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EFI



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Inventory & Stock Control

- What is it and how does ERP/MIS help?



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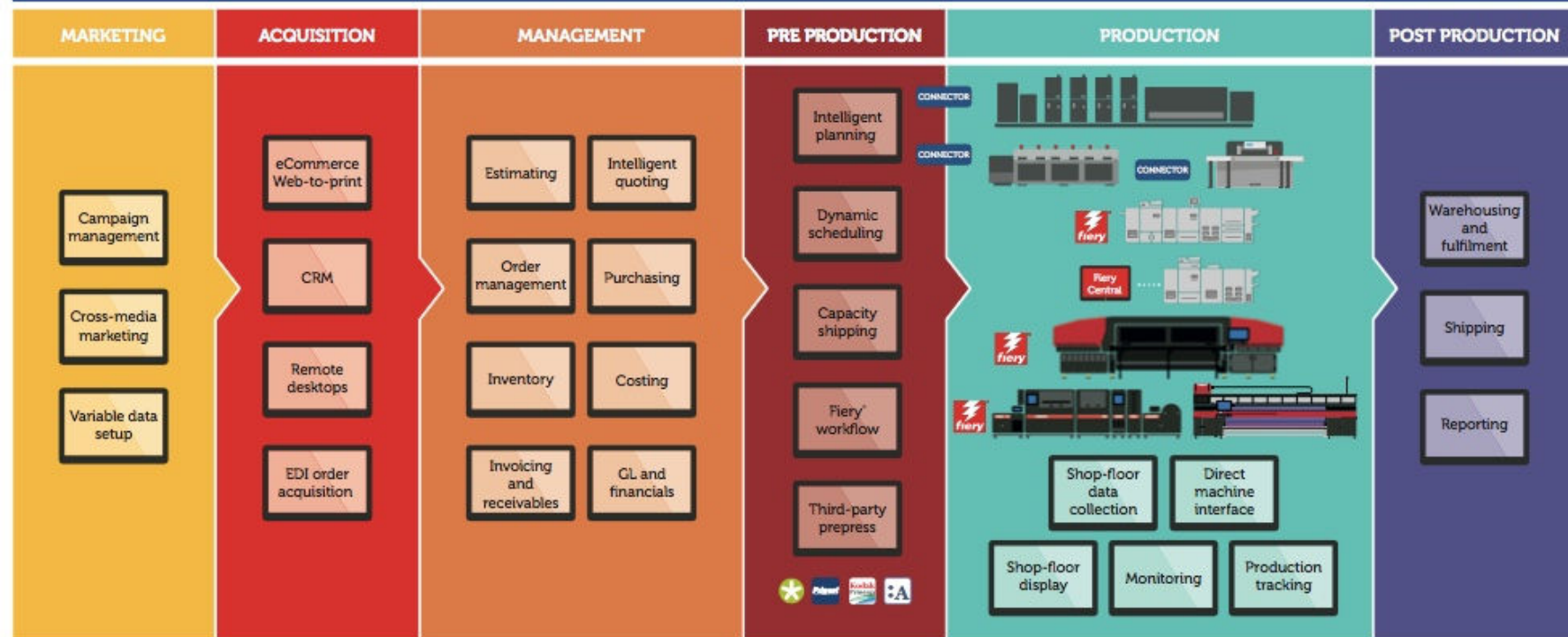
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The Ecosystem



Automated – Scalable – End to End Solutions

EFI™ JOURNEY OF A JOB



Inventory

A stock of items – goods and materials - held to meet future demand



Raw Materials – Work in Progress - Finished Goods – Tools – Supplies



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Inventory Management

Inventory costs: 25-30% of the total cost of the inventory itself

Managing Inventory:

Variations in Demand

- Meet order dates
- Seasonal and cyclical demand
- Forecasting / MRP

Pricing

- Temporary discounts
- Hedging against increases
- Quantity discounts

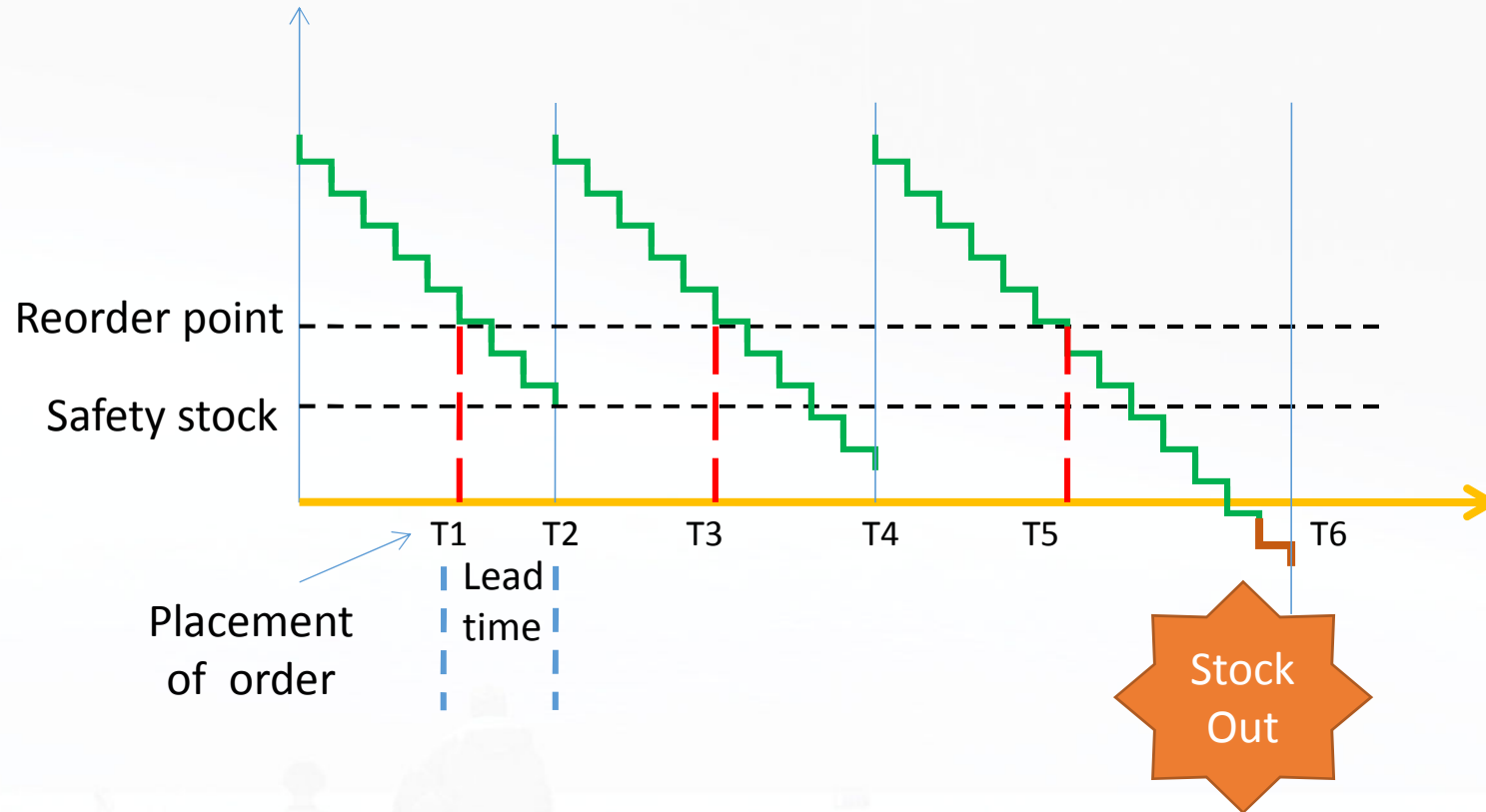
Process and Supply

- Internal: production issues
- External: delays in incoming goods



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Objective: Trying to stop this!



Responsibility of Multiple Departments:
Purchasing – Finance – Operations



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Successful Inventory Management

1

Maintain a optimum size of inventory for efficient and smooth production and sales operations.

2

Maintain a minimum investment/sufficient stock in inventories to maximize the profitability while still being responsive.

3

Place an order at the **right time** with **right source** to acquire the **right quantity** at the **right price** and **right quality**

- Minimize the carrying cost and time
- Control investment



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Inventory Management in ERP/MIS

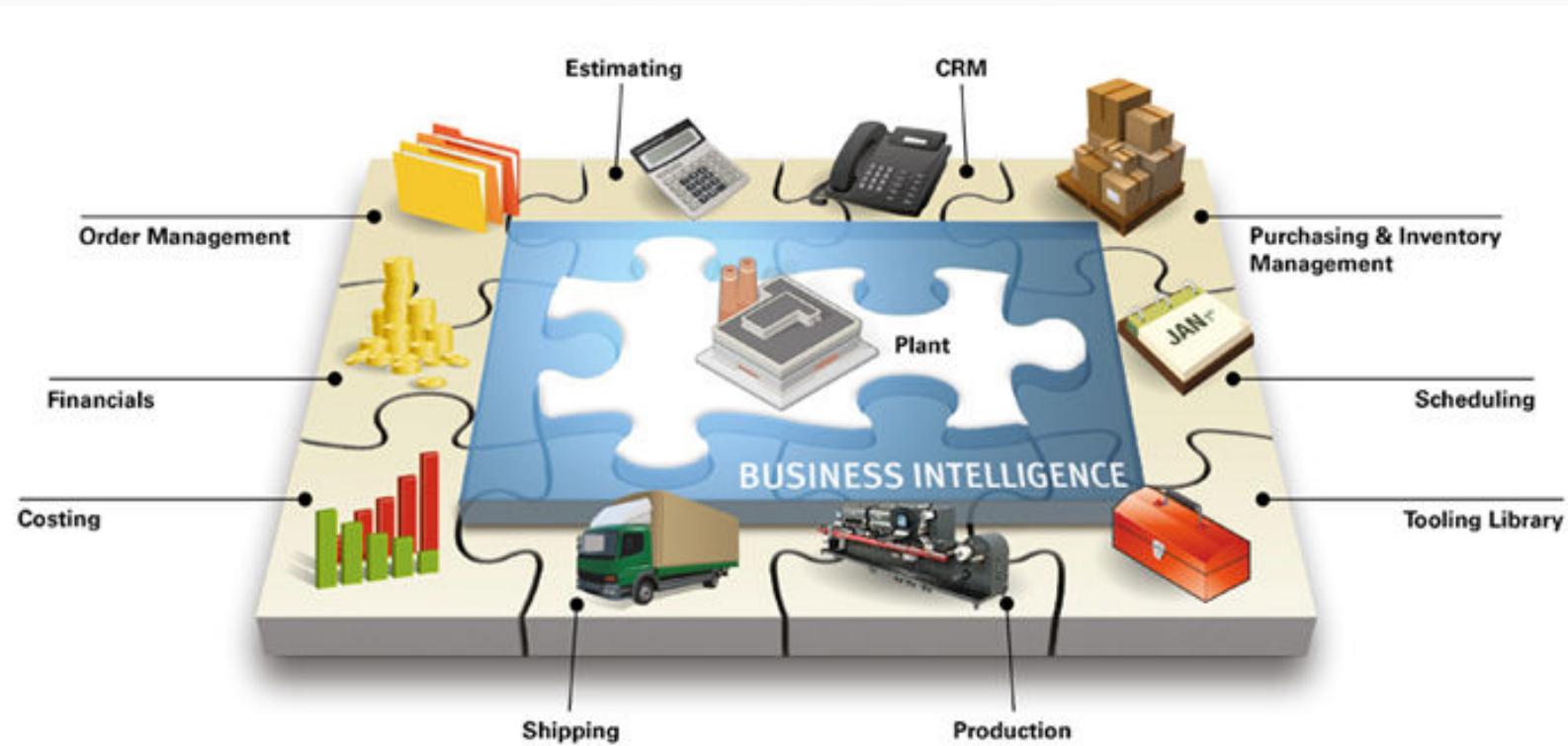


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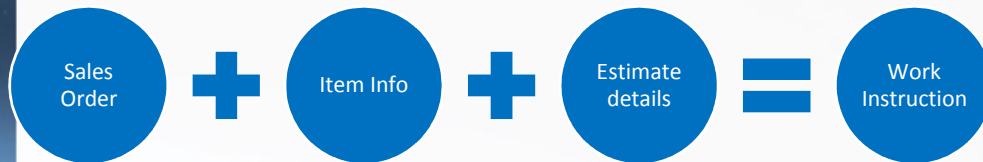
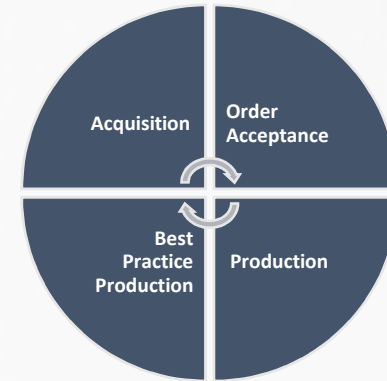
MIS/ERP Integration



Automation is key!



ERP Workflow



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Raw Material Inventory

- Measuring real-time status:

- Quantity
- Value
- Status
- Location



- Good: Allocate materials to a job
- GREAT: Manage inventory in the upstream supply-chain: “Free Stock Planning”



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Free Stock Planning

1. Links to the job/shipment schedule
2. Facilitates JIT delivery through the supply chain
3. Identifies inventory status: in stock or on its way via a confirmed purchase order
4. Identifies what will need to be ordered to meet current demand

Purchase Requirements x

Paper and Board Purch Issue Job: Job status: Sales Order: Search

Item: Status: Active/Open Only From Free Stock'

Line	Description	Item	Size	Action By	Have Ready Date	Start Date	Status	Unit	Required	Unplanned
0	Production Job: 111641	HR-FreeStk1	24mm (.9449in)	01/12/15	01/12/15	01/12/15	Free Stock Planned	KGS	3.225	0.000
0	Production Job: 6100671	HR-FreeStk1	24mm (.9449in)	16/05/16	16/05/16		Free Stock Unplanned	KGS	3.225	3.225
0	Production Job: 111617	HR-FreeStk2	24mm (.9449in)	31/08/15	31/08/15		Free Stock Planned	KGS	3.225	0.000
0	Production Job: 111618	HR-FreeStk2	24mm (.9449in)	07/09/15	07/09/15		Free Stock Planned	KGS	3.225	0.000
0	Production Job: 111619	HR-FreeStk2	24mm (.9449in)	14/09/15	14/09/15		Free Stock Planned	KGS	3.225	0.000
0	Production Job: 99520	HR-Green3	100mm (3.937in)	05/05/13	05/05/13		Free Stock Inventory	KGS	77.300	0.000
0	Production Job: 111611	S/FBB/FC/350	600x400mm (23.622)	17/08/15	17/08/15		Free Stock Unplanned	SHEETS	50	50

Requirement Reserved Inv Reserved PO Reserved Job Available Inv Available PO Available Job Item Balances

Item: HR-FreeStk2 Available Sizes: 24mm (.9449in)

Description: HR-FreeStk2

Alternative: Description:

Last planning run: 08/12/16 Quantities Values References Free Stock

	Total	Planned	Available	Quarantined
In inventory:	0.000	0.000	0.000	0.000
On order:	16.000	9.675	6.325	Requirements
In production:	0.000	0.000	0.000	0.000

European Labels Plant 1



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Warehouse Management

- Managing the location, picking and put away of inventory
- Guiding warehouse staff to be able to do their jobs in the most efficient manner
- Ensuring the safekeeping of valuable inventory
- Identifying and managing inventory turnover and age



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Tracking: Barcodes

- Ability to match end customer requirements
- Rich with coded information
- Facilitates movement of goods through systems
- Human readable text



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Traceability

Trace an end product back to the batch of materials and then to all job produced from that batch job

Basic

- Recording of each roll consumed on a job

Advanced

- Tracking of each stage of production Batch level traceability
- Tracing of part finished inventory



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Automation: Integrated to Costing and Financials

- Value of inventory should move through the process and automatically post to the correct ledger
- When consumed on a job, it should also update the job costing with the value, quantity



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Comprehensive Reporting

- Financial reporting
- Picking Lists
- Inventory valuation
- Inventory cycle count sheets
- Barcoded labels

Stock Pull Report

Date/Time Printed : 7/25/2011 2:21:48PM

Customer : TEST CORPORATION INC.
 Project : Literature Catalog (Picking Rules: Pick Method-Start DPL and rest in Loc Alpha Order, Skid Pick Method-None / Default Skid Id, Carton Opening-Use Loose First)
 Ref Batch : 1245 Job # : 43672

Item #	Inv. Code	Description	Color / Size	Location	Order Qty	Avail Qty	Stock Loc.	Avail Qty
1000	1000	CARD	1 1 1	1 1 1	5	149,367		
1070	1070	BRD 1	1 1 1	1 1 1	5	7,100		
1071	1071	ENV1	1 1 1	1 1 1	5	1,010,173		
1070	FG-001	Finished Goods Item #1 (Picking)	1 1 1	1 1 1	25	75,572		
2374	PO # 1	Purchase Order Forms (Packs of 200)	8.5 x 11 - 2 Color	1 1 1	1	101,408		
2375	INV # 1	Invoice Form						
1091	1091	ENV WING						
1110	LTR-1	Letter with						
1102	INS-0001 9-10	Gardening						

3131

Customer # : 1000
TEST CORPORATION INC.

Item # :
1110

Inventory Code/Description
LTR-1
 Letter with Blue Logo - PO Box 123, New York
 Version 1.20, Board in 500's

Location
W1-01-P-4

Lot	Cartons	Inv. Code	Location	Total
0	2	1110-01	0.00	5000.00

efi print to win.

Buy To :
GAVIN CHAPMAN
 NEW TEST CORPORATION
 80 Walnut Blvd
 SAN RAMON, CA 94583
 UNITED STATES

Phone : 475490000
 Fax :
 Email : gcm@newtest.com
 Comments :

Order Type :
 Order Date :

Product #	Inv. Code	Description	Order Size
2374	PO #1	Purchase Order Forms (Packs of 200)	8.5 x 11 - 2 Color / Board
2375	INV #1	Invoice Forms	8.5 x 11 - 2 Color / Board
1070	FG-001	Finished Goods Item #1 (Picking)	
1102	INS-0001 9-10	Gardening Special Insert	
1110	LTR-1	Letter with Blue Logo - PO Box 123, New York	Version 1.20, Board in 500's
1091	ENV WING	ENV WING	
1000	1000	CARD	
1070	1070	BRD 1	
1071	1071	ENV1	
1091	1091	ENV WING	



Related Areas

Current and future trends

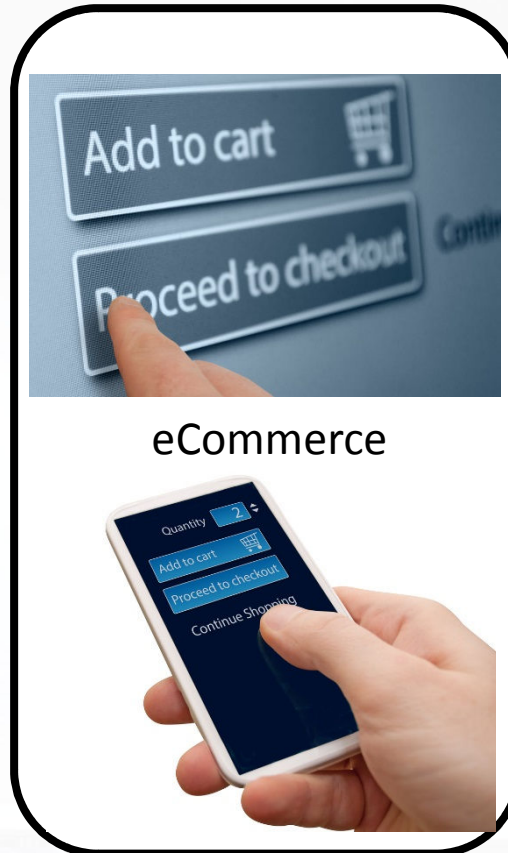


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Current and Future Trends



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Automation – The Robots are Coming!

Packaging Suite

Labels – Tags – Flexibles – Folding Carton

New Revenue Generation

- Cross Media Marketing
- eCommerce / W2P
- Customer Relationship Management

Efficiency & Profitability

- Dynamic Intelligent Estimating and Planning*
- Global Resource Scheduling
- Optimized Layout & Planning
- Business Intelligence

Production

- Shop Floor Data Management
- Direct Machine Interface
- Shipping & Transportation
- Digital Inkjet DFE & Job Mgmt



Pre-Production

- Imposition and Composition
- Prepress Integration

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Radius

**focus on planning*

Automated. Integrated. Scalable MIS/ERP Solution



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Thank you!

Questions?



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