✓ Logistics & Customs
- ✓ Supply chain management
- ✓ Quality
- ✓ Vendors / Transporter
- ✓ Project etc.

How Logistic Management System Works?



Control Tower Activities



- Real time visibility of shipment
- Vessel Tracking
- Inland movement of Materials
- Shipment Clearance
- Coordination with Shipping Line, CHA, Transporter, Internal stakeholders
- MIS

Benefits of LMS

- Improved Operational Efficiency
- Real-time Information and Transparency
- Streamlined Document Management
- Detention and demurrage reduction
- Improved truck turnaround time
- Avoidance of truck detention
- Data-driven Insights and Reporting
- Traceability

Single Window Digitized Invoice Processing

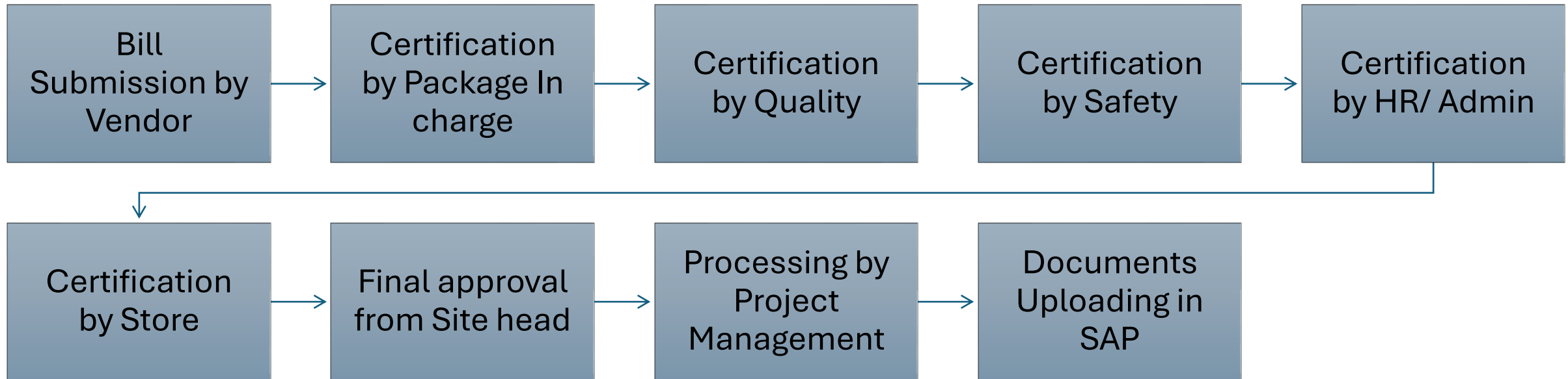
Single Window Digitized Invoice Processing

Problem Statement

- Manual Process
- Documents approval manually
- Delay in invoice processing
- Tracking all records manually

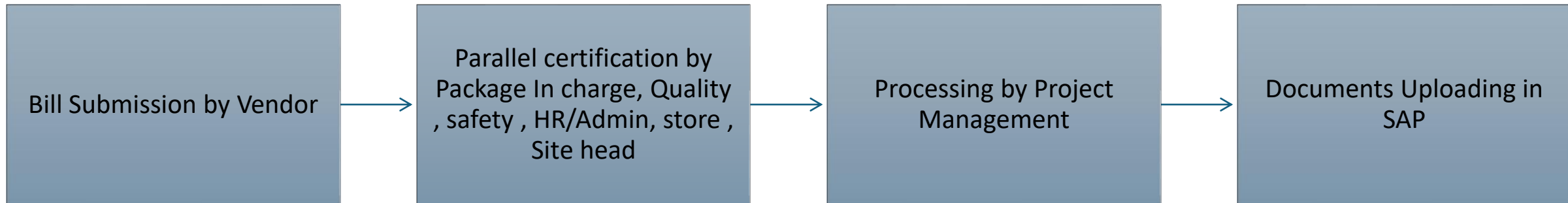
Single Window Digitized Invoice Processing

Invoice Process – Before



Single Window Digitized Invoice Processing

Invoice Process – After



Single Window Digitized Invoice Processing

Advantage

- Upload invoice along with supporting documents at single shared point.
- Easy Tracking and documentation .
- View access to all respective team and provide comment in this tracker.
- Minimize processing time as all approval is parallel process.
- Time Savings by this implementation is app 25%.

Single Window Digitized Invoice Processing

Way forward

- Use of AI/ML Tools for following process
 - Fetch compliance related data from respective documents and process it.
(PF , labour license, WC policy etc) (Using M/L , BOT etc.)

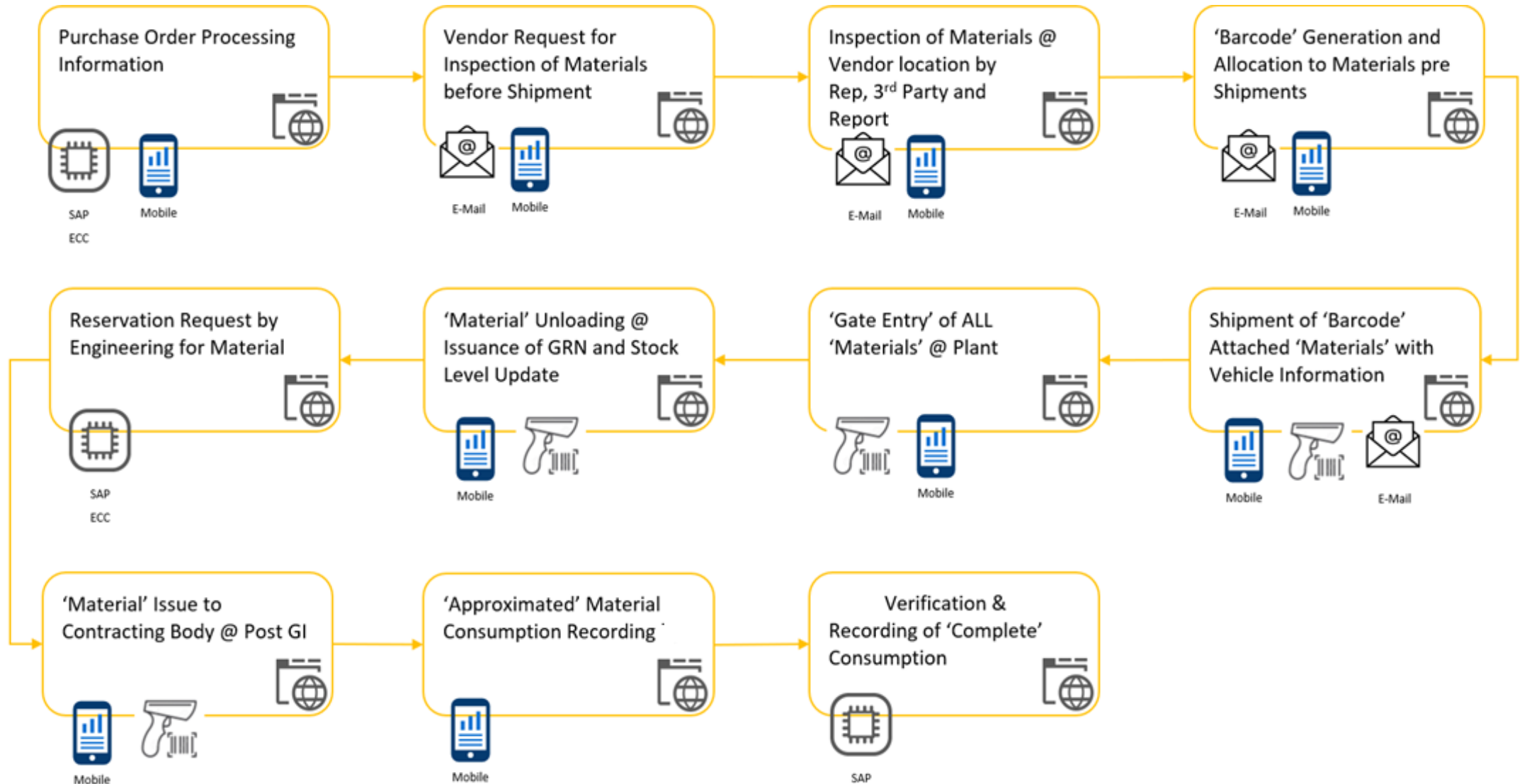
Materials Movement Tracking Solution

Problem Statement

Problem Statement

- Mismatch in inventory counts
- Inefficiency in inventory count
- Inefficiency in restocking process

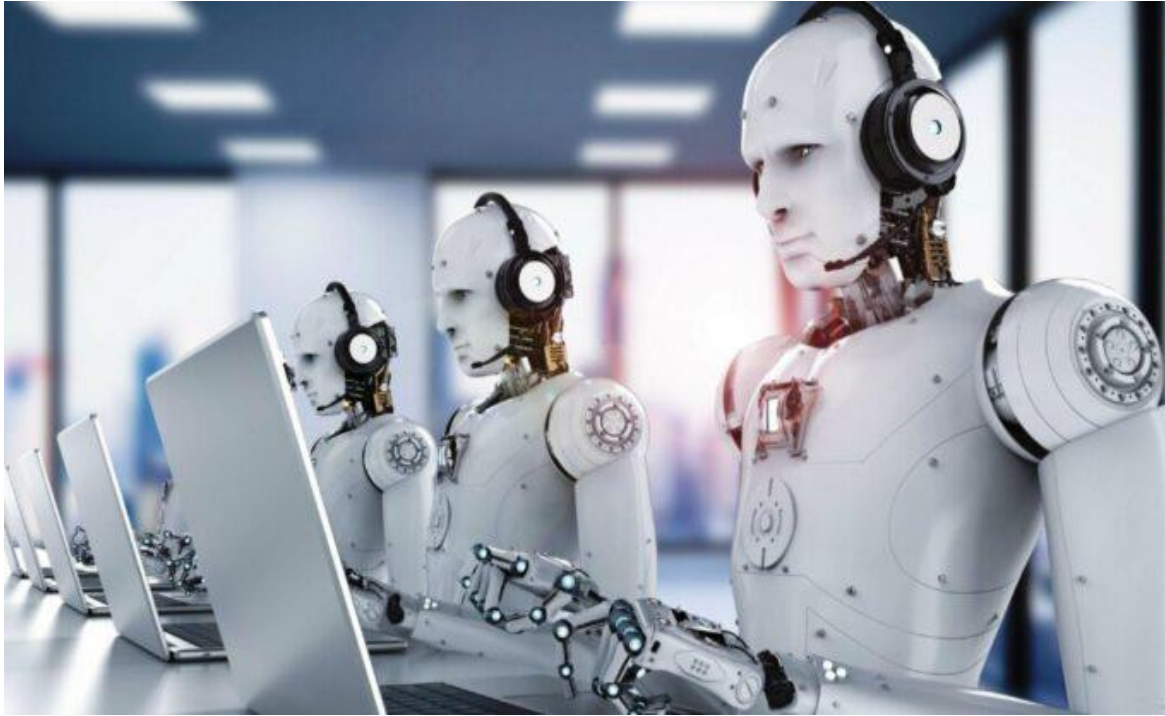
Process tracking



Business Value delivered

- Improved turnaround time
 - Material tracking through QR codes
- Efficient reports for better stock management
- Increased transparency of material
 - Visibility for material from vendors to client
- Seamless communication
 - Collaborative inventory tracking management

Robotic Process Automation (RPA) / BOT



Problem Statement

- Repetitive Job
- Rule based task prone to error
- Time –Consuming and resource intensive
- High operational cost
- Decrease employee satisfaction

Robotic Process Automation (RPA) / BOT



RPA Highlights



Metaphorical software robots or AI workers



emulation of human actions within a platform



access to background systems and databases



step-by-step (trained) process execution



RPA-Employee interaction

RPA benefits & Use cases

RPA Benefits

↓
Increase Productivity

↓
Reliability

↓
Consistency

↓
Low Technical Barrier

↓
Accuracy

↓
Non-Invasive Technology

↓
Cost Saving

Various Use cases of RPA

↓
PO Ageing Status

↓
Open PR/PO Status

↓
Vendor Advance report

↓
Store MIS & Inventory Management

↓
Contract Closer

Use Case :

Store MIS & Inventory Management

Inventory Management

Problem Statement:

- To monitor inventory status for all O&M sites across the India
- Lack of Realtime visibility of inventory for all O&M stores
- Delay in GRN processes
- Difficulty to check RGP & Closure within the Time.

Digitization use case for inventory

Inventory MIS through RPA :

- Ageing of Inventory in Bucket
- Shelf life of Inventory Monitoring
- Scrap Sale and Scrap availability
- GRN Completion Status
- Site wise Inventory status

Power BI for O&M inventory

- Optimization portfolio wise inventory status – real time basis
- Visibility of excess inventory for O&M sites
- Category wise inventory bifurcation
- MoM inventory comparison
- VED & FSN Wise inventory status
- Min-Max mapped in basic data