

Cisco Systems: Revolutionize Sales Strategies Through Machine Learning SAP HANA Platform and Cisco UCS

Larry Goryachkovskiy

Lead Analyst, Worldwide Sales Strategy & Planning Cisco Systems July 2017

Sales Transformation: Outcomes-Based Solutions **Through Digital Selling**





Scale

- \$50B in sales
- 380 Offices
- 165 countries serviced
- 71.000 employees

Talent

- 25,000 Engineers
- 19,000 patents
- 20,000 field employees
- 15.000 commissioned •
- 4,000 account managers •



Partner

- 70,000 partners
- 28,000 CCIEs
- Expanding ecosystem for IOT solutions

Customers & Market Transitions



Evolving from hardware

sales to software. cloud

and XaaS sales

- **New Consumption Models**
- #1 or #2 in key markets
- 170 Acquisitions

Solving for Breakthrough Productivity

Leadership is Looking For Cross-Company Insights, But Analytics has Become Siloed

Leaders are asking their teams for:

- Consolidated reporting across all functions ("single pane")
- Real-time access to sales execution data, leading indicators
- Actionable insights; prescriptive recommendations; Available on-demand

Every sales theater, engineering group and supporting function has:

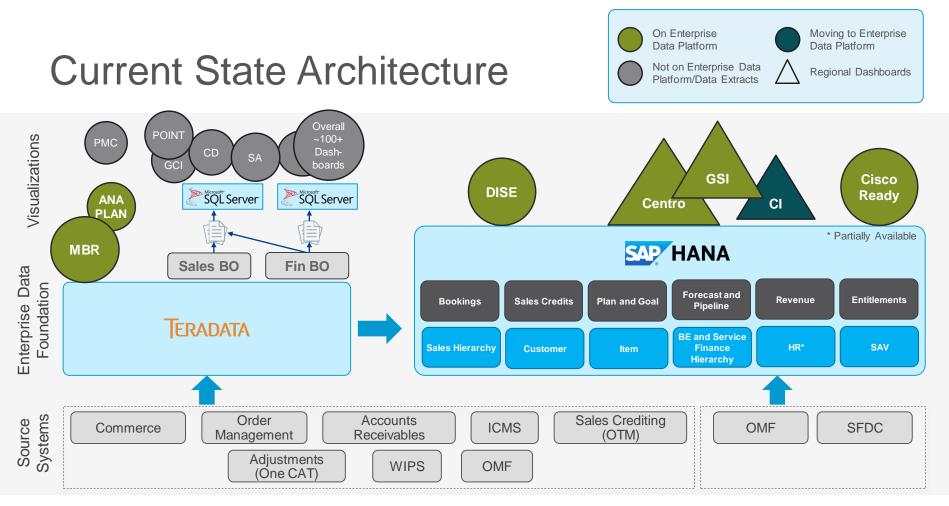
- Assigned reporting & analytics headcount
- Established data mart of corporate data through EDW queries and extracts
- Enriched their data mart with stakeholder definitions
- Authored dashboards for self-serve metrics reporting
- Engaged data scientists for predictive analytics

Strategy, Planning and Operations Teams Have Worked Independently – Opportunity for Digitization Data Hierarchy of Needs



ululu cisco

- Predictive analytics to Transform the Business
- Target Senior Leadership Team (SLT) for faster, more impactful decisions
- Example: new go-to-market models
- Advanced analytics to Plan the Business
- Leveraged primarily by sales management
- Example: strategic sales initiative compensation
- *Reporting* is a basic need to Run the Business
- Leveraged by all levels (SLT to individual contributors)
- Examples: Bookings, pipeline reports



uluilu cisco

© 2016 Cisco and/or its affiliates. All rights reserved. Cisco Confidential 5

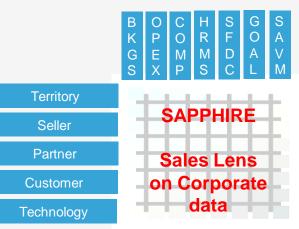
Digitizing Sales Analytics

Address with Business and Technical Architecture:

- Agile Business Architecture with consistent sales measures and metrics (one data dictionary) for consumption by sales strategy functions <u>and</u> views for sales personas
- Agile Technical Architecture to enable one sales analytics backbone with interconnected standardized metrics, measures & unified visualization

ululu cisco Project Sapphire SAP HANA for INSIGHTS in Real-time

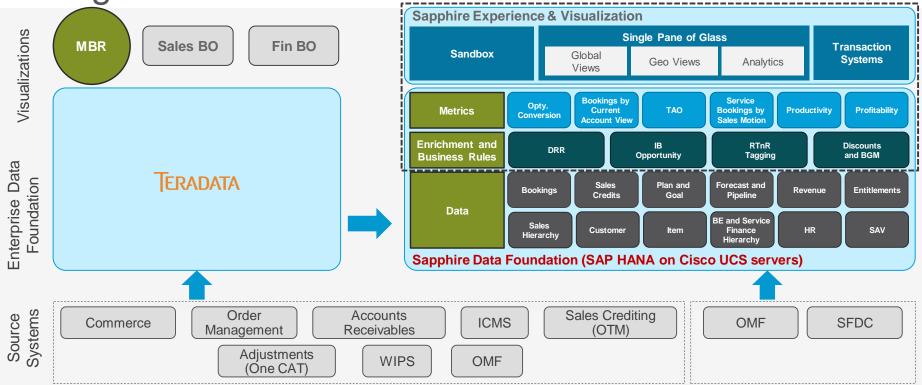


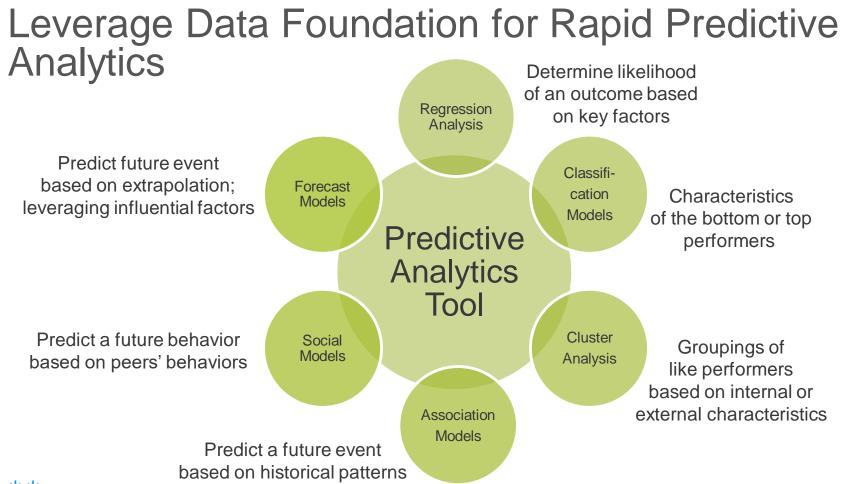


Sapphire is the best lens medium for broad spectrum and high clarity

Introducing Sapphire & Visualization – Target State

Illustrative – to prioritize





cisco

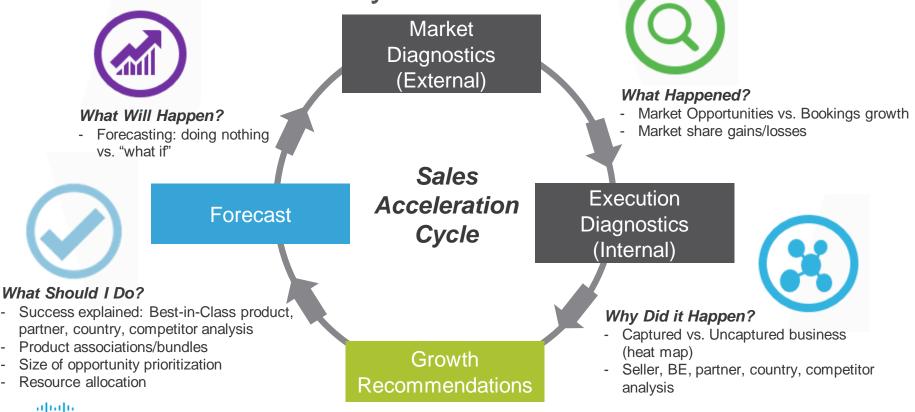
© 2016 Cisco and/or its affiliates. All rights reserved. Cisco Confidential

Immediate Benefits – Identifying Top Opportunities

	Analysis	Description	Outcome
0	Pipeline Analysis	Classification model that predicts the outcome of active opportunities	Provide insight to <i>what attributes</i> <i>correlate to an opportunity</i> decision, positively or negatively
	Recommendation Model	Social Networking Model that	Able to identify which products will sell best by customer
		shows Product Associations based on Customer Transaction History	Determine which <i>product families</i> <i>will drive security bookings</i>
	Association Model	Social Networking Model that shows Product Associations based on customer transaction history	Understand product relationships across technologies and their <i>mutual growth trajectory</i>
	Install Base Analysis	Compare current LDOS value to active opportunities in pipeline	Identify customers with greatest refresh opportunity

Accelerating Sales Strategy with SAP Predictive Analytics software

CISCO



Pipeline Performance Analysis

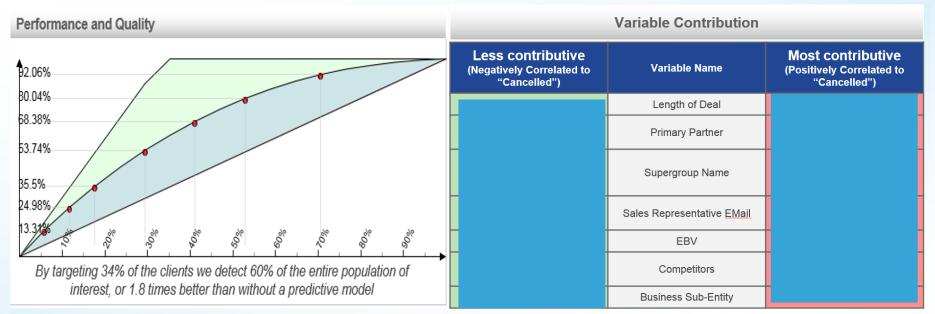


- **Challenge**: What are the challenges we are facing in our Sales Execution GTM Strategy?
- How do we apply changes on a dynamic basis to always be prepared for changing market conditions

Solution: Looking at our historical pipeline records, we can observe which opportunities booked or were lost – further understanding what led to that outcome

Results: Provided guidance to Sales Leadership, addressed their concerns, and created impactful recommendations

Understanding Pipeline Performance



Green represents positive correlation to "Booked" Red represents positive correlation to "Cancelled"

uluilu cisco

Product Recommendation Engine



 Challenge: How do we further advance our product growth? How do we know which customers are ready to migrate from legacy to Next-Gen Products? **Solution**: Create a Social Network Analysis – gathering Customer transaction history for the past three years. We create certain parameters that link Customers with each other, as well as link Products to other Products. As a result, we create a network graph that produces Top Recommendations for each Customer

Results: Provided guidance to Sales Leadership, addressed their concerns, and created impactful recommendations

Deployment of Model

The machine learning was derived from the historical purchase trends. The application of the recommendation will be based on the current active opportunities in the Pipeline.

Recommender:	PRODUCT_FAMILY ~	Do not recor	mmend if already owned
SAVM GROUP NAME		Include Best	Sellers
		🗌 Keep Top N	5

Get Recommendations

Recommendation	Confidence	
EWMGMT		94.46%
CISE		93.96%
N9500		80.78%
UCSSCCX		80.39%
UCSSWLU		78.6%
UCSB		76.85%
AIRMSW		75.56%
C4500		74.83%
2800		74.63%
AGOTHER		73.13%
FSIGHT		72.6%
TRN CLC		71.64%
ICVSW		71.64%
UCSSCCE		70.95%
UCSSCVP		70.24%
C1UCS		70.16%
WRKAUTO		69.51%
NETWORK		69.04%
C1AIRF		68.44%

Product Association Mapping



• Challenge: How do we better align our Product Portfolio with solutions that our Customers need? **Solution**: Create a Social Network Analysis – gathering Customer transaction history for the past three years. We create certain parameters that link Customers with each other, as well as link Products to other Products. As a result, we can see linkage of Products to Products – understanding our Customer's most paramount bundling patterns.

Results: Provided guidance to Sales Leadership, addressed their concerns, and created impactful recommendations

··II·III CISCO