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20. ročník konference o bezpečnosti v ICT

Využití GRC řešení pro řízení rizik

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RSA, The Security Division of EMC

enders apparently a training apparent



Agenda

- Defining GRC
- The Language of GRC
- GRC Processes
- Importance and Benefits of GRC Platform
- Risk Management
- Integrated GRC approach
- Success Examples: GRC ROI, Case studies
- The GRC Technologies by Analysts
- Q&A



Defining GRC

Compliance: The act of adhering to, and demonstrating adherence to, external laws and regulations as well as corporate policies and procedures.







Governance: The culture, objectives, processes, policies, and laws by which companies are directed and managed.

Risk: The likelihood and impact of something happening that will have an effect on achieving objectives.





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The Language of GRC

Control

 Means of managing risk, including policies, procedures, guidelines, practices or organizational structures, which can be of administrative, technical, management, or legal nature

Risk

 Combination of the likelihood of an event and its impact; Risk is inherent and residual

Incident

Unwanted events that could compromise business operations

Threat

Potential cause of an unwanted incident

Asset

Anything that has value to the organization



The Language of GRC (cont.)

	IT	Finance	Operations	Legal	
Control	strong passwords	segregation of duties	product testing	trademark	
Risk	unauthorized access	fraud	unsatisfied customers	brand dilution	
Incident	data breach	missing money from cash drawer	high error rate	infringement	
Threat	hacking	theft ineffective tests		competitive	
Asset	information	cash	quality	brand	



eGRC Theme: Enterprise Risk



Security Management

Business Continuity Management

Information Governance

Trusted Cloud

Enterprise Risk & Compliance



What's the big deal?

Here's why GRC is an imperative in today's business world:

- Demands on corporate governance
- Multi-faceted risk environment
- Growing regulatory requirements
- Disappearing boundaries in the extended enterprise
- Corporate social responsibility





Governance Processes

- Governance processes include:
 - Identify leadership and organizational structure
 - Formulate company objectives
 - Create policies
 - Identify controls
 - Training and awareness
 - Manage exceptions





Compliance Processes

Compliance processes include:

- Document control procedures and test plans
- Identify business processes and assets
- Perform continuous control monitoring
- Perform routine assessments/testing
- Identify and manage exceptions
- Provide reporting to management





Risk Processes

Risk processes include:

- Identify threats to company objectives
 - Financial
 - Regulatory
 - Business
 - Reputational
 - Strategic
 - Security
- Evaluating the likelihood and impact of risks
- Determine the inherent risk
- Designing mitigating controls
- Prioritize risk reduction measures
- Monitoring residual risk





Bez rizika nelze vyhrát ...

"Neumím si představit žádný problém, který by mohl tuto loď zastavit, žádnou katastrofu, která by se nám mohla přihodit. Moderní lodě již překonaly všechna rizika."

Captain E.J. Smith, Commander of Titanic





Známé poslední hlášky

Digitální fotoaparáty nemají budoucnost

Čára není zeď ...

My přeci máme firewall (VPN, SSL, ...) ...

Neznámý Vždyť jsme tady předloni měli audit ...

Proč by nám někdo kradl naše data?...

Jé hele užovka ...

Jarda by to přece neudělal ...

V pohodě hoši, tohle je nulák ...

Brzdy jsou hotový. Jedu to vyzkoušet!

Pusť mě k tomu, já tomu rozumím...



Why GRC Platform?



The Complex & Incomplete Picture

- ▶ Data Inconsistency → Data Duplication → Data Fragmentation → Information Silos
- ▶ Lack of Security → Lack of Communication → Difficult to Correlate → Missing Data

Je to bezpečné ? (Je to v souladu ?)

Ředitel

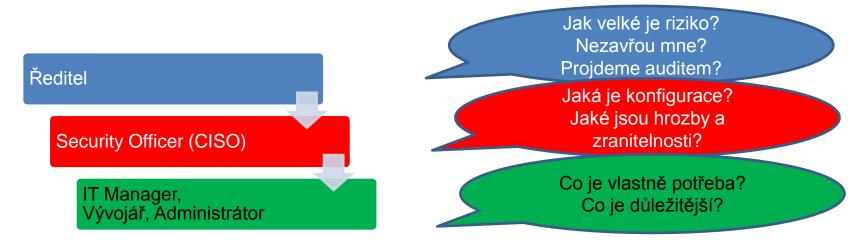
Security Officer (CISO)

IT Manager, Vývojář, Admin Jak velké je riziko? Nezavřou mne? Projdeme auditem?

Jaká je konfigurace? Jaké jsou hrozby a zranitelnosti?

Co je vlastně potřeba? Co je důležitější?

Je to bezpečné ? (Je to v souladu ?)



- Jaká je naše bezpečnostní politika?
- Jaká rizika jsou pro nás přijatelná?
- Jakou hodnotu mají naše data, aplikace, procesy, ... ?
- Jaké hrozby jsou u nás reálné?
- Jak má být systém správně nakonfigurován?
- Jaká je důležitost incidentů, výjimek, … ?



Integrated Risk and Compliance

Identify Risks:

- Risk analytics
- Loss events
- Whistle blower reports
- eDiscovery
- Configuration scan results
- Security event logs
- Sensitive data discovery
- Document and records retention data
- Threat intelligence
- Vulnerability scan results

Prioritize Risks:

- Business impact
- Business hierarchy
- Responsibilities and leadership
- Products and services
- Business processes
- -Technology and information assets
- Facilities
- Employee, partner and vendor contacts





Traditional approach

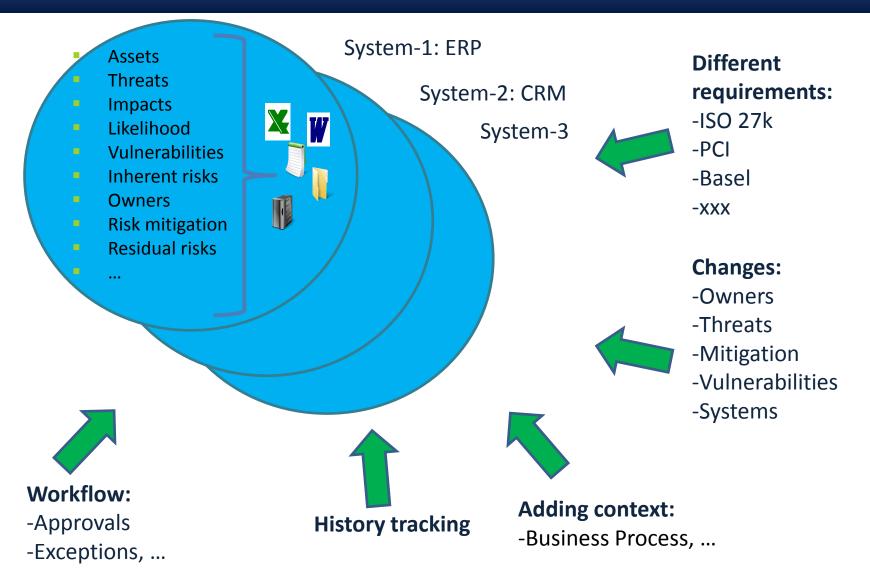
- Assets
- Threats
- Impacts
- Likelihood
- Vulnerabilities
- Inherent risks
- Owners
- Risk mitigation
- Residual risks
- •••



Asset	Threat	Impact	Likelihood	Vulnerability	Inherent risk	Owner	Risk mitigation	Residual risk
DB-1	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
DB-2	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
CRM	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
ERP	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
Router	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
FW	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
XY	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу
XY	xxx	ZZZ	ууу	ууу	ууу	ууу	ууу	ууу



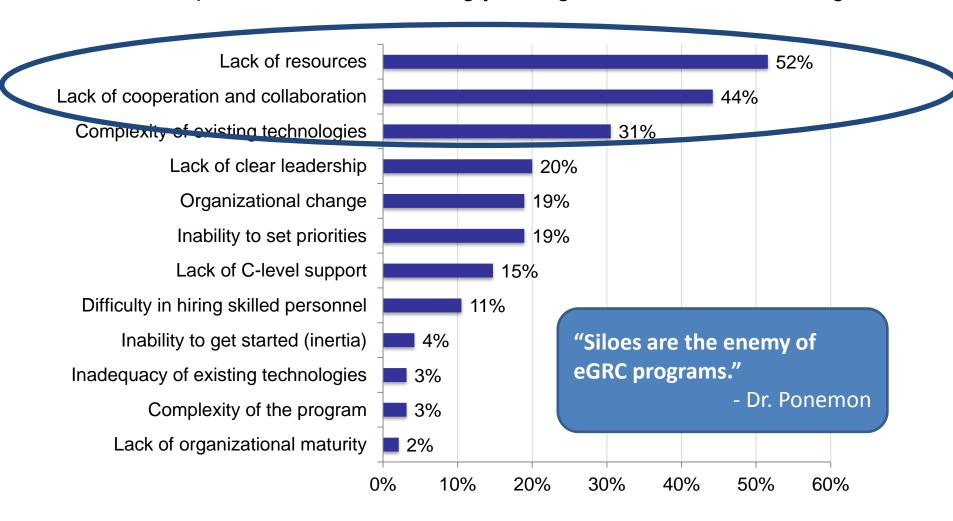
Traditional approach (2)





Customer Challenges

What are the top two barriers to achieving your organization's GRC-related goals?





Solving Risk Management Challenges

GRC Platform Risk Management:

Centralized, automated and proactive approach to risk

assessment, management and reporting

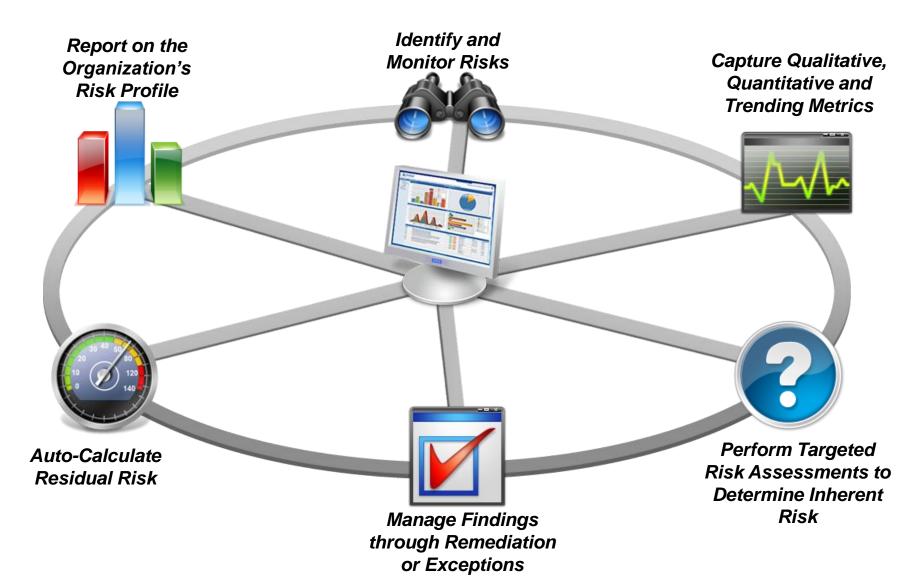








GRC Platform: Approach to Risk Management





Why GRC Platform Risk Management



Standardized approach with flexibility to adapt to your methodologies through point-and-click configuration



Ability to tie risks to mitigating controls, corporate objectives, supporting metrics, etc.



Central platform to transform isolated, manual processes into an **integrated**, **automated** risk management program



Integrated GRC Approach

Policy Management

BCP Management

Risk Management

Threat Management

Compliance Management

Incident Management

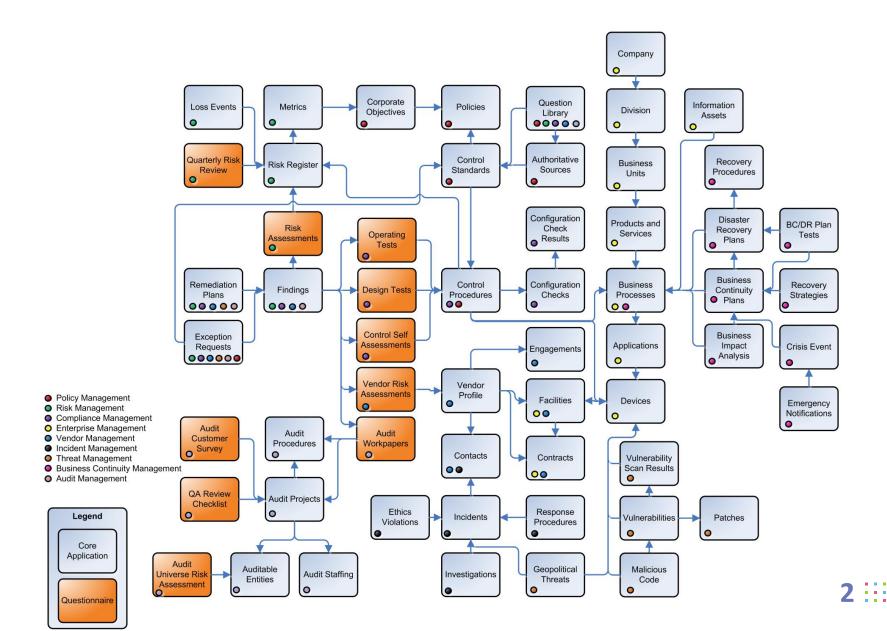


Integrated GRC Approach





Integrated GRC Data Model





Policy Management Process



Control Prosette Standards

Authoritative Sources Windows Vistandgipge Liter Apple on Reysdure

- Key owners may not print out private keys and should
- Set the "Configure and the following steps:
- 1. Open Group Thank Printer to the participate object
- 2. Navigate, toprivate Revs should be transitionate prestricted and
- Computer Configuration Admignstrative Templates Windows Component BitLocker
- Drive Encrypt Private keys should be transmitted through different
- 3. Set "Controchannels is etherice probler separation from the information" to Disabled
- 4. Click OK towner is used to generate the elegation policy editor



Policy Management Content



Jaké jsou požadavky ? (ISO, COBIT, ITIL, CSA, PCI, SOX, Basel, ...

Jak to máme udělat ? (MS Windows XY, CheckPoint, Oracle, SAP, Wmware, AIX, Cisco, ...

Jaká je realita?



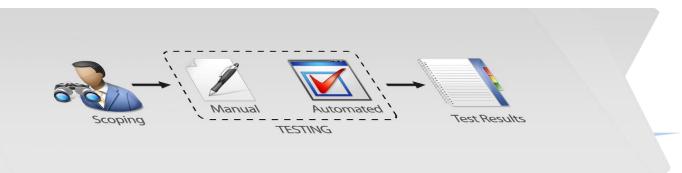
Enabling the Cycle of Risk and Compliance





Integrated Approach for Enabling GRC





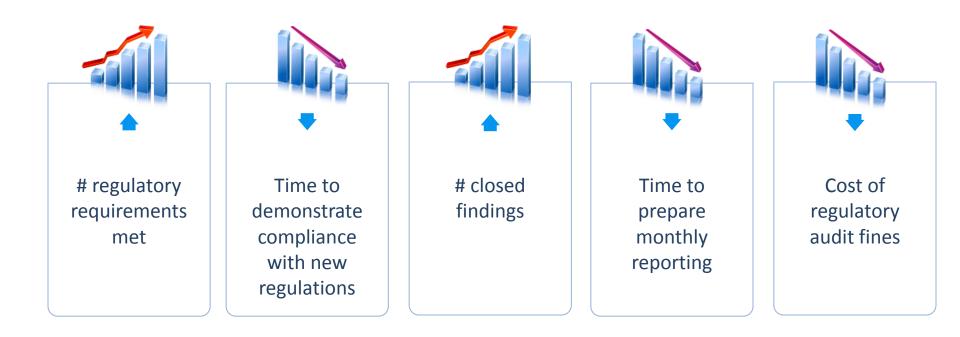
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Enterprise Management



GRC Success Metrics

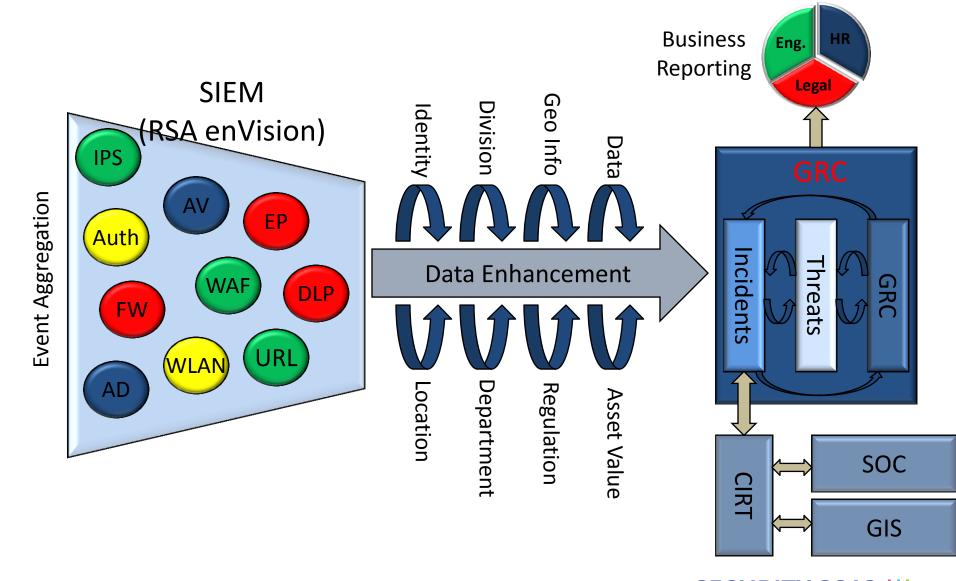


Where before we managed work in two or three places, with GRC Platform you have one place to manage all of your work. People are completing assessments and mitigating risks, not focusing on administrative tasks."



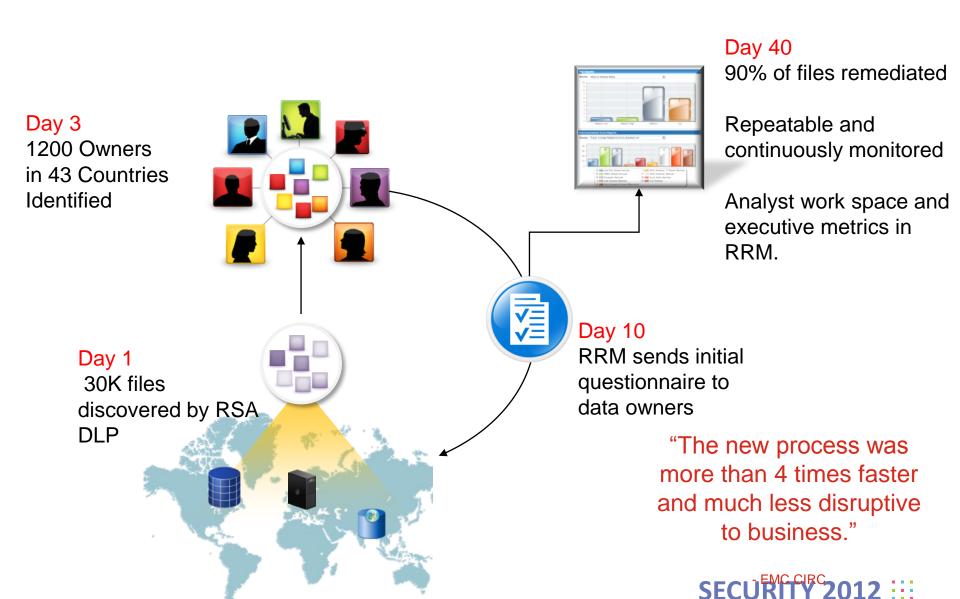


Example: SIEM + GRC in CIRC



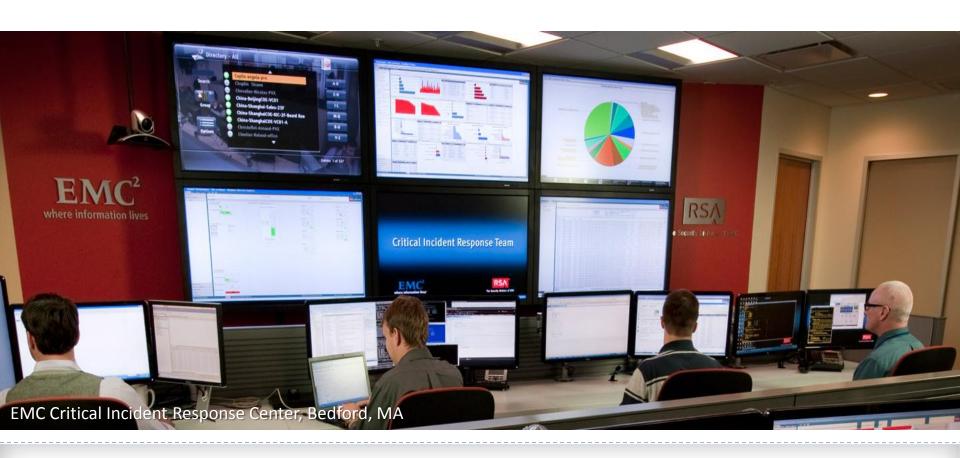


Example: DLP Risk Remediation





In Action: GRC in CIRC



Business Context Process Automation

Visibility

Integrated **Approach**

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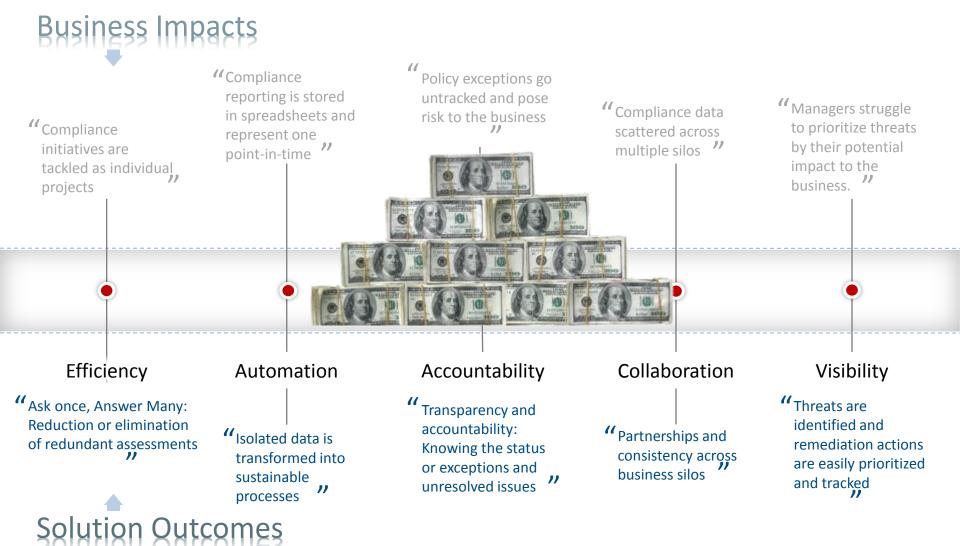
GRC ROI Realized

Realized Value	Organization	Proof Point		
Process Efficiency	Fortune 100 Pharmaceutical Company	\$1.5 million annual savings due to reduced effort for Info Sec officers; \$250,000 annual savings due to reuse of assessment questionnaires; reduction in time to complete assessment process from 2 months to 1 day		
Collaboration	Fortune 100 Insurance Company	97% cost savings in IT-GRC due to collaboration and consolidation of assessment processes with several risk functions in the organization.		
Speed and Agility	Fortune 100 Retailer	Initial store assessment implementation in February 2008; 1,000 assessments completed by March 2008 and over 3,500 by September 2008		
Visibility	Fortune 1000 Bank Holding Company	Marshall Toburen, VP and operations risk manager: "Before we implemented our ERM system, silos of data were not used effectively. Now data may go into the system for one issue, but it can be cross-applied to all aspects of the business and aggregated for an overall view of risk rather than a variety of broken views."		

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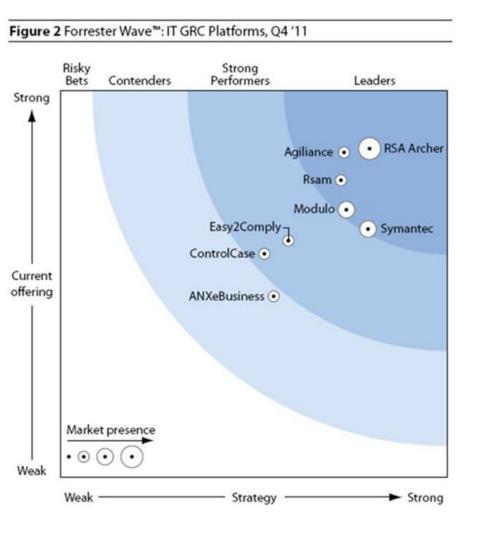
Business Outcomes

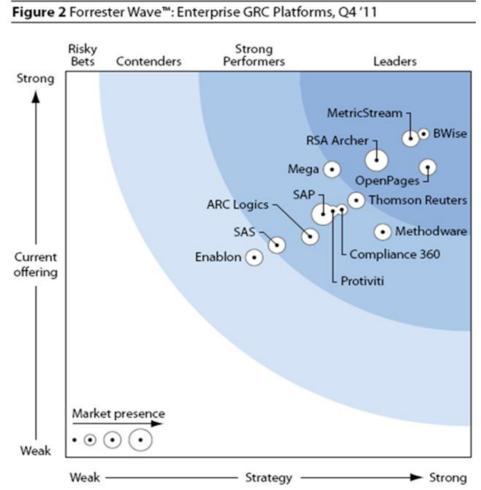


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The 2011 Forrester Wave - GRC

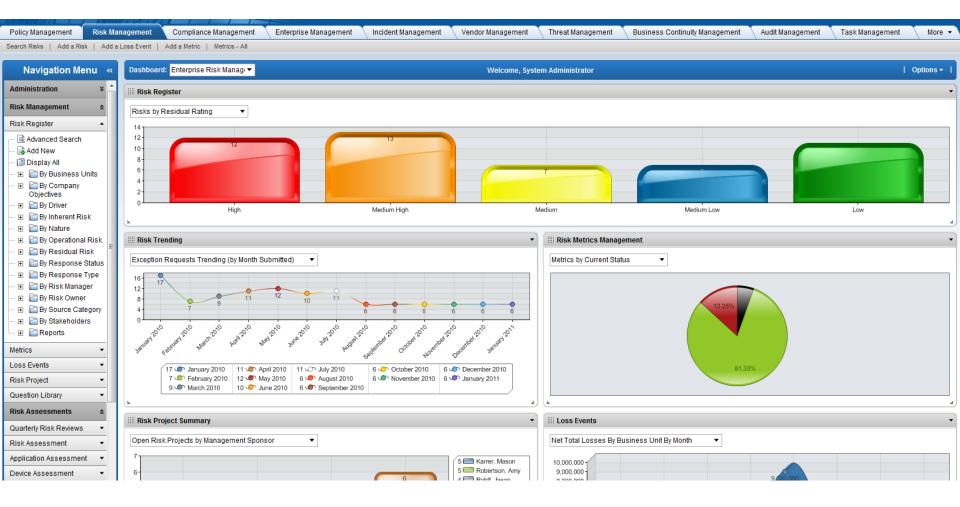




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GRC – Risk Management Example





Děkujeme za pozornost.

Živé demo RSA Archer GRC:

- salónek
- Petr Nádeníček, AEC

Ivan Svoboda RSA, The Security Division of EMC ivan.svoboda@rsa.com

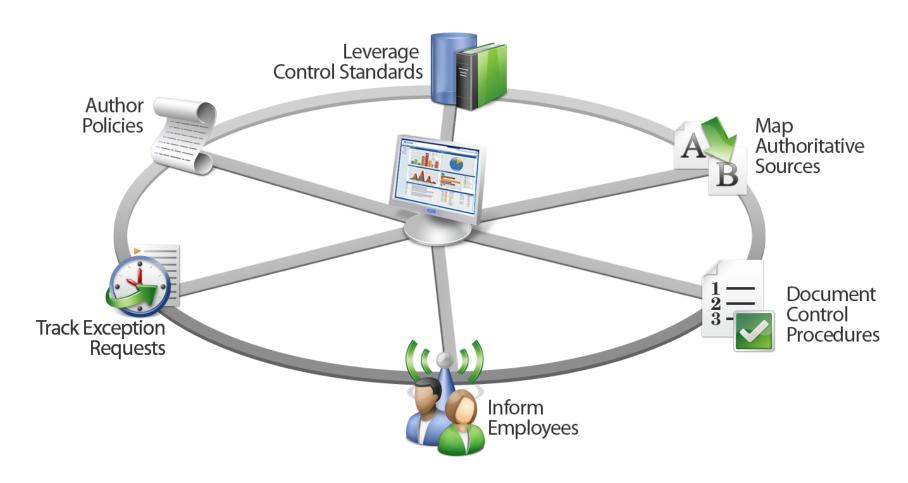




GRC Customer Success

::: An Illustrative Example

Policy Management





Effectiveness of GRC Deployment

Policy Management

- Created a consistent, automated process for managing the lifecycle of their policies and controls.
- Reduced the time and effort required to create, update and communicate policies company-wide.
- Greater end-user visibility into corporate policies through an easy-to-use portal.
- Consolidate control requirements for compliance processes.

"Our organization has experienced significant cost reductions in managing the policy review process."

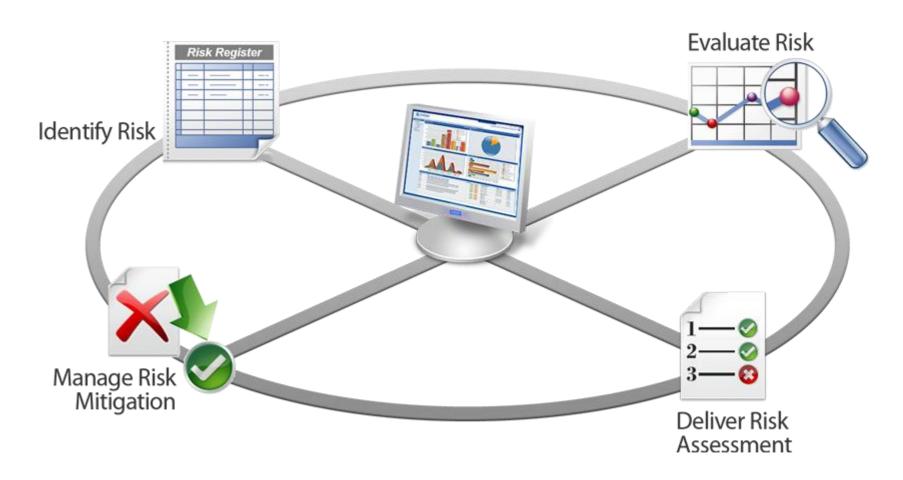
Advisor - Information Security & IT Risk Strategy



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An Illustrative Example

Risk Management





Effectiveness of GRC Deployment

Risk Management

- Reduced effort for information security officers, resulting in \$1,500,000 annual savings
- Reused assessment questionnaires, resulting in \$250,000 annual savings
- Reduced time to track assessment completion from 2 months to 1 day

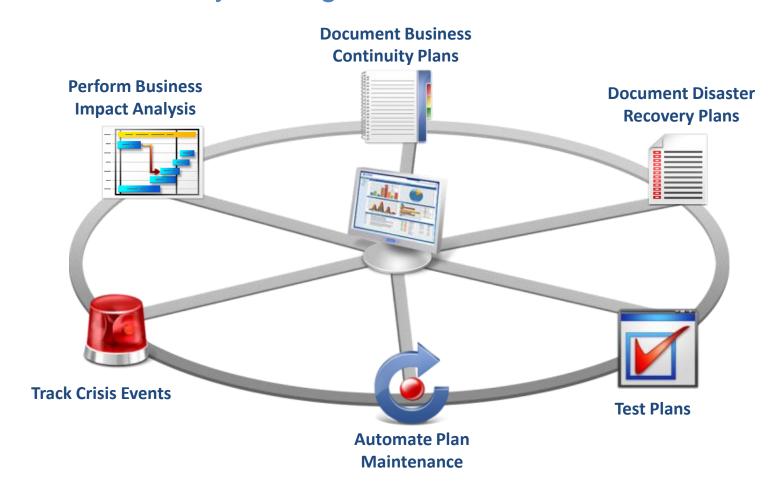
"We've seen a huge reduction in resourcing [for compliance]. What used to take literally up to two months...it's been reduced down to a day or two at most."

Information Security Manager



An Illustrative Example

Business Continuity Management





Effectiveness of GRC Deployment

- Enable protection for 350 applications, 80 of which are deemed critical
- Able to recover **50%** of the systems within 36 hours or less
- Cost of resources required to perform vendor assessments down **50%**
- Risk assessment efficiencies save \$20,000 per year

"The best thing is that we now have quick visibility into the important details without having to dig deep into all the information. We can validate that our risk and business-continuity data are accurate and complete and we can use the dashboards to quickly understand our situation," said the CISO.





Compliance Management

