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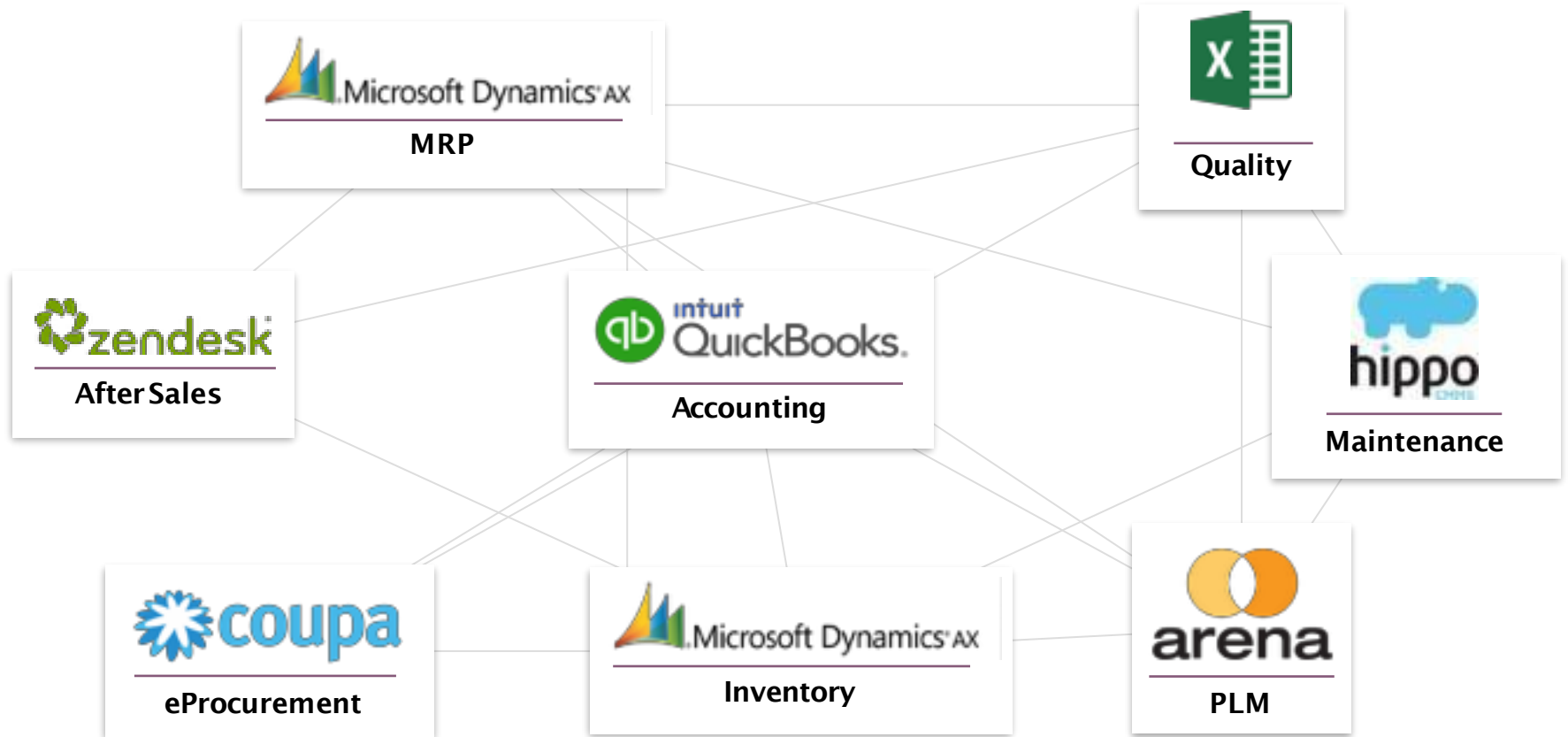


**MRP, PLM, Quality & Maintenance**  
Together at last!

A man with a beard and short hair is shown in profile, focused on his work. He is wearing a light-colored sweater and is seated at a desk, typing on a laptop. The background is a blurred industrial or office environment, suggesting a manufacturing or technical setting. The overall tone is professional and focused.

The average manufacturer might use as many as 10 different applications to run their business.

# A typical IT stack.





Planning &  
Scheduling



Procurement



Logistics



Quality



Production  
Controlling



Maintenance  
Management



Industrial  
Engineering



Asset  
Management



IT

Integrating different  
platforms is  
expensive, time consuming,  
and inefficient.

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Next Generation MRP Software

- 1 Manufacturing (MPS, Time clocking, MO)
- 2 Maintenance (request, MTBF)
- 3 PLM (ECO, approvals)
- 4 Quality (checks, controls)
- 5 Reports

# Keep IT Simple



# Plan

## **Automate scheduling:**

- Master Production Schedule (MPS)
- Minimum Stock Rules
- Make-to-Order

## **Manage planning:**

- Gantt Chart
- Capacity planning and adjustments



# Create MOs directly from the MPS

**Manufacturing** Dashboard Operations Planning Master Data Reporting Configuration

Master Production Schedule

SAVE DISCARD

Ice Cream by kg	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Starting Inventory	10.00	45.00	45.00	45.00	45.00	45.00
- Demand Forecast	50.00	40.00	50.00	30.00	50.00	50.00
- Indirect Demand	0.00	0.00	0.00	0.00	0.00	0.00
+ To Produce	30.00	40.00	30.00	30.00	50.00	30.00
= Forecasted Inventory	45.00	45.00	45.00	45.00	45.00	45.00

Air Flight by unit(s)	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Starting Inventory	10.00	24.00	24.00	24.00	24.00	24.00
- Demand Forecast	10.00	10.00	40.00	30.00	40.00	30.00
- Indirect Demand	0.00	0.00	0.00	0.00	0.00	0.00
+ To Produce	24.00	30.00	40.00	30.00	30.00	30.00
= Forecasted Inventory	24.00	24.00	24.00	24.00	24.00	24.00

# Operation Durations

## Set time manually:

(industry standard)

- Requires time clocking every operation
- Static, does not evolve with the process

## Compute real times:

(Odo innovation)

- No time clocking needed, evolve with the process
- Based on average & standard deviation

Operation

Manual Assembly

Work Center

Assembly Station 1

Duration Computation

Compute based on real time

Set duration manually

Based on

last 10 work orders

Default Duration

60:00 minutes

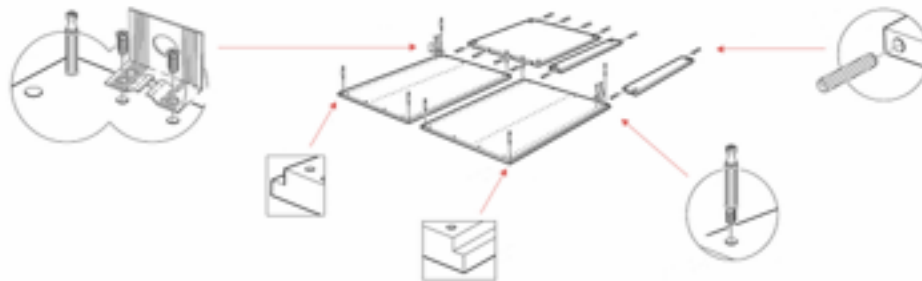
# Workcenter Control Panel

MO/00001 / Work Orders / Manual Assembly 2/4 < >

RECORD PRODUCTION INUSE BLOCK SCRAP QUALITY ALERT MAINTENANCE REQUEST

To Produce **[PURN001] Computer Desk**  
Quantity Produced 6/30 / 1,000 Unit(s) **Waiting Materials**

CURRENT PRODUCTION **WORK INSTRUCTION** TIME TRACKING MISCELLANEOUS



The diagram shows an exploded view of a computer desk assembly. Red lines connect various components to their respective callout images: a desk leg, a desk panel, a desk top, a desk base, a desk drawer, a desk handle, and a desk screw. The callout images show the components and tools in a 3D perspective view.

- ✓ TrackTime
- ✓ DisplayWorksheets
- ✓ Register Production
- ✓ Integrate Quality checks
- ✓ In Process Alerts
- ✓ Record Serial/lot number

# Manufacturing

## Record work operations on tablets:

- Record productions
- Display worksheets
- Time tracking
- Quality control
- Barcode support
- Trigger issues

A worker triggers a  
quality alert





Maintenance Requests

# Engineering Change Orders

## Approvals:

(manufacturing orders)

- By role
- Comment or blocking

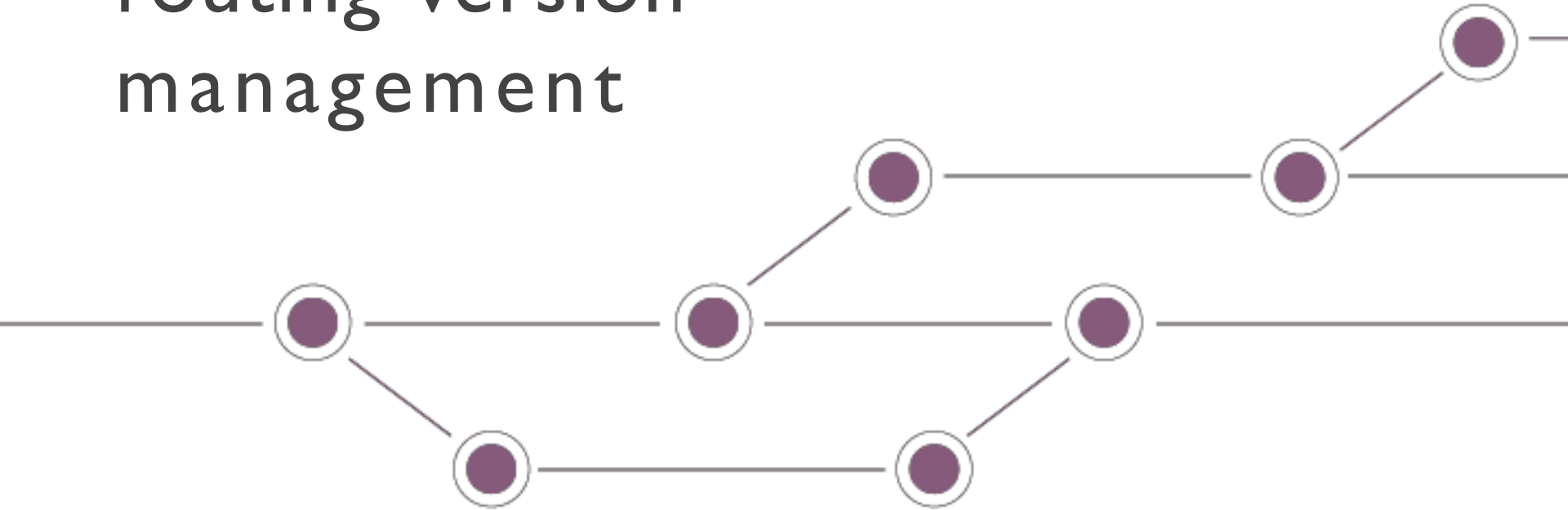
## Customizable workflow

- NPI
- Worksheet updates

## Deploy easily

- Versioning
- Trigger alerts for the manufacturing (next MO)

# Efficient BoM and routing version management





# Quality Control Plan

## Checks at:

- Intake
- In-process
- Post-process

## Communicate efficiently

- Send Alerts to Workers
- At Inventory & manufacturing level

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Next Generation MRP Software

# And great reports...

## MRP

- Costing
- Traceability
- Time Tracking
- Inventory Forecast

## Maintenance

- Overall Equipment Efficiency
- Mean Time Before Failure
- Mean Time to Repair

## Quality

- Statistical Process Control
- Root Cause Analysis
- APQP
- PMEA

## PLM

- ECO Statistics
- Versions Control (e/m-BoM)

# OEE

Overall Equipment Effectiveness	Recommended Six Big Losses
Availability Loss	Unplanned Stops Planned Stops
Performance Loss	Small Stops Slow Cycles
Quality Loss	Production Rejects Startup Rejects
OEE	Fully Productive Time



Recorded from  
operations on  
the work center  
Tablet

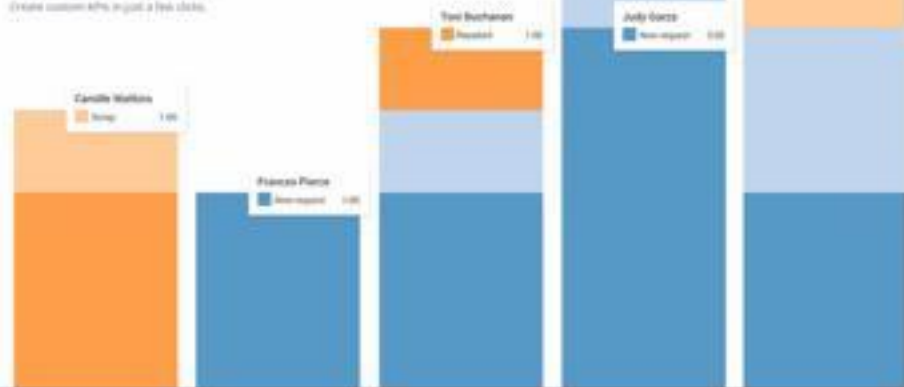
## Dashboard & Statistics

to optimize your performance.

Use automatically computed statistics including MTBF and MTTR to fine tune your preventive maintenance rules and reduce the risk of equipment failure.

Track performance using the dashboard.

Create custom KPIs or just a few charts.





# Used and Loved By



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Thank you for your attention