Manage-I

Your Window to Smart Warehouse & Inventory Management

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Efficient Warehouse Management is Crucial for Supply Chain

Agile supply chains a pre-requisite post pandemic

- Expanding demand
- Increasingly shorter delivery times

Imperatives imposed

- Efficient warehouse management
- On-time order fulfillment

WMS allows total control of the logistics operations in the warehouse, through automated and intelligent processes, starting from the moment a merchandise enters the warehouse till it is dispatched

- Inventory Control & Management
- Customer Service & Tracking
- Enhance Productivity
- Cost & Resource Saving
- Client Satisfaction

Industry Challenges

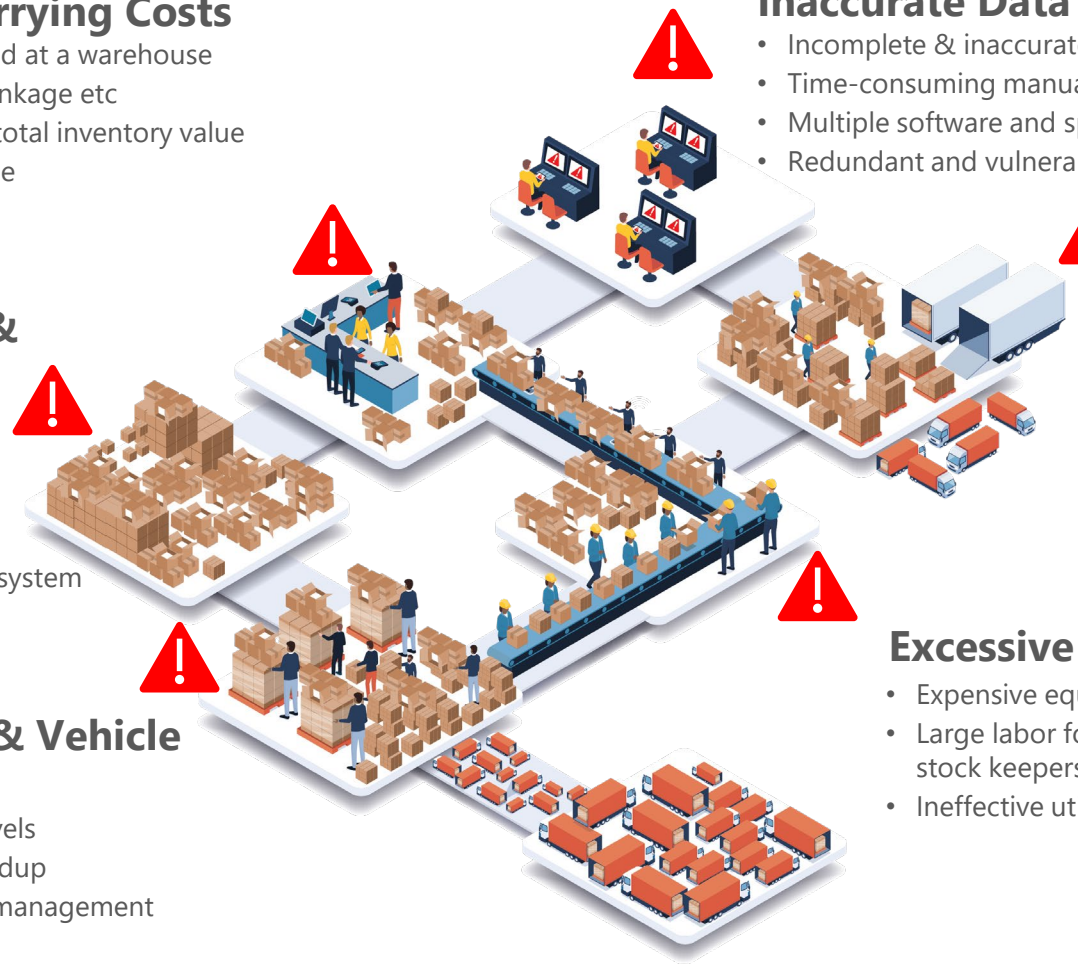
Lack of digitization means loss of time, cost and resources, with suboptimal operations and dissatisfied customers

High Inventory Carrying Costs

- Arises from products shelved at a warehouse
- Includes storage, labor, shrinkage etc
- Comprises **20% to 30%** of total inventory value
- Increases with length of time

Inaccurate Data

- Incomplete & inaccurate records
- Time-consuming manual processes
- Multiple software and spreadsheets
- Redundant and vulnerable to errors



Poor Warehouse Layout & Stock Tracking

- Inefficient space usage
- Inadequate storage
- Inaccurate tracking of goods
- Incorrect receipts and purchase order
- Repeat verification of manual tracking system

Unsatisfactory Order Delivery

- Collapse of the entire workflow
- Mismatch right from order logging to picking and packing
- Shipping of wrong products
- Delayed delivery to wrong address

Poor Inventory & Vehicle Management

- Inaccurate inventory levels
- Obsolete inventory buildup
- Poor vehicle and dock management

Excessive Resources

- Expensive equipment
- Large labor forces (cleaners, packers, stock keepers, managers, administrators)
- Ineffective utilization of resources

Manage-I® Manage . Optimize . Excel
Warehouse Management System

NEC Integrated Solution for **End-to-end Warehouse Management**

Flexible
On-Prem / cloud-based
integrated, customizable solution

Tracks every unit down to the SKU Level for improved order fulfillment and inventory accuracy

Enables a much **faster, easier and efficient** inventory management

Functional Overview

Manage-I

- **Master Data Setup**
- **User Management**
- **Project Configuration**
- **Administration**

INBOUND

- Advance Shipment Notice
- Receiving
- Gate-in
- Quality Check
- Putaway

INVENTORY MGMT

- Inventory Planning
- Inventory Search
- Inventory Audit
- Adjustments
- Inventory Rotations
- Traceability

OUTBOUND

- Order & Allocation
- Kitting & Sorting
- Picking & Dispatch
- Shipment
- Vehicle Loading & Gate-out

VALUE ADDED SERVICES

- **SMS/Email Alert & Notifications**
- **Configurable Access Control**
- **Warehouse Layout Configuration**
- **EDI Integration Support**
- **API/ Other System Integration**

Reports (Excel, PDF, CSV) & Analytical Dashboard

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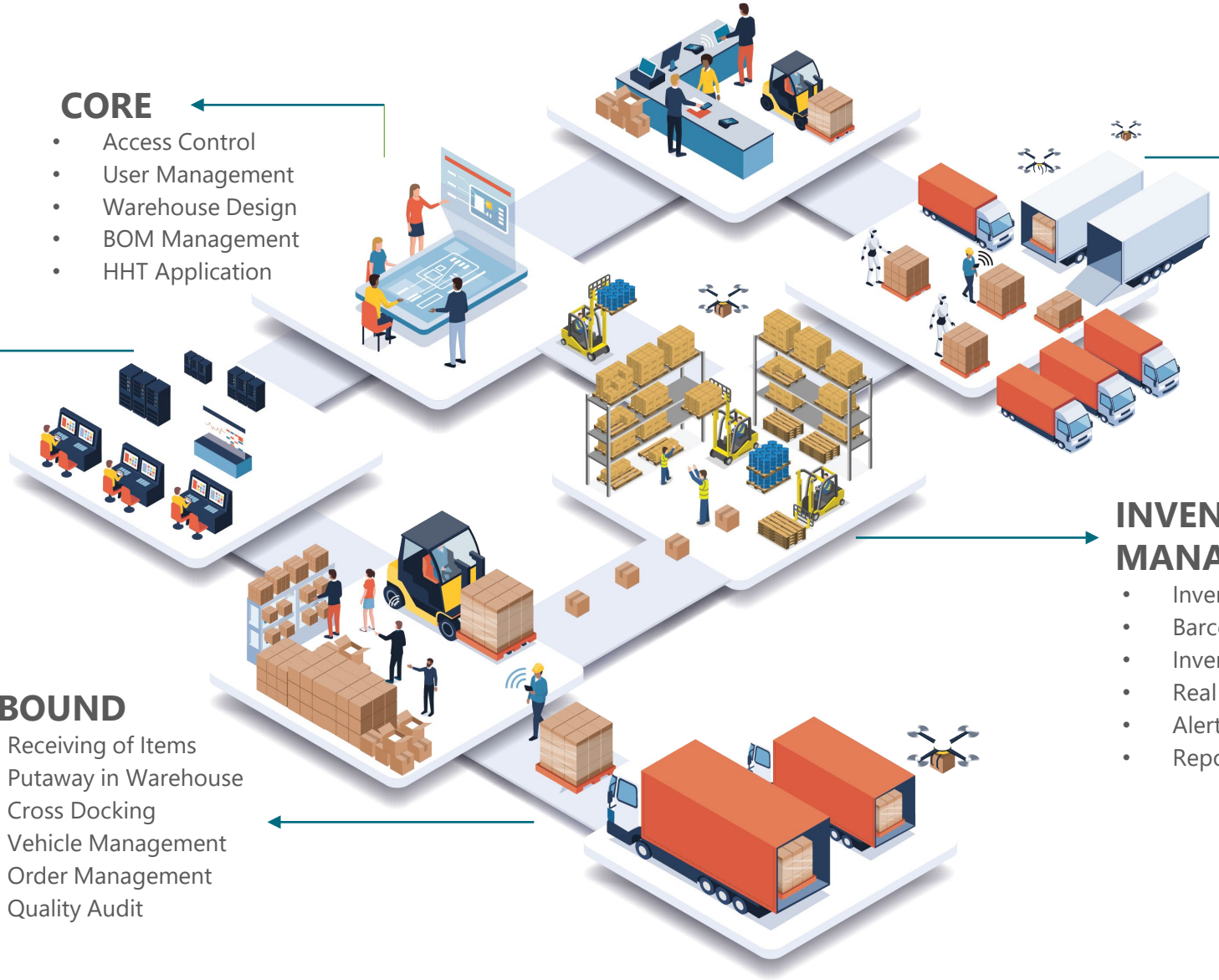
Manage-I Feature List

CORE
- Access Control
- User Management
- Warehouse Design
- BOM Management
- HHT Application

CONFIGURATION
- SKU/Batch Mixing
- Integration Layer
- Inventory Methods FIFO/FEFO/LIFO/FMFO
- Configurable Putaway & Picking Algorithm
- Configurable UOM Management



OUTBOUND
- Order & Vehicle Management
- Picking & Dispatch
- Kitting
- Wave Management
- Material Sorting
- Shipping Management

INVENTORY MANAGEMENT
- Inventory Planning & Monitoring
- Barcoding/Serial/Lot/Batch Tracking
- Inventory Audit & Adjustment
- Real Time Tracking & Traceability
- Alert Management
- Reporting & Analytics

INBOUND
- Receiving of Items
- Putaway in Warehouse
- Cross Docking
- Vehicle Management
- Order Management
- Quality Audit

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Inbound

Inbound Cycle Starts

Order Management

- Partial and full order receiving and fulfilment
- Manage order priority and status
- Order short closure

Vehicle Management

- Capture vehicle details
- Gate pass generation
- Gate in/out management
- Vehicle unloading with HHT device

Quality Audit

- Full quantity or sample based
- Configurable Quality flag at product level
- Separate storage for bad (NG) products

Receiving

- PO or ASN or order based or blind receiving
- Multiple SKUs in single order
- HHT process
- Pallet & trolley building
- Label generation

Putaway

- System driven storage optimization
- HHT based process
- Configurable storage allocation (color, size, QC, volume, etc.)

Cross Docking

- Route inventory from inbound to outbound
- System determined cross docking functionality

Outbound

Order & Vehicle Management

- Dispatch order creation and item allocation
- Capture vehicle details
- Gate In/Out
- POD (Proof of dispatch) upload

Picking & Dispatch

- Web and HHT based picking process
- Delivery by serial no. or group of tasks
- Task grouping
- Picking and Dispatch list generation

Kitting/ Dekitting

- BOM based kitting
- Kit to order and kit to stock features

Wave Management

- Wave scheduling based on items and zones
- Configurable logic for scheduling based on user defined parameters like shipment plan, batch no., lot no., etc.

Material Sorting

- Consolidated picking from warehouse
- Sorting of material based on different orders
- Enhance picker productivity
- Effective utilization of aisle space

Shipment Management

- Shipment plan creation
- Vehicle tagging with shipment plan

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Inventory Management

Inventory Planning & Monitoring

- Inventory planning
- Accurate item placement
- Inventory traceability
- Inventory relocation

Real-Time Tracking

- Real-time data capturing during inbound & outbound
- Real-time data capture from HHT & Web

Barcoding/ Serial/Lot/Batch

- Inventory tracking based on scannable bar codes, serial no., lot no., and batch no.
- Granular level tracking of Items in warehouse

Inventory Audit

- Inventory reconciliation – System vs Actual
- Inventory adjustment based on cycle count
- Cycle count based on zone/location/product

Alert Management

- System driven alert management
- Email and SMS based alert mechanism
- Real-time alerts based on configuration

Reporting & Analytics

- Static reports
- Automatically scheduling of reports to get data at regular interval
- BI analytical dashboard with KPIs

Configuration Management

SKU/Batch Mixing

- UI configuration to allow SKU / batch mixing during putaway
- Manage multiple SKUs in same storage bin, storage optimization

Inventory Rotation Methods

- Different inventory methods- FIFO, LIFO, EEFO(First Expiry First Out) & FMFO(First Manufacturing First Out)

Putaway & Picking Algorithm

- Configurable putaway rules at item level, system suggested locations during putaway
- Rules based on volume, color, origin, region, size, QC conditions etc.

UOM Management

- Custom UOM management
- 5 Levels of UOM/packaging configuration – Container > Cases > Pallets > Boxes > Each
- Receiving & Picking at any config UOM level

Internationalization

- Multiple languages, time & currency support

Integration Layer

- APIs based integration across systems- ERP, MES, LMS etc.
- EDI and FTP based data exchange is also available

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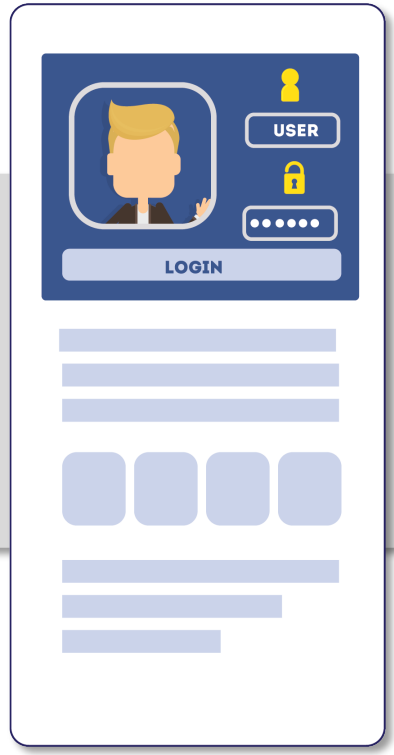
Core Features

Access Control

- **Role based accessibility** of screens
- **Granular level access** - user group, visibility group, screen access, etc.

Configurable User Profile

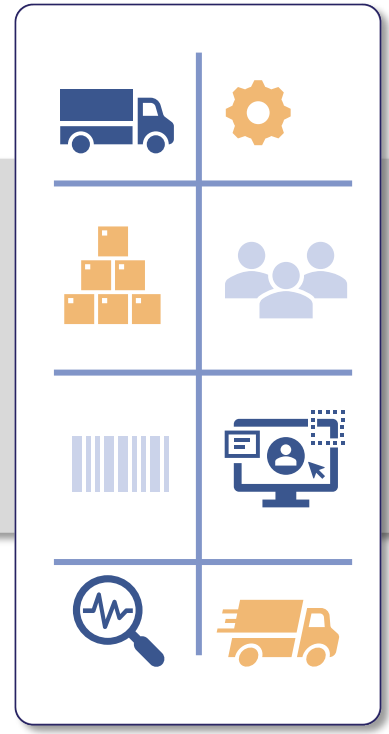


- **User creation** and profile management
- **Skills definition** at user level
- **User group** for different warehouse access
- **Roles** based on business need

Warehouse Design & BOM Management

- **Extensive hierarchy mapping-** company to storage bin
- **Multiple warehouse management** with zones, locations, and mapping
- **BOM** - Maintaining versioning of child parts, BOM directed kitting

HHT Application



- Different **inbound & outbound operations** using HHT
- **Fast and quick action** performed by warehouse operators
- **Android** based application

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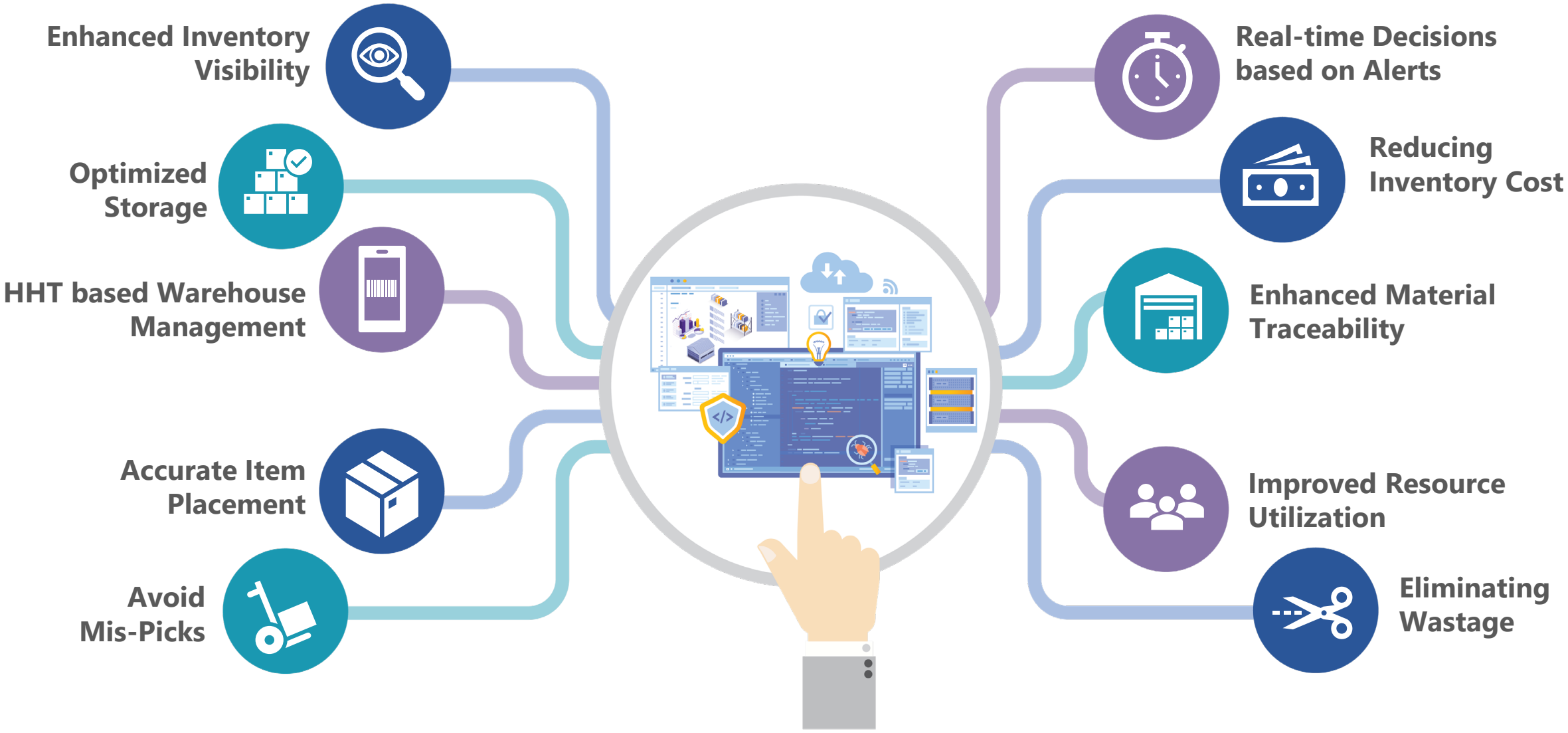
Key Benefits



Value Proposition Manage-I

Web Based/ Cloud Ready Solution

Multi-tenant Capabilities

Industry Best Practices Templates

Configurable Workflow

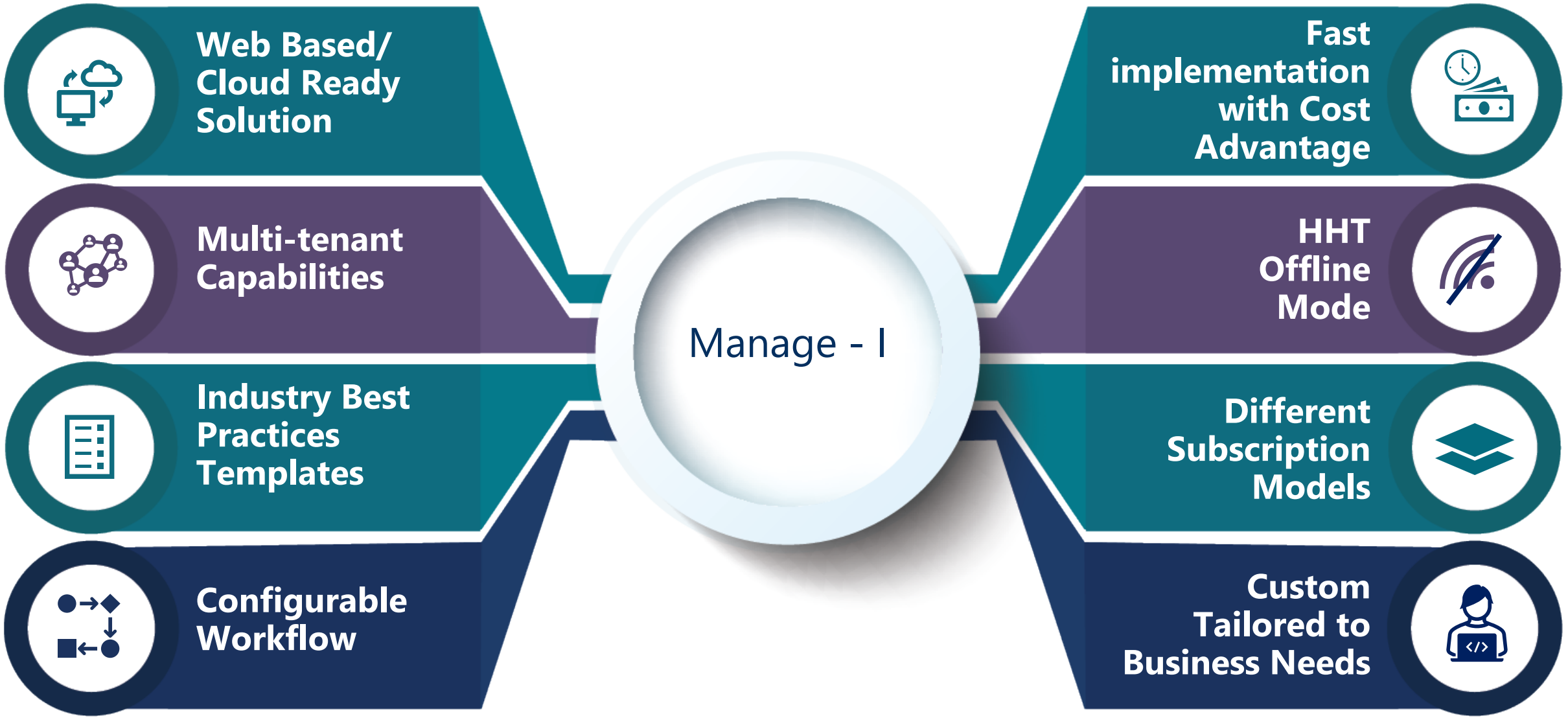
Fast implementation with Cost Advantage

HHT Offline Mode

Different Subscription Models

Custom Tailored to Business Need

Value Proposition



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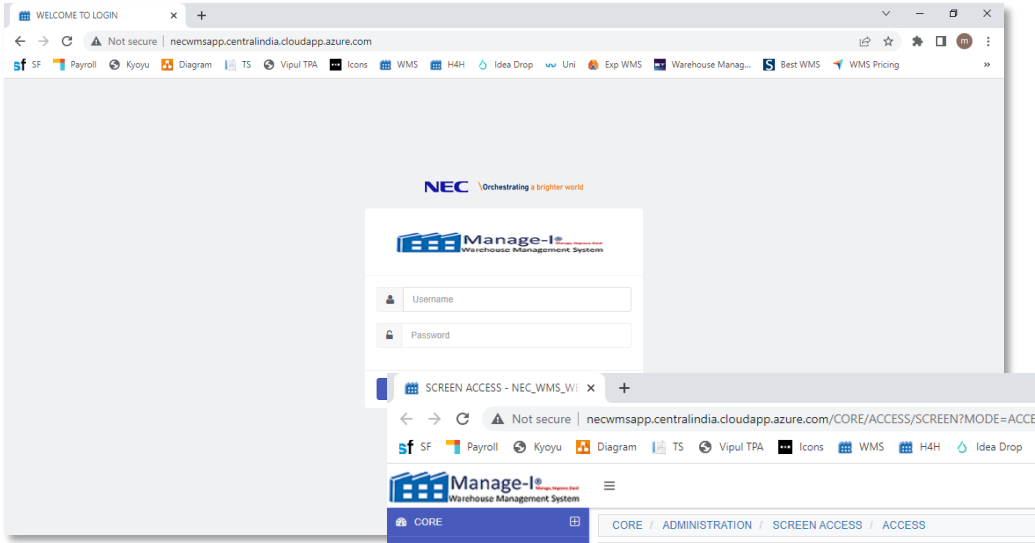
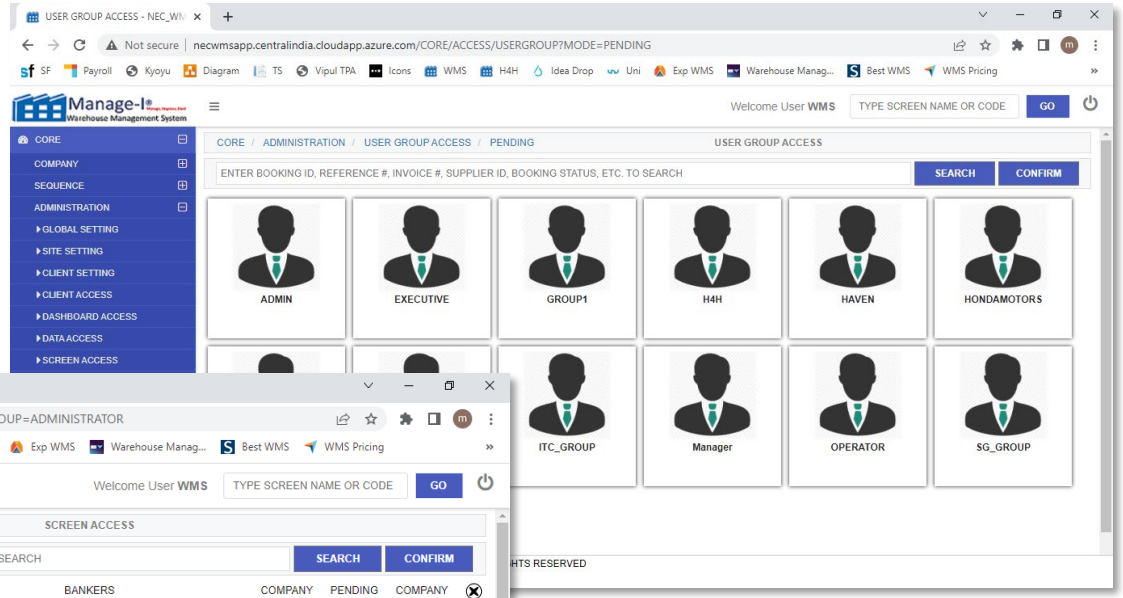
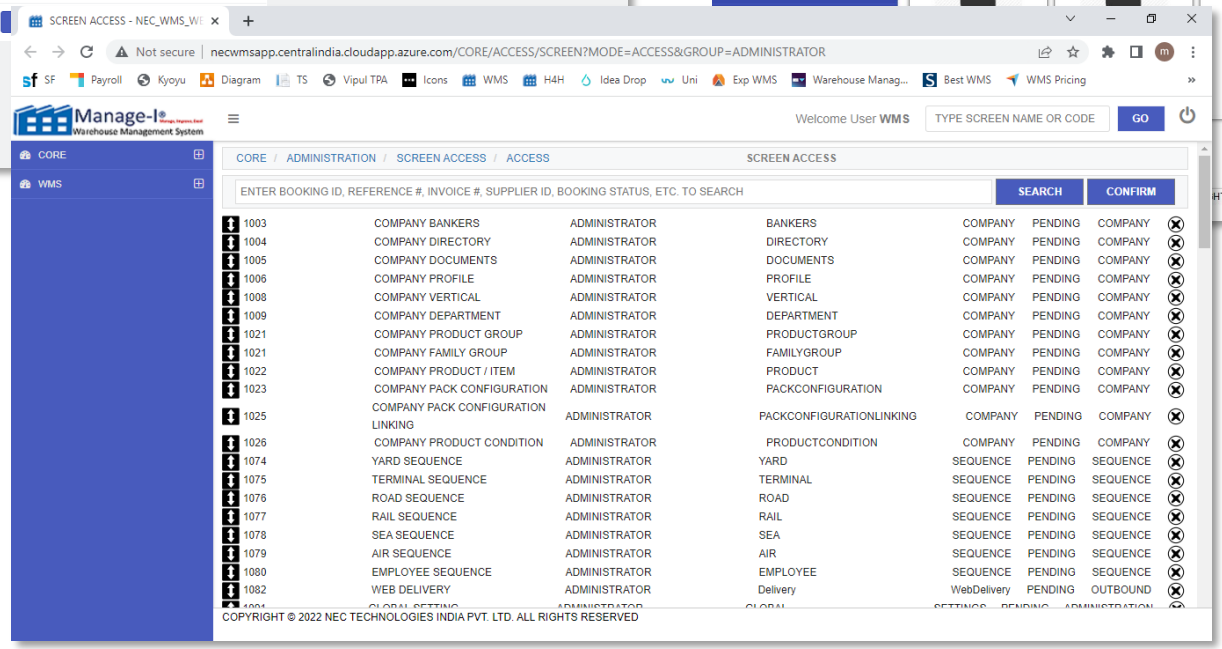
System Live View

Login Screen



User Group Screen

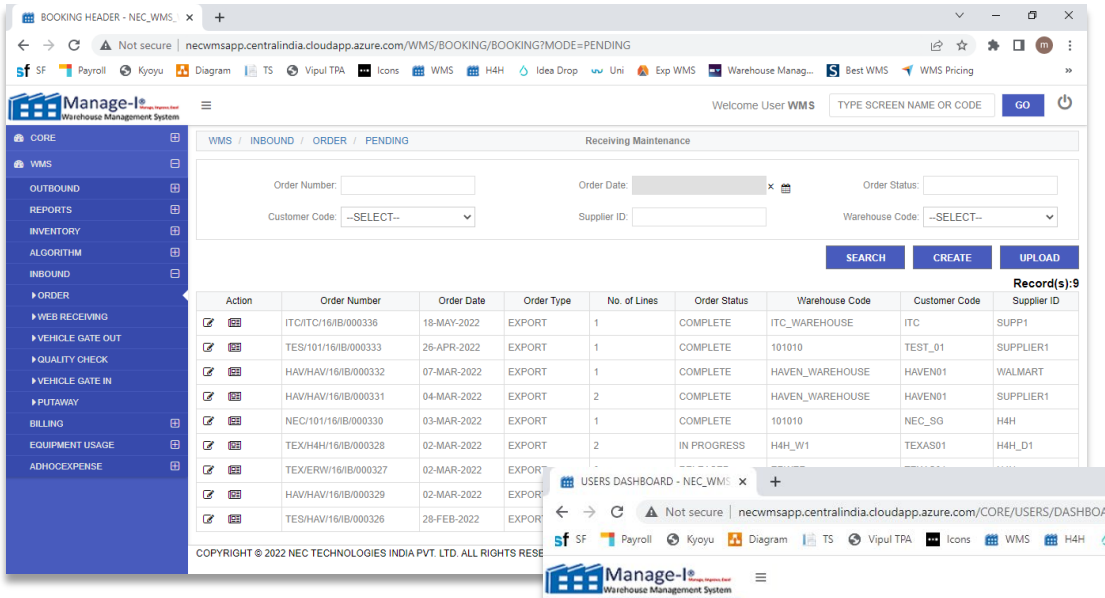




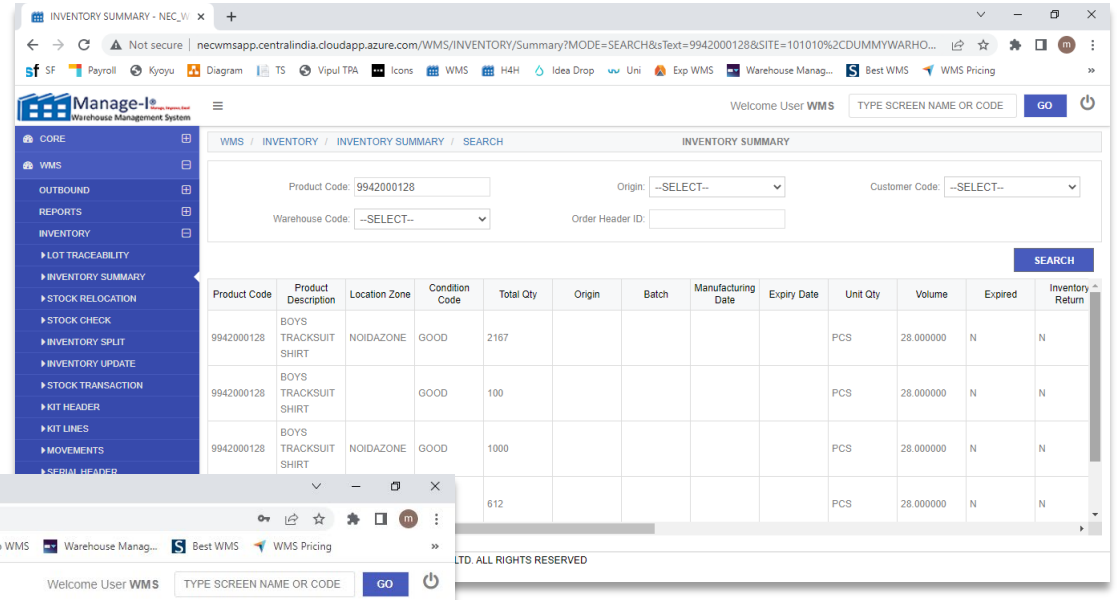
Screen Access

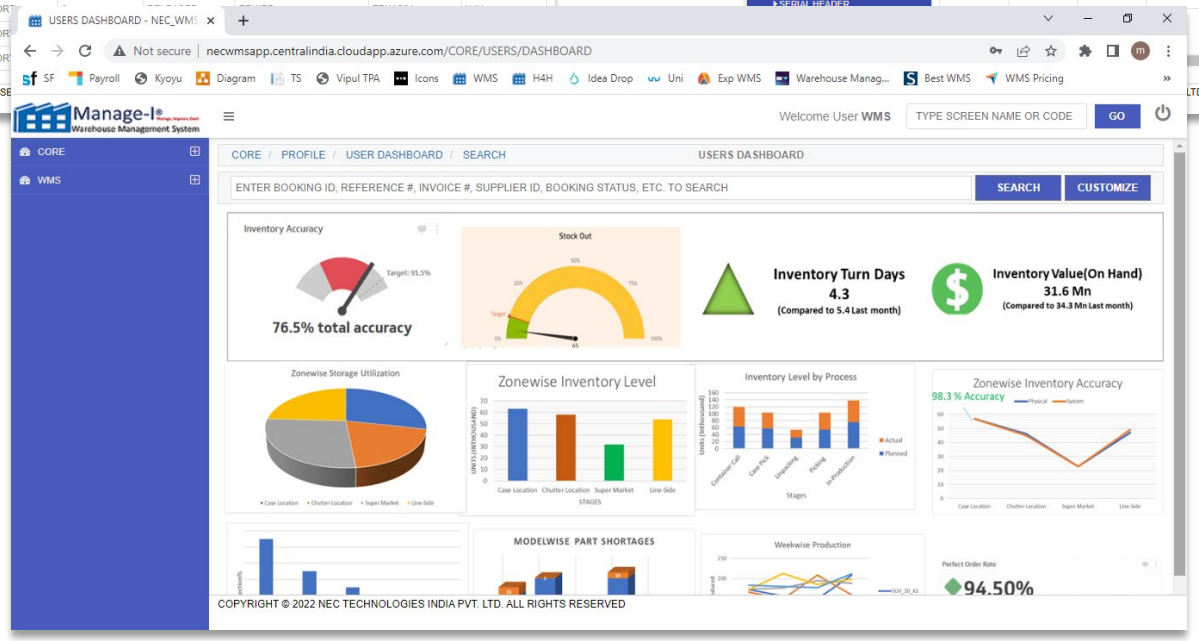
System Live View

Inbound Order Screen



Inventory Summary Report





User Dashboard

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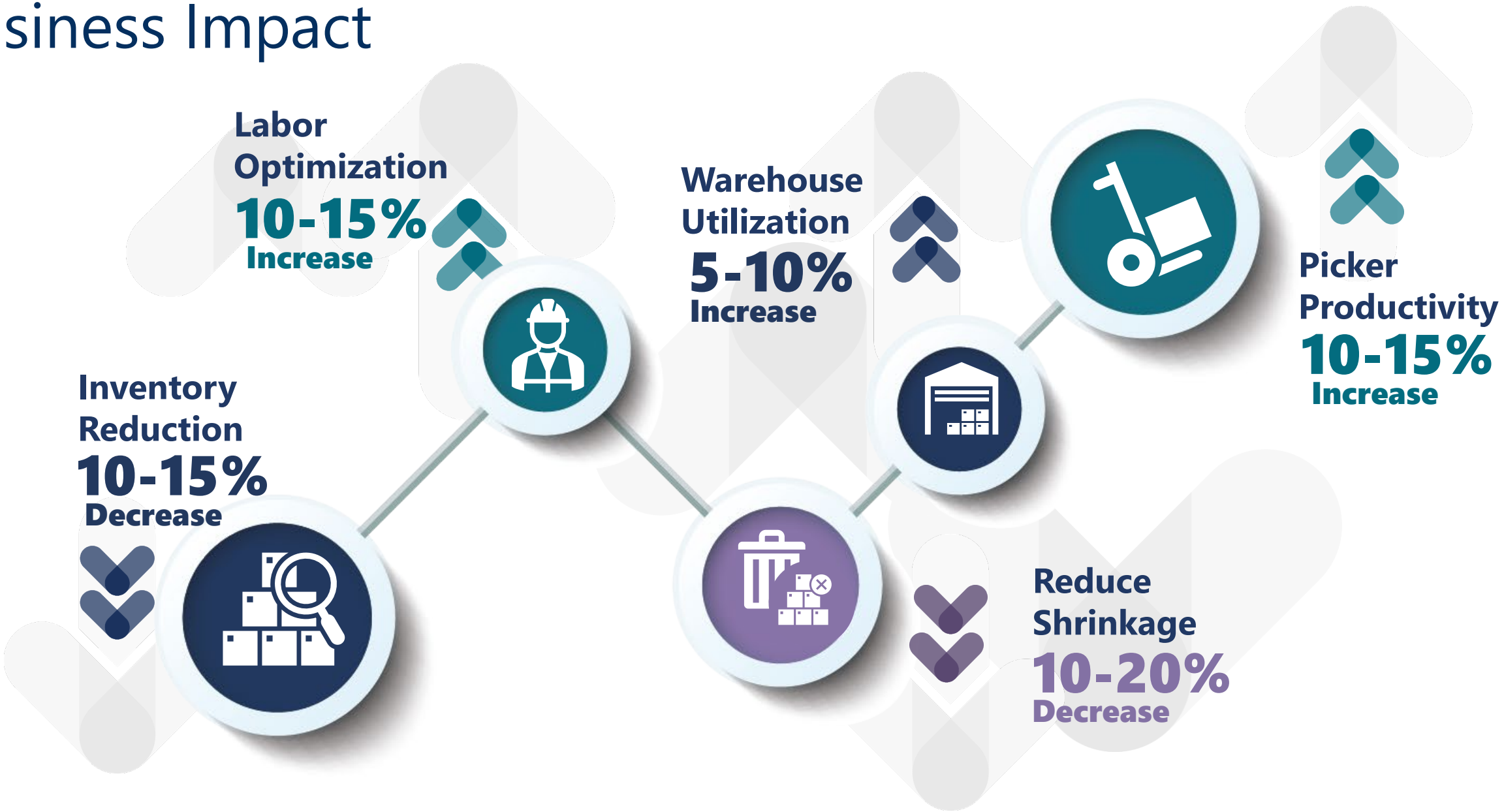
Business Impact



*Impact is calculated based on existing customers, it could be defer from business to business and process to process

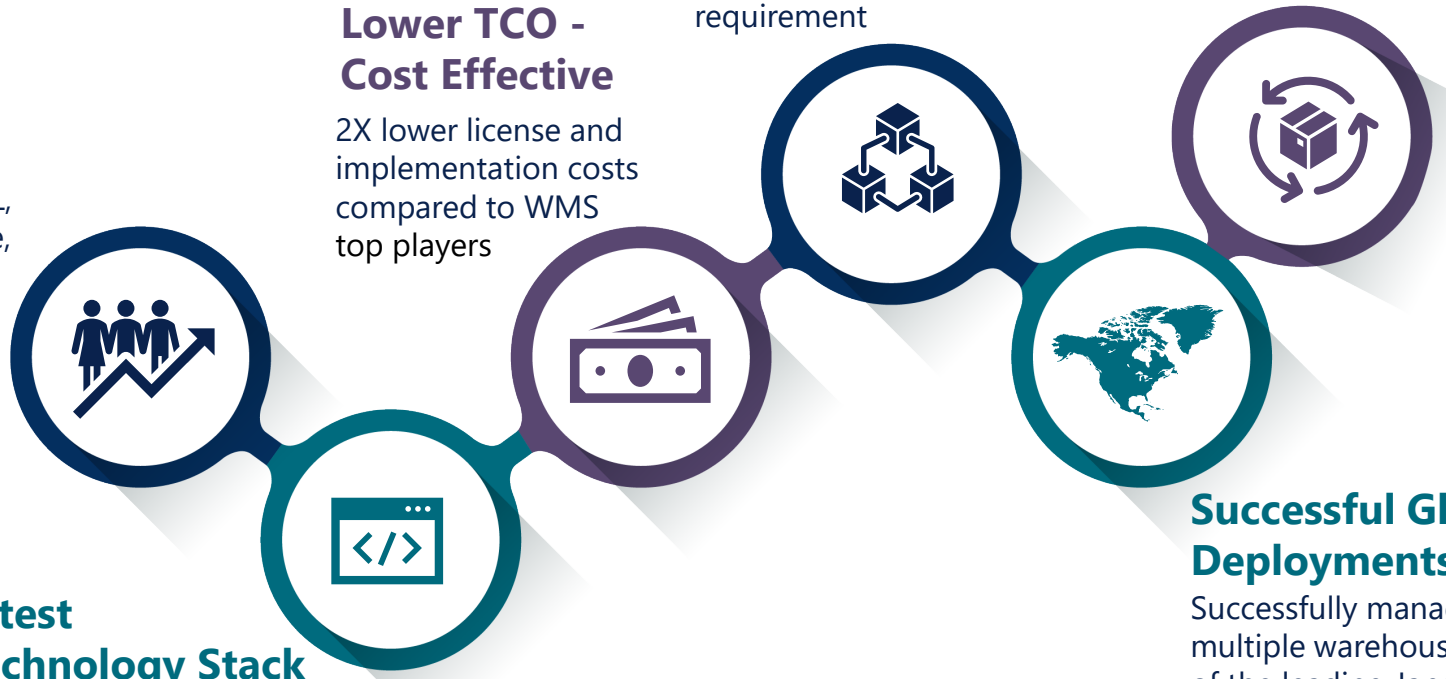
Why Manage-I?

Flexible, customizable Warehouse Management System,
with simple user interface and features, on-prem/cloud-based solution that scales with your business needs

Wide Industry Coverage
Caters all industries like 3PL, Manufacturing, Automotive, Retail, FMCG, Electronics, Pharmaceutical etc.

Lower TCO - Cost Effective
2X lower license and implementation costs compared to WMS top players

Highly Customizable
to meet specific business requirement



Flexible Deployment Strategies
On-Premise, SaaS based along with different subscription models

Latest Technology Stack
Latest & robust technologies like .Net framework, Angular, JQuery, MS SQL, Jenkins etc.

Successful Global Deployments
Successfully manages multiple warehouses of one of the leading Japanese car manufacturer in the world

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NEC creates the social values of safety, security, fairness and efficiency to promote a more sustainable world where everyone has the chance to reach their full potential.