

# **SAP eXperience Day**

# Compliance e Sicurezza negli ambienti SAP

Vimercate, 18 giugno 2019



#### **Agenda**

#### 10.30 Welcome and Introduction

Christos Papalabros, South Europe Sales Director CFO Office Solutions, SAP Victor Garcia, Europe Lead (CoC) SAP Security & SAP GRC, IBM Andrea Cavalleri, Partner, Aglea

# 10.40 Positioning of SAP GRC and SAP Security portfolio Neil Patrick, COE Resp. GRC & Security EMEA South, SAP

# 11.15 Automation of SAP GRC – Integration and automation of 3 lines of defense Victor Garcia, Europe Lead (CoC) SAP Security & SAP GRC, IBM

# 11.45 IBM's approach to SAP Security Holistic approach to cover the 13 layers of SAP Security Victor Garcia, Europe Lead (CoC) SAP Security & SAP GRC, IBM Andrea Cavalleri, Partner, Aglea

#### 12.25 Q&A and Closing

Christos Papalabros, South Europe Sales Director CFO Office Solutions, SAP Victor Garcia, Europe Lead (CoC) SAP Security & SAP GRC, IBM Andrea Cavalleri, Partner, Aglea



# Positioning of SAP GRC and Security Portfolio

Dr. Neil Patrick, Director COE GRC & Security, EMEA South 18 June 2019

**PUBLIC** 



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## **Agenda**

## Intelligent Objectives Management

- Example Risk Management & Process Control
- Example Audit Management
- Example Business Integrity Screening

### Intelligent Digital Trust

- Example Identity Lifecycle
- Example Enterprise Threat Detection

Real Time Analytics SAP Analytics Cloud - Digital Boardroom

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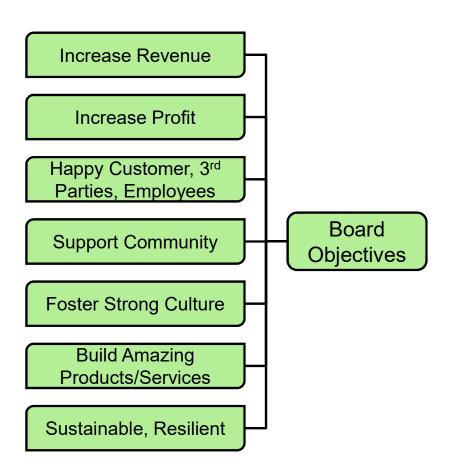
## **Build High Performance Business: Teamwork + Specialisation, Common Goals**



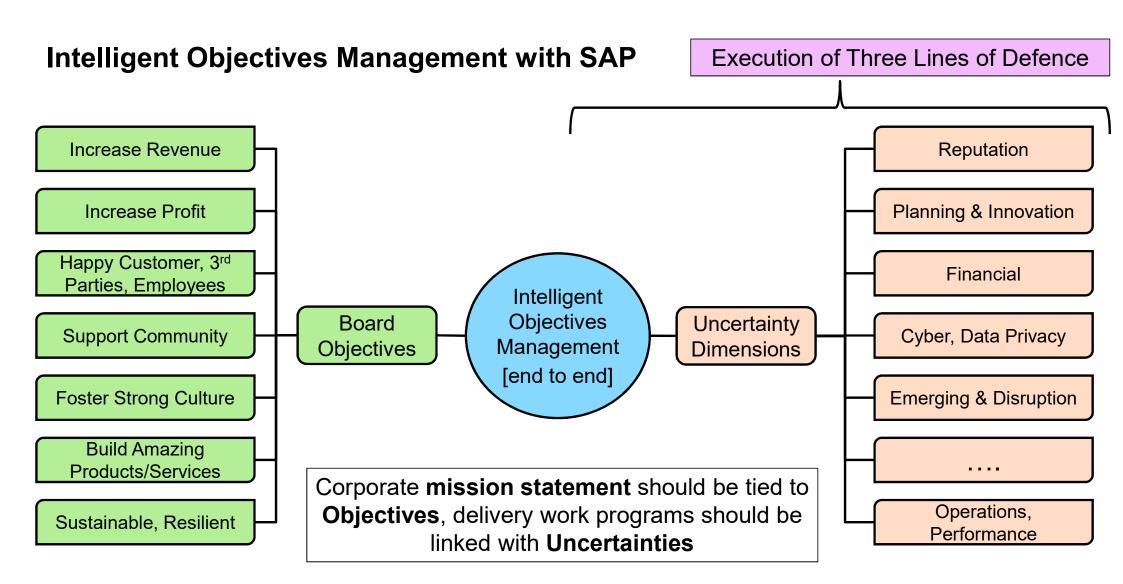
Core AM, RM, PC (3LOD), BIS. Extend with GTS. Add AC, IDM, SSO for IAM

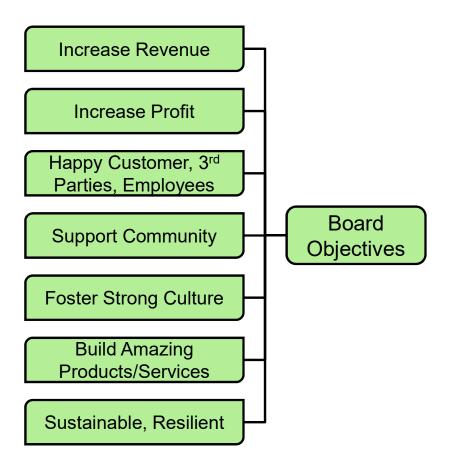
To win a round the world yacht race:

- State of the art yacht, sails, navigation equipment, deep-sea clothes & safety
- A well-thought out course (on a map) & strategy
   to a common target(s)
- Ability to vary the course & strategy if circumstances change
- Accepting some parts of the journey are unknown at the start
- Specialisation in the team
- Unity of direction as a team
- Practice as a team
- Both the journey and the destination



- Strategy is delivered through Objectives
- Business success = meeting Objectives
- Sustainable growth = meetingObjectives

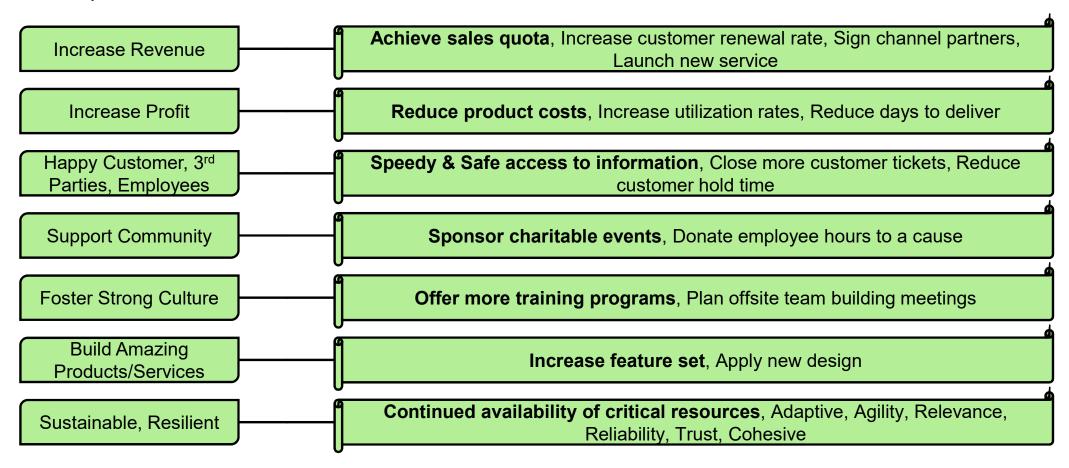




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Examples



Examples

Increase Profit

Reduce product costs, Increase utilization rates, Reduce days to deliver



Examples

**Increase Profit** 

Reduce product costs, Increase utilization rates, Reduce days to deliver

# **SAP Process Control, Risk Management**

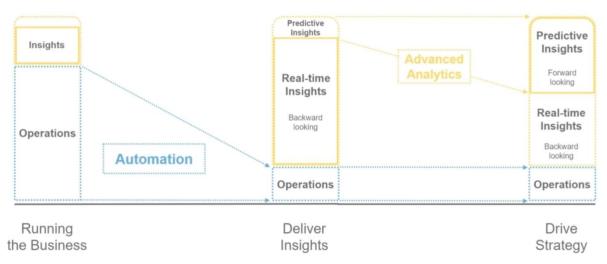
Document and roll out standard, best processes

Delivery within policy, regulation, risk tolerance

Materiality & riskbased change management

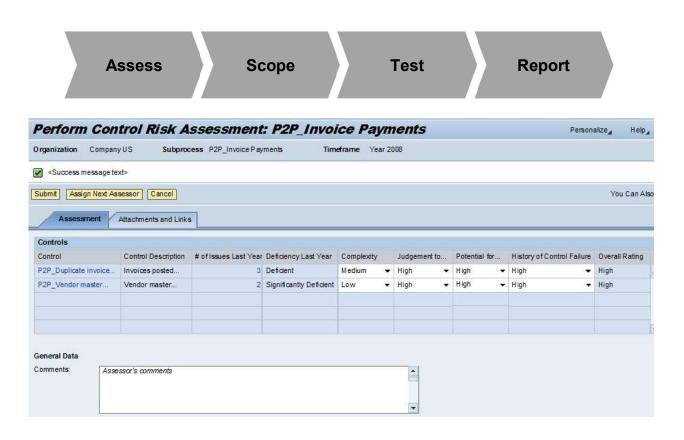
Audit RPA, automatically

Comprehensive operational intelligence



## **Risk Assessment and Scoping**

Develop appropriate test strategies to minimize effort and cost



#### **Key benefits**

Use a risk-based approach

to focus documentation and evaluation efforts on high-impact processes and controls

Automatically select controls and execute test strategies based on desired level of evidence

Reduce documentation and evaluation efforts while documenting scoping results for audits

Examples

Sustainable, Resilient

Continued availability of critical resources, Adaptive, Agility, Relevance, Reliability, Trust, Cohesive



Sustainable, Resilient

Continued availability of critical resources, Adaptive, Agility, Relevance, Reliability, Trust, Cohesive

# **SAP Audit Management**

Best practices (IIA), risk-based design

Integrate with other parts of the business & data

Light-weight engagement of business (1st line)

End to end information flow

Comprehensive operational intelligence

What can/do the business do that will break the business?

"It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to **change**."

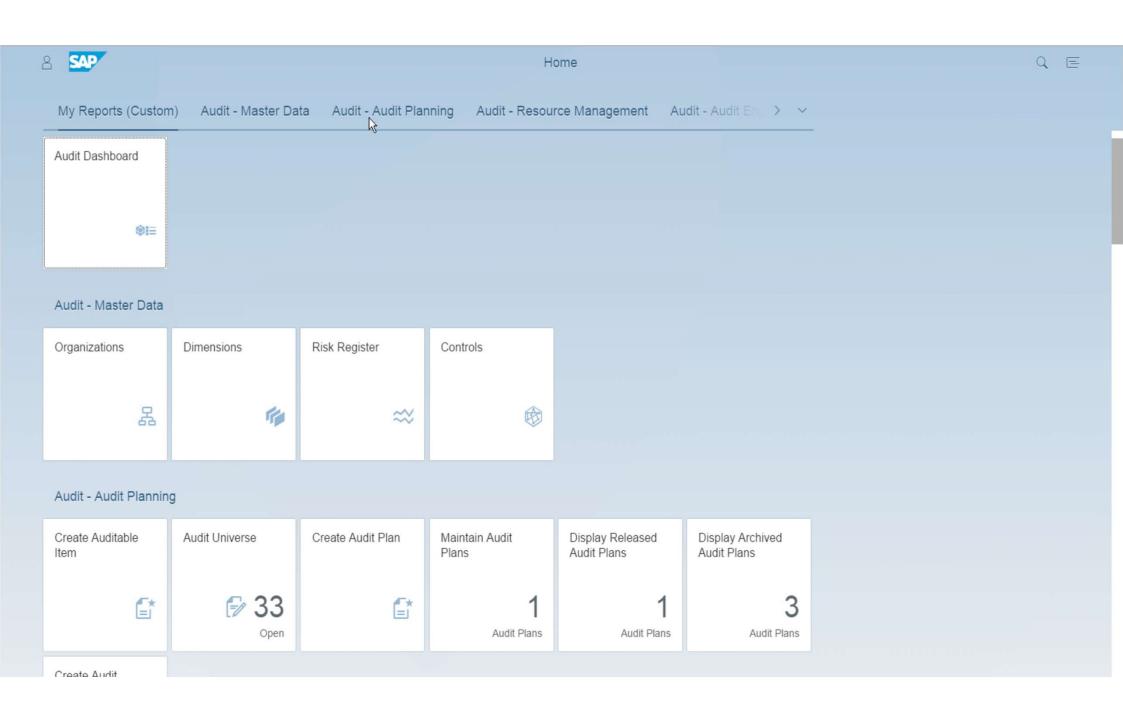
Charles Darwin

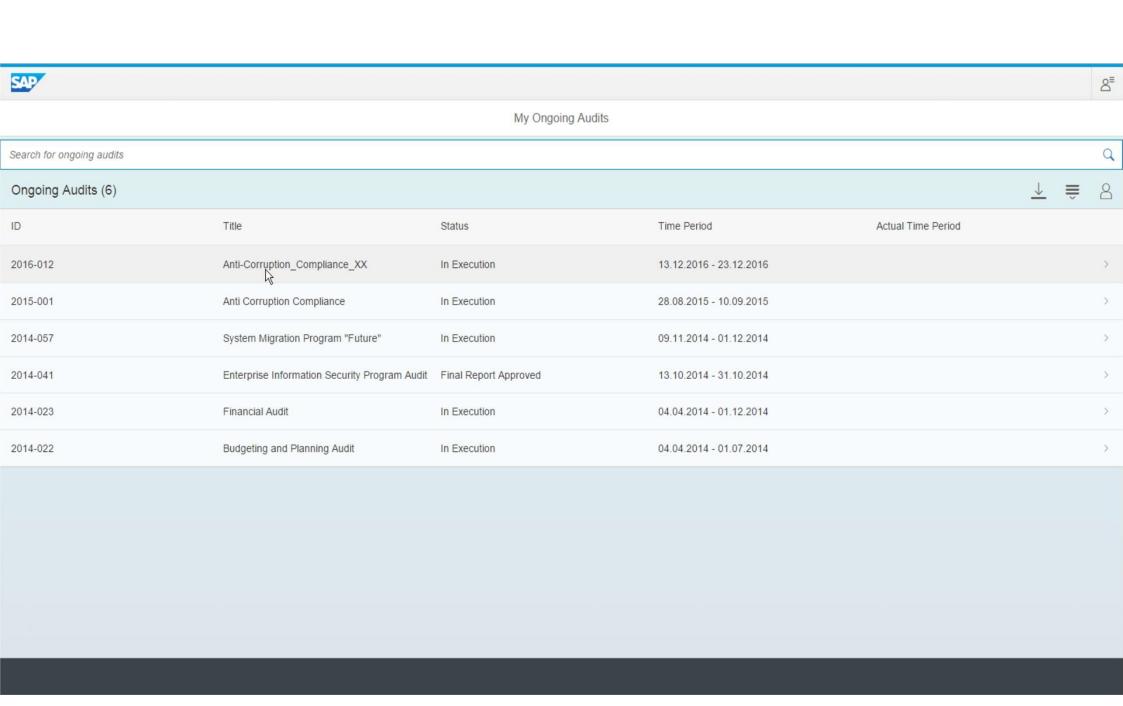


Adaptability

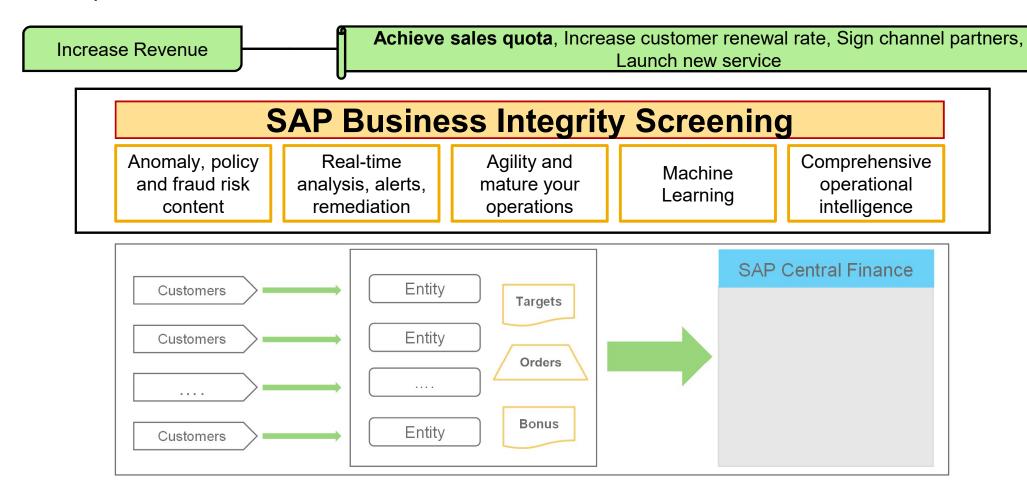
Flexibility







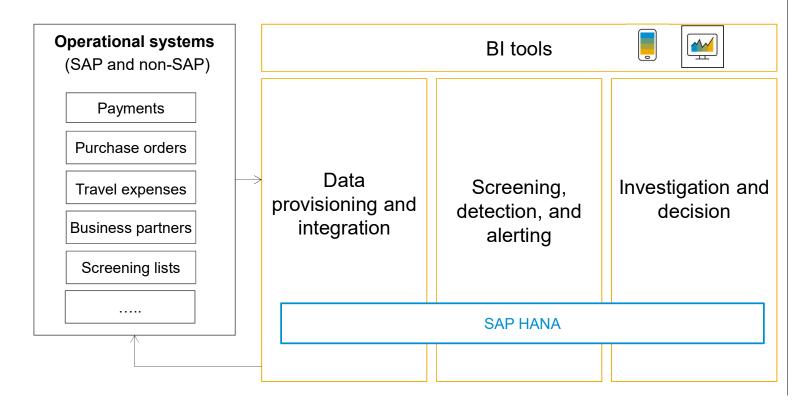
Examples



## **High-performance application architecture**

A flexible and powerful environment to increase process efficiency

High-performance processing of very large data volumes



#### **Key benefits**

Powerful data integration from **SAP and non-SAP** operational systems

Flexible modeling of screening and detection rules

Optionally provide feedback on status to external processing of operational business events (for example, suspend a suspicious or erroneous payment)

#### **Enable Detection Rules**

Predelivered content: examples



Vendor and service provider



**Payments** 



Customer



Accounting



Purchasing



Invoices



Travel expenses



Compliance

Frequent changes in the master data of a vendor Vendor located in high-risk country

Smurfing on outgoing payments (split invoices) Irregularities in payments to vendors

Customer located in high-risk country Bank account and address in different countries List screening (for example, PEP lists)

Accounting documents posted on exceptional dates

Address screening
Conflicts of interest

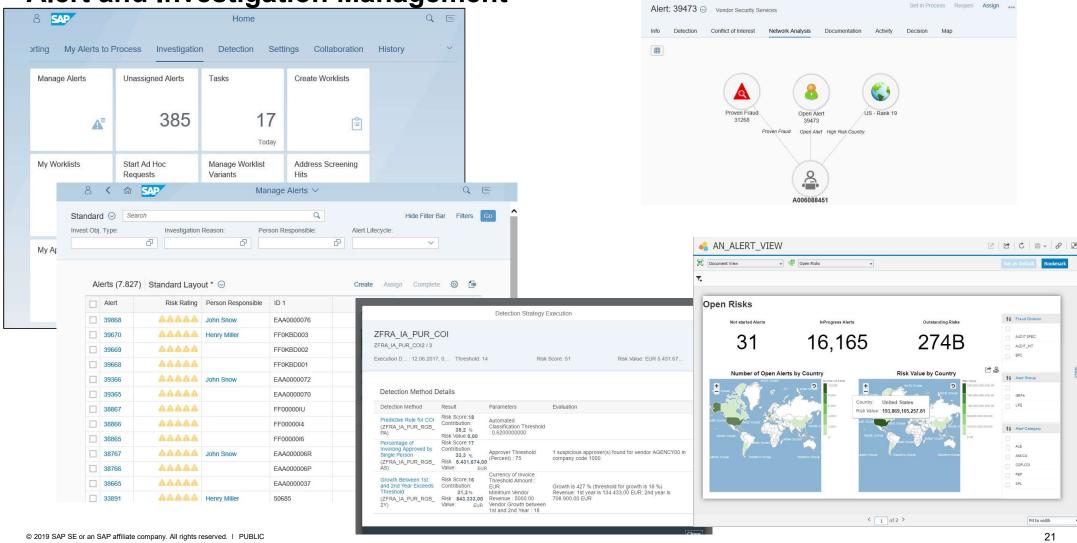
Irregularities in purchase orders

Irregularities in invoices High-value keyword search

Irregularities in travel expenses

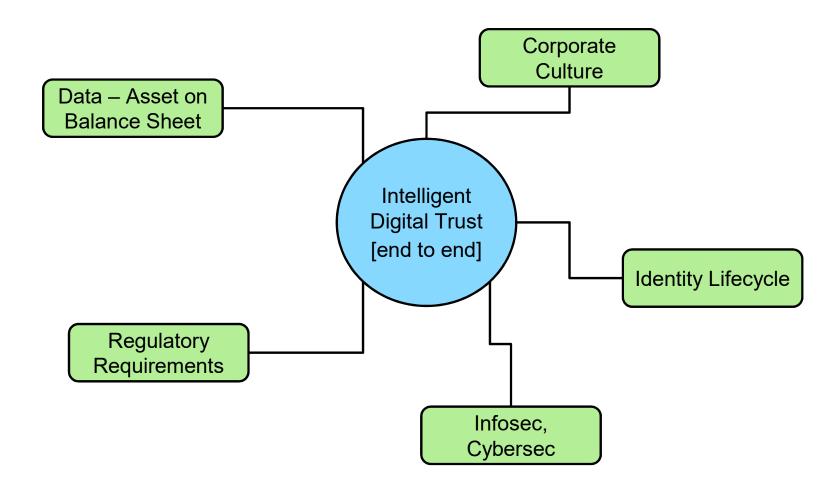
Foreign Corrupt Practices Act International Anti-Bribery Act

Alert and Investigation Management



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Manage Alerts ∨



Examples

Happy Customers, 3<sup>rd</sup> Parties, Employees Speedy & Safe access to information, Close more customer tickets, Reduce customer hold time



#### Examples

Happy Customers, 3<sup>rd</sup>
Parties, Employees

**Speedy & Safe access to information**, Close more customer tickets, Reduce customer hold time

# **Concept: Identity and Access Management**

Works for SAP and non-SAP systems

Link to HR triggers, workflow & automation Identity: employee, 3<sup>rd</sup> party, IoT

Machine Learning Comprehensive operational intelligence





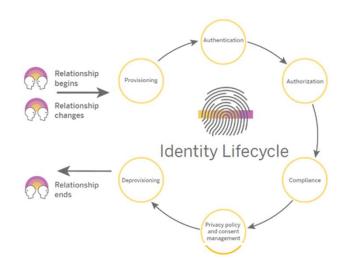




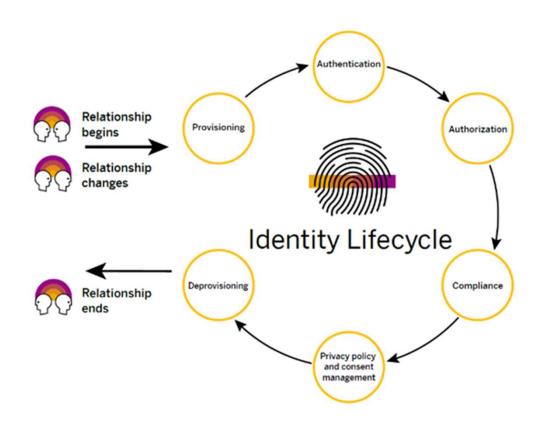








#### SAP Solutions addressing Identity and Access Management



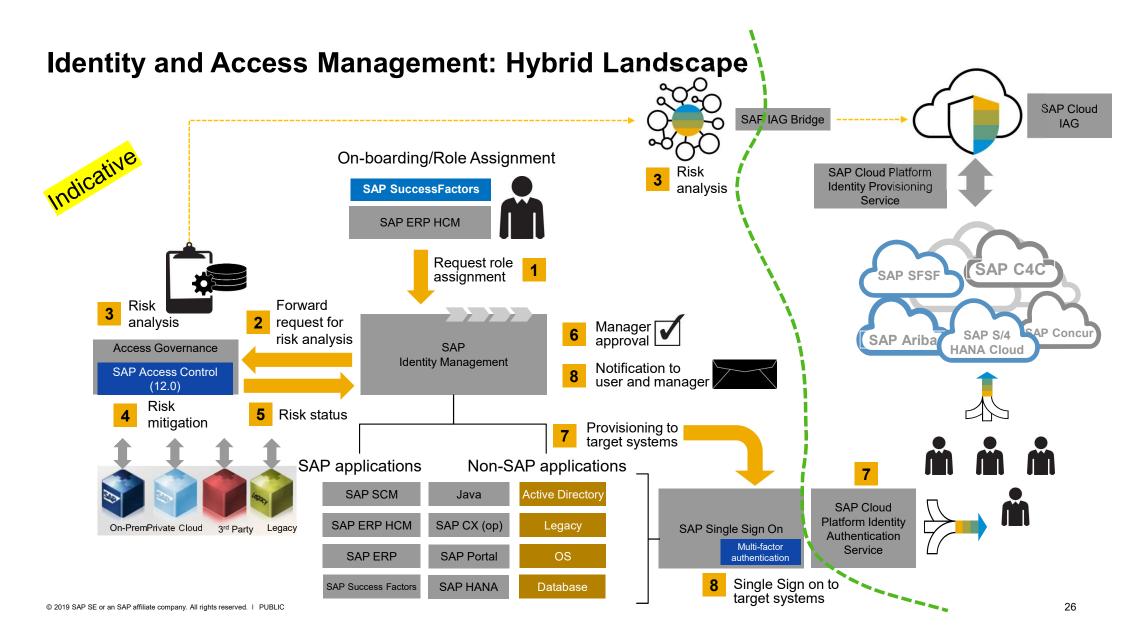
#### **SAP Solutions (for SAP and non-SAP estate):**

**Identity Management:** Creates a central, master, user identity directory to every other system. Link to AD etc. Provisioning users according to their current business roles (authorisation). Link to HR triggers.

**Single Sign On:** Employees to log in to all applications from their initial, single, authentication

**Access Control:** Business risk analysis of provisioning users to applications. Also SOD, business role creep, emergency access. Link to HR triggers.

**UI Masking, UI Logging:** Mask what data SAP users can see on screens based on user role / permissions. Log and track what data users actually see. Lightweight to implement, doesn't impact underlying database & processes (e.g. reporting)



Examples

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#### Examples

Sustainable, Resilient

Continued availability of critical resources, Adaptive, Agility, Relevance, Reliability, Trust, Cohesive

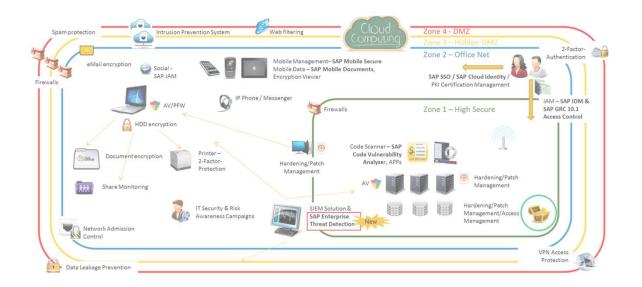
# **SAP Enterprise Threat Detection**

Big data, real time, complex analysis Correlate across many platforms, user patterns

Value, Volume, Vulnerability: detective

Machine Learning Comprehensive operational intelligence

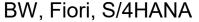


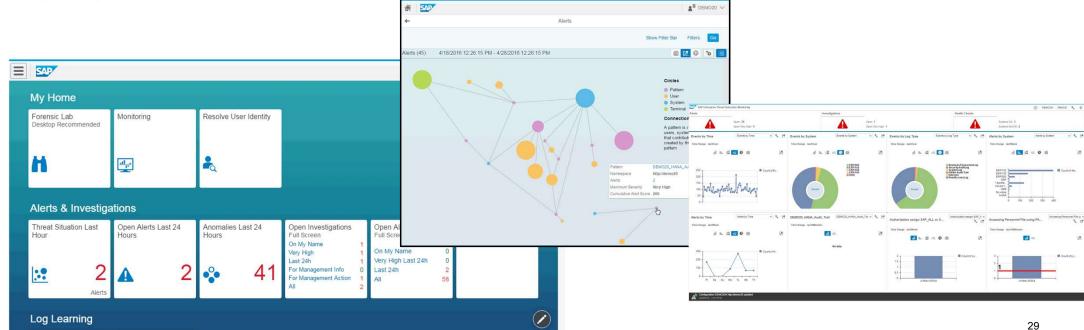


#### Examples

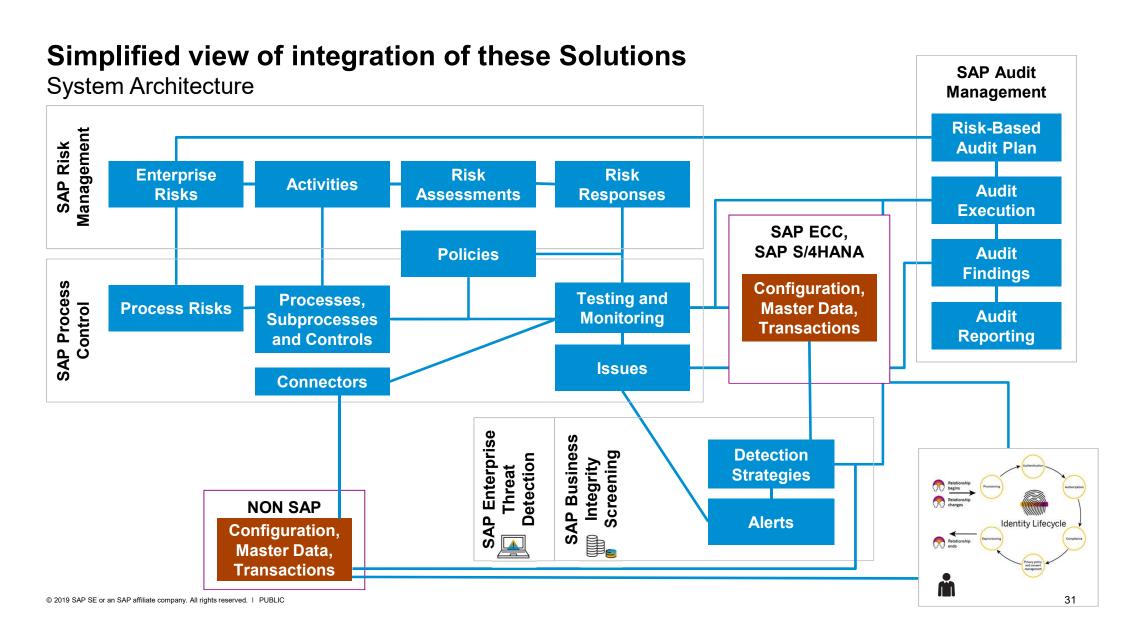
**SAP Enterprise Threat Detection:** Big data, real time, cybersecurity event analysis, detection and investigation. Correlates identities behaviour across multiple systems lifting out suspicious behaviour. Behavioural patterns over time, anomaly detection, semantic language. **Business level analysis** (not infrastructure) – where your IP is - and integrates with SIEM tools & SOC processes.

**SAP UI Logging:** Record which business data SAP users have viewed via: SAP GUI, WebDynpro, CRM, RFC,





# All on One Page.....



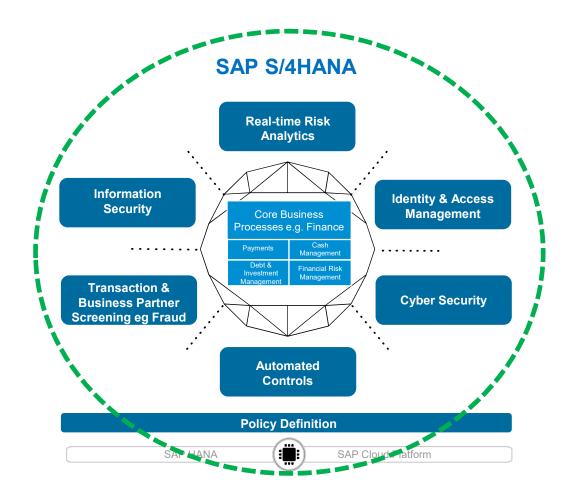
Simplified view of integration of these Solutions

**Business Process Example** 

What organisation can continue to function without the data it holds about customers, products/services, initiatives, decision-making, performance etc?

Data is an intangible asset, like the accounting concept of goodwill.

Processes – e.g. financial – consume, create, change that data



# Real Time Analytics SAP Analytics Cloud Digital Boardroom



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**Objectives Impacted** 

125.99



12.68%

Incidents Evolution



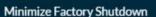




An SAPinsider Scoop: How Vivint Prepared... As we race towards one of our first event "majors" of the season, SAPinsider GRC and Financials in Las Vegas, March 21-24, I thought it would be a

GRC Tuesdays: How to Secure Compliance ... As time goes by, with many governments needing to reduce their budget deficits and rising national debts, collecting all tax revenue due is critical

GRC Tuesdays: Three Lines of Defense and... The role of internal auditors is to provide "assurance," right? What does "assurance" look like? It looks like this-"In our opinion,



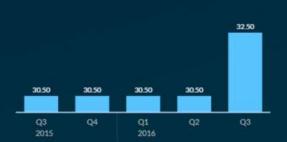


Minimize Operating Cost



**Ensure Worker Safety** 

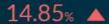














Maintain Regulatory Compliance 5.76%













Boardroom Meeting

#### 23 Ba X

#### **OBJECTIVE:**

#### Maximize product revenue



- Maximize product revenue
- Minimize operating cost
- Ensure worker safety
   Minimize factory shutdowns
- Maintain regulatory compliance
- Prevent fraud on behalf of the co...



- Consumer Packaged Goods
- Automotive
- Mining
- Life Sciences
- Chemicals
- Sales EMEA

Show Inactive Values I

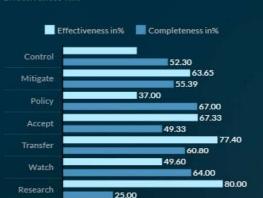
#### **RISK ANALYSIS**





#### MITIGATION ANALYSIS





#### **INCIDENTS ANALYSIS**









#### **OBJECTIVE:**

#### Maximize Product Revenue

- RiskCategory All
- Clients, Products and Business P...
- Supply chain
- Improper Business or Market Pra...
- Information systems
- Corporate governance
- ( Interest rate risk
- EmpInt Practices and Workplace ...
- Liability lawsuits
- Execution, Delivery & Process M...
- Theft and fraud

#### RiskOwner

All

○ Giovanni Ricci

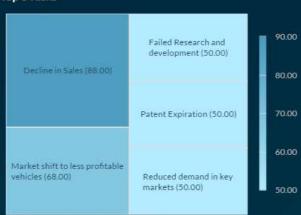
Jose Vega

- Isabelle Dupont
- Nandita Patel
- Antonio Ferrari
- O Sam Hall
- Tomoko Sato

#### **RISK DETAILS**



#### Top 5 Risks



#### **RISK OWNER**

Nandita Patel Antonio Ferrari

#### Residual Total Loss per Risk Owner



Jose Vega

#### **RESPONSE DETAILS**



Full Mitigation Investment Required

19,458,869.24

Total cost for all risk responses

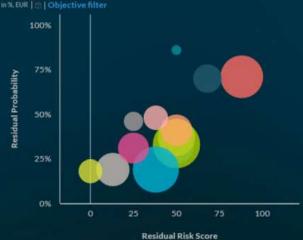
**Mitigation Progress** 



#### Q Threat level by individual risk

Q





#### Risk Owner Details

Risk Name	Risk Owner	
Decline in Sales	Jose Vega	1,781,875.0
Changes in automotive technolo	Giovanni Ricci	985,000.0
Market shift to less profitable ve	Nandita Patel	660,906.2
Patent Expiration	Giovanni Ricci	1,041,375.0
Reduced demand in key markets	Nandita Patel	1,301,000.0
Patent litigation	Jose Vega	242,750.0
Transfer price error	Giovanni Ricci	2,326,718.
Error in Revenue Recognition	Antonio Ferrari	841,250.0
Vehicle defects	Giovanni Ricci	2,145,250.0
Failed Research and development	Nandita Patel	106,000.0
Counterfeit products	Jose Vega	446,250.0

#### Completeness in% Effectiveness in% Response Cost 70.1 3,926,212,06 3,846,306.40 63 **57.8** 56.9 50.2 53 54.1 53.3

# Thank you.

Contact information:

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