Microsoft Dynamics NAV 2013

Warehouse Management Enhancements*

Brought to you by Microsoft Services

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Microsoft Partner Network

* Level Beginner to Intermediate

AGENDA

- Warehouse Management Overview
- Focus on Integration:
  - Base work – Enhancement of Integration to Manufacturing
  - Other Enhancement of Integration with Manufacturing
  - Assembly
  - Service
  - Visibility – Fact boxes
  - Item Tracking

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Warehouse Enhancements

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Overview

This feature helps ensure more accurate inventory, confidence in processes and stock with enhanced integration between Manufacturing and Warehouse Management, Service Management and Assembly Management.

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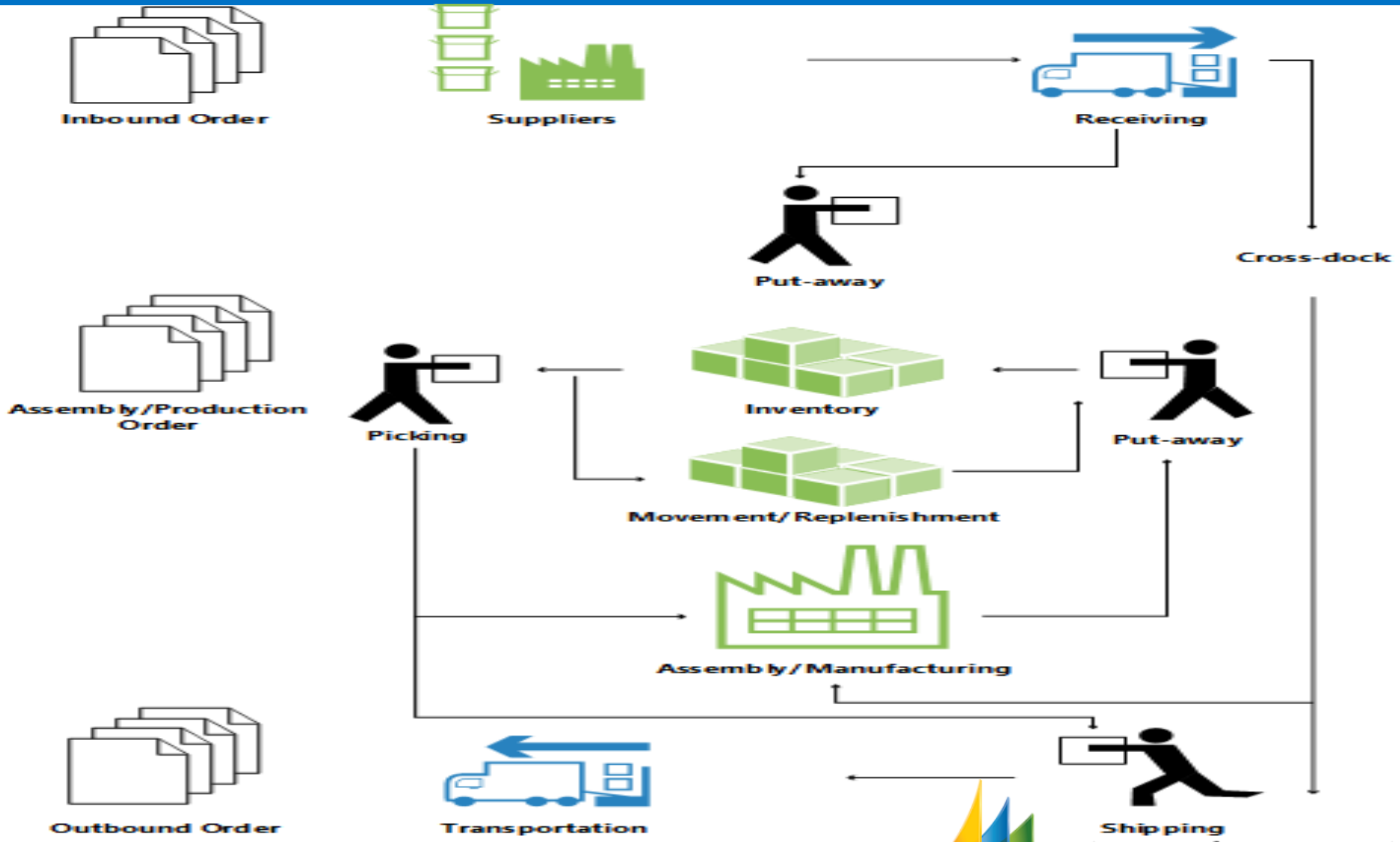
Warehouse Overview



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Focus on Integration

Base work – Enhancement of Integration to Manufacturing

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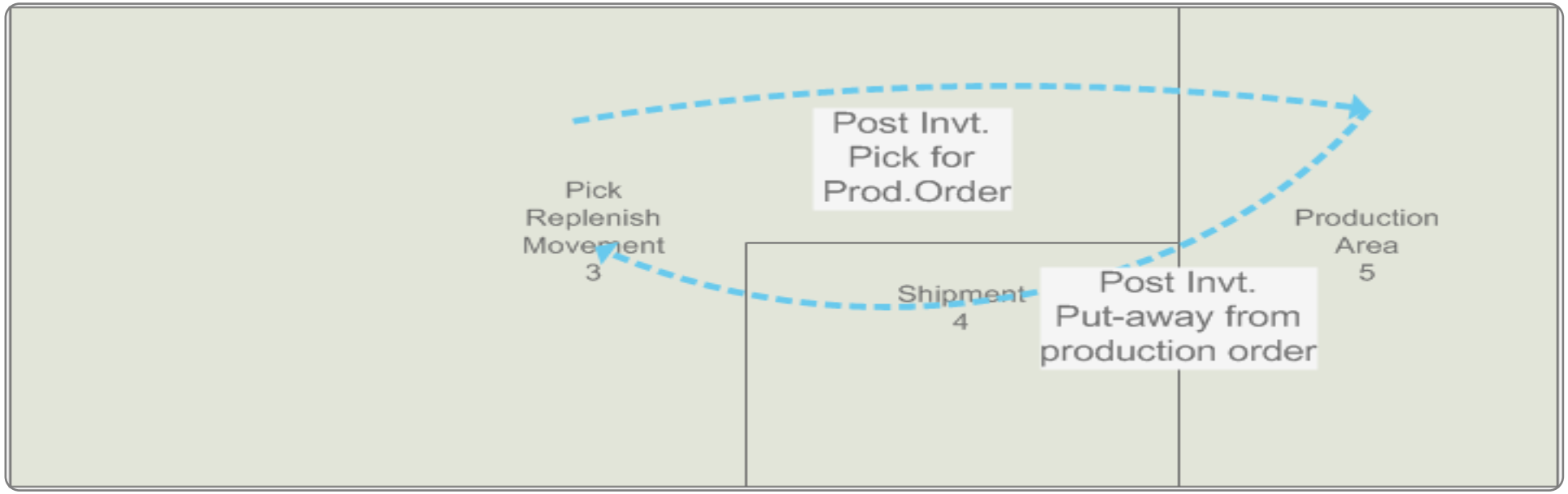
Pick to production - ...-2009 R2

- Location with Bin and Inventory Pick/Put-A.



☹ Mix of roles: Warehouse posts production consumption or Production registers warehouse activities

☹ Not able to set aside items for dedicated activities

☹ Not able to have a document for moveme

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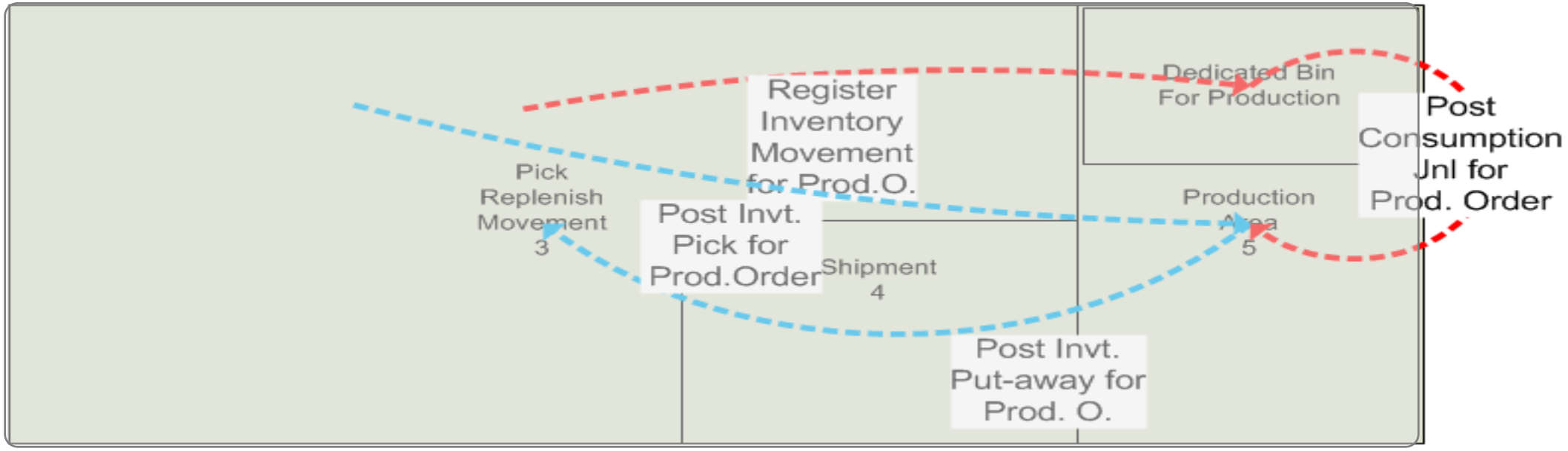
Pick or move to production NAV 2013

- Location with Bin and Inventory Pick/Put-A.



☺ No mix of roles; ☺ Ability to set aside items for dedicated activities

☺ **Invt. Movement** document available for planning and handling

☺ Process with existing Inventory pick "co-exists"

☹ Requires separate posting of Consumption

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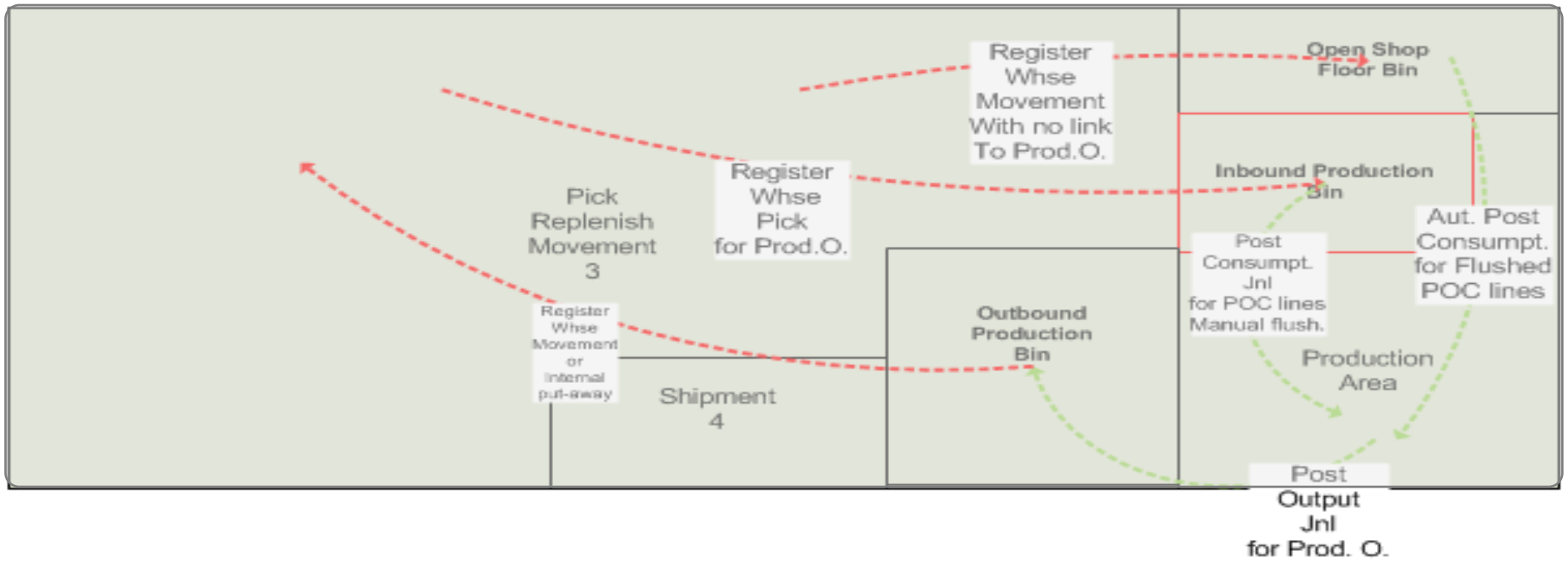
Pick to Production ….. – 2009 R2

- Location with WMS (directed Put-away & Pick)



☺ No mix of roles

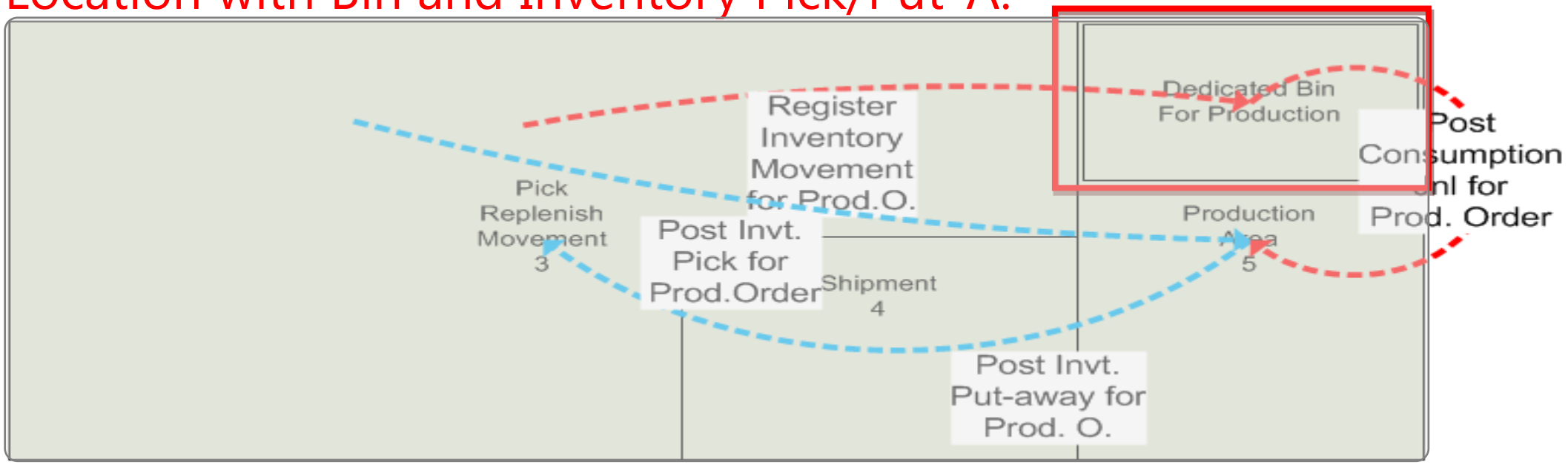
☺ Ability to set aside items for dedicated activities (POC lines)

☺ Bin Type Code (QA) takes items out of "Qty Available to Pick"

~~☹ Not able to over-pick and set aside~~

Pick or move to production NAV 2013

- Location with Bin and Inventory Pick/Put-A.



Dedicated: bin content is not available for pick

☺ Dedicated Bin boolean added to Bin and Bin Content

☹ Bin content is available for posting, e.g. Sales posting remove item from any dedicated bin...

☹ You can reserve items on a dedicated Bin...

NB: WMS – existing functionality: Bin Type Code takes items out of "Available to Pick Qty"

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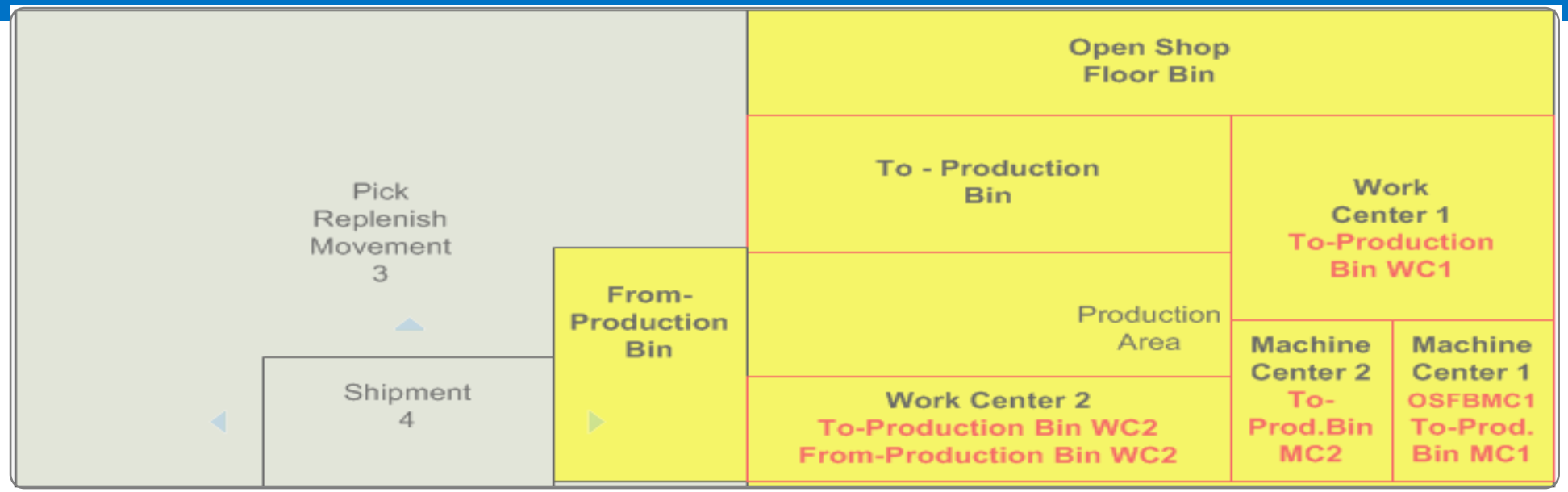
Defaulted Bin Structure



- **Default**: to fill the POC lines with indication to where place goods

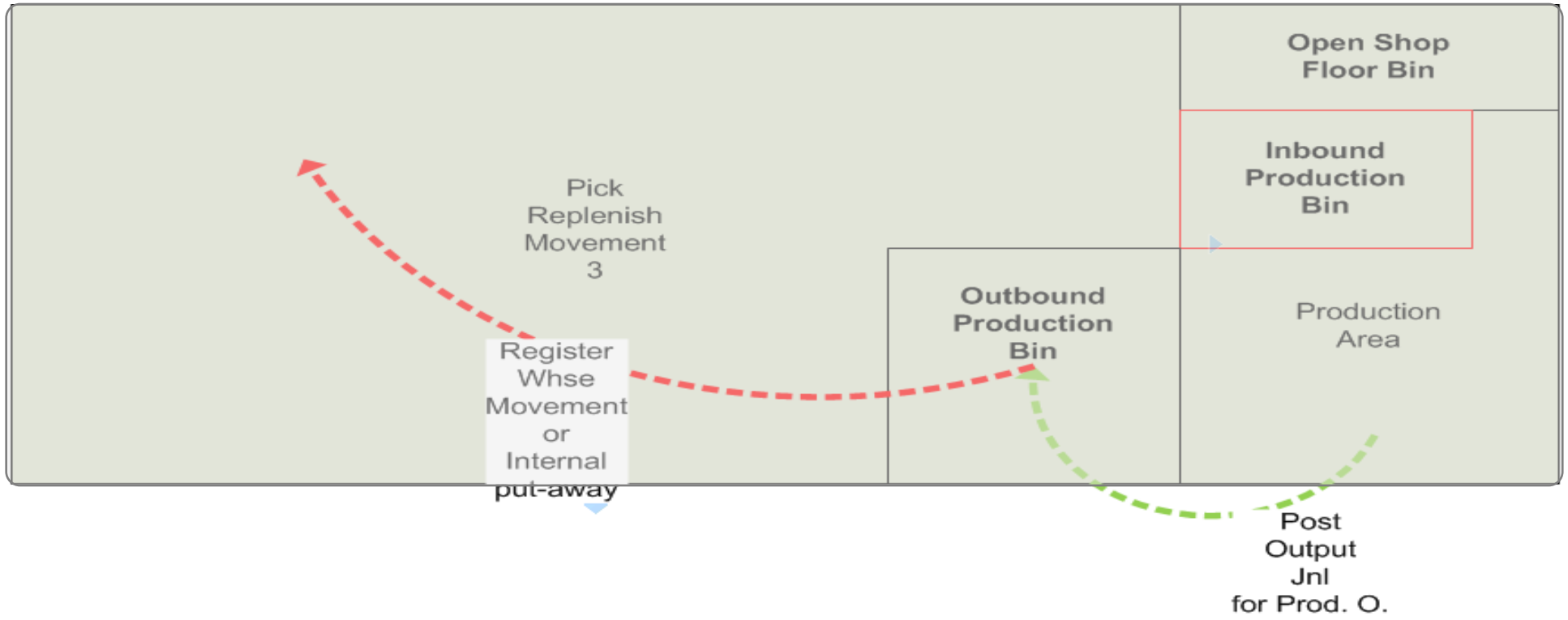
☺ Prioritized default for POC lines: Machine Center, Work Center, Location Card.

☺ For each Machine or Work Center a "To-Production", "From-Production", and an "Open Shop Floor Bin" can be assigned.

☺ Integration with routings: To-Production bin is for first operation, From-Production is for last operation, OSFB is for all automatic flushing and respects the Routing Link Code.

Output from Production NAV 2009

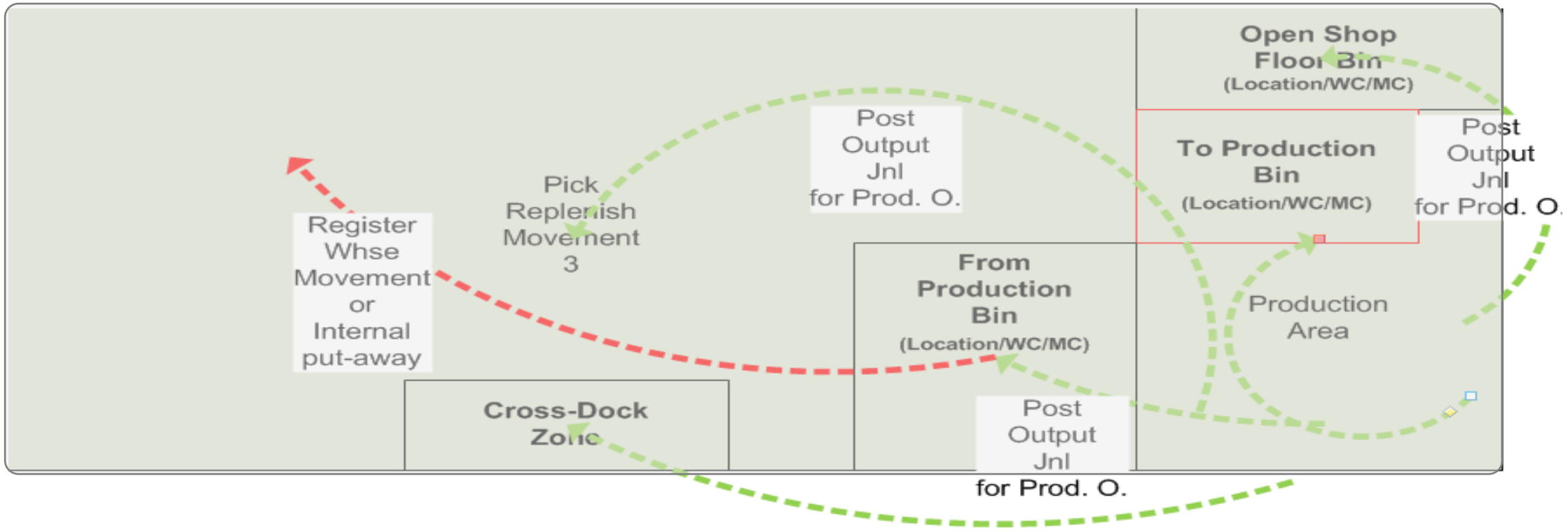
- Location with WMS (directed Put-away & Pick)



☺ Simplicity…

Output from Production NAV 2013

- Location with WMS (directed Put-away & Pick)



☺ Flexibility…

☺ Combination of manual update and/or default setup

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Focus on Integration

Integration with Manufacturing

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Integration with Manufacturing

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- Inventory Movement document
- Allow for stage bin for inventory pick locations
- Establish a more flexible defaulting system
- Flexible Outbound flow – back to warehouse

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Focus on Integration

Assembly

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Integration with Assembly

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All warehouse configurations supported

- ATS flow, easy:
  - To Assembly: Invt. movement, Warehouse pick
  - From Assembly: Post Assembly to a default bin, warehouse processes pick it up from there
- ATO flow, more difficult:
  - Only one posting - this implies that components are available prior "auto-consuming"
  - Default bins widely used
  - To-Assembly Bin: Inventory movement, Asmb lines bin code
  - From-Assembly Bin: Default per location card or change on Asmb. Header.

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Integration with Assembly

- Mixed ATS and ATO flow:
  - Designed so that both flows are defined on one sales order line. This meets customer requirements for efficient sales order tracking and price calculation and limitations of ERP solutions (like create two lines one ATS and one ATO) does not surface.
  - The solution includes certain rules about the sequence of operation, e.g. to ship the ATO quantity before the inventory quantity.

- Known limitations
  - No flow like Open Shop Floor Bin are suported – a pick needs to be registered for every assembly BOM item.
    - Solution concept: Items moved to the default To-Assembly bin will be grabbed first by the create pick algoritm without creating a pick (a mini overpick scope).

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Focus on Integration

Service

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Integration with Service (& Job)

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- Integration with service
  - Service order Lines is now a source doc for the warehousing system (similar to Production Order Component lines)
    - Only Release-to-Ship functionality
    - Only for WMS
- Service and Job
  - Release-to-Move functionality no whse shipment but whse pick to dedicated service bin (WMS)
    - Inventory movement to dedicated service bin (Invt. Pick locations)
    - Start up on integration with Job

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Focus on Integration

Visibility – Fact boxes

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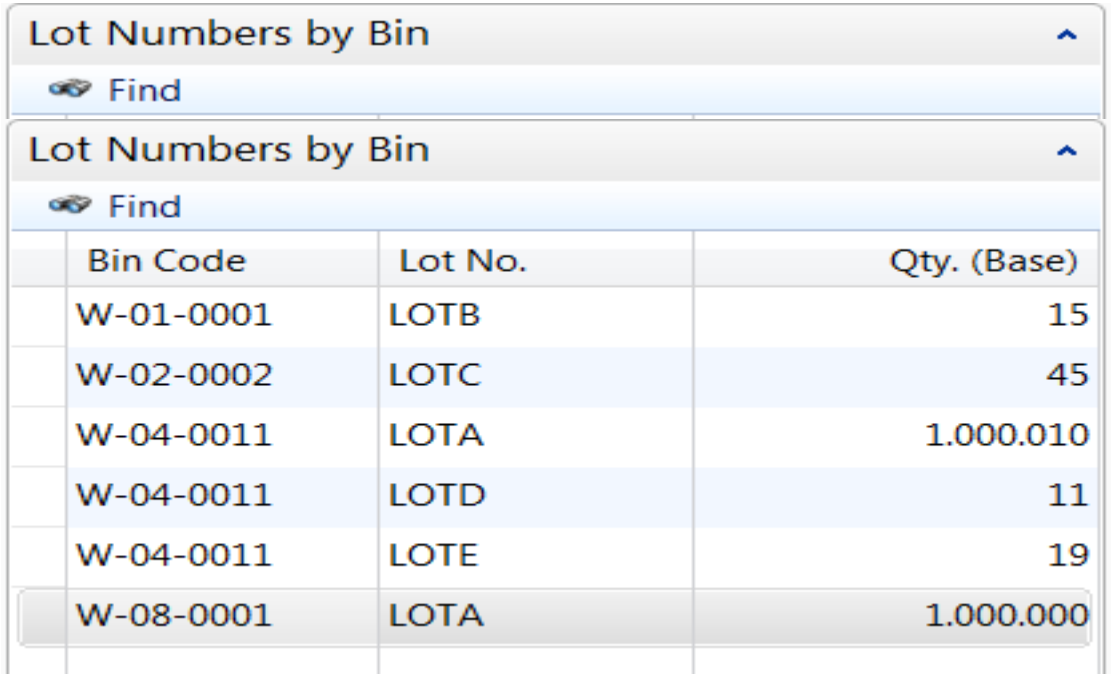
Visibility – Fact boxes

- FactBox for Warehouse Pick, Put-Away, etc
  - **Lot Quantity per Bin, using query**



Bin Code	Lot No.	Qty. (Base)
W-01-0001	LOTB	15
W-02-0002	LOTC	45
W-04-0011	LOTA	1.000.010
W-04-0011	LOTD	11
W-04-0011	LOTE	19
W-08-0001	LOTA	1.000.000

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Focus on Integration

Item Tracking

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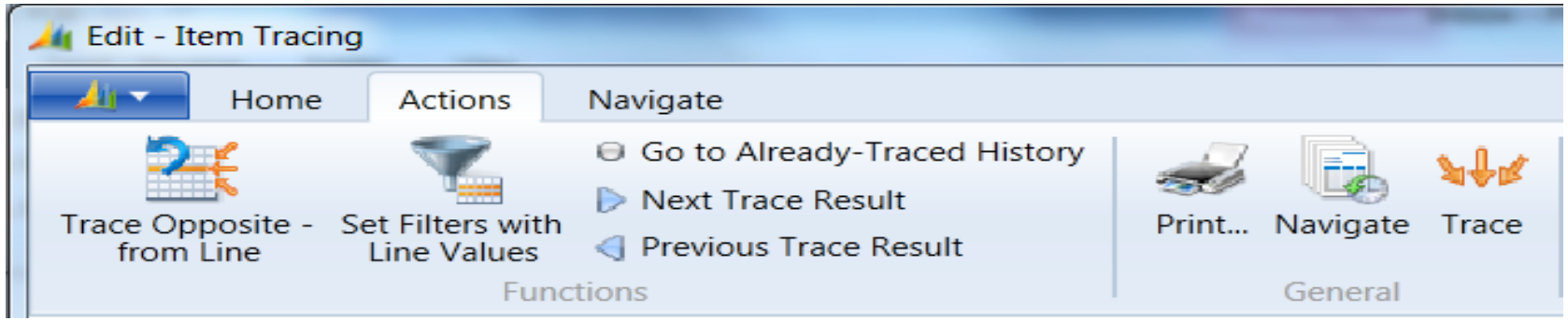
Item Tracking

- Item Tracing



- *" Your team did a great job! The time is so much faster, the report so much cleaner."* a partner
- *" Exponential redundant records are fixed. Awesome Job!!!"* Escalation Engineer

Scenario with transfers and production, Before:
Item Trace No Components = 831 lines
Item Trace with ALL Components = 5,480 lines
After:
Private Fix No Components = 52 lines
Private Fix with ALL Components = 60 lines

Item Tracking - Reservation

- One critical scenario with deletion of Whse. pick
  - Sales Order has no IT
  - Whse. Ship created, no IT,
  - Whse. Pick created, IT gets specified, register
  - ***IT synchronized with Sales Order***
  - Delete Whse Shipment and possible partial Whse Pick, IT sticks to the new Whse Shipment
  - 2013: possibility to delete IT populated by pick from sales order.
- Ability to remove reservations before creating negative adjustments

Key Take Aways:

- ✓ Warehouse Management Overview
- ✓ Focus on Integration:
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  - ✓ Item Tracking

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Questions?

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Thank You

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