

# **Innovia Customer Day**

April 19, 2018 Andrew Bing, Sr. Consultant



#### Demand Planning Advantages

- Reduced inventory, improved turns
- Improved customer service levels
- Demand Planning production forecasting
- Method for purchasing:
  - Low usage items
  - Assembly components based on Assembly forecast and Assembly BOM
  - Manufacturing components based on the finished good forecast and manufacturing BOM
- Multiple procurement methods and safety stock methods provided
- Multi-warehouse supply chain replenishment
- Best-fit formula, custom formulas
- Frozen controls
- Forecast adjustments and Historical Data Adjustments



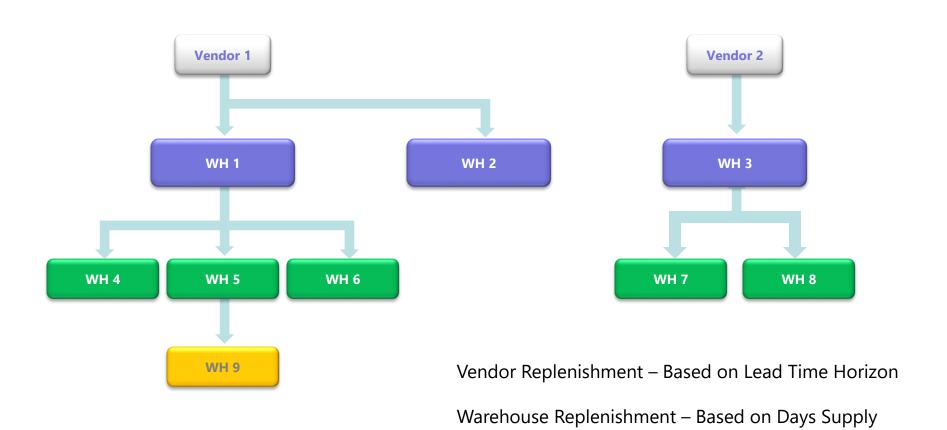
#### Forecasting

**Historical Usage** 





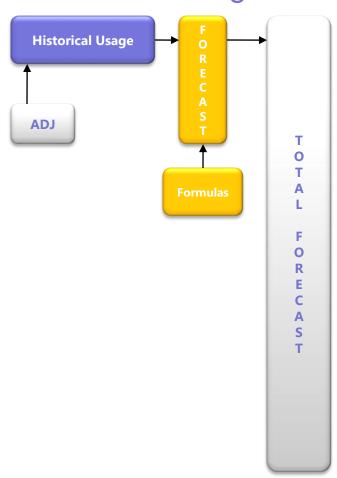
#### Hub & Spoke Replenishment



#### **Example:**

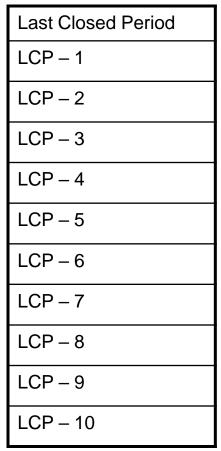
WH 1, WH2 = Lead Time Horizon 90 Days
WH 3 = Lead Time Horizon 30 Days
WH 4, WH 5, WH6 = Min Days 14 Max Days 21
WH 9 - Min Days 10 Max Days 14
WH 7, WH 8 - Min Days 10 Max Days 14

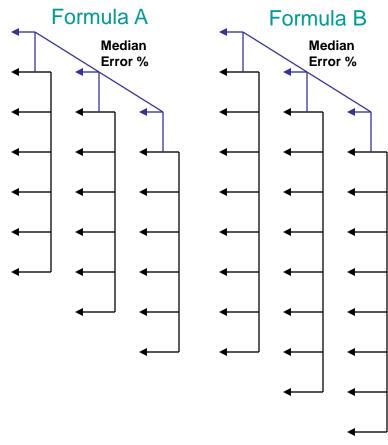






#### **Best-Fit Formula**

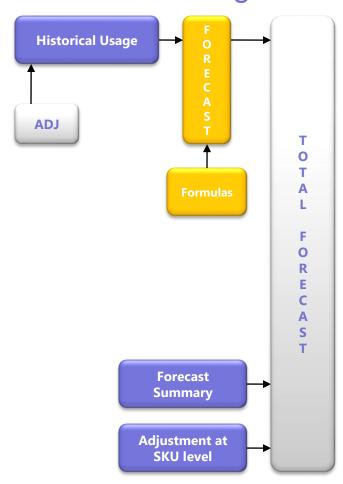




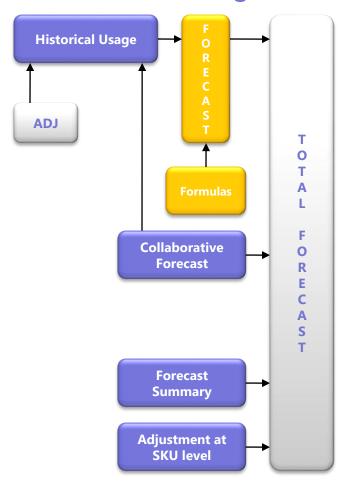
#### Choose Best Formula

- Reforecast x Periods
- Establish Error %
- Establish Median Error %
- Choose Formula With Lowest Median Error %



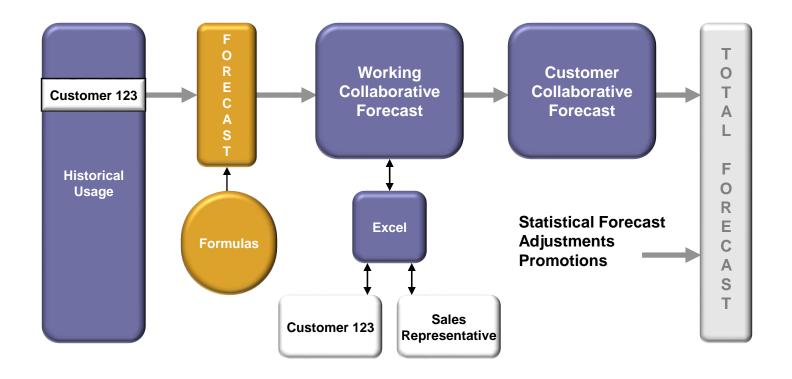


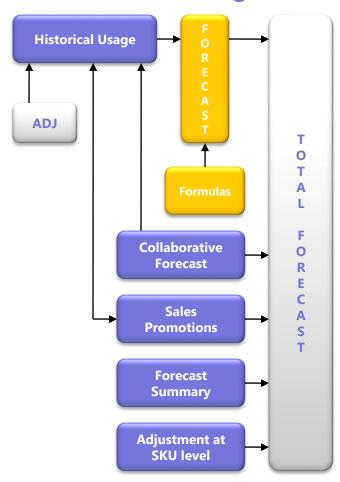






## Collaborative Forecasting



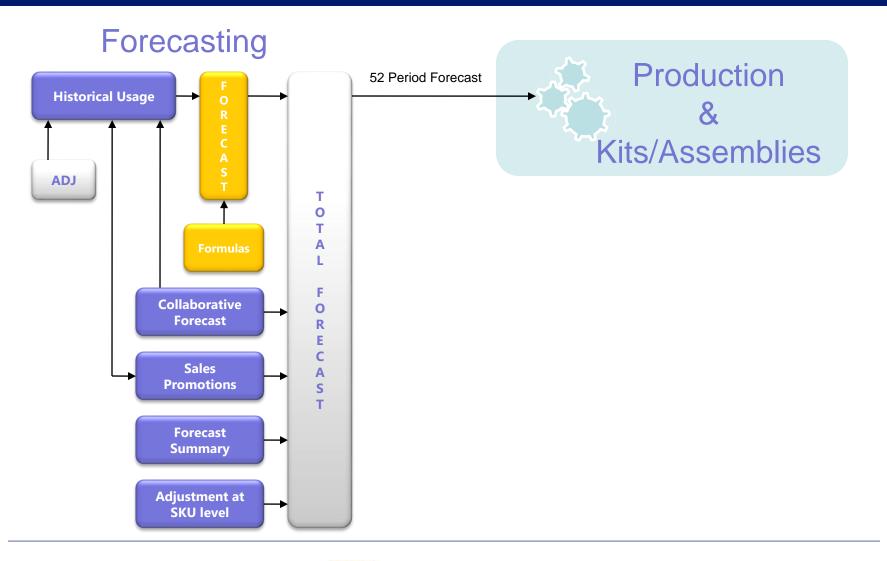




#### Replenishment

- Types of Inventory:
  - Purchased buy and resell (domestic and foreign vendors)
  - Kits/Assemblies
  - Production
  - Location replenished
- Do I need to buy?
- How much?
- Where do I need to stock the inventory?





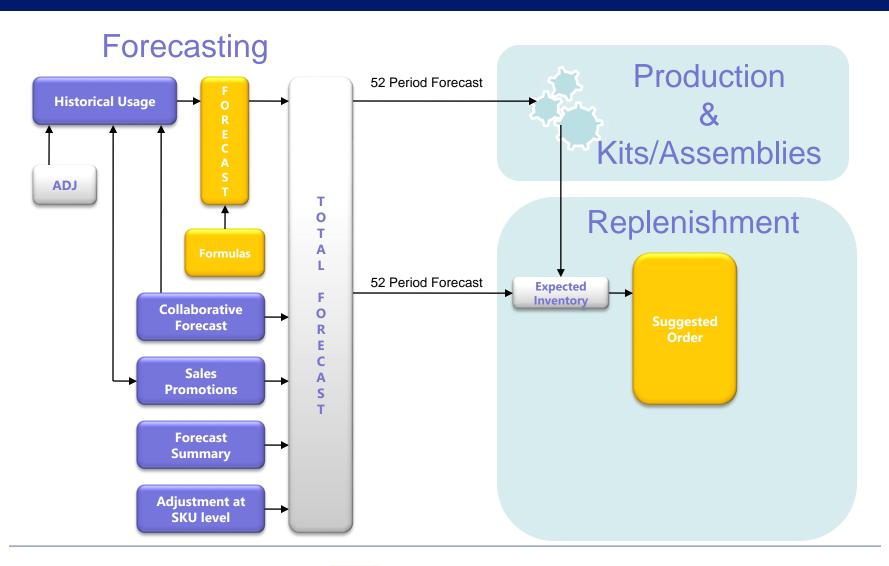


# Simulated Production Orders – Kits or Assemblies

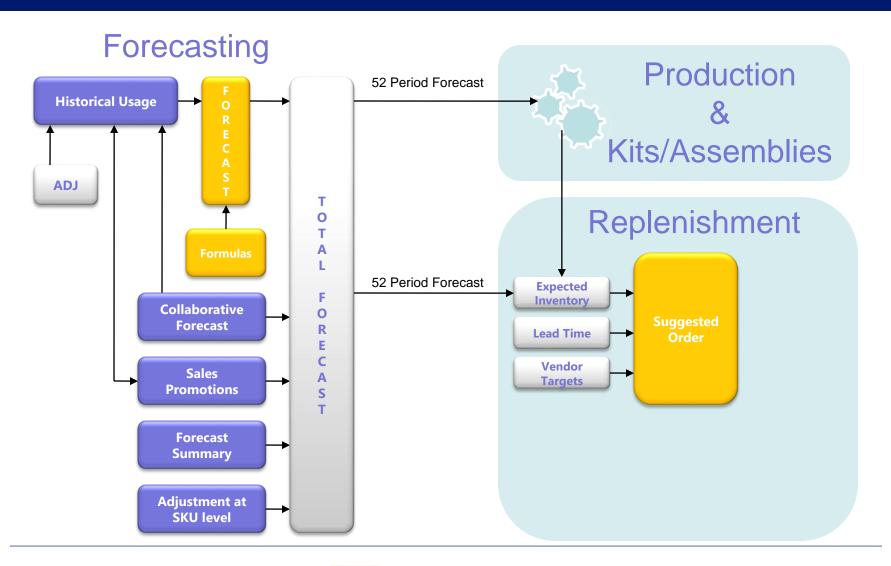
Incr. Days	Jan 1	Jan 8	Jan 15	Jan 22	Jan 29	Feb 5	Feb 12	Feb 19
Exp. Inv.	100	45	-10	-55	-110	-155	-210	-245
Need	0	0	10	45	55	45	55	35
Prod. Order			55		100		90	

- Time-phased expected inventory for each increment
- Calculate need for each increment
- Consolidate need to create either simulated production orders or assembly/kit requirements

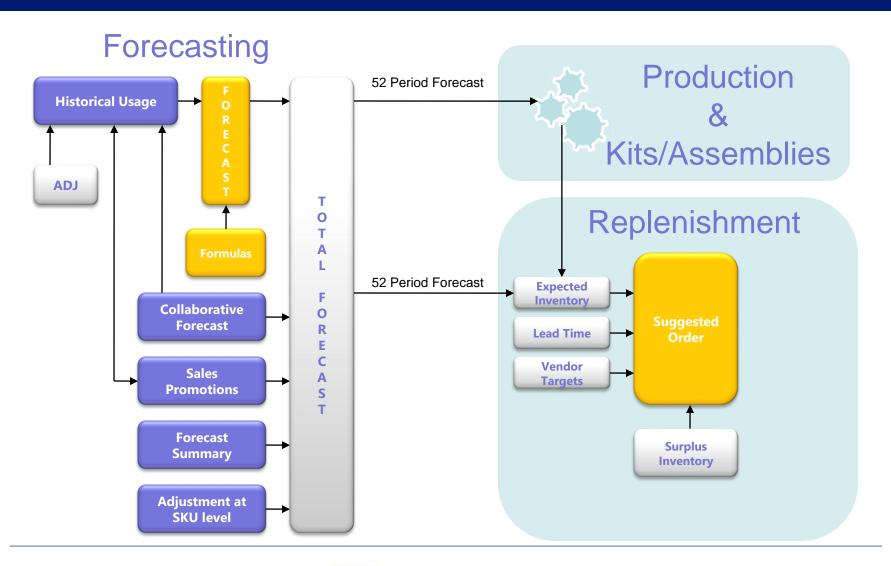




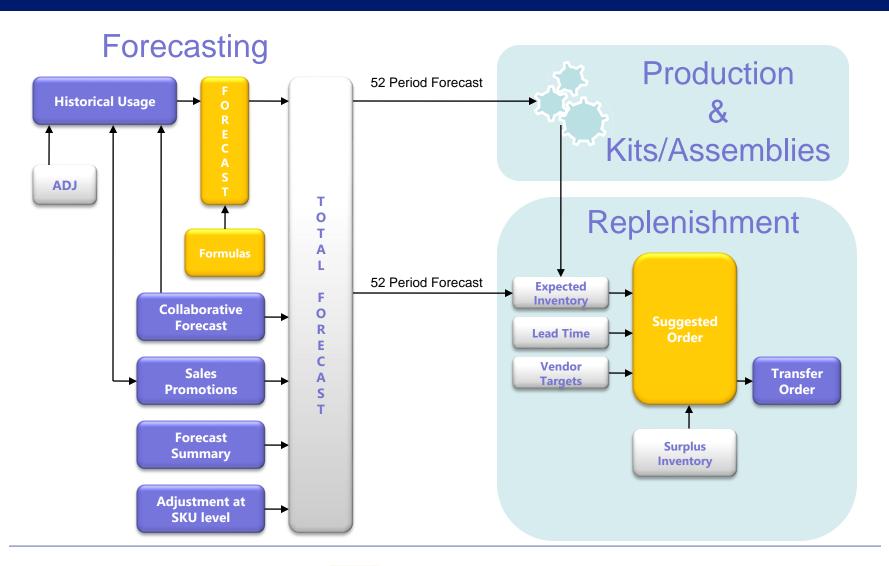




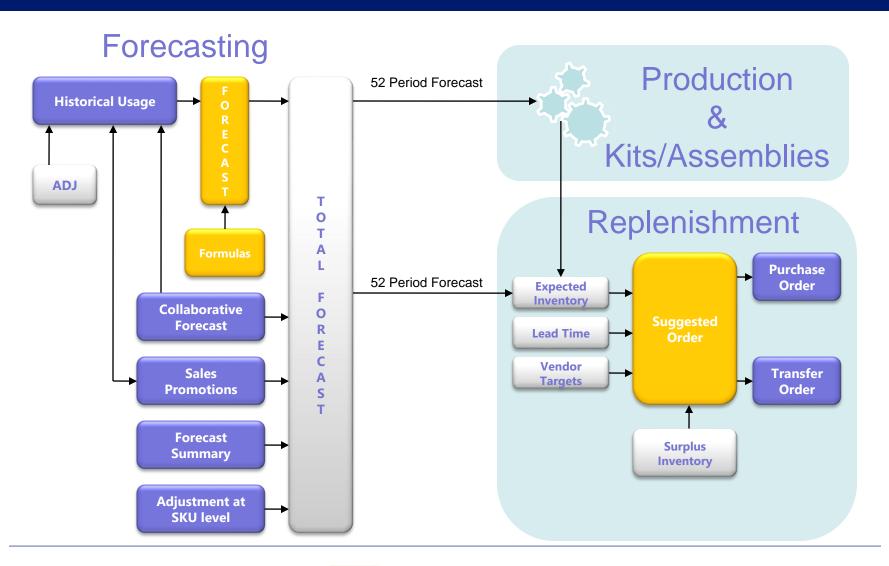








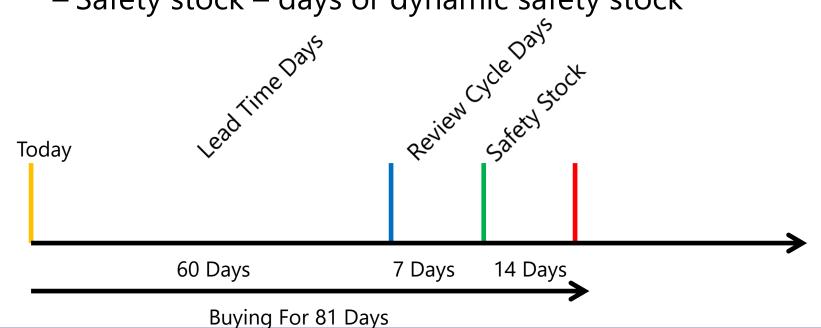






#### Vendor Replenishment

- Lead Time Horizon calculation
  - Lead time days
  - Review cycle days
  - Safety stock days or dynamic safety stock





#### Demand Planning Gold Service

- Direct phone and e-mail support
- Access to the most current software updates
- Processing optimization
- Periodic educational webinars
- One free registration to annual users meeting

#### Thank You!



#### Lanham Associates – Your Single Source for Supply Chain Solutions























#### **Lanham Associates**

Visit: <a href="www.lanhamassoc.com">www.lanhamassoc.com</a>
Follow us on LinkedIn and Twitter
@LanhamAssoc





Subscribe to the Lanham blog: www.lanhamassoc.com/blog



