## **Drive Enterprise Value**

**Enabled by SAP Governance Risk & Compliance solns** 

**Murali Narayanamurthy** 



## Manage Enterprise Risk and Compliance

Access Risk Management Controls & Compliance Monitoring

Enterprise Risk Management Planning and performing Audits

Fraud detection and investigation











## Manage access risk and prevent fraud

- SAP GRC
   Access Control
- SAP GRC
   Access
   Approver mobile
   application

Ensure effective controls and ongoing compliance

SAP GRC Process Control

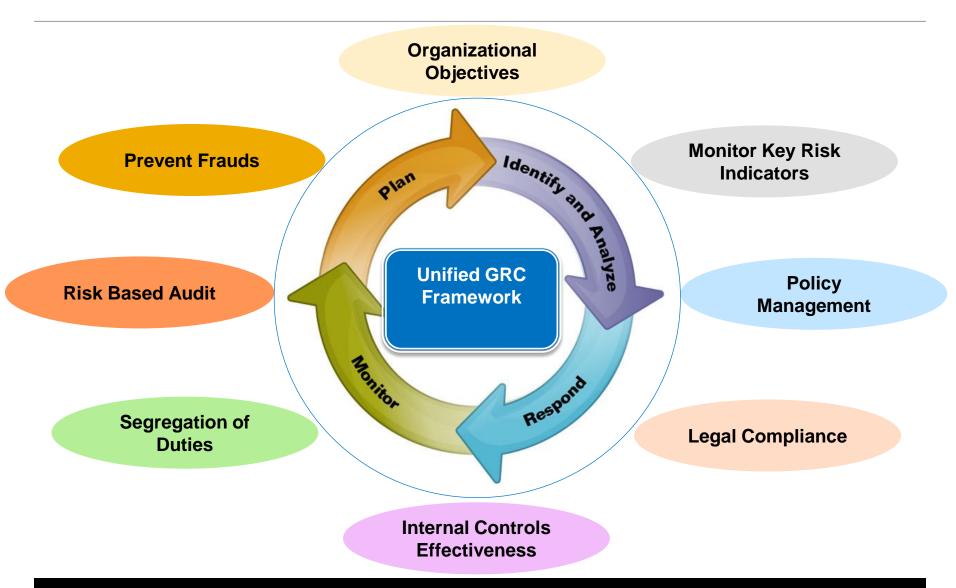
SAP GRC Policy Survey - mobile application Preserve and grow value

SAP GRC Risk Management Drive a unified audit management function

SAP GRC Audit Management Prevent, detect, investigate, and monitor fraud patterns and predictions

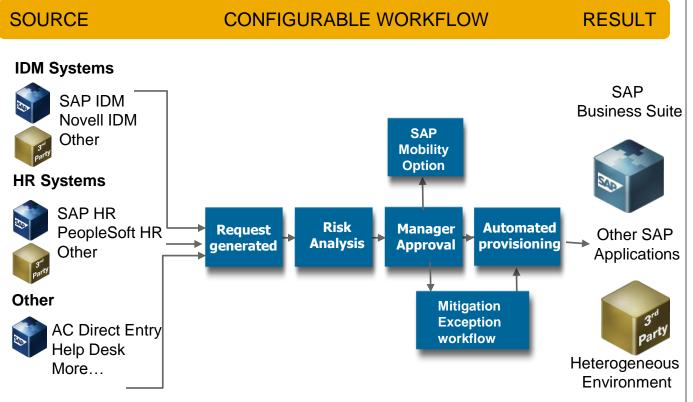
SAP GRC Fraud Management

## SAP's Approach: Unified Governance Risk & Compliance



## **Streamlined User Access Management**

Standardizes on SAP Business workflow technology, supports more flexible and tailored access request and approver views, simplifying the provisioning process



#### **Key Benefits**

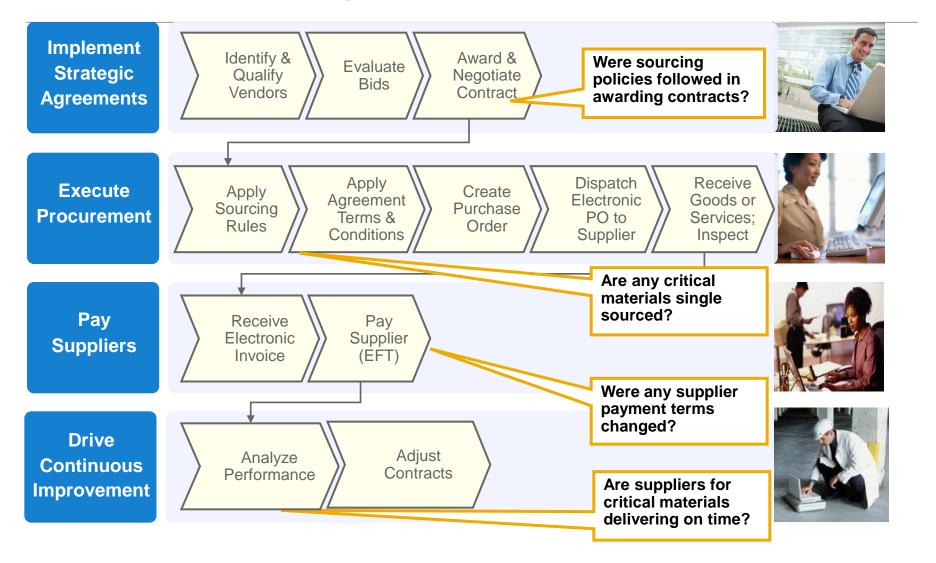
Business workflow reduces manual tasks and streamlines access request processing

Leverage existing resources for workflow administration and configuration

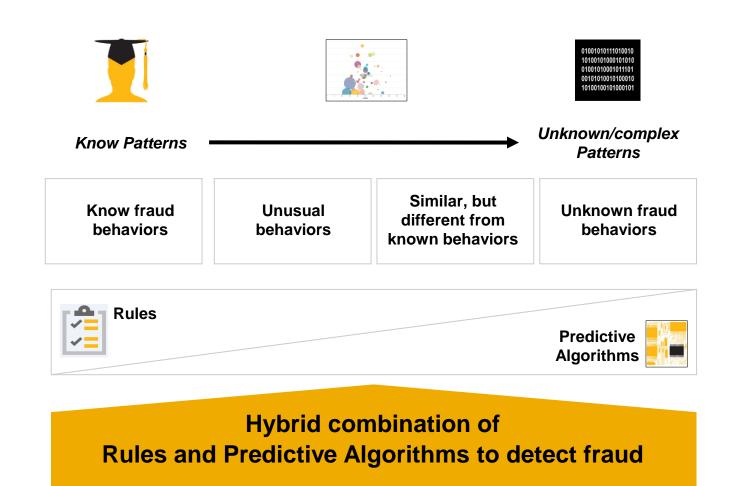
Faster and easier for users to request the roles they need.

## **Business Control Monitoring:**

### **Supplier Relationship Management Process**

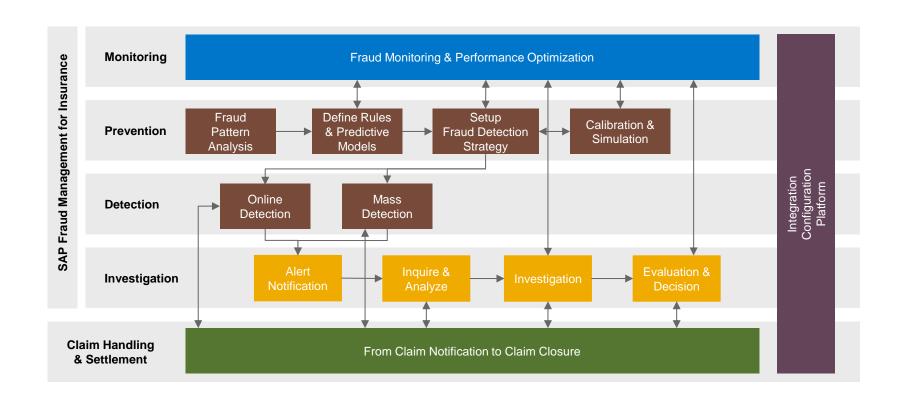


## Combining the power of different approaches SAP Fraud Management covers the full spectrum of fraud detection



## **Fraud Management**

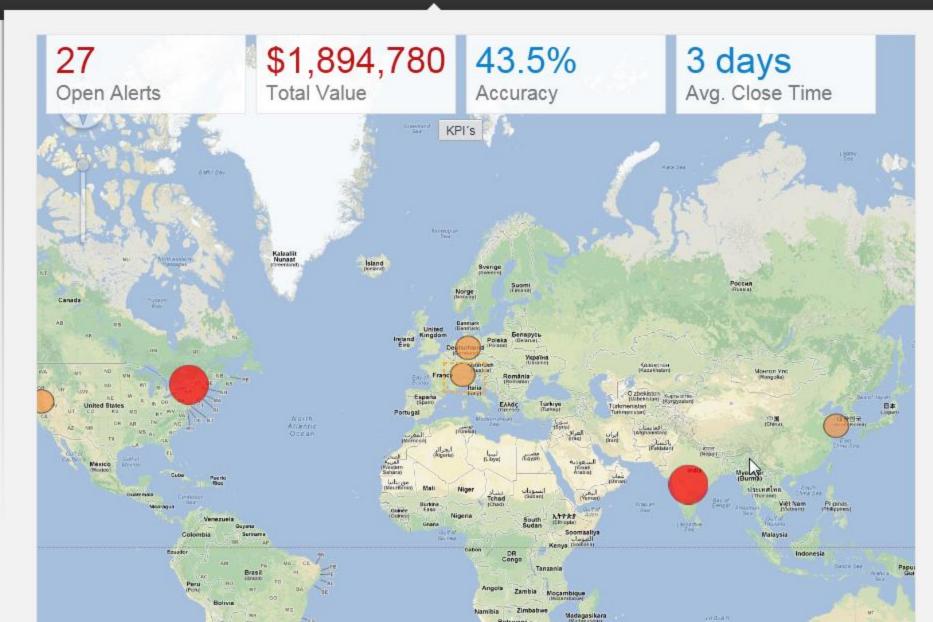
### A Closed-loop, Cross-Functional Process



Head of Fraud
Investigation

Business
Head of Claim
Analyst
Management
CIO

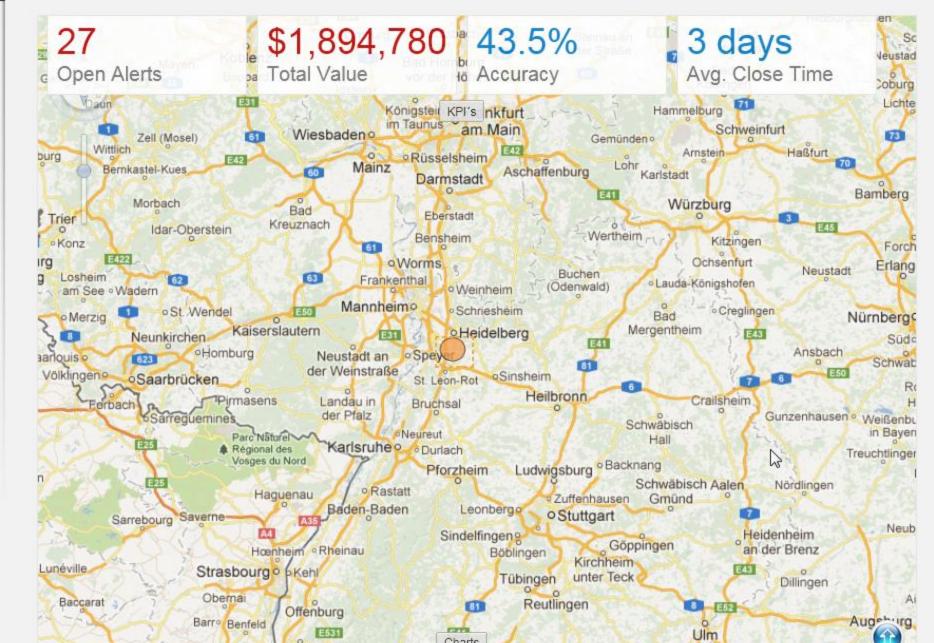
#### **EXECUTIVE INSIGHT** DETECTION HOME



#### **EXECUTIVE INSIGHT** DETECTION HOME



## HOME ALERTS DETECTION EXECUTIVE INSIGHT





0, ~



#### ALERT SUMMARY











## My Alerts





Alert: 90527

Alert: 90526

Alert: 90855

Vendor: WQWQ

Alert: 90562

2 3 >

In Process | Responsible: David

Vendor: 1336 | Date: 01.01.2012

In Process | Responsible: David

Vendor: 1379 | Date: 01.01.2012

Completed | Responsible: David

Smith | From: 28.12.2012

Smith | From: 28.12.2012

Smith | From: 03.01.2013







Update Your Status



Torsten Zube added: Alert 33025 (Text)

Source: New Fraud Pattern? -

Sep 11, 2012 7:35 AM -

Unmark Important - Bookmark



1 person thinks this is important



Torsten Zube edited: Alert

33025 (Text)

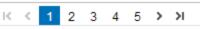
Changed text to

"https://ldcifra.wdf.sap.cor p:44315/sap/bc/ui5\_ui5/sa p/fra shell/index.html?sapui-

appcache=false&sapclient=100&sap-

language=FN#Alerts







In Process | Responsible: David Smith |

From: 2012-12-28 Vendor: 278



In Process | Responsible: David Smith |

From: 2012-12-28 Vendor: 24



In Process | Responsible: David Smith |

From: 2012-12-28 Vendor: 1779



#### Alert: 90522

In Process | Responsible: David Smith |

From: 2012-12-28 Vendor: 1560



#### Alert: 90524

Alert: 90564

In Process | From: 28.12.2012 Vendor: 363 | Date: 01.01.2012

In Process | From: 28.12.2012

Vendor: 383 | Date: 01.01.2012



### Alerts (48)

| Assign 』 |        | Show: My Open Alerts |            |       |                      | Q          |                  |      |              |                 |
|----------|--------|----------------------|------------|-------|----------------------|------------|------------------|------|--------------|-----------------|
| ò        | Rating | ₹                    | Туре       | Alert | Investigation Reason | Due Date   | Inv. Object Type | Inv  | Alert Status | Person Responsi |
|          | 444    | ΔΔ                   | <b>(B)</b> | 90527 | Conflict of Interest | 02.01.2013 | Vendor           | 1336 | In Process   | David Smith     |
|          | 444    | 44                   |            | 90526 | Conflict of Interest | 03.01.2013 | Vendor           | 1379 | In Process   | David Smith     |
|          | 444    | ΔΔ                   | <b>(B)</b> | 90525 | Conflict of Interest | 02.01.2013 | Vendor           | 1457 | In Process   | David Smith     |
|          | 444    | ۵۵                   | <b>(B)</b> | 90523 | Conflict of Interest | 03.01.2013 | Vendor           | 1559 | In Process   | David Smith     |
|          | 444    | ΔΔ                   | <b>(B)</b> | 90521 | Conflict of Interest | 03.01.2013 | Vendor           | 1567 | In Process   | David Smith     |
|          | 444    |                      | <b>(B)</b> | 90520 | Conflict of Interest | 03.01.2013 | Vendor           | 1569 | In Process   | David Smith     |
|          | 444    | ΔΔ                   | <b>(E)</b> | 90519 | Conflict of Interest | 04.01.2013 | Vendor           | 1685 | In Process   | David Smith     |
|          | 444    |                      | <b>(E)</b> | 90518 | Conflict of Interest | 04.01.2013 | Vendor           | 1688 | In Process   | David Smith     |
|          | 444    | ΔΔ                   | <b>(B)</b> | 90517 | Conflict of Interest | 04.01.2013 | Vendor           | 1731 | In Process   | David Smith     |
|          | 444    |                      | <b>(B)</b> | 90516 | Conflict of Interest | 04.01.2013 | Vendor           | 174  | In Process   | David Smith     |
|          | 444    |                      | <b>(E)</b> | 90515 | Conflict of Interest | 04.01.2013 | Vendor           | 1744 | In Process   | David Smith     |
|          | 444    |                      | <b>(E)</b> | 90514 | Conflict of Interest | 05.01.2013 | Vendor           | 1768 | In Process   | David Smith     |
|          | 444    |                      | <b>(E)</b> | 90513 | Conflict of Interest | 05.01.2013 | Vendor           | 1776 | In Process   | David Smith     |
|          | 444    |                      | <b>(B)</b> | 90565 | Conflict of Interest | 02.01.2013 | Vendor           | 314  | In Process   | David Smith     |
|          | 444    |                      | <b>(B)</b> | 90564 | Conflict of Interest | 02.01.2013 | Vendor           | 363  | In Process   | David Smith     |
|          | 444    |                      | <b>(E)</b> | 90563 | Conflict of Interest | 03.01.2013 | Vendor           | 366  | In Process   | David Smith     |
|          | 444    |                      | <b>(B)</b> | 90562 | Conflict of Interest | 03.01.2013 | Vendor           | 383  | In Process   | David Smith     |
|          | 444    |                      | <b>(B)</b> | 90561 | Conflict of Interest | 04.01.2013 | Vendor           | 393  | In Process   | David Smith     |
|          | 444    | ΔΔ                   | <b>(</b>   | 90560 | Conflict of Interest | 04.01.2013 | Vendor           | 433  | In Process   | David Smith     |



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#### RISK ASSESSMENT

Risk Rating: A A A A

# USER FRIENDLY INTERFACE TO HELP MATURE ALGORITHMS





#### Calibration Settings for Strategy "CONFLICT OF INTEREST" 1 Start Date 10.01.1995 1 End Date 09.01.2013 Reference Strategy Apply .d 📰 Comparison **Simulation Tuning** Start Simulation Save Composition Number of Alert Items **Threshold** 100 20 500 1000 15 75 99 Was: 99 10 50 **Detection Methods** 25 Turnover of first year exceeds threshold Proven Fraud False Positive Unclassified Actual Simulation Reference 100 50 Efficiency 100 Was: 100 100% Actual Simulation Reference Parameters Alert Alert Alert 80% Items Items Items 60% Proven Growth between 1st and 2nd 0% 0 0 0 0% Fraud year exceeds threshold 40% False 0% 0% 0% 100 0 Positive 20% 0% 0% Unclassified 0 100 Was: 100 New Alert Simulation Reference 0% Items Total

007

### 

#### Comparison



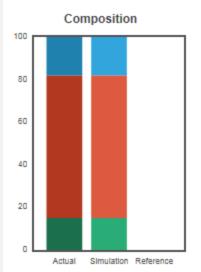
Number of Processed Records: 288

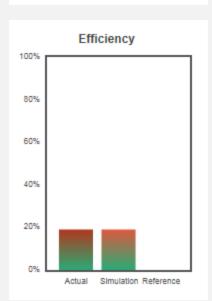


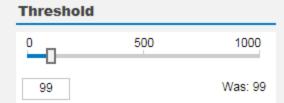
#### **Simulation Tuning**

Start Simulation



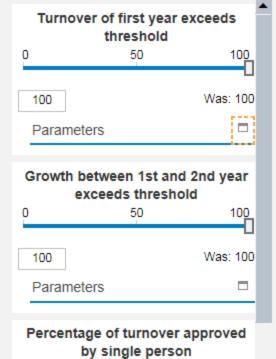






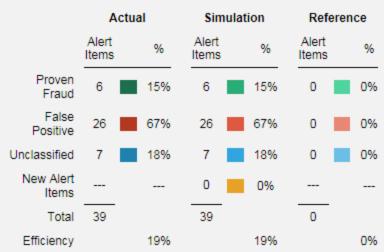
Save

#### **Detection Methods**



50

100





Number of Processed Records: 288

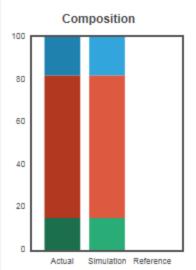


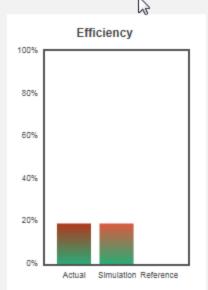
#### **Simulation Tuning**

Start Simulation



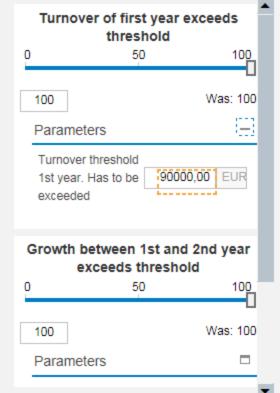


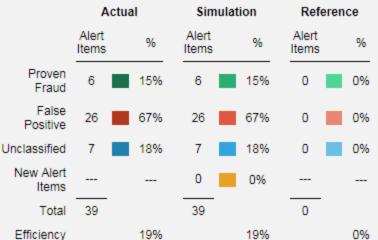


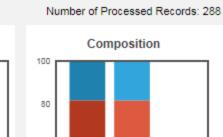


#### **Threshold** 500 1000 0 99 Was: 99

Save



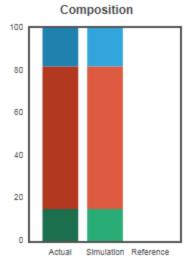


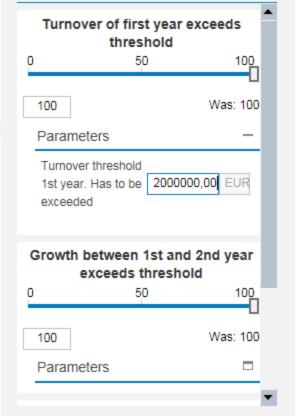


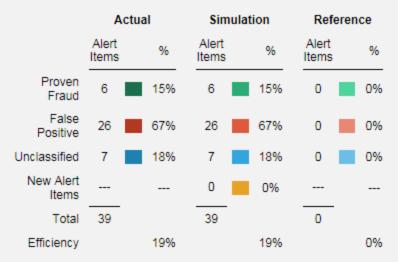
#### **Simulation Tuning**

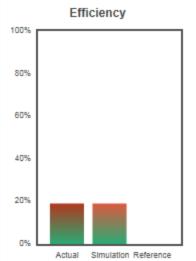














Number of Processed Records: 288



#### **Simulation Tuning**

Start Simulation



Simulation

35%

65%

0%

0%

35%

Alert

Items

6

11

0

17

Alert

Items

0

0

Actual

%

15%

67%

18%

19%

Alert

Items

Proven

Fraud

False

Positive

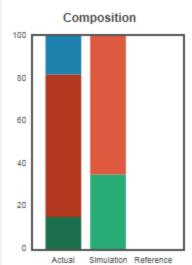
Unclassified

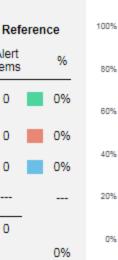
New Alert

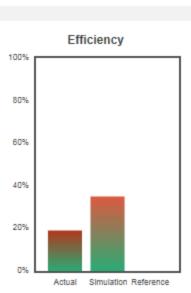
Efficiency

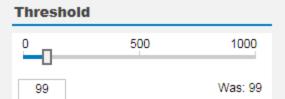
Items

Total

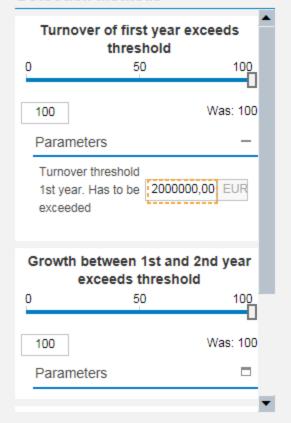








Save

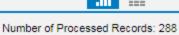




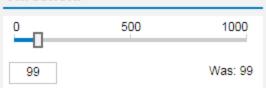


#### **Simulation Tuning**

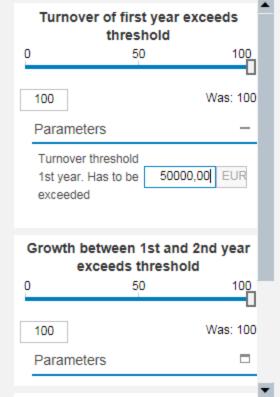
Start Simulation

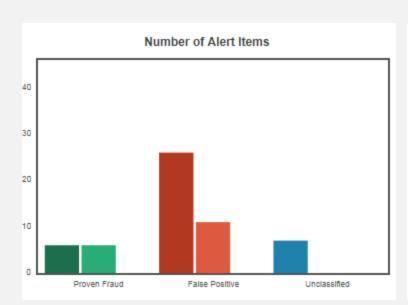


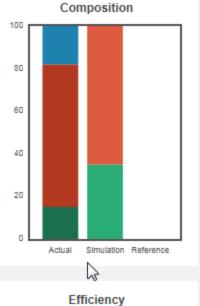




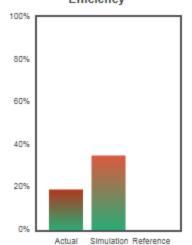
Save











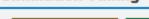


Number of Processed Records: 288



#### **Simulation Tuning**

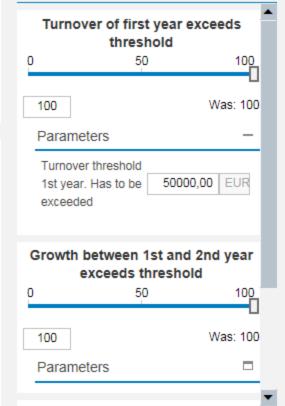
Start Simulation

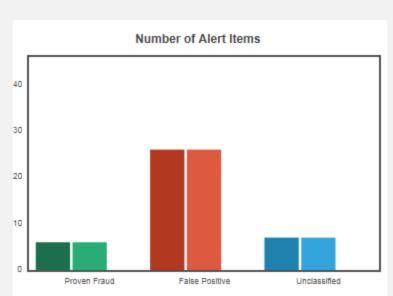


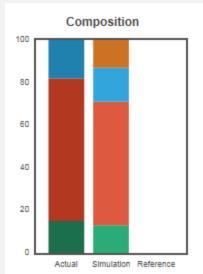


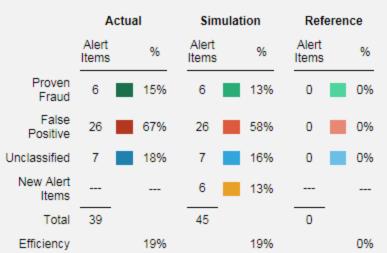


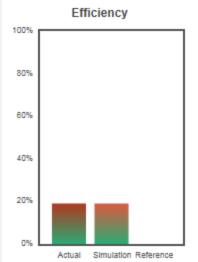
Save











## **SAP Risk Management**

### Preserve and grow value

Monitor thresholds, effectiveness of risk responses, and corrective

actions

Respond to risk after balancing costs and benefits

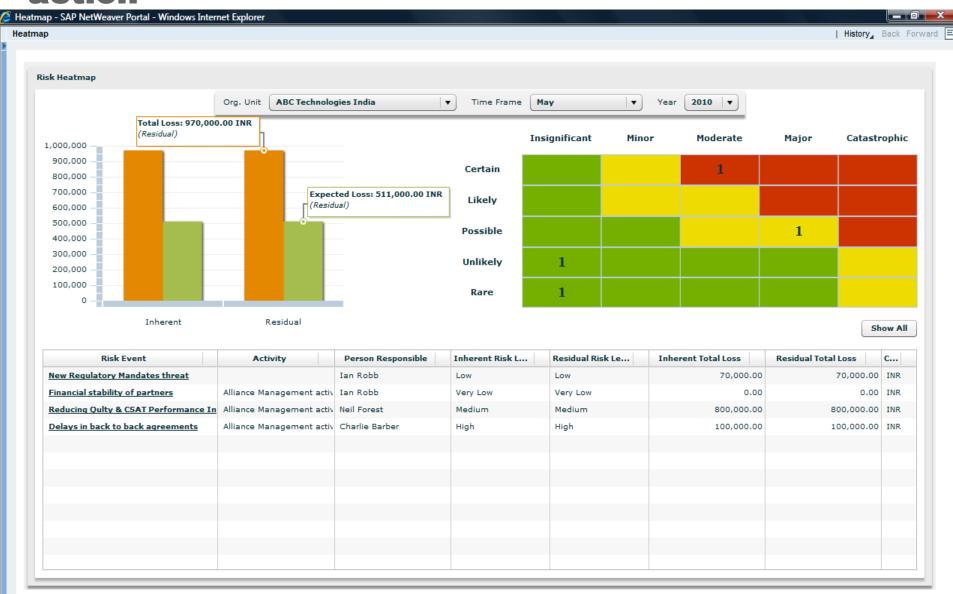


Plan risk management within the context of value to the organization

Link risks, risk drivers, risk indicators, impacts and responses

Analyze risk via scenarios, modeling, & other factors to understand exposure

## **Intuitive Risk Heat maps for prioritization and action**



Reporting ...

🏉 Heatmap ...

Microsoft ...

D:\Compli...

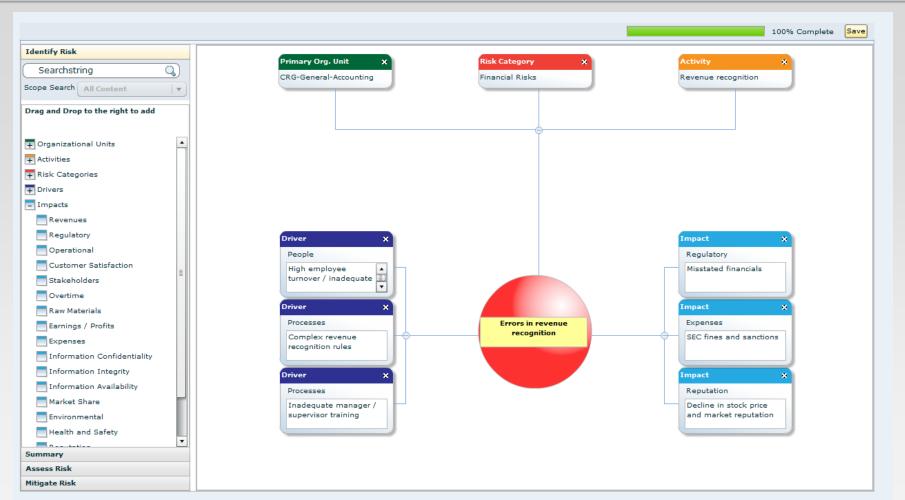
Reliance ...

// https://co...

## Risk Planning (Bow-tie Builder)



## Define the context within which business risks are to be managed

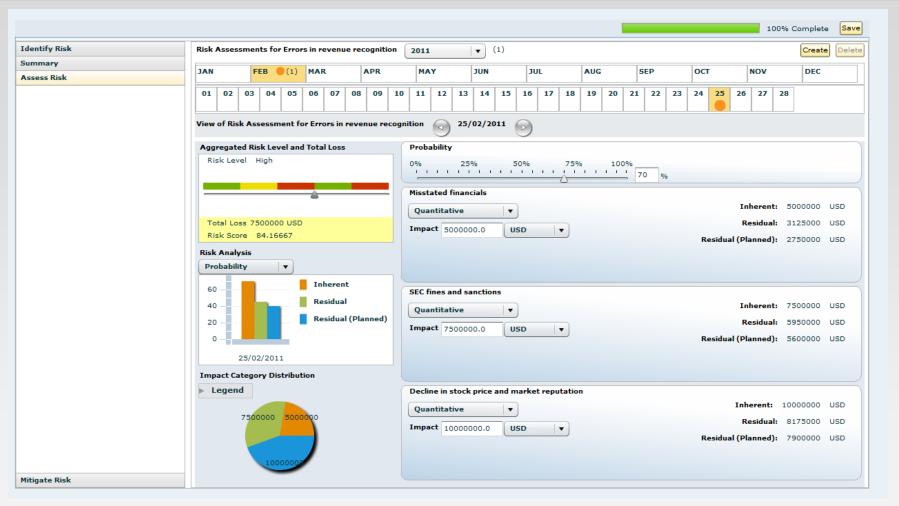


### **Risk Assessment**

#### **Business context based assessments**



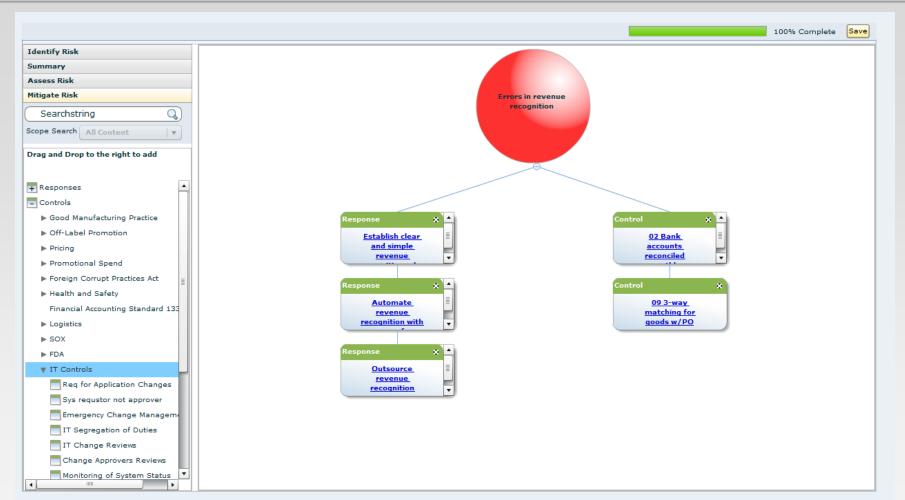
## Identify and assess the impact of risk events on the business



## Risk Response Implement responses – Superior mitigation with automation



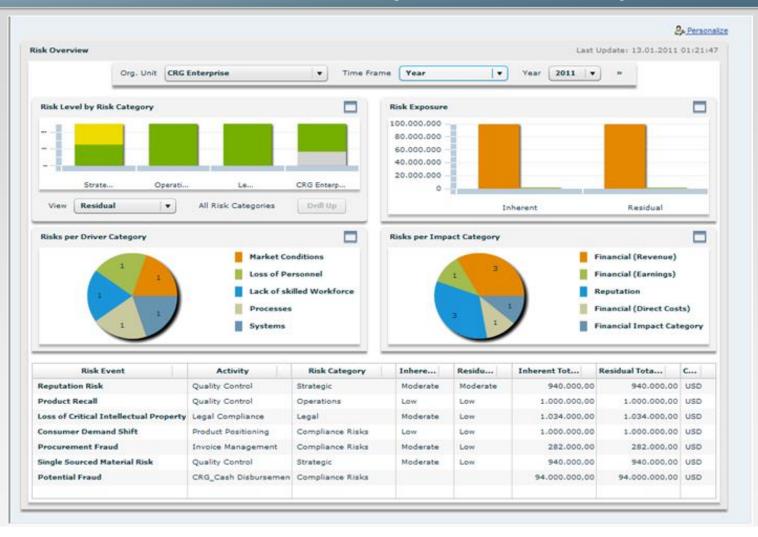
Evaluate and select the risks to be addressed and create risk responses



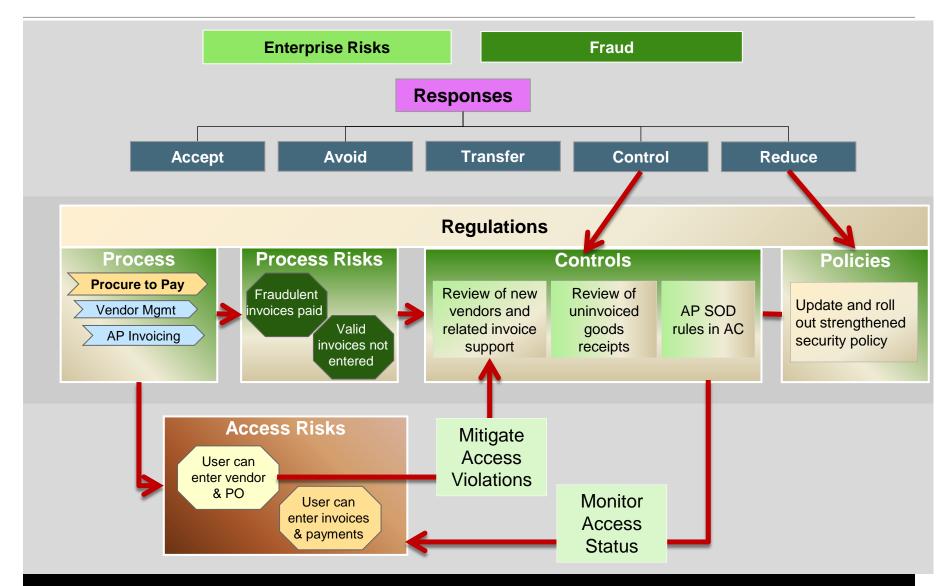
## Risk Monitoring Proactive risk management and prevention



### Monitor the effectiveness and completeness of the response actions



## **Enterprise Wide Integrated Governance Risk & Compliance Example using SAP GRC Solutions**



## Achieving Benefits with Enterprise Risk and Control Management

## **Strategic Alignment**

### **Predictable Performance**

### **Confident Decisions**

Unified GRC is the key step en route to building the linkage from strategy to execution, because you can prove that linkage works.

Increased visibility into the impact of risk against performance.

Improve predictability and performance.

Allocate resources and capital where it is most needed



## **Thank You!**

### Murali Narayanamurthy

Director Office of the CFO & GRC Solutions
SAP India Private Limited
(+91) 9820972906
murali.narayana.murthy@sap.com