

Raising Supply Chain Performance to New Levels

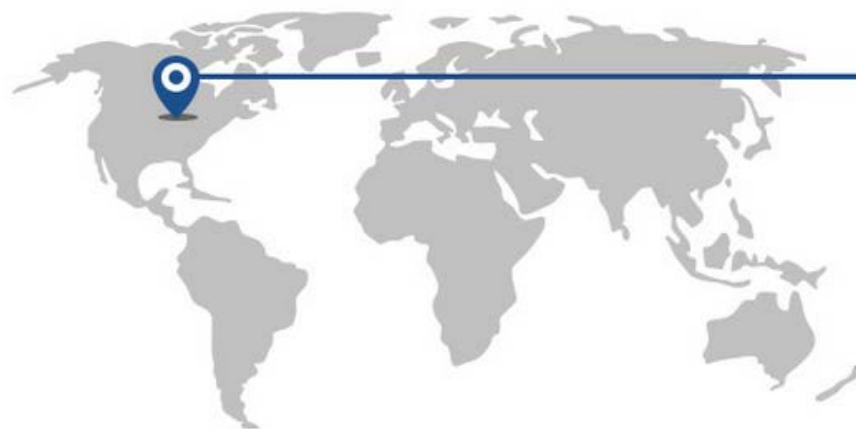
Gian Leocata

Supply Chain Director, Latin America
Sensient Colors SA de CV

velocity

CONNECT + ACCELERATE + INNOVATE

Sensient Technologies



World headquarters:
Milwaukee, WI

CEO: Paul Manning
NYSE: SXT
Revenue: \$1.38b

Sensient Technologies is comprised of three groups:

- ▶ Flavors & Fragrances
- ▶ Colors
- ▶ Asia Pacific

Employees: more than
4,000
worldwide



Global Presence:
60% of sales
from international business

Sensient Colors



#1 in food & beverage colors



#1 in cosmetic ingredients



#1 in digital inks



#2 in pharma excipients

Food Markets:

- ▶ Beverage
- ▶ Bakery
- ▶ Dairy
- ▶ Confection
- ▶ Pet Food
- ▶ Grocery

Non Food Markets:

- ▶ Cosmetics
- ▶ Personal Care
- ▶ Pharmaceutical
- ▶ Specialty Inks and Imaging
- ▶ Industrial Applications
- ▶ Ag-Business and Landscape

Sensient Colors

- ▶ USD 500+ million Revenue in 2018
- ▶ Five Market Segments
- ▶ Presence in 100+ Countries
- ▶ Operating Manufacturing Sites in:
 - North & South America
 - Europe
 - Africa
 - Asia
 - Oceania



Sensient Colors and Forecast: An Evolving Relationship



Implementation

Go live 2016

Voyager DP/IP/RP/IO



First Steps

Improved +4% Forecast Accuracy
in the first 18 months (US)

Decreased Inventory by \$6M (USD)

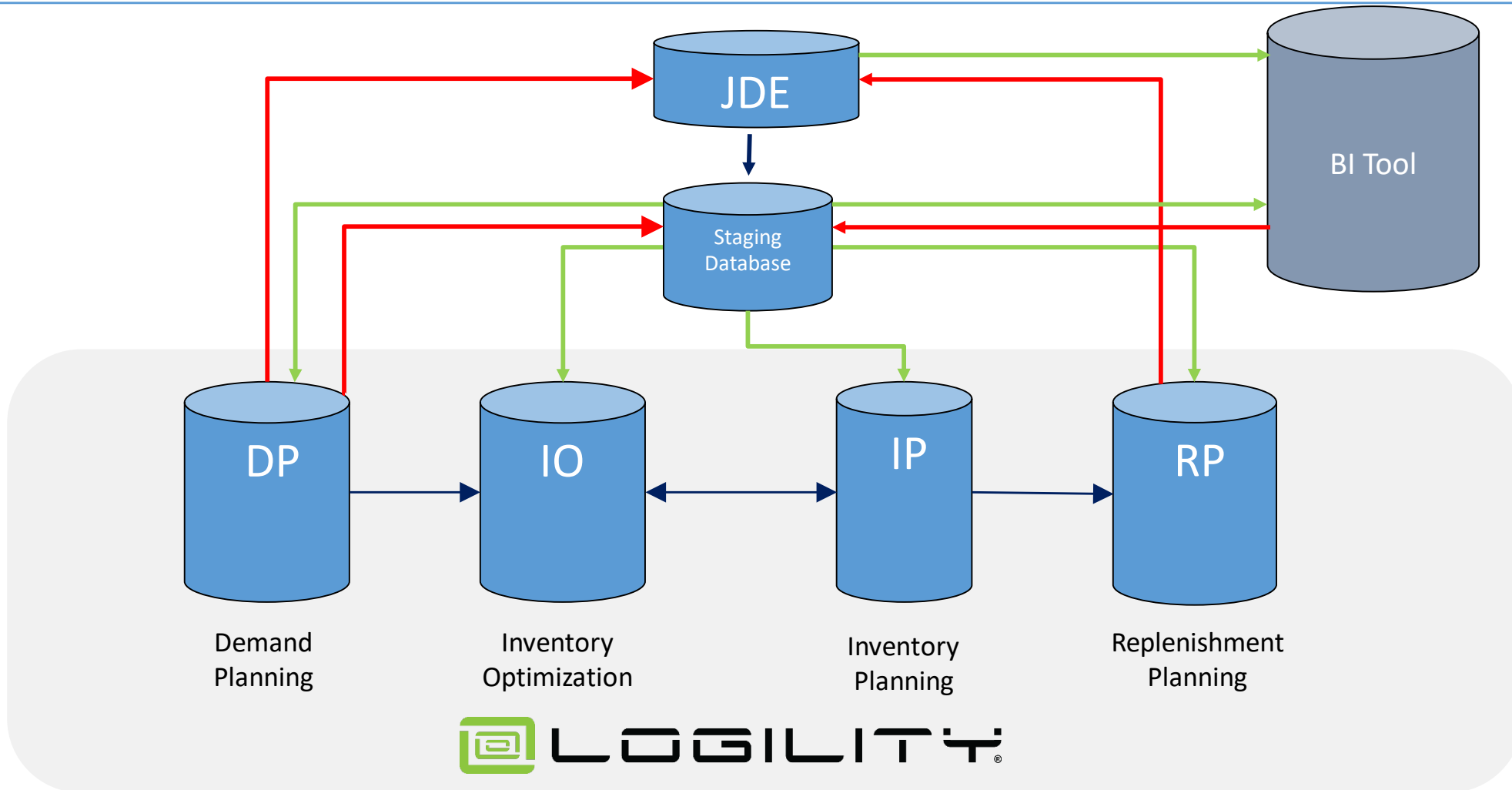
Started rolling out globally



Continuous Improvement

Where do we go from here?

Evolving Software Structure



Continuous Improvement

- ▶ Early Success
- ▶ Footprint Expansion
- ▶ New Challenges
 - Bigger dataset
 - Different businesses at different stages of maturity
 - Collecting market intelligence in different regions
 - Process, process, process.... (or lack of thereof)



Supply Chain Integration in Latin America



Faster, more accurate and actionable insights



Forecasting closer to the customer



“Slicing ‘n dicing” the data to better understand it



Holistic business collaboration



▶ **Time to Insights**

Time to Insights

Implemented in February 2018

- ▶ Excel vs. Logility
- ▶ Inventory decisions
- ▶ Forecast accuracy tracking and scorecard
- ▶ Benefits
 - Access to historic demand by requested date
 - Access to forecast by account manager, customer, ABC strata (segmentation)
 - Customer prioritization and faster allocation decisions
 - 54 DIH reduction in 2018 for Sensient LatAm business

Time to Insights

Example of forecast accuracy tracking and scorecard

| Forecast Accuracy | 3 months avg | Oct-18 | Nov-18 | Change vs Avg |
|-------------------|--------------|--------|--------|---------------|
| Total | 58% | 68% | 82% | 24% |
| Items A | 65% | 56% | 90% | 25% |
| Items B | 56% | 77% | 76% | 20% |
| Items C | 67% | 74% | 86% | 19% |
| Items D | 60% | 59% | 60% | 0% |



- ▶ **Forecasting Segmentation by Customers & Market**

Forecasting Segmentation Customers & Markets

- ▶ Included Logility tables in our BI tool
- ▶ Created reports to sales to track forecast month-by-month
- ▶ Changed where we create the forecast
 - Managed at Level 1 = Item/location/customer
- ▶ **Benefits**
 - Reduced lead time (Faster)
 - Decreased inventory levels (Accelerated)
 - Collaboration with customers (Satisfaction)



Forecasting Closer to Customers & Segmentation of the Data

Level 2 Options...

Business Unit (06)

Account Manager (05)

ABC Fcst Kg

Parent Customer (09)

Item (Key)

Select

| Business Unit (06) | |
|------------------------------|------|
| + [spaces] | 1105 |
| + COLORS CANADA | 1105 |
| + COLORS GERMANY | 2696 |
| - COLORS LATIN AMERICA | 1849 |
| Account Manager (05) | |
| + . | 357 |
| + ALBERTO SOLIS DIAZ | 114 |
| - ARTURO QUIRINO SIERRA DIAZ | 98 |
| ABC Fcst Kg | |
| + A | 2 |
| + B | 13 |
| + C | 13 |
| + D | 65 |
| + Z | 5 |

Business Unit

Account Manager

Items by ABC

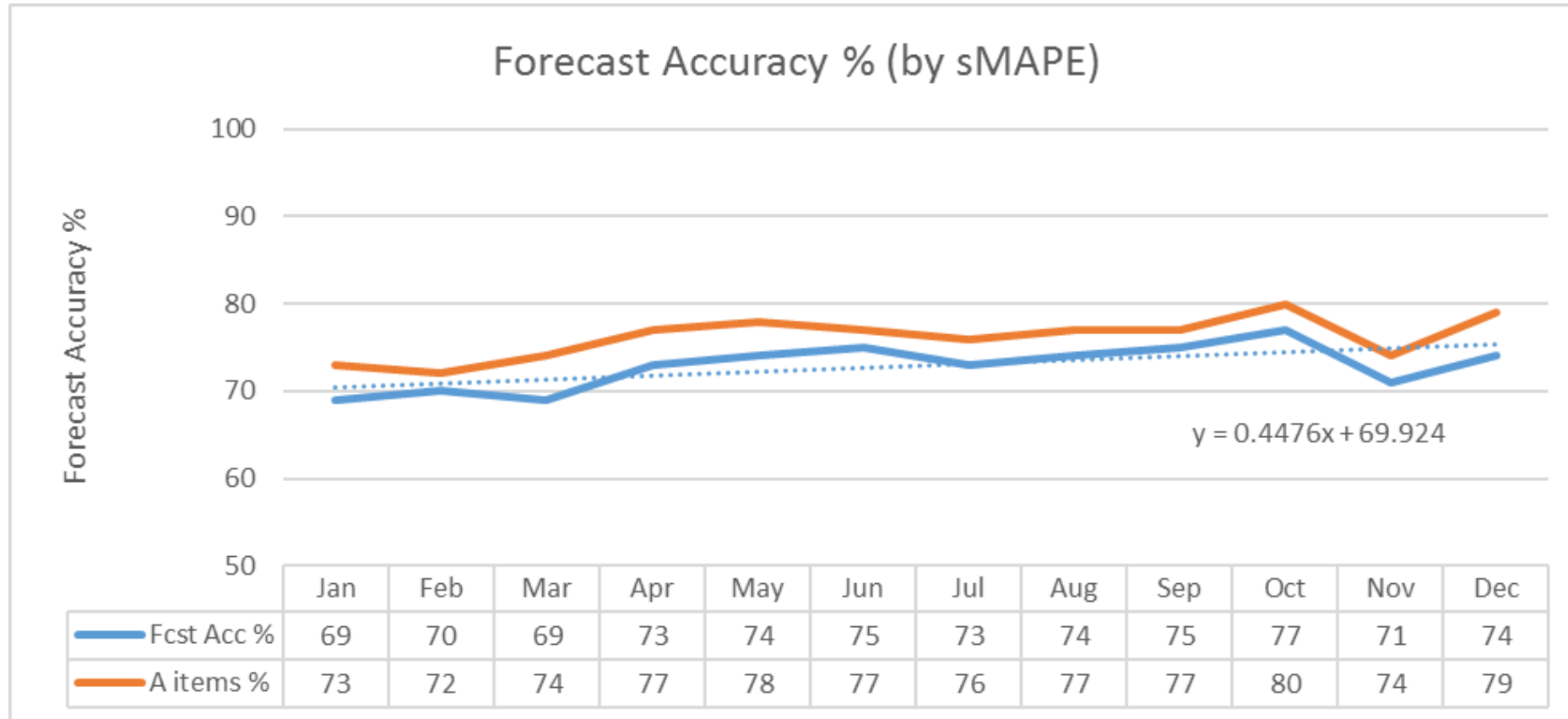
Customers

Forecasting Segmentation of Customer & Market Data

ARTURO QUIRINO SIERRA DIAZ DC Historic Demand Forecast

| | | | | 201808 | 201809 | 201810 | 201811 | 201812 | 201901 | 201902 | 201903 | 201904 | 201905 |
|----------|-----------------------------|------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Customer | M73000020 - ROJO NO. 6 | 5841 | Actual_Demand_KG | 400 | 400 | 500 | 260 | 620 | 0 | 0 | 0 | 0 | 0 |
| | | | Fcst_Resultant_KG | 339 | 356 | 348 | 356 | 356 | 379 | 379 | 379 | 379 | 379 |
| Customer | M77070020 - ROJO NO. 40 | 5841 | Actual_Demand_KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | Fcst_Resultant_KG | 15 | 8 | 5 | 2 | 3 | 0 | 0 | 0 | 0 | 0 |
| Customer | M86000020 - AMARILLO NO. 5 | 5841 | Actual_Demand_KG | 1,000 | 700 | 700 | 1,000 | 1,240 | 0 | 0 | 0 | 0 | 0 |
| | | | Fcst_Resultant_KG | 681 | 717 | 697 | 714 | 664 | 767 | 767 | 767 | 767 | 767 |
| Customer | M86040020 - AMARILLO NO. 6 | 5841 | Actual_Demand_KG | 60 | 60 | 0 | 60 | 60 | 0 | 0 | 0 | 0 | 0 |
| | | | Fcst_Resultant_KG | 39 | 42 | 44 | 44 | 44 | 42 | 42 | 42 | 42 | 42 |
| Customer | VB0010025 - VAINILLINA | 5841 | Actual_Demand_KG | 50 | 0 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | Fcst_Resultant_KG | 10 | 10 | 19 | 9 | 17 | 17 | 17 | 17 | 17 | 17 |
| Customer | VB0040R25 - ETIL VAINILLINA | 5841 | Actual_Demand_KG | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | Fcst_Resultant_KG | 3 | 3 | 5 | 5 | 5 | 3 | 2 | 2 | 2 | 2 |

Forecasting Segmentation of Customers & Market Data





▶ **Holistic Business Collaboration**

Holistic Business Collaboration

- ▶ Started a monthly S&OP process
- ▶ Leverage projected inventory coverage against forecast
- ▶ Using long term forecast to balance plant utilization/absorption
- ▶ Working with finance agree to a consensus forecast for the business unit
- ▶ Benefits
 - Increased sales performance
 - Plant leveling and maximizing absorption
 - Leverage demand shaping when needed



Bringing it all together



Collaboration: All the departments involved are working based on the same numbers and assumptions



Process: We built the process around Logility that was best suited for us, enabling small incremental changes that resulted in overall business improvement



Customer Focus: We are going back to customers and sharing forecast with them, helping them improve their planning



Time to Insights: We are more agile and can take business decisions and actions based on demand data almost immediately



QUESTIONS?



THANK YOU

LinkedIn: <https://www.linkedin.com/in/gianleocata/>