

# SAP Road Map for Governance, Risk, and Compliance Solutions



# Legal disclaimer

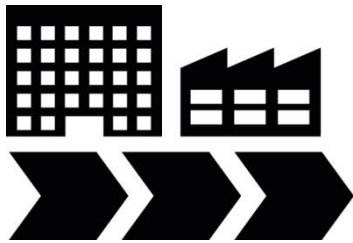
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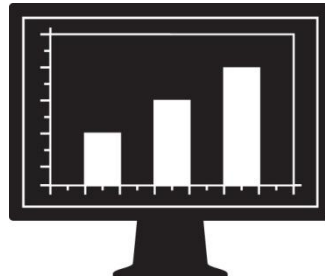
# Global trends impacting governance, risk, and compliance (GRC) practices

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## Increasing and changing regulatory requirements

**Fact:** In fiscal year 2010, 43 major new regulations were imposed – U.S. General Accounting Office data



## Added pressure for transparency and accountability

**Fact:** Investors want auditors to dig deeper into assertions that fall outside of audited financial statements



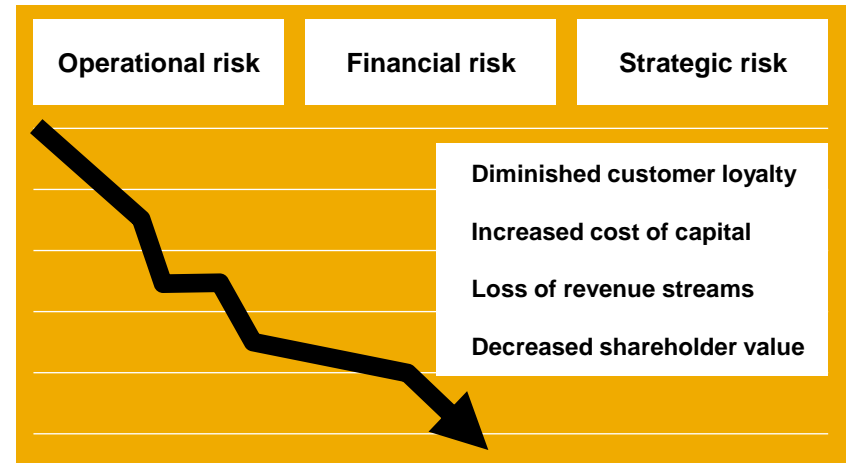
## Virtualized IT and business process environments

**Fact:** Cloud computing is here to stay, but the legal and compliance risks that come with it are daunting

# Pervasive challenges facing companies today



GRC programs require manual efforts and are too costly



Impact of risk events and noncompliance is high

# Proactively balance risk and opportunity

## SAP solutions for governance, risk, and compliance (GRC)

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### MANAGE BETTER

Automate manual tasks  
Employ best practices  
Reduce effort and cost

### PROTECT BETTER

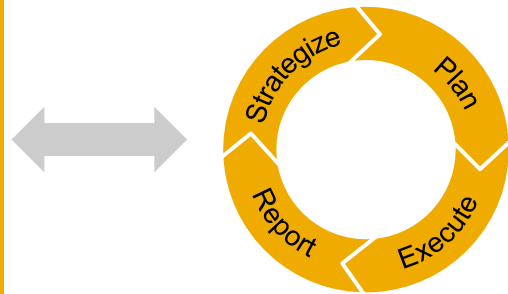
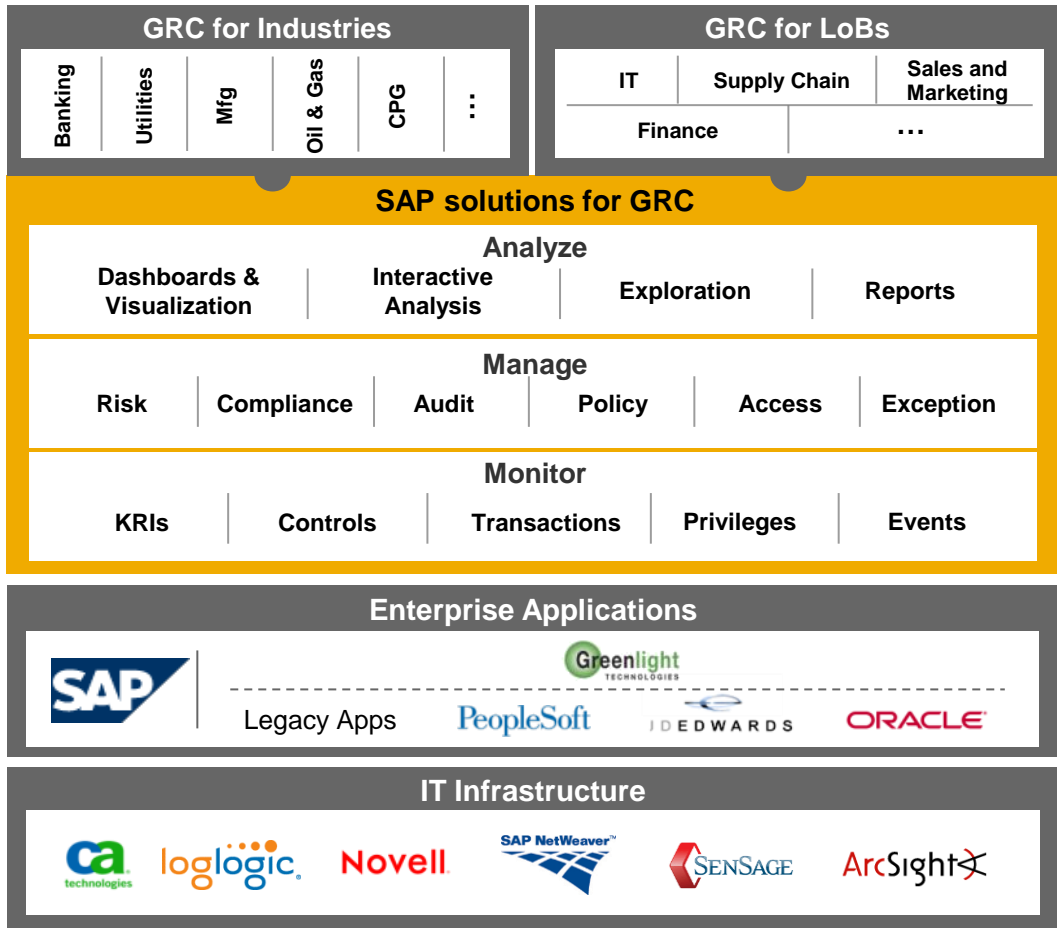
Automate monitoring  
Real-time analysis  
Industry-specific solutions

### PERFORM BETTER

Align with strategy and planning  
Embed analytics  
Scenario modeling

# Key competencies for success

## SAP solutions for GRC



\*Lines of business

# SAP solutions for GRC

Manage, protect, and perform

## Access control



Confidently manage and reduce access risk enterprise-wide

## Process control



Ensure effective controls and ongoing compliance

## Risk management



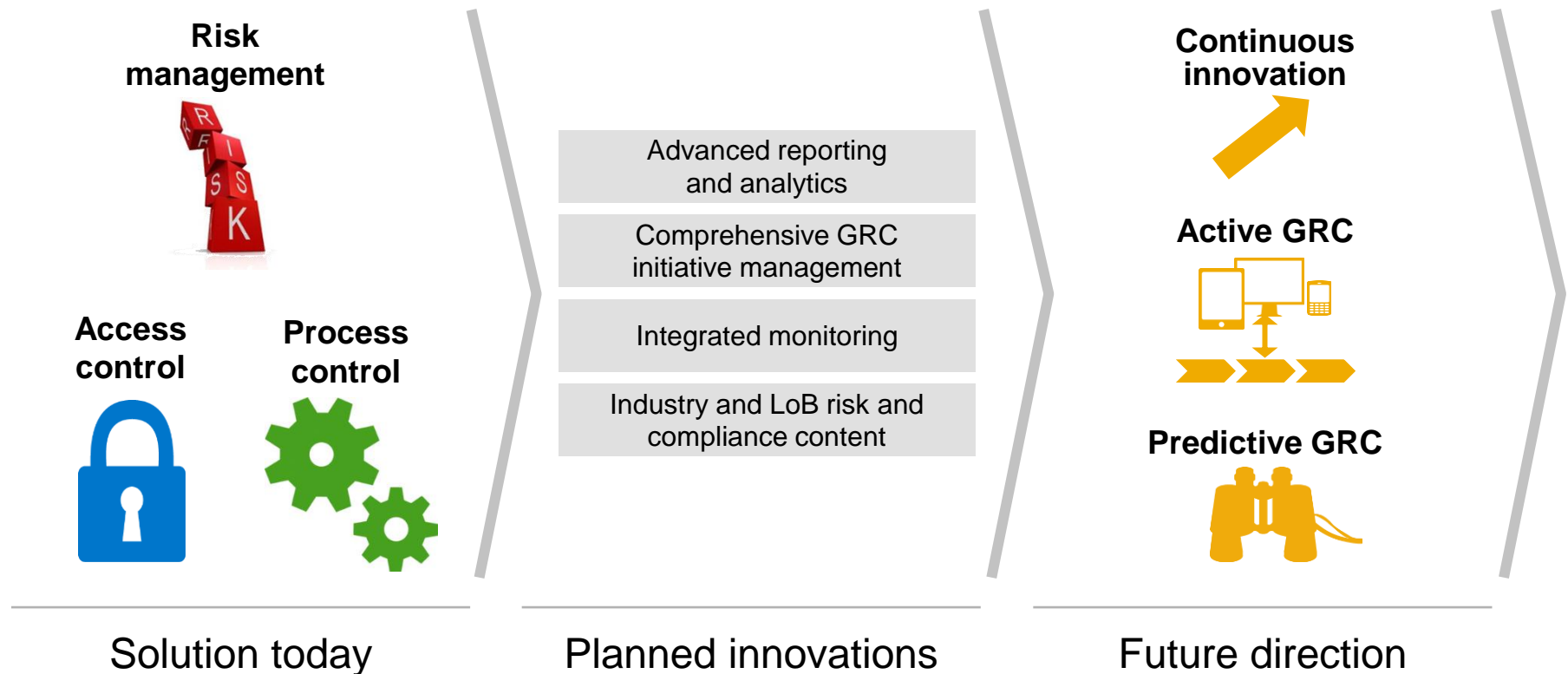
Align enterprise risks with business value

## Global trade services



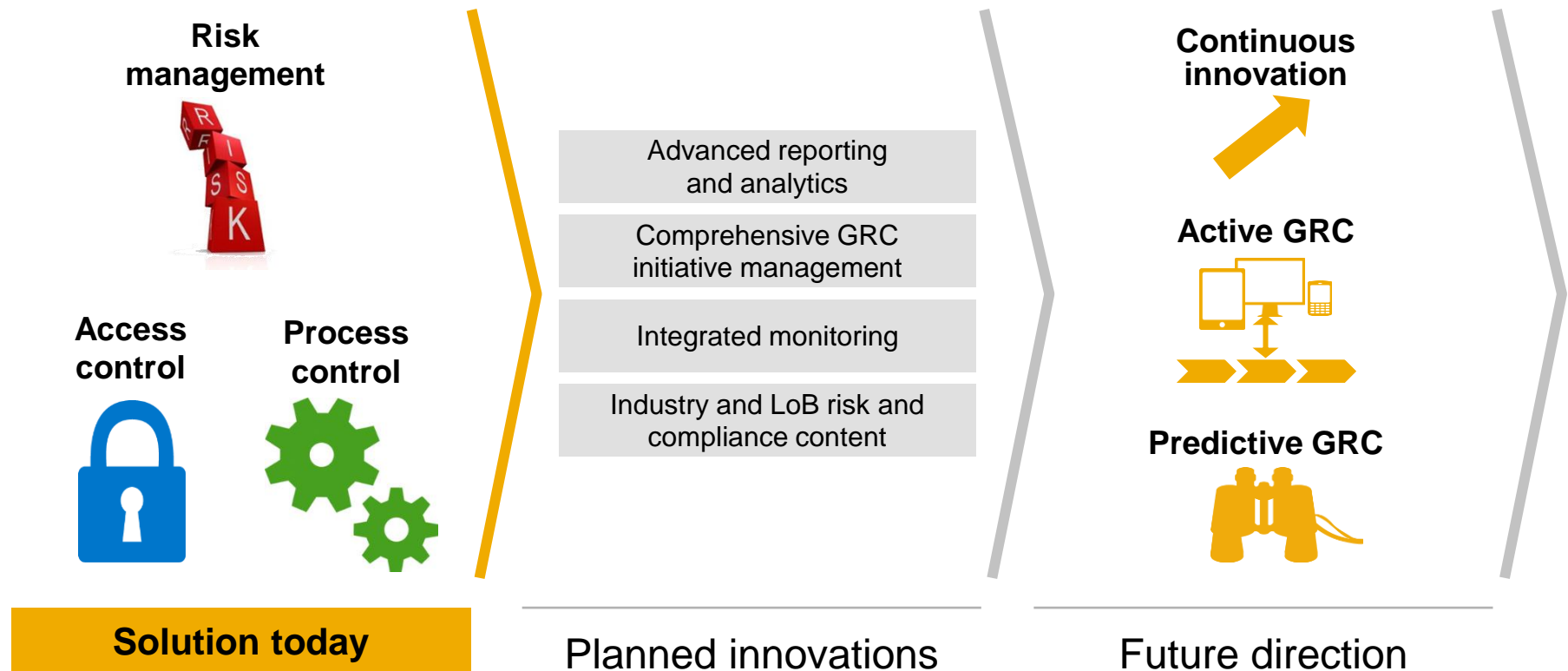
Optimize global supply chain and ensure compliance

# Overview of SAP road map for GRC













# Overview of SAP road map for GRC



# Recent innovations for SAP solutions for GRC

## Overview

Available now

	Key needs	Key innovations	Release
Unified and integrated GRC platform	<ul style="list-style-type: none"> <li>Integrated GRC solutions</li> </ul>	<ul style="list-style-type: none"> <li>Common look and feel; streamlined navigation</li> <li>Shared compliance master data</li> </ul>	<ul style="list-style-type: none"> <li>SAP Access Control 10.0, SAP Process Control 10.0, and SAP Risk Management 10.0 </li> </ul>
GRC reporting and analytics	<ul style="list-style-type: none"> <li>Insights into the status and value of risk and compliance programs</li> </ul>	<ul style="list-style-type: none"> <li>Interactive dashboards</li> <li>Embedded reporting and dashboards</li> </ul>	<ul style="list-style-type: none"> <li>SAP Access Control 10.0, SAP Process Control 10.0, and SAP Risk Management 10.0 </li> </ul>
Comprehensive GRC management	<ul style="list-style-type: none"> <li>Increased reliance; reduced effort and cost for risk and compliance activities</li> <li>Expanded functions</li> </ul>	<ul style="list-style-type: none"> <li>Closed-loop super-user privilege management </li> <li>Comprehensive policy management </li> <li>Visual risk bowtie builder</li> <li>Integrated audit management </li> </ul>	<ul style="list-style-type: none"> <li>SAP Access Control 10.0, SAP Process Control 10.0, and SAP Risk Management 10.0</li> </ul>
Operational risk management for banking	<ul style="list-style-type: none"> <li>Quantitative analysis</li> <li>Loss event management</li> </ul>	<ul style="list-style-type: none"> <li>Manual and score-based key risk indicators</li> <li>Comprehensive analytical dashboards on losses and loss matrix analysis</li> </ul>	<ul style="list-style-type: none"> <li>SAP Risk Management 10.0 </li> </ul>
GRC mobile apps	<ul style="list-style-type: none"> <li>Extended reach for GRC workflows to mobile workers</li> </ul>	<ul style="list-style-type: none"> <li>Mobile approval of access requests</li> <li>Mobile review of policies</li> </ul>	<ul style="list-style-type: none"> <li>SAP GRC Access Approver and SAP GRC Policy Survey mobile apps </li> </ul>
Integrated GRC monitoring	<ul style="list-style-type: none"> <li>Monitor business and IT outcomes</li> </ul>	<ul style="list-style-type: none"> <li>Enhancements to comprehensive and automated GRC monitoring</li> </ul>	<ul style="list-style-type: none"> <li>SAP Access Control 10.0, SAP Process Control 10.0, and SAP Risk Management 10.0 </li> </ul>

## Solution today

# Unified and integrated GRC platform

Available now

**SAP Access Control 10.0, SAP Process Control 10.0, SAP Risk Management 10.0**

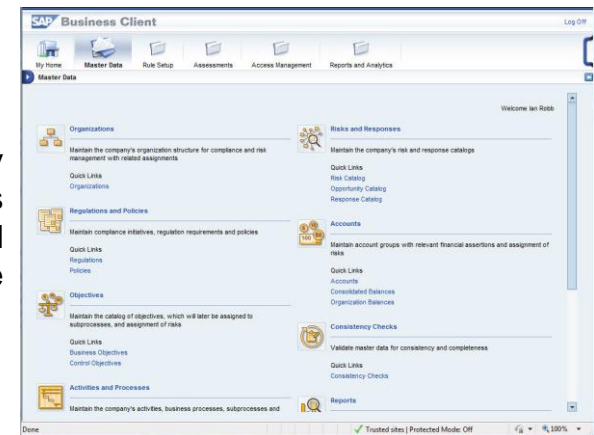
## Solution enhancements

- Unified technology platform based on the ABAP programming language
- Common look and feel; streamlined navigation
- Shared compliance master data
- Configurable user interface
- Content lifecycle management

## Key benefits

- Reduced overall cost of ownership
- Reduced cost of training; ability to share staff
- Reduced configuration cost
- Easier adaptation to specific requirements
- Reduced time to value

Common technology platform enables a unified user experience



**Solution today**

# GRC reporting and analytics

Available now

## SAP Access Control 10.0, SAP Process Control 10.0, SAP Risk Management 10.0

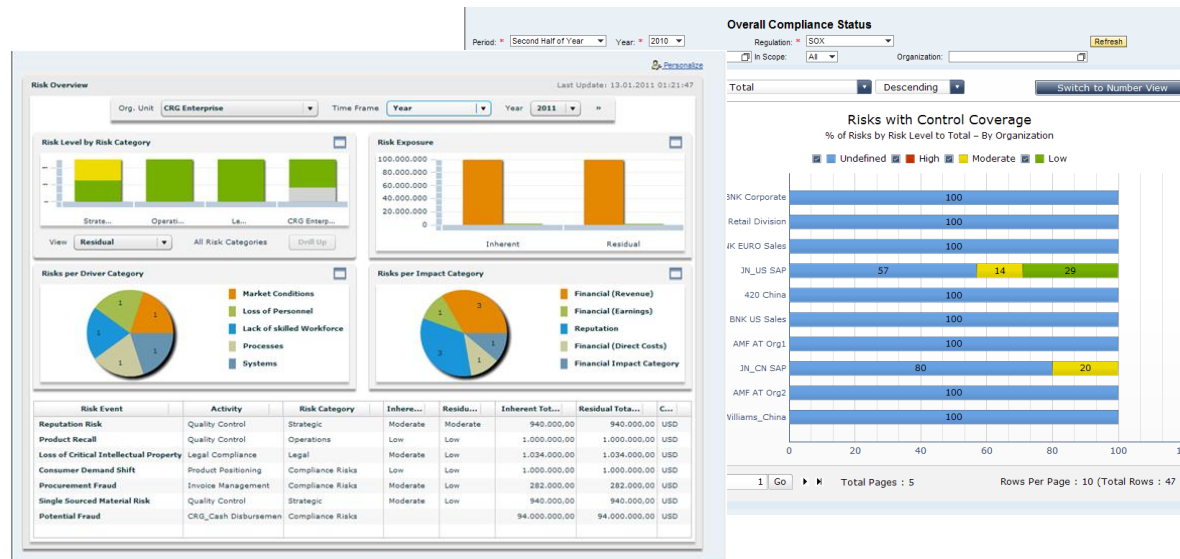
### Solution enhancements

- Enhanced report formats
- Interactive dashboards
- Embedded reporting and dashboards

### Key benefits

- Empowered business users
- Expanded visibility for program owners
- Reduced cost of ownership and management

Dashboards provide visibility needed by GRC program owners



### Solution today

# Comprehensive GRC management

## Access control



Available now

## SAP Access Control 10.0

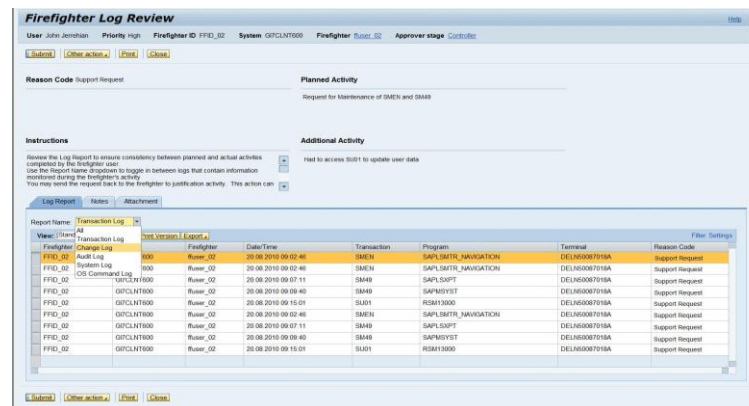
### Solution enhancements

- Streamlined user access management
- Collaborative business role governance
- Centralized super-user privilege management
- Closed-loop super-user privilege management
- Improved identity management Integration

### Key benefits

- Improved usability and simplified provisioning
- Centrally managed compliant roles across systems
- Reduced administration cost and improve visibility
- Ability to review, resolve, and track activity online
- Minimized access risk in enterprise provisioning

Automated review for super-user privilege management



### Solution today

# Comprehensive GRC management

Compliance, control, and policy management with SAP Process Control

Available now

## SAP Process Control 10.0

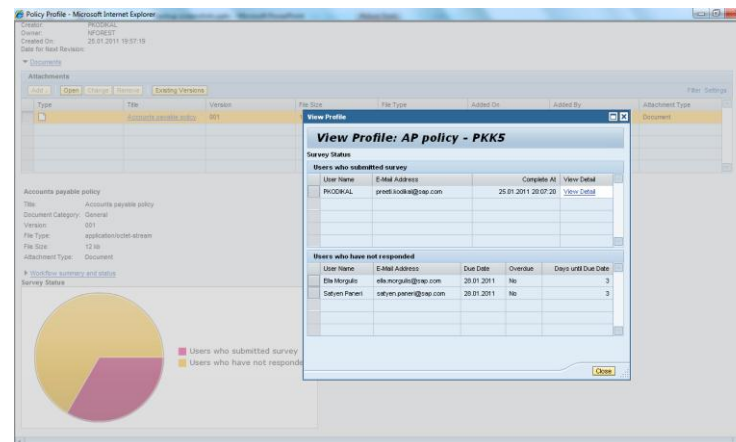
### Solution enhancements

- Management of multiple compliance, control, and process-improvement initiatives
- Expanded issue identification and remediation
- Offline control evaluations and remediation
- Comprehensive policy management

### Key benefits

- Reduced cost of compliance and increased scalability
- Incorporation of issues identified outside of system
- Complete support for offline control testers
- Reduced risk via policy compliance

Management of policy definition, review, approval, and rollout



Solution today

# Comprehensive GRC management

## Audit management integration

Available now

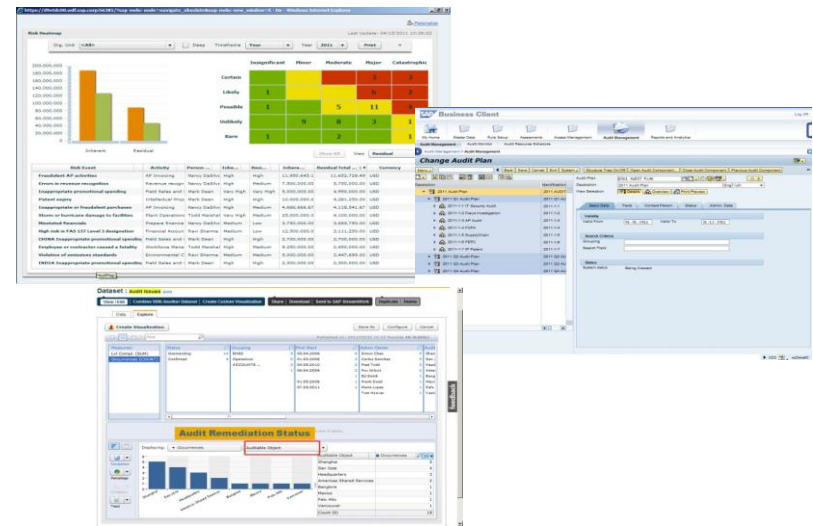
### SAP Process Control 10.0, SAP Risk Management 10.0

#### Solution enhancements

- Facilitate internal audit performance of enterprise risk assessment
- Drive auditable entities by audit from the existing GRC structure
- Risk-rate auditable entities using audit criteria to develop annual plans
- Drive audit steps with GRC business risks
- Share controls with audit management and assign them to audit programs
- Share issues and remediation to enable reporting based on a common repository

#### Key benefits

- Comprehensive, risk-based audit planning and management
- Creation of synergy between audit and compliance teams



#### Solution today

# Comprehensive GRC management

## Risk management (1/2)

Available now

### SAP Risk Management 10.0

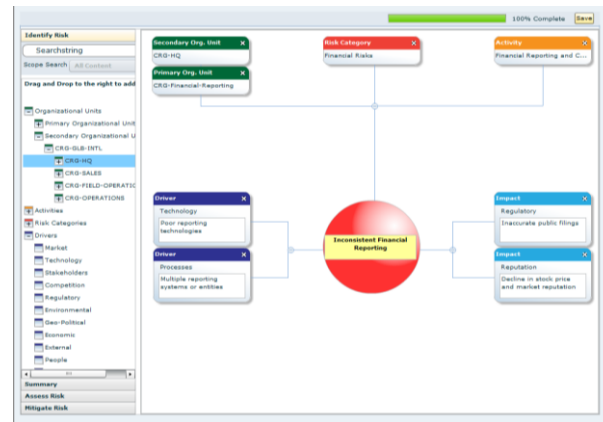
#### Solution enhancements

- Visual risk bowtie builder
- Risk and response catalogs
- Enhanced risk assessment capabilities
- Alignment of risks with policies and issues
- Enhanced risk consolidation and aggregation across risk categories and organizations

#### Key benefits

- Engagement with business leaders
- Ability to leverage established and proven best practices
- Improved user productivity
- Drive toward effective risk mitigation
- Reduced time to aggregate risk information from multiple sources

Risk bowtie builder enables communication between risk practitioners and risk owners in the business



#### Solution today



# Comprehensive GRC management

## Operational risk management for banking (2/2)

Available now

### SAP Risk Management 10.0

#### Solution enhancements

- Manage static data (organizations, risk categories, and assets)
- Manage loss events across complex and dynamic business units
- Aggregate key risk indicators (KRI) across organizations and risk categories
- Perform comprehensive risk and control self-assessments
- Use manual and score-based key risk indicators
- Use comprehensive analytical dashboards on losses and loss matrix analysis

#### Key benefits

- Management of operational risk and compliance for banking industry



#### Solution today

# Comprehensive GRC management

SAP GRC Access Approver and SAP GRC Policy Survey mobile apps

Available now

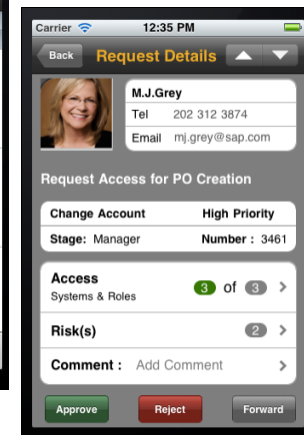
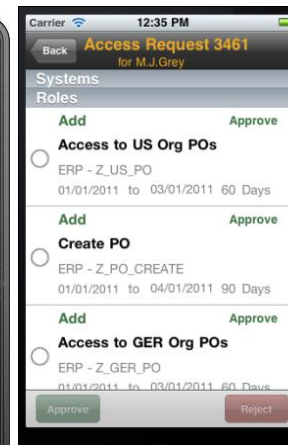
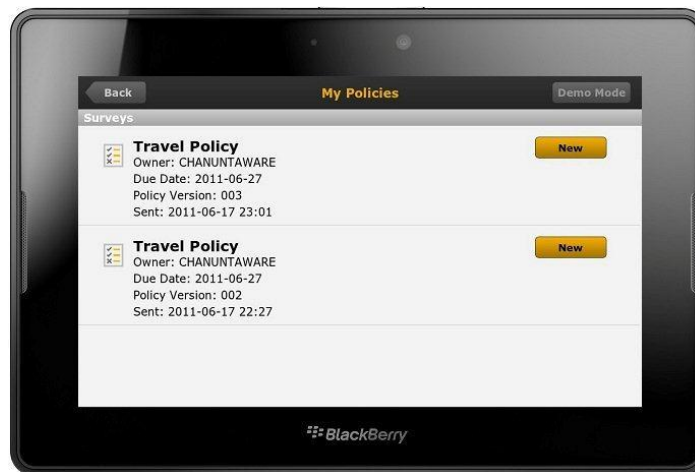
## SAP GRC Access Approver and SAP GRC Policy Survey mobile apps

### Solution enhancements

- Mobile approval of access and super-user requests for iPhone users
- Distribution of policy surveys and acknowledgements to BlackBerry PlayBook users
- User-friendly UI with understandable task flow

### Key benefits

- Mobile-enabled approval, ensuring timely response for access requests
- Timely policy certification
- Extension of value for customers of version 10.0 of SAP solutions for GRC



### Solution today

# Integrated GRC monitoring



Available now

## SAP Access Control 10.0, SAP Process Control 10.0, SAP Risk Management 10.0

### Solution enhancements

- Best-in-class user access privilege monitoring for SAP and non-SAP software systems
- Enhanced automated control monitoring
- Flexible and configurable surveys
- Monitoring for policy effectiveness
- Enhanced risk assessment
- Automated key risk indicator monitoring

### Key benefits

- Reduced cost and ensured compliance
- Reduced overall effort via broader use of surveys
- Increased policy compliance
- Higher productivity and reduced effort

**Business Rule: AMS\_AP\_One\_Time\_Vendor\_PMT**

Timeframe: 11/08/2011 ID: 50003301 Last Modified On: 10/13/2011 05:31:52 PM

Save Close

Basic Information Data for Analysis Filter Criteria Deficiency Criteria Conditions and Calculations Output Format Technical Settings Ad-hoc

Target Connector: XD3CLNT80C Apply Rule Deficiency: Count of invoices Max. Rows: 100 Timeframe: Yes

Export

Deficiency Type	Deficiency Description	Vendor Number	Company Code	Currency Key	Amount in document currency	Count of invoices
Low	Ok	0000003010	3000	USD	4,830.00	1
High	Should create a new vendor	0000003960	3000	USD	200.00	4
Medium	Should consider creating new vendor	0000005002	5000	JPY	52,500.00	3
Medium	Should consider creating new vendor	ADAMS	3000	USD	35,678.00	2

### Solution today

# Key links for more information

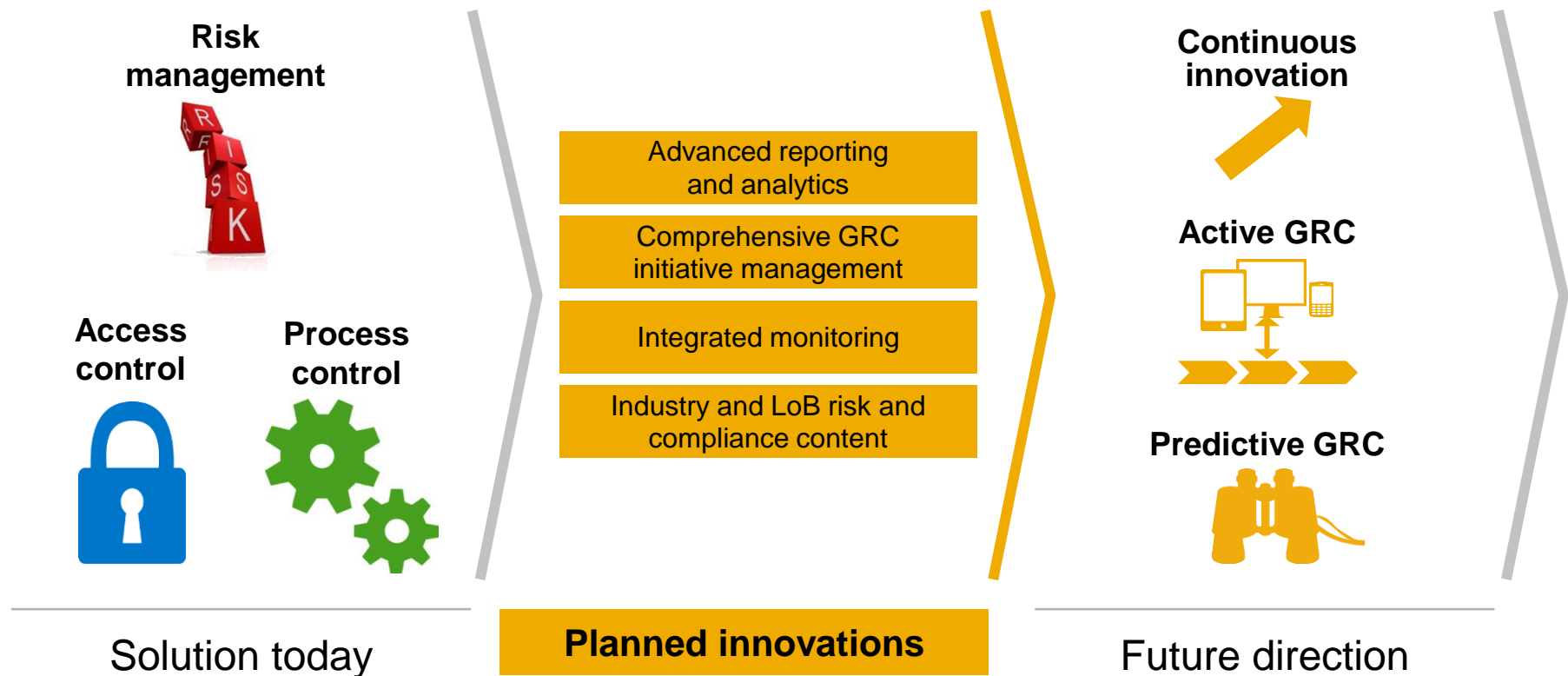
For customers and partners

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- [Road maps on SAP Service Marketplace](#)
- [SAP's release strategy for large enterprises on SAP Service Marketplace](#)
- [SAP.com Web site](#)
- [SAP Business Process Expert \(BPX\) community](#)
- [SAP help portal](#)
- [Idea place](#)

**Solution today**

# Overview of SAP road map for GRC



# Advanced reporting and analytics




## Overview

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### Key need

- Tailor GRC analytics to company needs by enabling self-service reporting, analysis, and instant exploration for business users
- Enable business users to identify the root cause of access risk violation and take action
- Use a high-performance reporting solution for enterprise-wide GRC analytics

### Innovation highlight

- Common GRC reporting services to allow selected reporting and analytic tools to access GRC data 
- Critical GRC management dashboards and reports
- Data structures of SAP Access Control 10 in the SAP NetWeaver Business Warehouse component
- Root cause analysis of access risk 
- GRC analytics powered by SAP HANA 

### Planned innovations

# Comprehensive GRC reporting

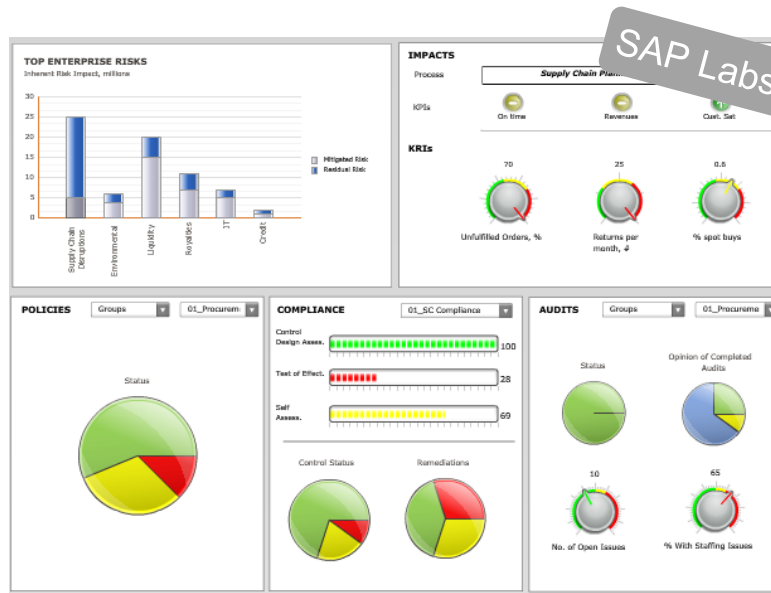


## Solution enhancements

- Comprehensive GRC reporting services
- Critical GRC management dashboards

## Key benefits

- Creation of custom reports and dashboards with cross-GRC data
- Data visualization and advanced interactive analysis using powerful SAP software
- Executive dashboard to support enterprise-wide view of risk, compliance, and access risk status



## Planned innovations

# Access risk root cause analysis



## Solution enhancements

- Graphically identify the root cause of access risk violations and take action
- Make informed decisions utilizing what-if simulations

## Key benefits

- Comprehensive identification and remediation of access risk violations

## Access Risk Analysis and Remediation



## Planned innovations



# GRC analytics powered by SAP HANA

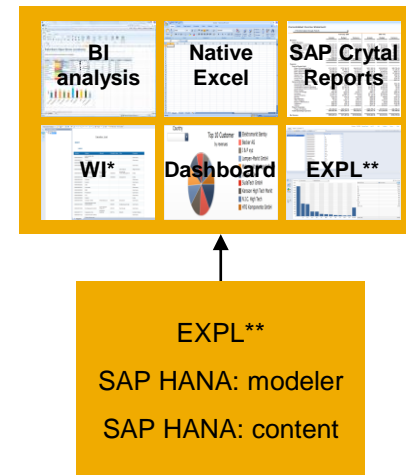


## Solution enhancements

- Additional reports and dashboards that enable high-speed collection and review of key issues related to access control, policy control, and risk management
- Device-agnostic report presentation
- Use of reporting tools in SAP software to construct comprehensive and flexible GRC reports

## Key benefits

- High-volume processing of GRC data
- Accelerated reporting for faster review and action
- Review analytics information on **any** device – desktop or mobile



\*SAP BusinessObjects Web Intelligence

\*\*SAP BusinessObjects Explorer

## Planned innovations






# Comprehensive GRC initiative management

## Overview

### Key need

- Customize end-user access requests for individual company requirements
- Initiate key remediation processes from risk analysis results
- Discover, analyze, and tag user authorizations to understand and optimize role usage
- Enhance the enterprise risk management process by automating key activities for risk managers
- Support recurring performance of manual control activities
- Integrate policy management functionality with third-party document management systems
- Continue to enable GRC on mobile devices

### Innovation highlight

- Customization improvements for end users of access request 
- Workflows for access-risk remediation 
- Role discovery and optimization 
- Ad hoc risk escalations based on configurable thresholds 
- Performance of manual controls 
- Enterprise service to link policies with external document management system (DMS) 
- Access approver and policy survey on additional devices 

### Planned innovations

# Access request form customization



## Solution enhancements

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- Enhanced customization of forms with dynamically rendered layout
- Ability to customize request forms for specific business processes, organizations, and systems

## Key benefits

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- Simplified and streamlined access request and approvals
- Reduced requests with errors and canceled requests



## Planned innovations

# Access risk remediation workflows



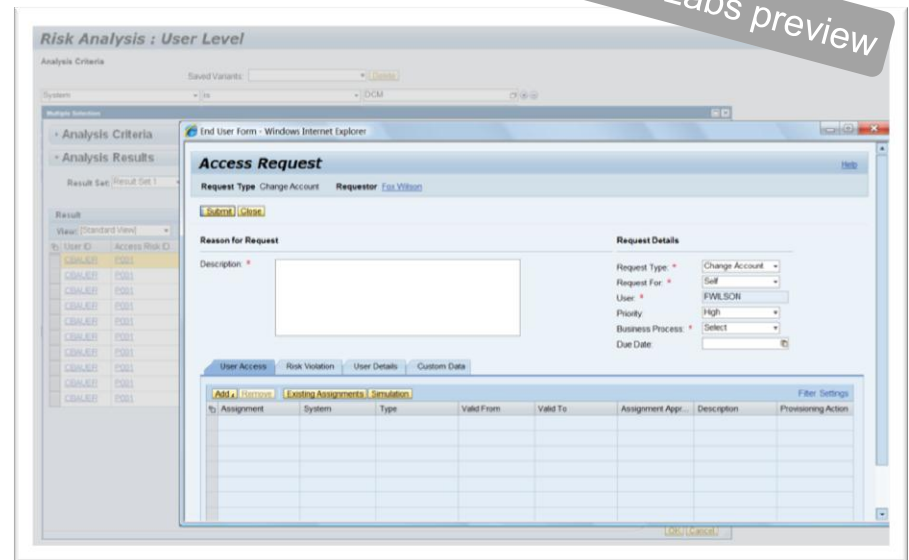
## Solution enhancements

- Take remediation action from the results of any access risk analysis
- Initiate a workflow to update user or role authorization assignments and validity dates

## Key benefits

- Delivery of a single, comprehensive access risk analysis and remediation process

SAP Labs preview



## Planned innovations

# Role discovery and optimization

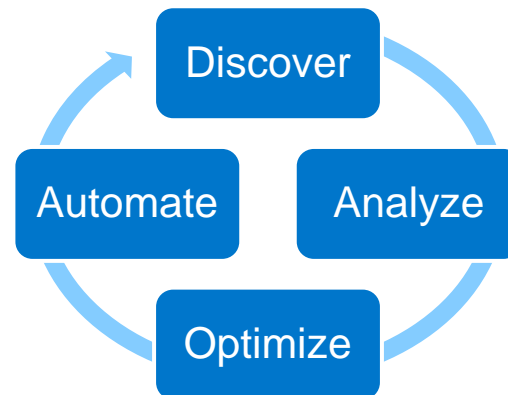


## Solution enhancements

- Discover user authorizations across enterprise landscapes
- Report on and analyze roles and user assignments for internal and external auditing
- Ensure that business functions are correctly represented in business role design.
- Simplify user assignment and review processes

## Key benefits

- Visibility into system access for business process efficiency and risk reduction
- Reduced cost and redundancies with authorization management, including period role reviews
- Optimized authorization and security across platforms
- Streamlined role request and approval process



## Planned innovations

# Enterprise risk management process enhancements

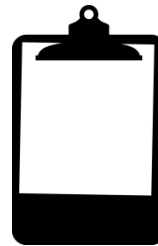


## Solution enhancements

- Ad hoc risk escalations based on configurable thresholds

## Key benefits

- Enablement of management to take immediate action to prevent large losses
- Provision of management flexibility in identifying the critical limit for risk escalations
- Support for a whistle-blowing approach within a risk management framework



## Planned innovations

# Performance of manual controls



## Solution enhancements

- Document steps to perform a control separately from test plan or survey
- Plan recurring performance and review of control
- Attach evidence to support control

## Key benefits

- Timely performance and optional review of controls
- Improved reliability and consistency of controls via documented steps and attached evidence
- Faster evaluations of controls, with evidence available in a central location
- Establishment of clear accountability

**Control: Rev rec calculations are reviewed monthly**

Parent Organization: California | Parent Subprocess: Parameters | Local Changes Allowed: Yes | ID: 56620927  
Timeframe: Year 2007 | Effective Date: 04/01/2007

Enter performance plan

Save Cancel Print... Send

General Performance Plan Regulations Risks Roles Attachments and Links

Performance Steps

Number	Step Name	Step Description	Evidence Required	Evidence Description
1	Gather info	Obtain revenue recognition calculations from Revenue Specialist	Yes	Calculation spreadsheets
2	Review calculations	Compare spreadsheet logic to revenue policies	Yes	Document exceptions and report
3	Prepare adjustments	Prepare adjustments if needed; submit for additional review	Yes	JE form

SAP Labs preview

## Planned innovations

# Enterprise service to link policies with external document management systems

## Solution enhancements

- Provide a standard enterprise service to allow users to link policies to policy documents stored in external document management systems (DMS)
- Allow GRC users to view and retrieve documents from the external DMS from policy acknowledgments, surveys, and quizzes

## Key benefits

- Ability of customers to leverage their investments by using documents stored in an existing third-party DMS
- Ability to leverage the strengths of third-party document management capabilities, such as full text search, version control, change tracking, document retention, and archiving



## Planned innovations



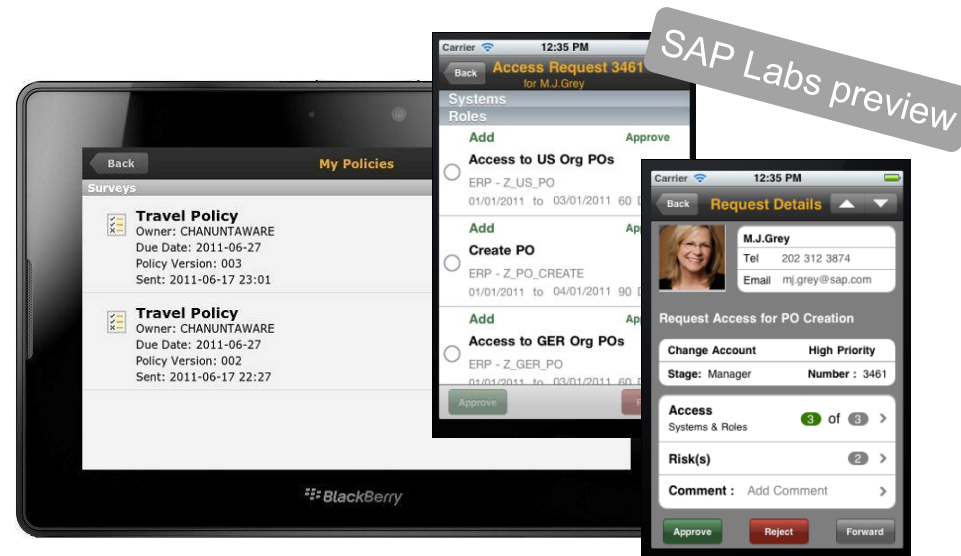
# SAP GRC Access Approver and SAP GRC Policy Survey

## Solution enhancements

- Extension of mobile approval of access and super-user requests for Android users
- Distribution of policy surveys and acknowledgements to iOS users
- Intuitive UI with understandable task flow

## Key benefits

- Further enablement of the enterprise for mobile approval
- Timely policy certification on popular corporate devices
- Extension of value for customers of version 10.0 of SAP solutions for GRC



## Planned innovations



# Integrated monitoring

## Overview

### Key need

- Ability to tie transaction monitoring to key controls
- Cross-system monitoring – when business processes span multiple systems
- Large-volume transactions – when multiple years of data needs to be analyzed, for example
- Improved monitoring technique reuse

### Innovation highlight

- Continuous transaction monitoring integration for controls and compliance management 
- Use of SAP HANA to consolidate data for multiple systems, and monitor against SAP HANA 
- Use of SAP HANA for large-volume monitoring
- Use new reporting standard (ODP) of SAP NetWeaver to facilitate reuse of content across SAP HANA, SAP ERP, SAP CRM, SAP NetWeaver BW, and so on

## Planned innovations

# Integrated continuous transaction monitoring for compliance and control management



## Solution enhancements

- Certified integration with SAP Process Control

## Key benefits

- Extension of continuous transaction monitoring to support continuous control monitoring
- Proactive identification of control exceptions and potential fraud, error, and abuse
- Insight to control weaknesses and effectiveness
- Identification of business process quality and efficiency problems

SAP Labs preview

The screenshot displays the SAP Oversight Analyst interface. On the left, there is a navigation pane with sections for 'My Profiles', 'Global Profiles', and 'Reports'. The main area shows a table of exceptions with columns for Type, Priority, Confidence, Potential Impact, Owner, Status, and Date Detected. Below the table, a detailed view for a specific exception is shown, including its ID, Name, Owner, Status, Reason Code, and a description of the exception.

Type	Priority	Confidence	Potential Impact	Owner	Status	Date Detected
Posting Entries After Calendar Reopened	High	High	5,848,234.72	Oversight Analyst	Under Review	2010-11-24 14:51:1101
Vendor Payment Irregularity	High	High	834,304.25	Oversight Analyst	Under Review	2010-08-18 14:46:1100
Invoice Predates Order	High	High	146,400.00	Oversight Analyst	Under Review	2010-08-18 14:43:1100
PO Outlier	High	High	283,155.96	Oversight Analyst	Under Review	2010-08-18 14:42:1100
PO to Previously Inactive Vendor	High	High	98,631.38	Oversight Analyst	Under Review	2010-11-24 15:18:1101
Payroll Bonus Irregularity	High	High	33,535.87	Oversight Analyst	Under Review	2010-08-30 13:30:1100
Duplicate Payment	High	High	72,995.72	Oversight Analyst	Under Review	2010-08-18 14:44:1100
Duplicate Voucher (Invoice)	High	High	10,551.00	Oversight Analyst	Under Review	2010-08-25 13:05:1100
Vendor Address Changes	High	High	9,000.00	Oversight Analyst	Under Review	2010-11-22 14:21:1101
Time Card Change/Changeback	High	High	7,300.00	Oversight Analyst	Under Review	2010-08-28 17:14:1100
Suspicious Purchase	High	High	4,677.71	Oversight Analyst	Under Review	2010-08-18 22:15:1100
Unapplied Credit Transaction	High	High	3,343.79	Oversight Analyst	Under Review	2010-08-25 13:05:1100
Purchase Chain	High	High	3,382.33	Oversight Analyst	Under Review	2010-08-18 14:39:1100
Vendor Bank Account Change/Changeback	High	High	9,000.00	Oversight Analyst	Under Review	2010-08-18 22:00:1100
Attempts to Circumvent Expense Limits	High	High	24.82	Oversight Analyst	Under Review	2010-08-18 14:40:1100
Contractor Status Inaccurate	High	High	0.00	Oversight Analyst	Under Review	2010-08-28 15:51:1100
Ghost Vendor	High	High	0.00	Oversight Analyst	Under Review	2010-08-28 14:42:1100
Employee Conflict of Interest	High	High	0.00	Oversight Analyst	Under Review	2010-08-28 14:34:1100

**Summary** | Entities | Notes | Log | Attachments

Exception ID: 11011-20-0034853      Type: Posting Entries After Calendar Reopened

Name: Posting Entries After Calendar Reopened - 11011200034853      Date Detected: 2010-11-24 14:51:37      Priority:

Owner: Oversight Analyst      Last Modified: 2011-01-21 22:39:25      Potential Impact:

Status: Under Review      Confidence:

Reason Code:

Description of Exception:

One or more postings were made after the Period February 2010 for Company 701 was closed and then re-opened.

Indicators:

- The period February 2010 posting status was closed on 03-05-2010 and then re-opened on 03-12-2010.
- Journal Entry 070179968-001 Adjusting entry for Depreciation was posted after Period February 2010 was closed and re-opened.
- 2 additional Journal Entries were posted after Period February 2010 was closed and re-opened.

## Planned innovations

# Cross-system and large-volume monitoring



## Solution enhancements

- Monitor business data powered by SAP HANA
- Monitor reports and queries based on operational data provisioning (ODP)

## Key benefits

- Ability to analyze large volumes of data and monitor results quickly (through SAP HANA)
- Consolidation of operational and financial data from multiple systems (through SAP NetWeaver BW on SAP HANA)
- Ability to leverage ODP-based reports and queries for automated monitoring to save time and money by reusing valuable content in multiple ways

## Planned innovations

# Industry and LoB risk and compliance content



## Overview

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### Key need

- Enable IT risk management for ISO 2700X standard
  - Support risk management based on ISO 31000 standard, framework, and terminology
- 
- Enable and package GRC content for business processes, lines of business, and industries
  - Drive additional revenues and improve competitive position

### Innovation highlight

- Enhanced support for best-practice and industry-standard risk-management methodologies 
- Line of business and industry best-practice content 

## Planned innovations

# Enhanced support for best-practice and industry-standard risk management methodologies

## Solution enhancements

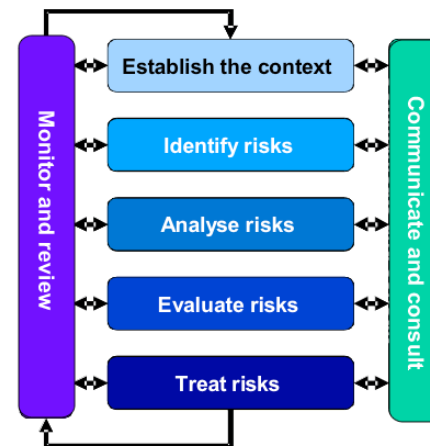
- Enable ISO 2700X standards, terminology, and risk assessment methodology for IT risk management
- Enable ISO 31000 standard, terminology, and risk management framework



- ISO 27001
- ISO 27002
- ISO 27003
- ISO 27004
- ISO 27005
- ISO 27006
- ISO 27007 +

## Key benefits

- Support for CIOs with IT risk and information security management as per industry standards in alignment with the enterprise risk-management program
- Increased global adoption with support for best-practice risk-management standards and framework



## Planned innovations

# Line of business and industry best-practice content



## Solution enhancements

- Library of automated controls for common business processes and lines of business
- Risk, controls, and KRIs content from standard sources such as COSO, Audit Standard 5, S&P, Basel, and providers such as UCF and RiskBusiness (Taxonomy and KRI Library)

## Key benefits

- Lower total cost of ownership and higher ROI for customers from automated monitoring of key controls
- Ability to leverage best-practice frameworks and content to jump-start compliance with regulatory requirements that vary by industries, lines of business, and geographies

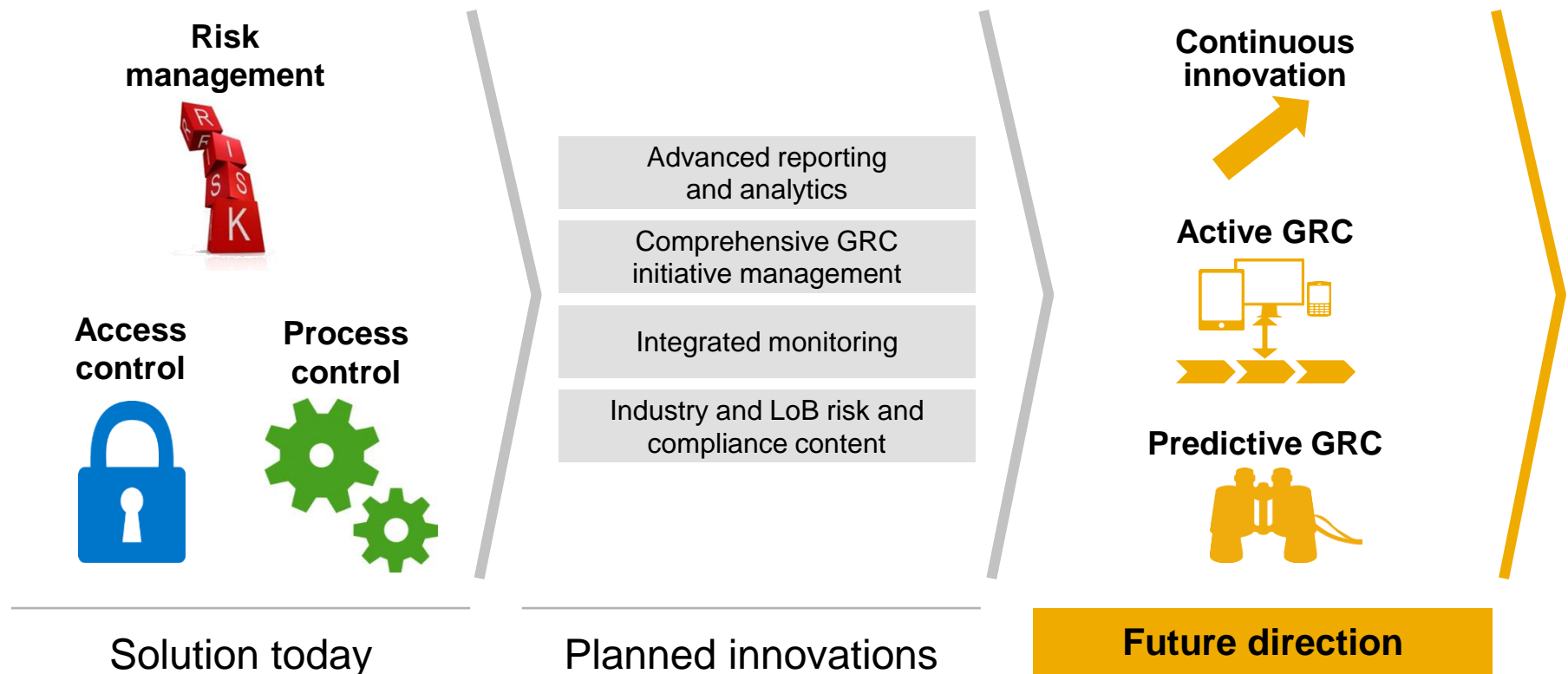


SAP EcoHub

SAP PartnerEdge

## Planned innovations

# Overview of SAP road map for GRC





# Future innovation areas for GRC

Drive optimal decisions by proactively balancing risks and opportunities

## Continuous innovation

- Unify compliance processes across organizations
- Drive GRC optimization through analytics
- Simplify and tailor the user experience

## Active GRC

- Aim specialized applications at appropriate devices and users
- Embed risk and compliance into business process
- Provide actionable insight and automation

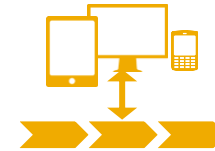
## Real-time, predictive GRC

- Minimize business impact of risks, control, and transaction exceptions by identifying them in timely manner
- Embrace real-time, predictive monitoring capabilities
- Extend monitoring to include unstructured data and social media

**Continuous innovation**



**Active GRC**



**Predictive GRC**



**Future direction**



**Thank you**

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