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**See more. Act faster.**



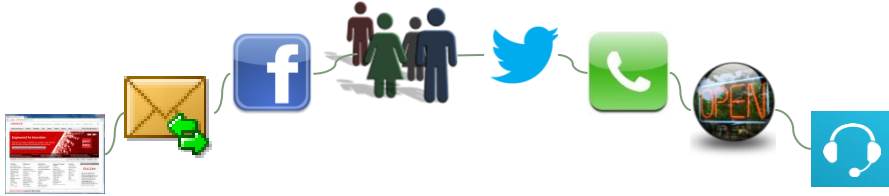
**ORACLE®**

## **Real-Time Decisions**

**Machine Learning for Automated Discovery and Decisioning**

David Cressy, Senior Manager Sales Consulting

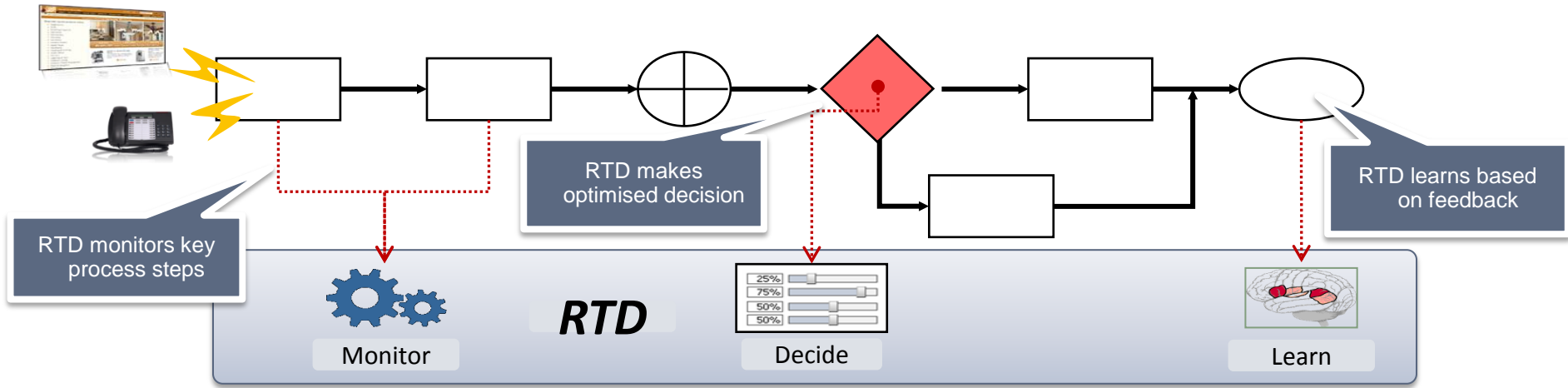
# What is Real-Time Decisions (RTD)?



## Platform to:

- **optimise** a business process by making **accurate decisions** in **real-time** using the most up to date information **consistently** and in **large volumes**
- **learn** from all available data and events to **automatically improve** all **future decisions**

# How does RTD optimise a business process?



## Process Intelligence - Insights

- Monitors process steps
- Uses context plus other available data
- Provides real-time process analytics
- Learns from process events
- Fully automated modelling – no wait time

## Process Optimisation - Actions

- Makes optimised decisions within process
- No time lag as decisions are real-time
- Continuously improves decisions over time
- Outcome of decisions captured for learning = "close the loop"
- Automatically adapts to any changes

# Learn and Decide

## Decision Management Interface

- Collaborative environment to manage Decision Management lifecycle
- Business user controls over decision optimization logic
- Cross-channel Customer Experience Management framework



### Learning Engine

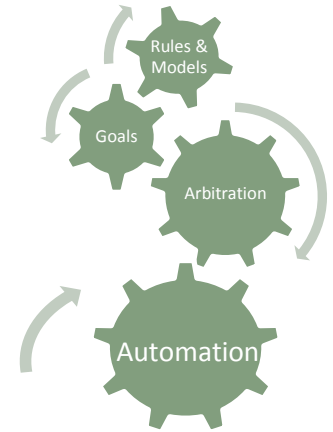
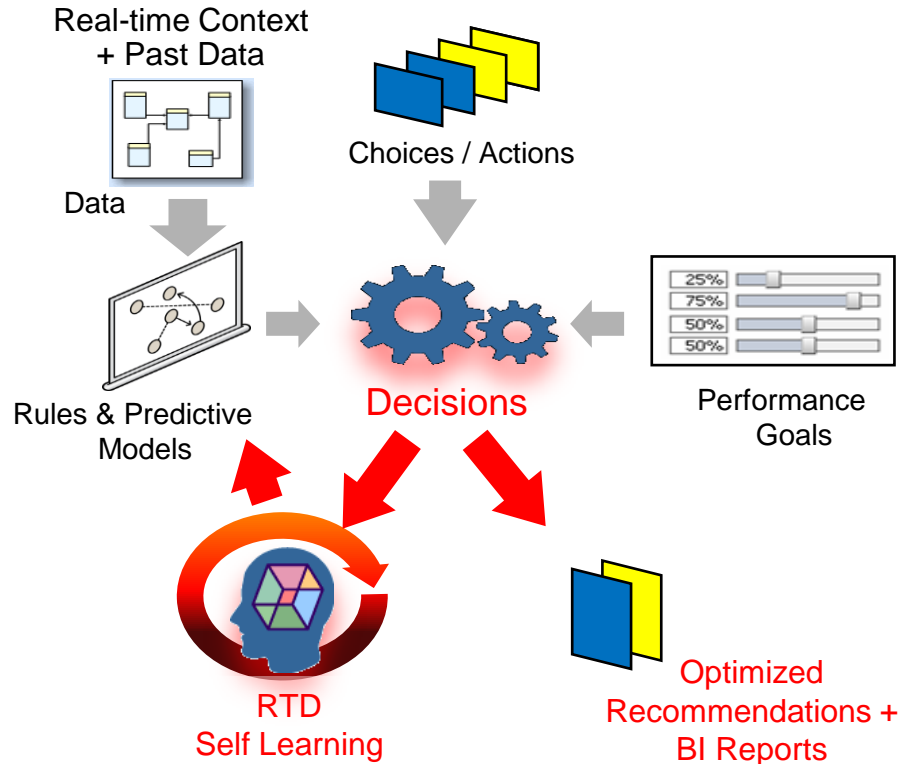
- Self-service user interface for on-demand predictive data discovery
- Automated machine learning from each transaction to discover important correlations in data
- Designed for Big Data volumes
- Deployed independently from Decision Engine



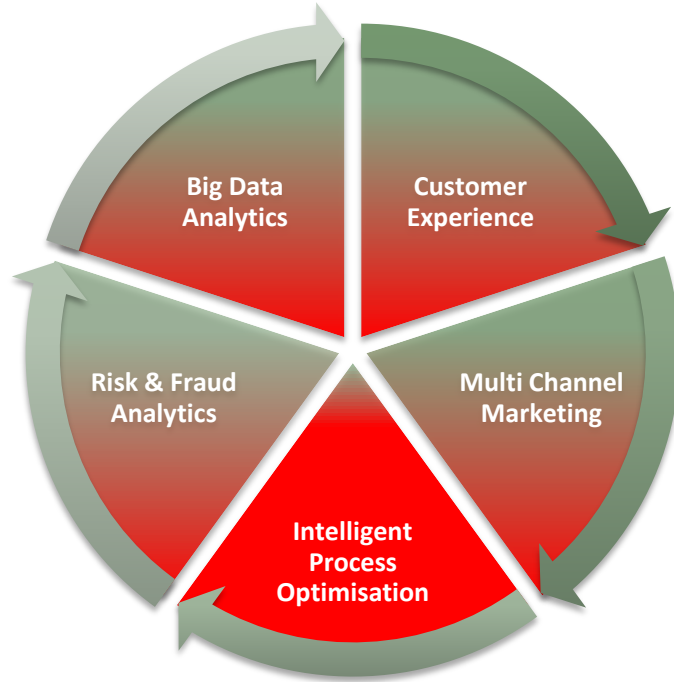
### Decision Engine

- Test & Control Framework
- Support rules based & automated predictive models to define contextual and personalized decision logic
- Self-adjusting Decision Logic based on defined Performance Goals
- Designed for highly scalable Decision Services

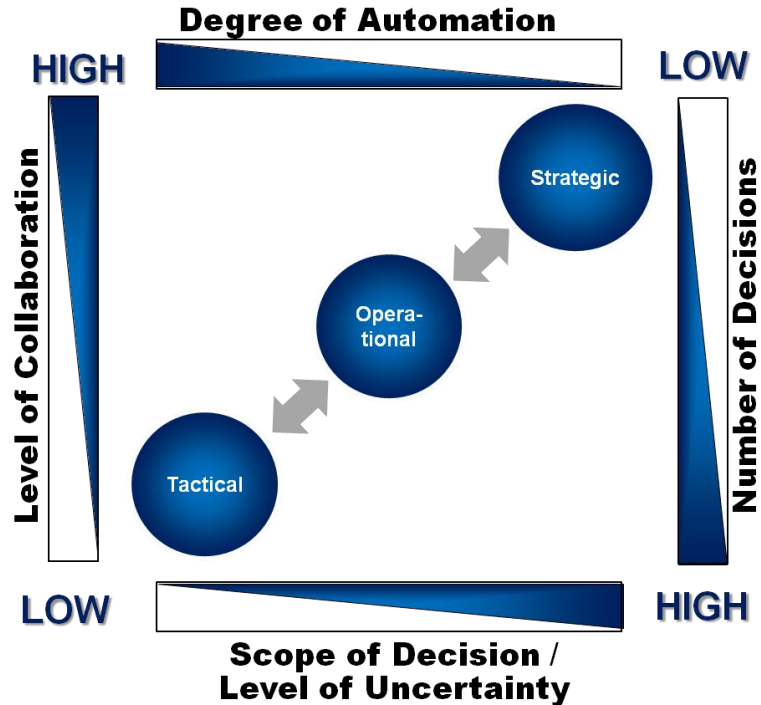
# The RTD Framework



# Example use cases



# How does RTD fit with Traditional BI?



Source: IDC; Optimizing eCommerce Decisions at TIAA-CREF; Henry Morris

- Use BI for Strategic or Operational Decisions
  - Relatively few decisions (10s-100s)
  - High collaboration and human intervention needed
  - No or low automation possible
  - E.g. where to site a new factory; by how much to increase sales targets...
- Use RTD for Tactical Decisions
  - Many decisions (> 1000s)
  - No or low collaboration needed
  - High automation desirable
  - E.g. what offer to make to which customer...



# RTD Generates Valuable Insight

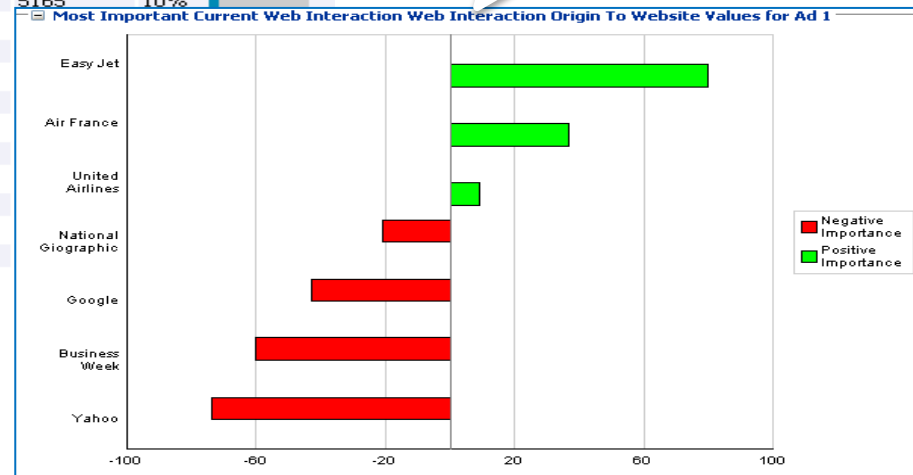
RTD automatically learns from each candidate offer based on one-to-one customer feedback

RTD reports on each key business event

RTD automatically identifies data attributes correlated with relevant business outcomes e.g. money spent on Google "Adwords" is wasted

- Choices
- Ads
  - BANNER1
  - BANNER2
  - BANNER3
  - BANNER4
  - CARINSURANCE1
  - CREDITCARD1
  - GENERAIOFFER1
  - GENERAIOFFER2
  - GENERAIOFFER3
  - HOMEINSURANCE1
  - HOMEINSURANCE2
  - LOAN1
  - LOAN2
  - LOAN3
  - MORTGAGE1
  - MORTGAGE2

Advertisements	Choice Outcome	Count	%
Ad 1	Presented	47393	100%
	Interested	1164	2%
Ad 2	Presented	50750	100%
	Interested	3213	6%
Ad 3	Presented	51965	100%
	Interested	5165	10%
Ad 4	Presented		
	Interested		
Ad 5	Presented		
	Interested		
Ad 6	Presented		
	Interested		
Ad 7	Presented		
	Interested		
Ad 8	Presented		
	Interested		



# Remember That Infamous Quote?



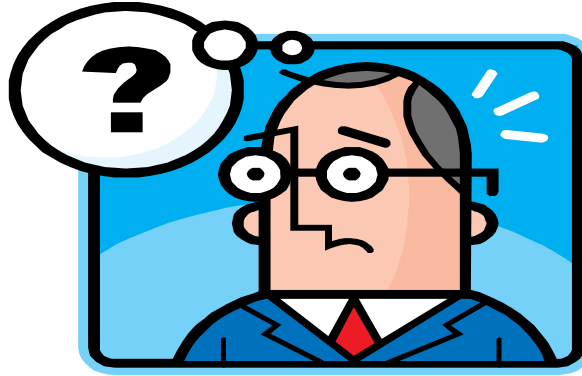
Donald Rumsfeld, Feb. 12 2002  
Department of Defense News Briefing

There are known knowns. **These are things we know that we know.**

There are known unknowns. That is to say, there are things that **we know we don't know.**

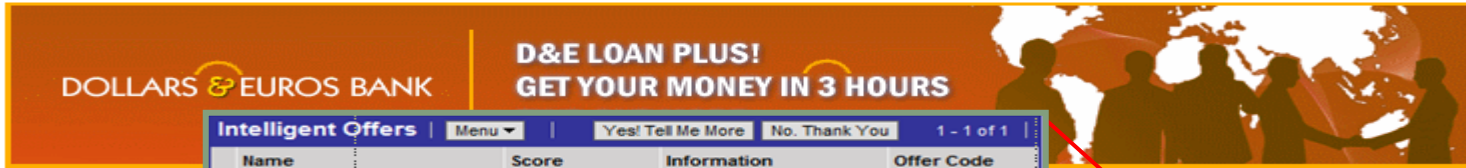
But there are also unknown unknowns. These are things **we don't know we don't know!**

# Can RTD help?



**We need to  
know the things  
we don't know we don't know**

# RTD for Automated Discovery and Machine Learning



Channel Of Interest

Predictiveness of Entity Attributes for Web

Attribute	Predictiveness
Customer Number Of Years Established	57.6
Current Web Interaction Previous Web Page	39.7
Current Web Interaction CurrentViewedProductId	36.5
Current Web Interaction Web Origin	35.7
Current Web Interaction Current Web Page	32.9
Customer Address State Province	30.1
Customer Line Of Business	
Customer Marital Status	
Customer Address Country	
Current Web Interaction Days Since	

Automated Discovery of Predictive Drivers for ...

Offers Of Interest

Predictiveness of Entity Attributes for LOAN1

Attribute	Predictiveness
Customer Data Income Level	42
Account Data Account Balance	37
Web Data Search Keywords	13
Web Data Pages Visited	11
Account Data Products	11
Web Data referer	9
Account Data Tenure	6
Customer Data Age	5

Customer Retention

Count: 4758 Model Quality: 99

Predictiveness of Entity Attributes for Un-Register

Attribute	Predictiveness
Current Web Interaction Previous Page	47
Customer Person Age	46
Current Web Interaction Current Page	43
Customer Purchase History Product Lines Owned	41
Current Web Interaction Web Interaction Origin To Website	40
Current Web Interaction Current Viewed Product Id	40
Customer Person Marital Status	40
Customer Address State Province	39
Customer Address Country	39
Customer Type	35

Interaction Abandonment

Count: 20094 Model Quality: 100

Predictiveness of Entity Attributes for Abandoned

Attribute	Predictiveness
Customer Person Age	73
Current Web Interaction Web Interaction Origin To Website	65
Customer Purchase History Product Lines Owned	52
Current Web Interaction Current Page	51
Customer Address State Province	49
Customer Organization Number of Years Established	49
Customer Address Country	45
Current Web Interaction Current Viewed Product Id	44
Current Web Interaction Previous Page	42
Customer Person Marital Status	41

RTD automatically correlates hundreds of input attributes with all specified target business events



# The "Learning Graph"

Welcome back Nicolas

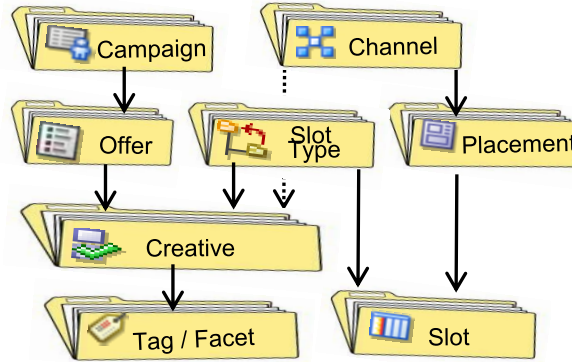
Please give us back your share of the 20,000 tons of annual account statements

One click wildlife donation

Proceed to on-line banking

**1**

Customer Clicks



**2**

RTD Correlates Data With User Experience Business Events

Channel (Web), Offer / Product (Electronic Bill Payment), Creative (The Bear Cub image), Tags (Environmental, Wildlife, Donation, Provocative), Slot Type (Image), Slot (Recommended for you), Placement (Login Page).

Attribute	Predictiveness
Customer Number Of Years Established	57.6
Current Web Interaction Previous Web Page	39.7
Current Web Interaction CurrentViewedProductid	36.5
Current Web Interaction Web Origin	35.7
Current Web Interaction Current Web Page	32.9
Customer Address State Province	30.1
Customer Line Of Business	26.3
Customer MaritalStatus	25.5
Customer Address Country	25.3
Current Web Interaction Days Since Last in...	5.8

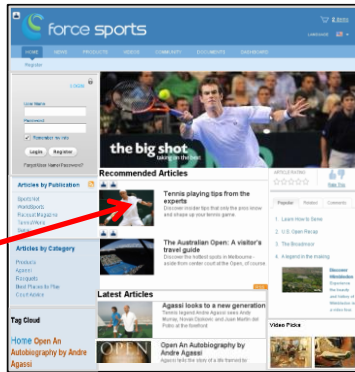
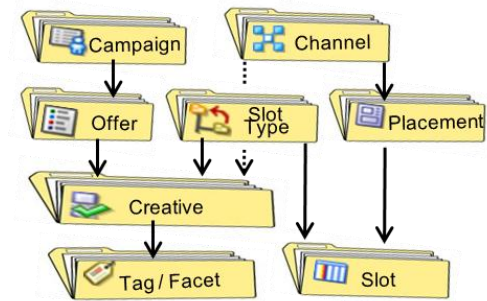
**3**

RTD Reports on Discovered Insights

Predictive drivers of interest in "Environmental" theme  
 "Provocative" marketing  
 Electronic Bill Payment option  
 "Personalized Interactions"

# RTD Learning Graph

Applied to consumer behaviour



1 click



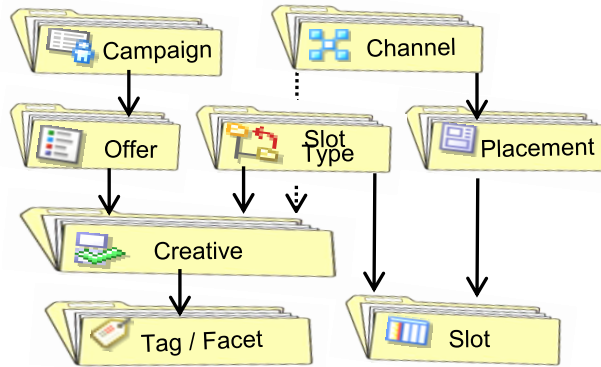
- 1 Channel: **Web**
- 2 Placement: **Homepage**
- 3 Creative-Content: **"Expert Tennis Tips"**
- 4 Slot Type: **Articles**
- 5 Slot: **Center Middle**
- 6 Offer: **Discount on Tennis Lessons**
- 7 Tags: **Tennis | Tips | Pros**

*Leads to multiple model updates and discovery of associated correlations across the graph*

# RTD Learning Graph

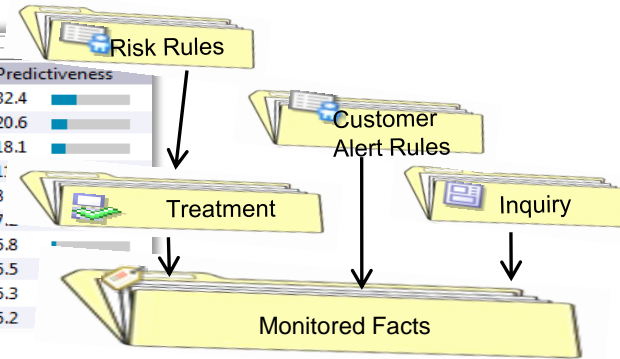
- Graph represents domain specific knowledge as a set of concepts and concepts relationships
- Graph is used to reason about **events** within that domain and **discover insights**
- Events propagate “predictive learning” throughout the graph
- One event updates multiple predictive models

Presentation / Click / Purchase as business events



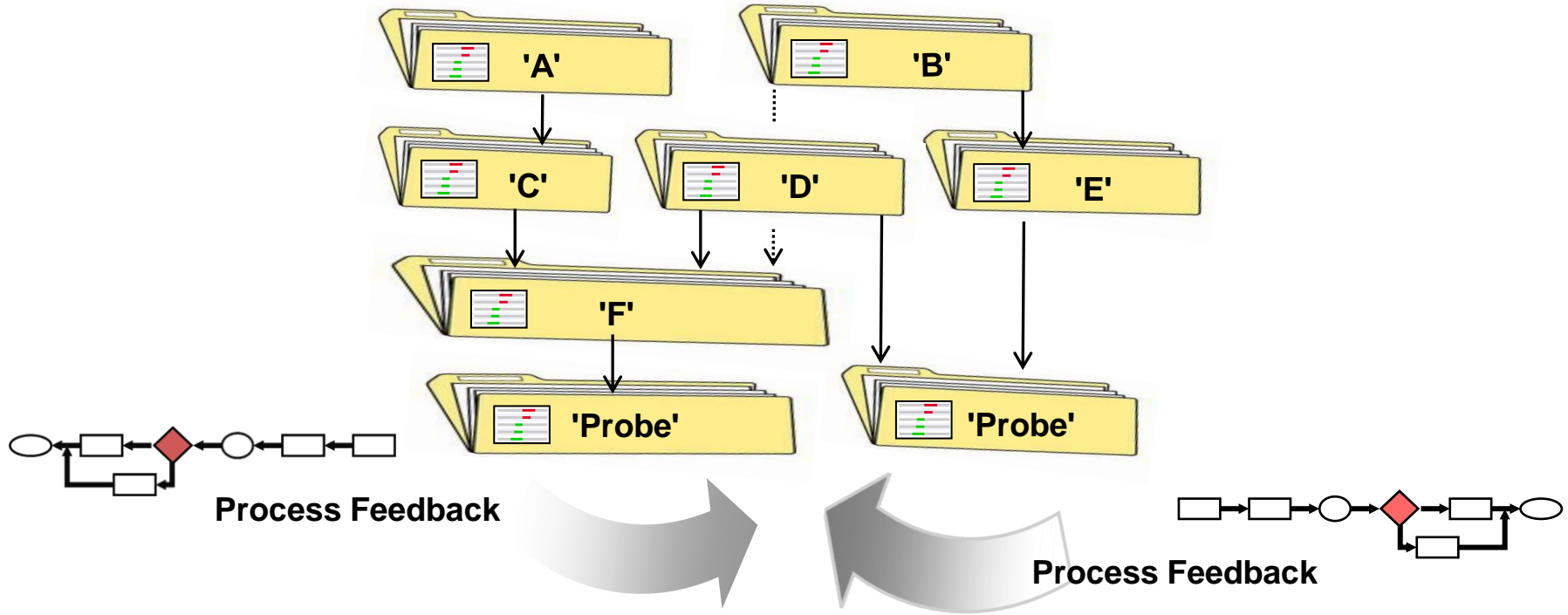
Claim Transactions as business events

Attribute	Predictiveness
Current Web Interaction Pages Visited	32.4
Customer Products Owned	20.6
Customer CallsLast6Months	18.1
Current Web Interaction Current Web	1
Customer Address Country	8
Current Web Interaction Web Origin	7.1
Customer MaritalStatus	6.8
Current Web Interaction Day	6.5
Customer Address State Province	6.3
Customer CardType	6.2



# RTD Learning Graph

Discovery of correlations between any objects in a graph





# RTD Learning Graph

## Key Features

### • RTD LEARNING GRAPH FEATURES

- Objects & relationships defined as a relational data model
  - 1 to Many / Many to 1 / Many to Many
- Predictive models & events are associated with objects
- Instances can be added on the fly e.g. tags / probes
- Single event can trigger learning across the Graph
- Graphs can be configured and extended on a per implementation basis
- Graphs can deal with very large volumes of learning

### • RTD PREDICTIVE MODELS FEATURES

- Fully automated lifecycle
  - Creation – Incremental Updates - Validation
- Input attributes
  - Numeric (automated binning), Strings, Dates, String Arrays
- Insight delivered through standard reporting
- Can predict sequence of events
- Built-in Time Windows & Partitions (Test / Control)
- Compression ratio
  - Model size is typically 0.0025 % of original data
- Velocity
  - Model scoring is sub-seconds

- Super Campaigns**
- Campaigns, Offers, Creatives and Tags.
- ▼ FY11 Q4 Alerts
  - ▼ Oracle - Best Of
  - ▼ Oracle Literature
  - ▼ Oracle Solutions
  - ▼ Oracle Store Banners
  - ▼ Oracle Store Product Recommendations
    - ▼ Database Appliance
      - ▼ DB Appliance Banner
        - TEST TAG
    - ▼ Exadata
      - ▼ Exadata Banner
        - TEST TAG
  - ▼ Java EE
  - ▼ Real Time Decisions (RTD)
  - ▼ SPARC Super Cluster
    - ▼ SPARC Super Cluster Banner
      - TEST TAG
  - ▼ Sun Server X2-8
  - ▼ Weblogic EE

Definition Performance Analysis Audit Trail

Overview Attributes Rules

Name DB Appliance Banner  
 Description  
 Choice Id DB Appliance Banner  
 Belongs to Offer Database Appliance  
 Fits Slot Type 200x400  
 Is in Channel Web Channel  
 Has Tag TEST TAG

Tags added to automatically discover correlations across the Learning Graph

Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

**Tags**

Tags and the Creatives that correspond.

- Aggressive Messaging
- Large Graphics
- Small Graphics
- TEST TAG

> Search Results

**Definition Performance Analysis Audit Trail**

**Counts History**

Report Settings

Time Window: Since Nov 4, 2012 Show Incomplete Time Window:  **Go**

Tag	Choice Outcome	Count	%
TEST TAG	Presented	3388	100.0%
	Interested	422	12.5%
	Converted	175	5.2%

Export to Excel | Export to CSV

Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

- Tags**
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Definition Performance Analysis Audit Trail

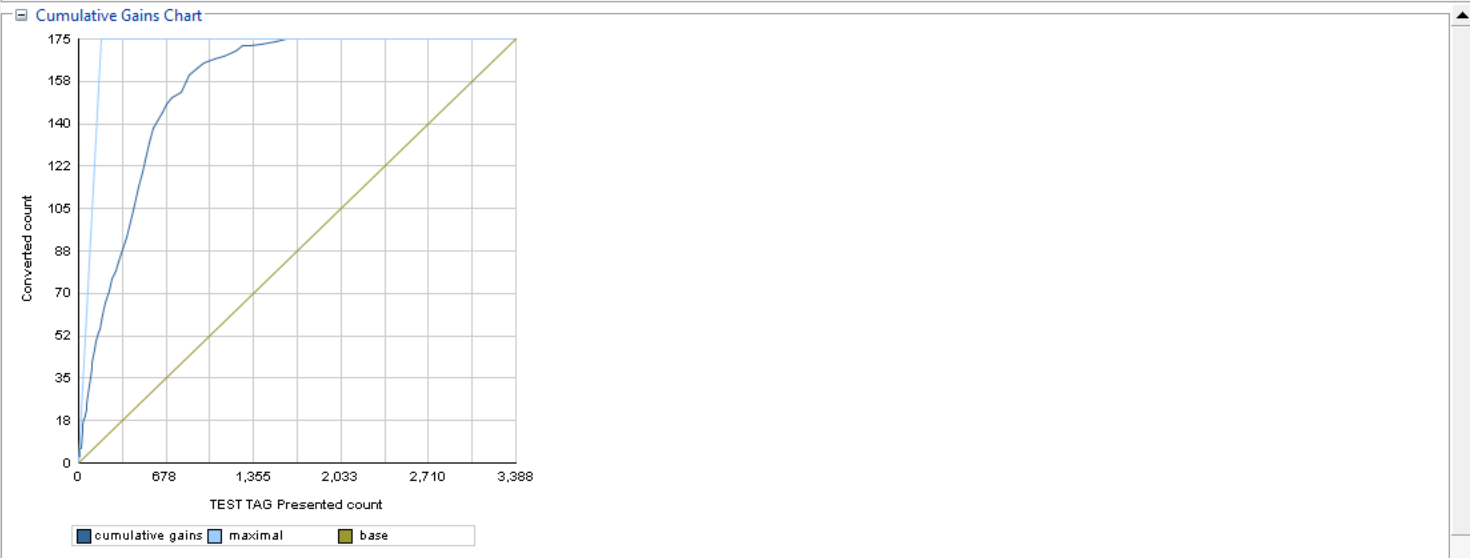
Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012 Show Incomplete Time Window:

Choice Outcome: Converted

Count: 175 Model Quality: 98.2  Go



Cumulative Gains Table

Model Errors

Mean Square Error (MSE)	Relative MSE	Root Mean Square Error (RMSE)	Relative RMSE	Mean Absolute Error (MAE)	Relative MAE	Mean Error (ME)	Relative ME
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Tag TEST TAG

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Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012

Show Incomplete Time Window: 

Choice Outcome: Converted

Count: 175

Model Quality: 98.2

Go

Cumulative Gains Chart

Cumulative Gains Table

Model Errors

Mean Square Error (MSE)	Relative MSE	Root Mean Square Error (RMSE)	Relative RMSE	Mean Absolute Error (MAE)	Relative MAE	Mean Error (ME)	Relative ME
0.032	12.010	0.179	3.465	0.063	1.211	-0.005	-0.090

Export to Excel Export to CSV

Glossary

Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

Tags

Tags and the Creatives that correspond.

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Definition Performance Analysis Audit Trail

Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012

Show Incomplete Time Window: 

Choice Outcome: Converted

Count: 175

Model Quality: 98.2

Go

Glossary

Actual likelihoods  $\equiv p_i, i = 1, \dots, n.$ Predicted likelihoods  $\equiv p_i^*, i = 1, \dots, n.$ Average actual likelihoods  $\bar{p} = \sum_{i=1}^n p_i/n.$ Mean Square Error (MSE)  $= \sum_{i=1}^n (p_i - p_i^*)^2/n.$ Relative MSE  $= MSE/\bar{p}^2, \bar{p} \neq 0.$ Root Mean Square Error (RMSE)  $= \sqrt{\sum_{i=1}^n (p_i - p_i^*)^2/n}.$ Relative RMSE  $= RMSE/\bar{p}, \bar{p} \neq 0.$ Mean Absolute Error (MAE)  $= \sum_{i=1}^n |p_i - p_i^*|/n.$ Relative MAE  $= MAE/\bar{p}, \bar{p} \neq 0.$ Mean Error (ME)  $= \sum_{i=1}^n (p_i - p_i^*)/n.$ Relative ME  $= ME/\bar{p}, \bar{p} \neq 0.$ Define number of positive and total outcomes respectively as  $N_0, N.$ Define areas under base curve and cumulative gains curve respectively as  $A_1, A_2.$ Model quality  $q \equiv \max(2(A_2 - A_1), 0).$  If  $N_0 \neq N, q \leftarrow q/(1 - N_0/N).$  Finally,  $q \leftarrow \sqrt{q(2 - q)}.$ 

Search Results

Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

**Tags**

Tags and the Creatives that correspond.

- Aggressive Messaging
- Large Graphics
- Small Graphics
- TEST TAG

> Search Results

Definition Performance Analysis Audit Trail

Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012 Show Incomplete Time Window:

Choice Outcome: Converted Minimum Predictiveness: 5

Number of bins: 3

Maximum Number of Rows: 10

Count: 175 Model Quality: 98.2  Go

Predictiveness of Entity Attributes for TEST TAG

Attribute	Predictiveness
Current Web Interaction Pages Visited	35.9
Customer NumberOfChildren	19.1
Current Web Interaction Days Since Last Interaction	17.1
Customer CallsLast6Months	15.4
Customer MaritalStatus	15.3
Current Web Interaction Current Web Page	14.4
Customer Language	13.7
Customer Products Owned	13.7
Customer Tenure	13.6
Customer Address State Province	12.5

Export to Excel | Export to CSV

Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

- Tags
- Tags and the Creatives that correspond.
- Aggressive Messaging
  - Large Graphics
  - Small Graphics
  - TEST TAG

Definition Performance Analysis Audit Trail

Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012 Show Incomplete Time Window:

Choice Outcome: Converted Minimum Predictiveness: 5

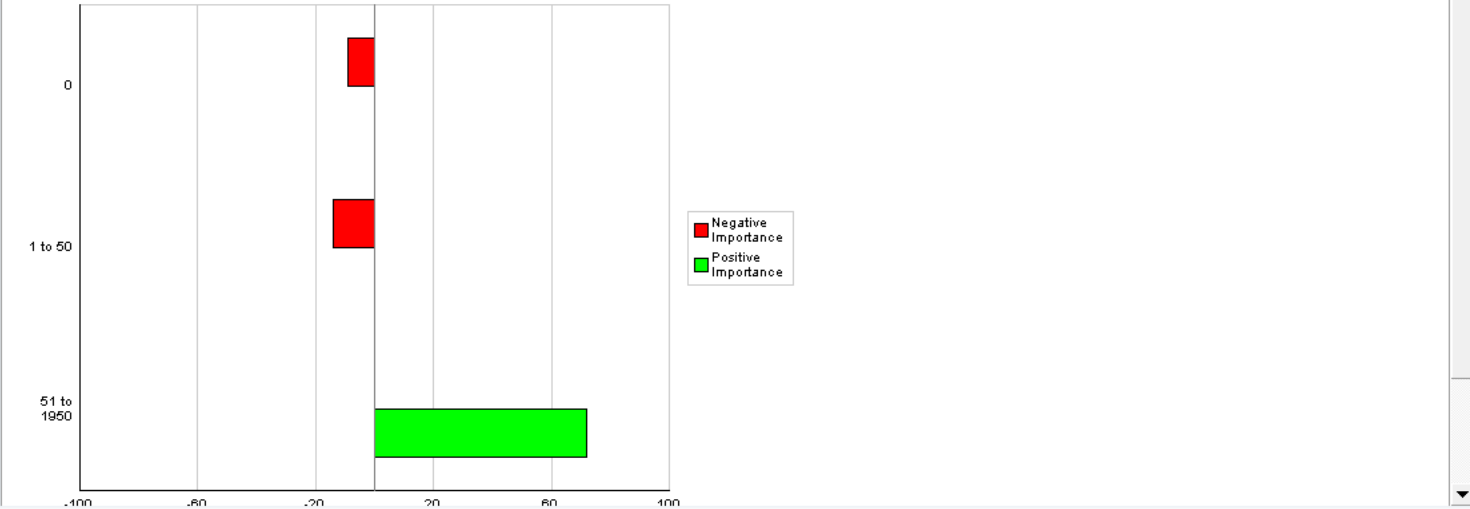
Number of bins: 3

Maximum Number of Rows: 10

Count: 175 Model Quality: 98.2  Go

Predictiveness of Entity Attributes for TEST TAG

Most Important Current Web Interaction Days Since Last Interaction Values for TEST TAG





Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

- Tags**
- Tags and the Creatives that correspond.
- Aggressive Messaging
  - Large Graphics
  - Small Graphics
  - TEST TAG

Definition Performance Analysis Audit Trail

Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012 Show Incomplete Time Window:

Choice Outcome: Converted Minimum Predictiveness: 5

Number of bins: 3

Maximum Number of Rows: 10

Count: 175 Model Quality: 98.2  Go

- Predictiveness of Entity Attributes for TEST TAG
- Most Important Current Web Interaction Days Since Last Interaction Values for TEST TAG
- Most Important Current Web Interaction Days Since Last Interaction Values for TEST TAG

Current Web Interaction Days Since Last Interaction	Actual Count	Expected Count	Difference	Importance	Input Count	Output Count	Total Count
0	9	13	-30.8%	<div style="width: 100%; height: 10px; background-color: #ccc; position: relative;"><div style="width: 30.8%; background-color: #7030a0;"></div></div>	258	175	3388
1 to 50	119	151	-21.2%	<div style="width: 100%; height: 10px; background-color: #ccc; position: relative;"><div style="width: 21.2%; background-color: #7030a0;"></div></div>	2931	175	3388
51 to 1950	47	10	370.0%	<div style="width: 100%; height: 10px; background-color: #ccc; position: relative;"><div style="width: 70.0%; background-color: #008000;"></div></div>	199	175	3388

Export to Excel  Export to CSV

- Relative Distribution of Current Web Interaction Days Since Last Interaction Values
- Pareto of Current Web Interaction Days Since Last Interaction Values
- Pareto of Current Web Interaction Days Since Last Interaction for the Whole Population

Tag TEST TAG

View: Main Repository Details Audit Trail Commit Discard New Project View Projects

Search All Advanced

- Tags
- Tags and the Creatives that correspond.
- Aggressive Messaging
  - Large Graphics
  - Small Graphics
  - TEST TAG

Definition Performance Analysis Audit Trail

Best-fit Drivers Trends Quality

Report Settings

Time Window: Since Nov 4, 2012 Show Incomplete Time Window:

Choice Outcome: Converted Maximum Number of Rows: 10

Count: 175 Model Quality: 98.2  Go

Highest correlating attribute values for TEST TAG

Attribute	Value	Correlation
Current Web Interaction Days Since Last Interaction	1451 to 1950	<div style="width: 80%; background-color: #0070C0;"></div>
Customer Tenure	66 to 116	<div style="width: 75%; background-color: #0070C0;"></div>
Customer CallsLast6Months	12 to 16	<div style="width: 70%; background-color: #0070C0;"></div>
Customer NumberOfChildren	2 to 5	<div style="width: 65%; background-color: #0070C0;"></div>
Current Web Interaction Current Web Page	Home Page	<div style="width: 60%; background-color: #0070C0;"></div>
Customer Address State Province	NY	<div style="width: 55%; background-color: #0070C0;"></div>
Current Web Interaction Pages Visited	Privacy	<div style="width: 50%; background-color: #0070C0;"></div>
Current Web Interaction Web Origin	Google	<div style="width: 45%; background-color: #0070C0;"></div>
Customer CardType	American Express	<div style="width: 40%; background-color: #0070C0;"></div>
Customer Address Country	United States	<div style="width: 35%; background-color: #0070C0;"></div>

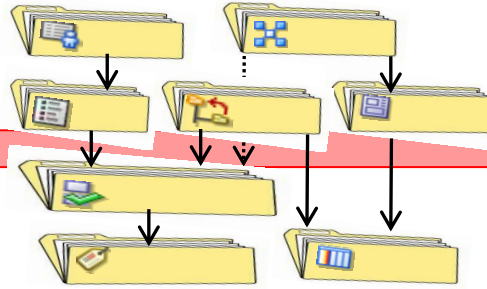
Export to Excel Export to CSV

# RTD Learning Graph

## Automated Discovery for Big Data



Billions  
of  
business  
events



Domain Specific RTD  
Learning Graph



Learn

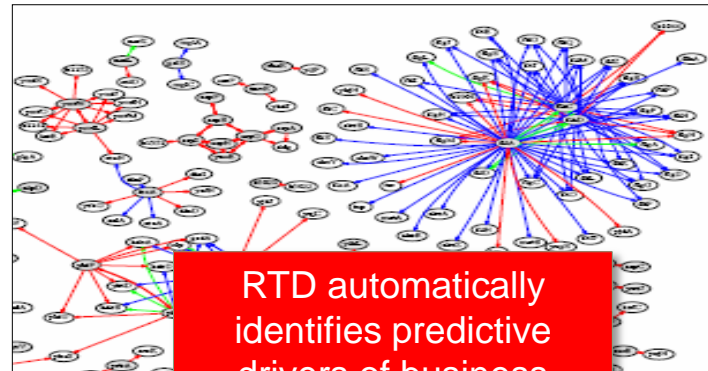
Attribute	Predictiveness
Customer Number Of Years Established	57.6
Current Web Interaction Previous Web Page	39.7
Current Web Interaction Current/ViewedProductId	36.5
Current Web Interaction Web Origin	35.7
Current Web Interaction Current Web Page	32.9
Customer Address State Province	30.1
Customer Line Of Business	26.3
Customer MaritalStatus	25.5
Customer Address Country	25.3
Current Web Interaction Days Since Last Interaction	5.8

Hundreds of RTD  
Learning Models

# RTD Learn As You Go (LAYGO) Applications

## Automated Discovery for Big Data

- RTD for predictive discovery automation
  - Business can **discover** predictive drivers within very large data sets
  - Business can discover **relationships** across data domains
- Learning immediacy and interactivity
  - Business can ask ad-hoc questions to the “**Learning Graph**”
- Learn & Act
  - Predictive models can be used for discovery-reporting and / or decision making
  - No dependency on statisticians as model lifecycle is fully automated
    - Creation – Validation – Updates – Recycling



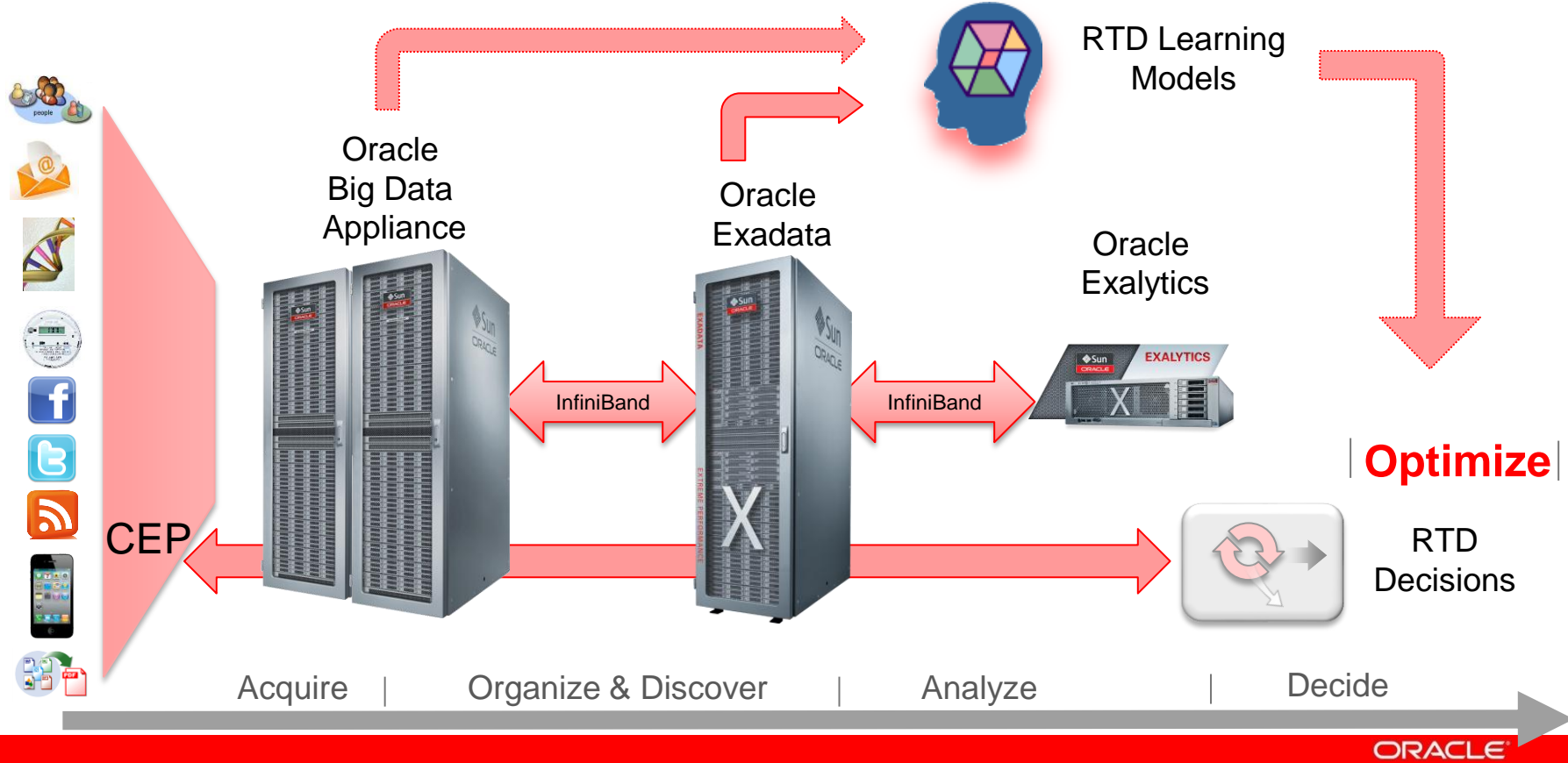
RTD automatically identifies predictive drivers of business events



Attribute	Predictiveness
Current Web Interaction Pages Visited	32.4
Customer Products Owned	20.6
Customer CallsLast6Months	18.1
Current Web Interaction Current Web Page	11.2
Customer Address Country	8.2
Current Web Interaction Web Origin	7.2
Customer MaritalStatus	6.8
Current Web Interaction Days Since Last Interaction	6.5
Customer Address State Province	6.3
Customer CardType	6.2

# RTD and Big Data

| LAYGO |



# RTD Proof Point

## Automated Discovery for Big Data

- RTD Predictive Models at Global Financial Services Institution
  - Have learned on 30 months of production data from .com / Facebook / Tablet / Mobile interactions
    - ~ 400M offers presented / month
    - ~ 220 variables used as predictive inputs per customer visit
    - ~ 436 offers / messages considered per visit
  - Number of learned correlations
    - **2.6 Trillion** ( $30 * 400,000,000 * 220$ )
  - Number of models scoring computations
    - **1.1 Quadrillion** ( $30 * 400,000,000 * 220 * 436$ )
- Business impact
  - “Lifted Conversion Rate by **43%** and Benefit Per Impression by **122%** over control group”

# Oracle RTD for Codelco



## Company Overview

- World's largest copper producer with 11% of global production
- 100% state owned and a strategic asset for Chile
- 58,000 direct job positions
- Sales: 13B USD

## Challenges

- Vision is to move from “Traditional Mining” to “Intelligent Mining”
- Variation in the production volumes based on the production plan
- Opportunity to analyze and eliminate causes of variation
- Predictive maintenance

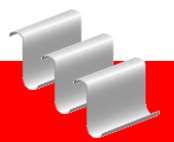
## Solution

- Oracle Fusion Middleware
- Manufacturing Operations Center
- Oracle Business Intelligence
- Real Time Decisions

## Results

- Implemented the solution at one mine site
- Improved visibility into mine operations and analysis of production variation
- Opportunity to expand to other processes and mines

8. Cockpit – Executive Panel  
9. Management Reports



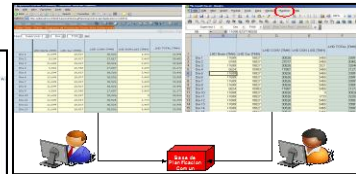
4. Daily Production Monitoring in realtime



3. Equipment availability and simultaneous use analysis



5. Short term planning – collaborative and centralized



6. Event predictive analysis and causalities

Alerta de Cambio de Condición

Aceptar

Cuestionar

Pedir Ayuda

7. Mining Knowledge Management

1. Process integration

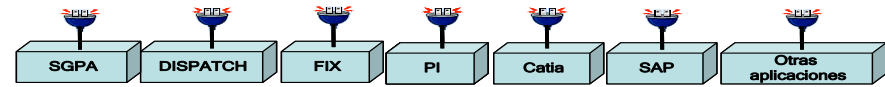
Respositorio de Datos Comun Unificado

Inteligencia de negocios con herramientas de predicción en línea

Motor de aprendizaje operacional continuo

Facilidad para generar tableros de control y reportes

Realtime Services Platform





# Oracle RTD for Codelco



- Variabilidad\_VYD (Development)
    - Strategic Objectives
      - Performance Goals
      - Decisions
    - Decision Process
      - Rules Library
        - Filtering Rules
        - Scoring Rules
      - Clasificacion Flujo
        - Malo
        - Normal
        - Optimo
      - Condicion
        - Flujo Alto
        - Flujo Normal
        - Flujo Total Bajo
    - Integration Points
      - Informants
      - Advisors
    - Entity Catalog
      - Session
      - CH 1 Norte
      - CH 1 Sur
      - CH 3 y 4
      - CH Don Luis
      - Linea Convencional
      - Linea SAG
      - MDA CONV
      - Molienda SAG
      - Molienda Unitaria
      - Proceso
      - Sensor

**Flujo Total Bajo**

Best-fit Drivers Trends

Report Settings

Time Window: Since 01-04-2009

Choice Outcome: Encontrada

Maximum Number of Rows: 100

Count: 154 Model Quality: 99

0.84000003 to 1.2056 0 22 -100% 430 154

Export to Excel | Export to CSV

Relative Distribution of PROCESO Linea Convencional MDA CONV MCONV\_WITOT\_FIX VALOR\_MINIMO\_CUATRO\_HORA Values

Value Range	Flujo Total Bajo	Overall Population
0	~60	~10
0.0 to 0.245	~15	~5
0.245 to 0.305	~10	~2
0.315 to 0.505	~1	~10
0.51 to 0.6	~0	~10
0.6 to 0.69	~0	~10
0.69 to 0.76	~0	~10
0.76 to 0.84	~0	~10
0.84000003 to 1.2056	~0	~10

Automated Correlation Discovery and Explanation



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