## **SAP HANA Cloud Platform**

.

Chris Aron Global Go To Market February 2017



## Legal disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. This presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this document is not a commitment, promise or legal obligation to deliver any material, code or functionality. This document is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This document is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this document, except if such damages were caused by SAP's willful misconduct or gross negligence.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

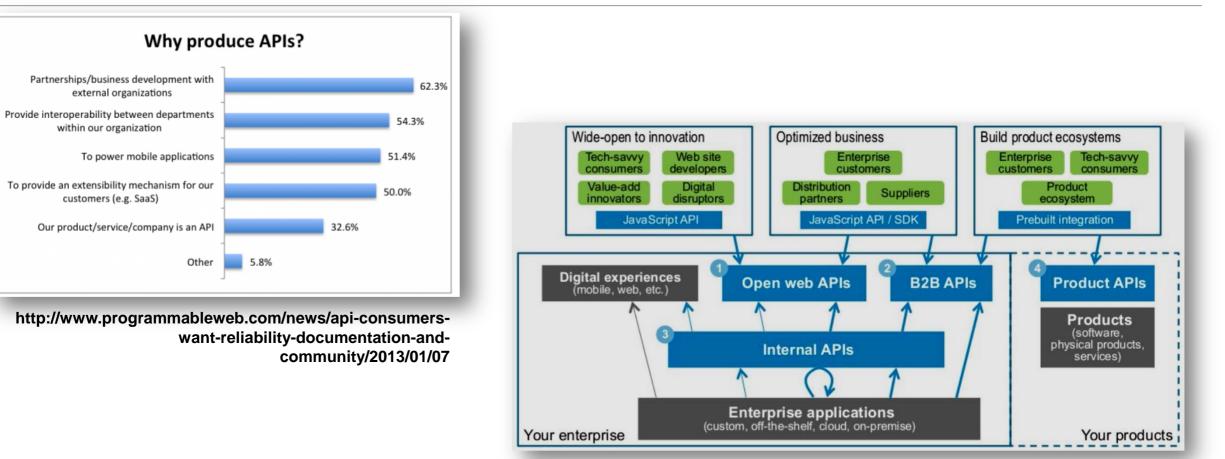
# **Opening the value of your** systems and data through **SAP HANA Cloud Platform**, **API Management**



## **API Management Use Cases**

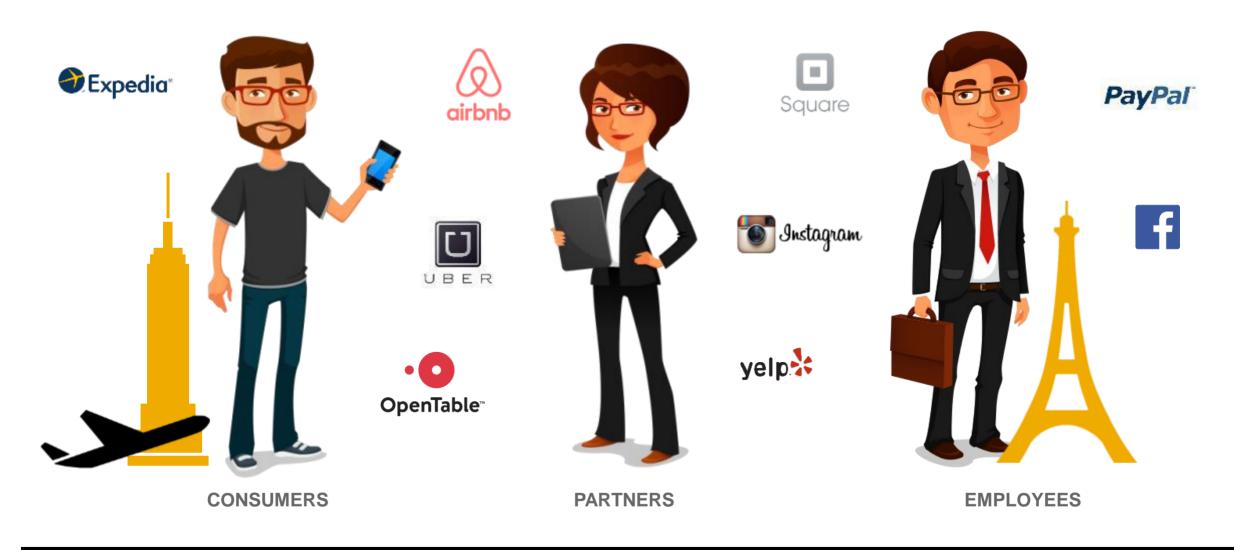


### **Main Usage scenarios of API Management**



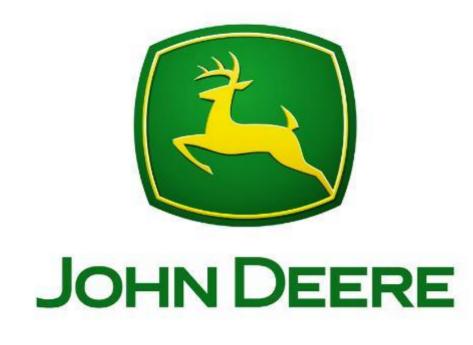
Source: Establish Your API Design Strategy, Forrester Research report, June 2013

### **B2C digital disruption**



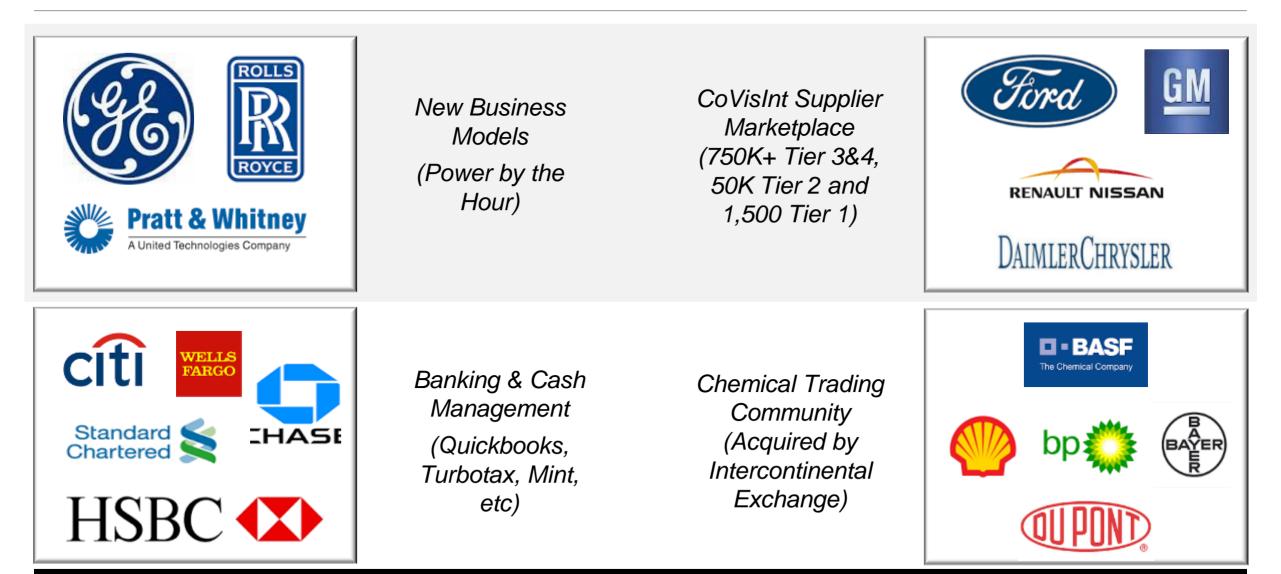
6

### **B2B Digital Transformation Examples**





## **Additional B2B API Based Digital Transformations**



## **HCP: Enabling New Business Models**

postnl

Postal Service provides APIs to integrate the shipment process into market places for shoppers.

- Catalog API
- Pick Up And Drop Off Points API
- Consumer Shipment API

### Value proposition

- Market Place enhanced with integrated shipment logistics for sellers
- Shipment rate transparency for buyers
- Ease of package delivery through drop-off point finder

### Next steps

Enhance API exposure with additional services (e.g. address validation)



### **HCP: Monetizing Internal System Usage**

- Multinational mining, metals and petroleum company
- Low commodity prices are putting firm under financial pressure to reduce capex and IT spend overall
- CIO/COO mandating a cloud first approach for all IT decisions, IT seeking to reduce datacenter spend
- Business units are spread across the APJ region (notably Singapore and Australia)
- SAP/MSFT landscape (BizHub, Sharepoint, .NET)
- Connecting Western Australia's Iron Ore operations with Singapore's executive office
- APIM provides customer with the ability to quickly mashup data from SAP and non-SAP systems, with different data displays based on user role. APIM provides company the ability to analyze traffic and user consumption patterns
- Client chose SAP API Management as one of the foundations for their digital transformation initiative.
- Now they are looking at HCP AppServices, HCPms and Fiori



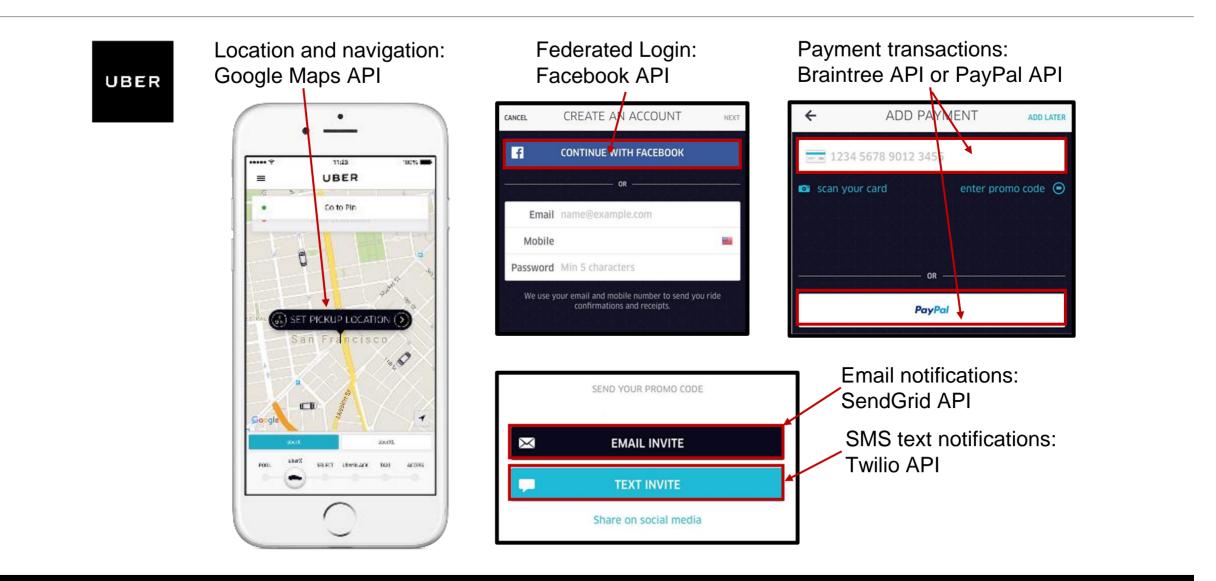




## **B2B API's in Use**



### **B2C API Consumption Use Case – Uber App**



### **B2C API Distributed Use Case - Uber in other apps**

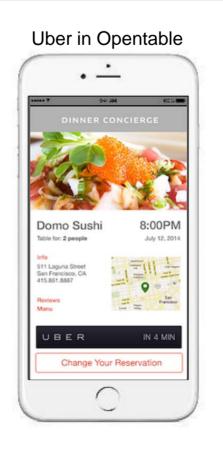


#### **Concur & Uber Partner to Simpilfy Business Travel**

https://www.concur.com/blog/en-us/concur-uber-partner-to-simplify-business-travel

#### Concur integration with Uber for travel expense

https://www.concur.com/en-us/app-center/listing/nBxVUUAx3XUp1NZPM2XrADp0yTQ/Uber



Other app integrations with Uber include:

- Google Maps
- TripAdvisor
- Starbucks
- Hyatt Hotels
- Microsoft Outlook
- Pebble Smartwatch
- Expensify (travel expenses), etc.

## **B2B API Consumption Use Case**

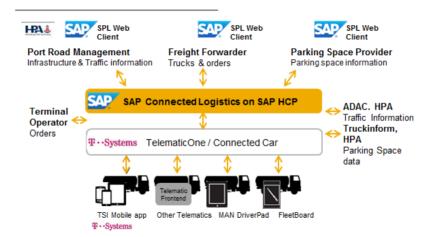
### Company

The Hamburg Port Authority is managing the Hamburg port.

### Situation:

- Geographical limitations and constantly growing container throughput
- No transparency through data overflow





## 5-10 Minutes

Driving saved per truck and tour, equaling 5,000 hours per day over 40,000 trips

## 2x

Increase in cargo handling in the Port of Hamburg

## Increased

Throughput for freight forwarders

## Reduced

Wait time for truck drivers

### Solution

- Location sensors on trucks and trailers
- T-Systems telematic solutions
- Data sources for real-time information like traffic
- SAP Connected Logistics
- HPA solution: smartPORT logistics (SPL)

### **B2B API Connected Ecosystem**



### Company

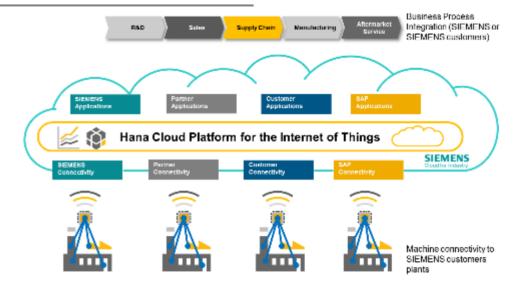
Siemens AG (industry sector), the leading global producer of Industry Automation and Drive Technologies

Situation: Siemens wants to offer an open cloud-based platform as a basis for an industrial ecosystem. This will enable OEMs, application developers and customers to integrate devices and to offer data based services.

### Solution

- Siemens Industrial Service Backbone (ISB)
- HANA Cloud Platform for the Internet of Things
- SAP analytical tools and apps
- IoT apps from Siemens and partners
- Business model: OEM PaaS

### Technology and Business Innovation



### **Benefits**

- · Combine the best of both worlds
- A unique, end-to-end and global IoT offering for OEMs, app developers and industrial customers
- Set a new industrial standard to access and make sense of machine data

# SAP API Management and SAP SuccessFactors





### SAP SuccessFactors Integration Strategy **Overview**



Packaged Integration Content



Integration tools and technology



Productized integrations built and maintained by SAP:

SuccessFactors-SAP SuccessFactors–Partners

### **Integration Center:**

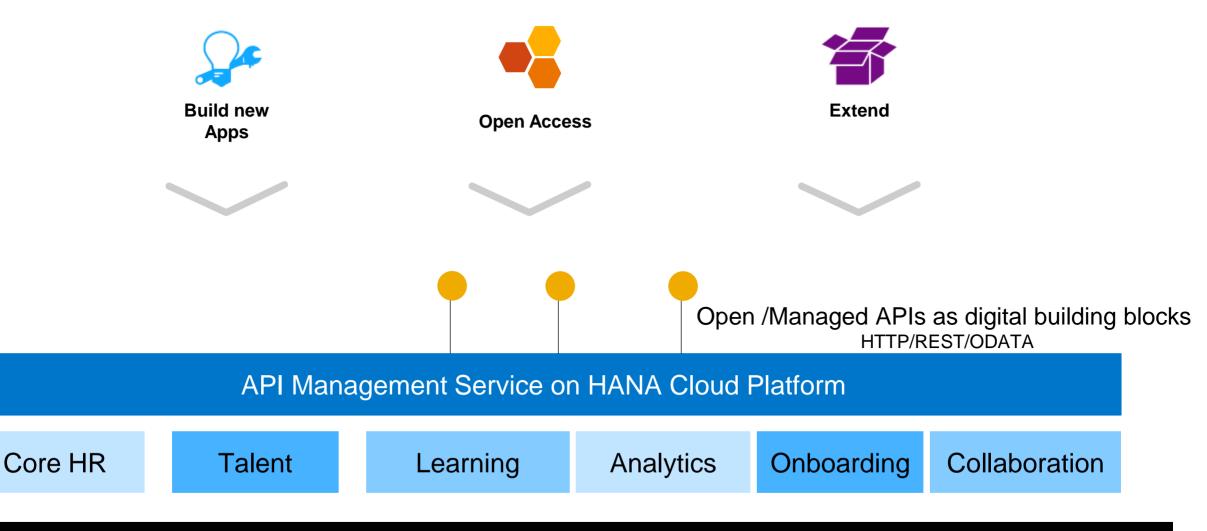
Easily build, maintain, and monitor simple integrations

### **SAP HANA Cloud Integration:**

Full platform to build and manage complex integration needs

Full catalog of open APIs managed with SAP API Management to extract and upload data to/from SuccessFactors applications

# Build, Integrate and Extend SAP Successfactors using managed Open APIs



### **SFSF API Based HCP Extension Scenarios**

**Open Ecosystem Integration:** Expose employee data and processes to integrate with 3<sup>rd</sup> party benefits providers, training and assessment vendors, recruitment service providers securely using open APIs



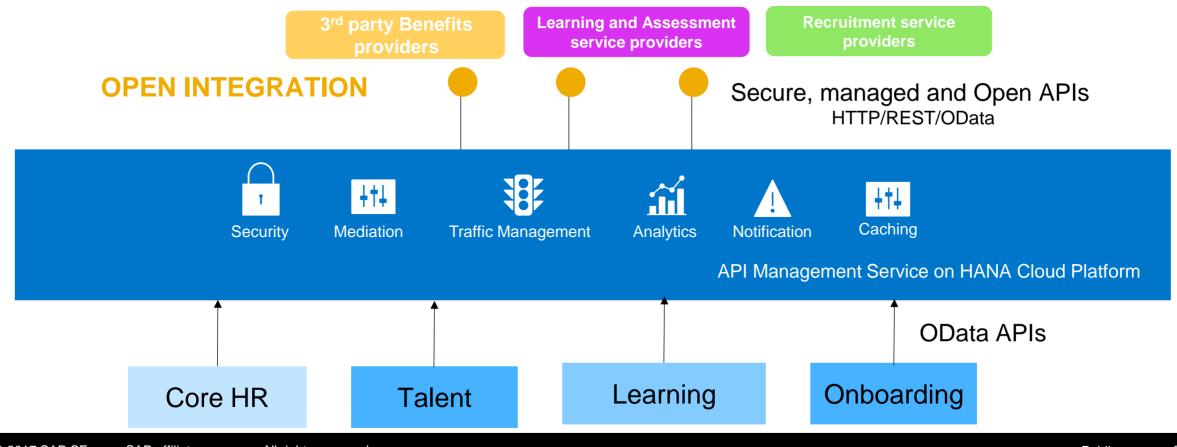
**Mobile and innovative apps:** Build employee and manager selfservice apps by exposing open APIs to integrate data from multiple sources, including SuccessFactors. Employee engagement and innovative apps on top of SuccessFactors



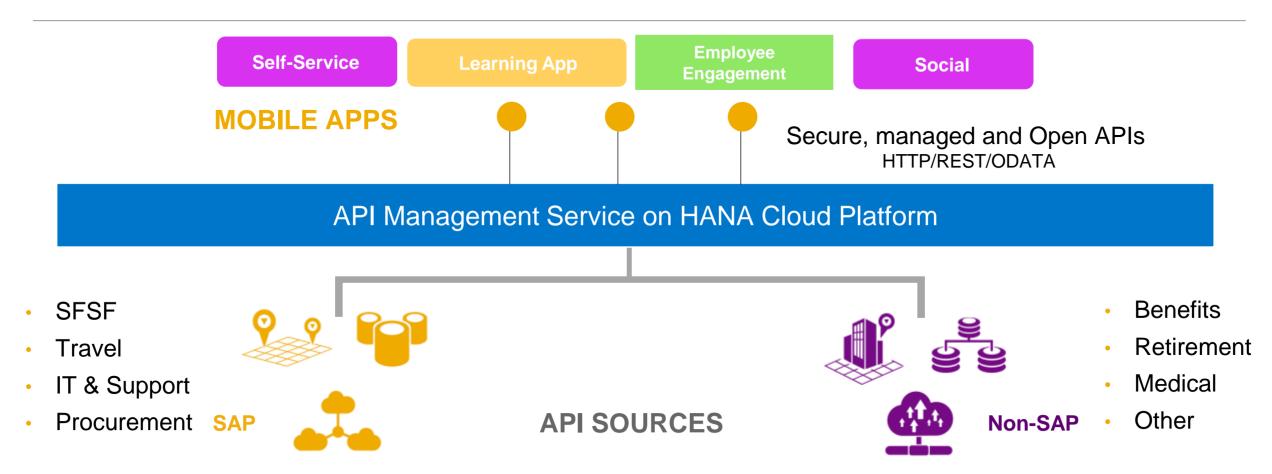
Self-service and secure data access: self-service data access/BI using OData APIs for business users who frequently pull data down from SFSF

### **Open Ecosystem Integration** Integrate securely with 3<sup>rd</sup> parties

Customer exposes the relevant employee and HR data securely to the ecosystem of partners and service providers – 3<sup>rd</sup> party flexible benefits providers, recruitment services, learning and assessment vendors to enable flexible and fast onboarding of partners. Direct expose of tenant-based ODATA APIs increase the risk of attacks, API management can be used to establish security and governance for open integration

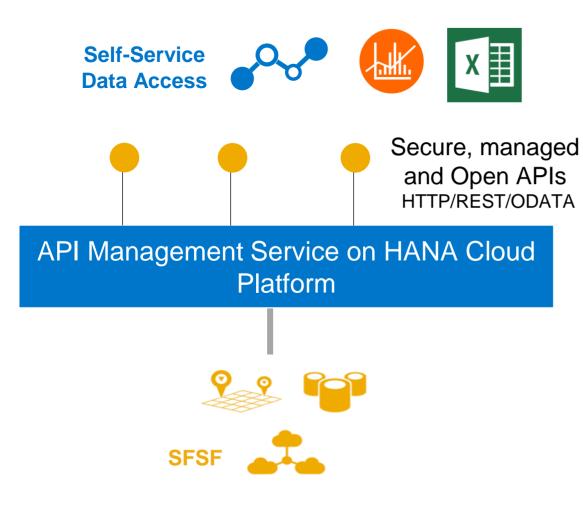


### Mobile and Innovative Apps for Employees and Managers



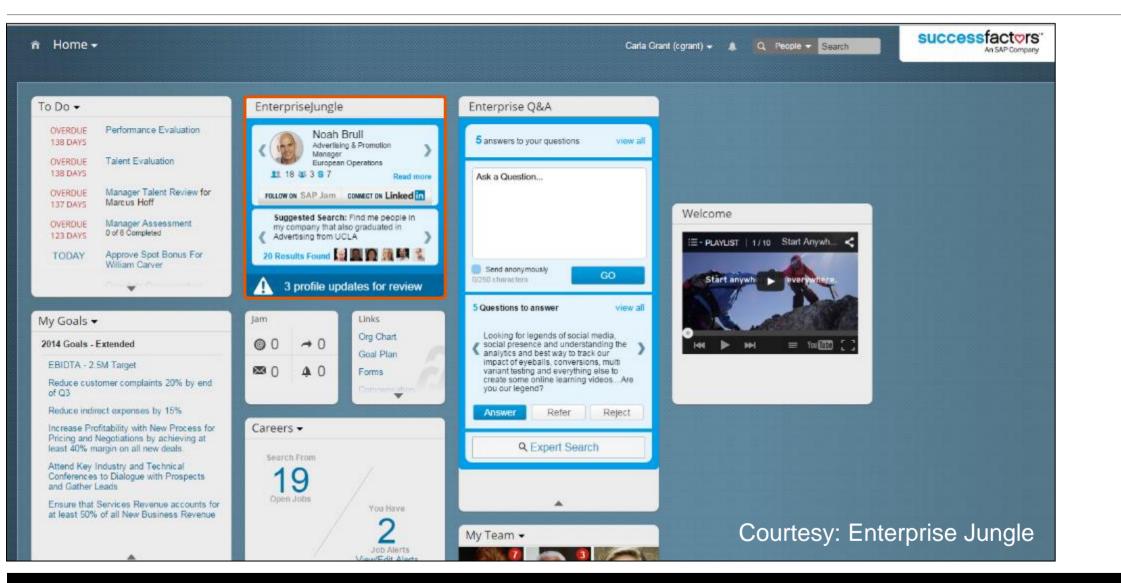
Customer uses API Management to expose APIs for building mobile and innovative apps for employees and managers that displays data from SAP (SFSF) and non-SAP HR related systems (cloud and on-prem). Cloud Identity, HCP AppServices and Mobile Services can be used to configure content based on roles, location and other parameters

### **Self-Service secure data access**



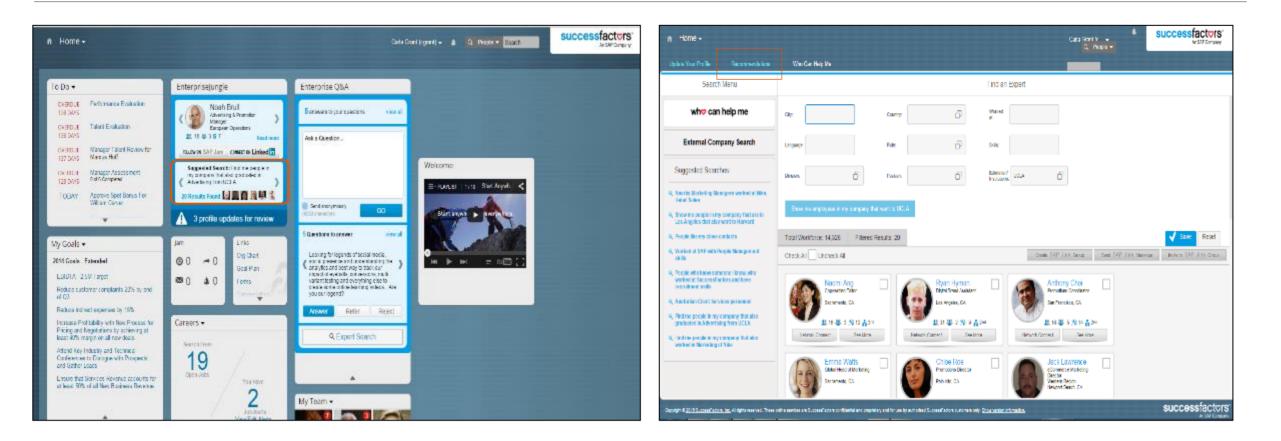
- Customers expose reduced employee data in a secure, governed and audited access using SAP API Management for line of business users for use-cases such as selfservice BI
- Simple access for line-of-business users

### **Enterprise Jungle SuccessFactors Extension**



#### © 2017 SAP SE or an SAP affiliate company. All rights reserved.

### **Enterprise Jungle SuccessFactors Extension**

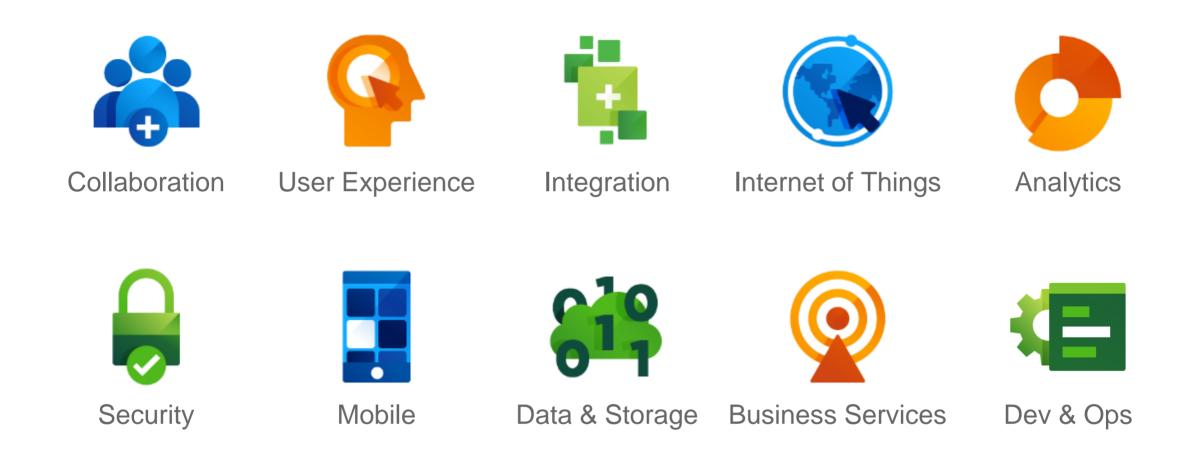


# SAP HCP, API Management

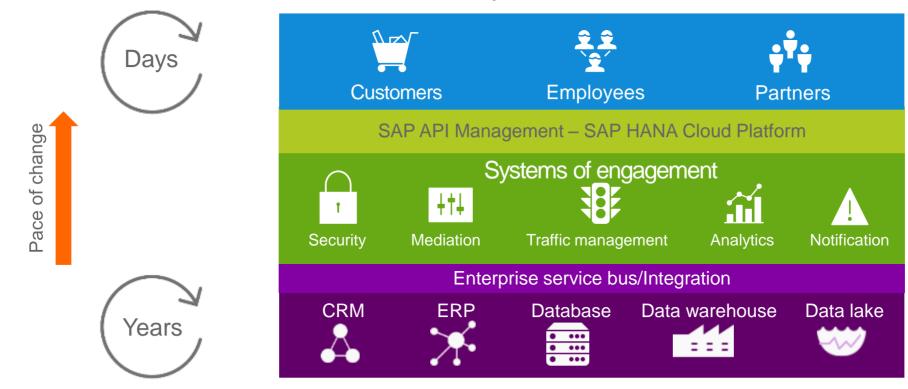


### **SAP HANA Cloud Platform**

The Enterprise Capabilities You Need to Succeed in the Cloud



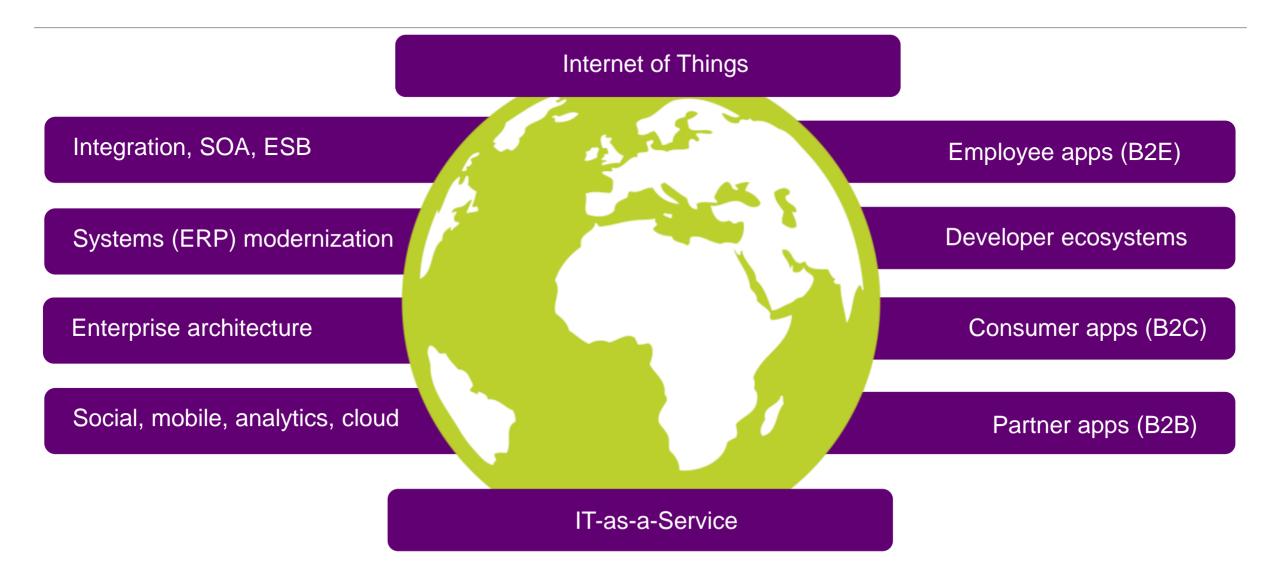
### **API Management Faciliates Bi-Modal IT**



### Systems of innovation

Systems of record

### When to use API management?

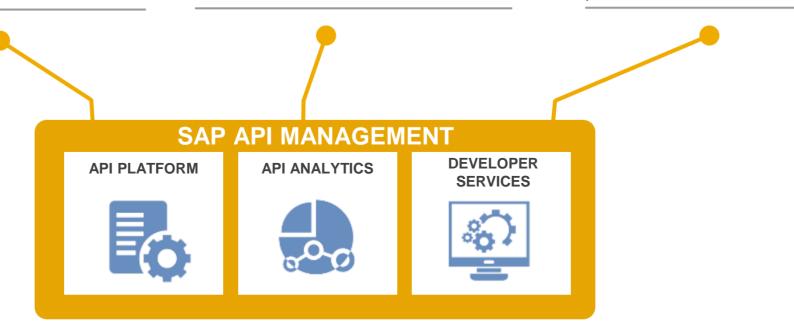


### Value proposition of API management

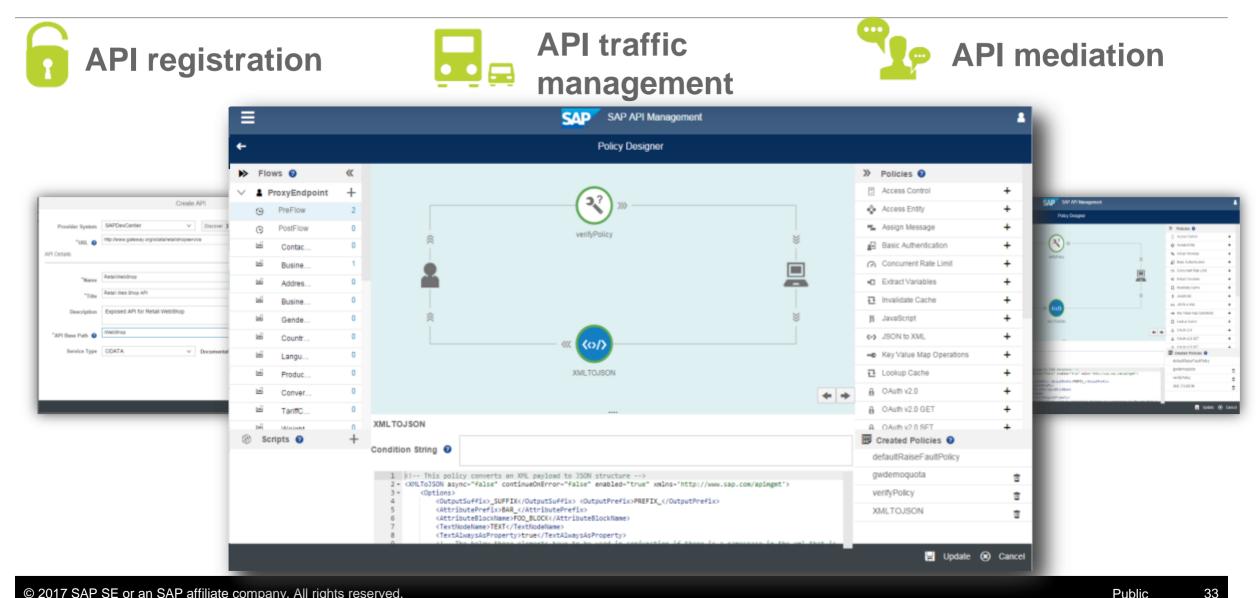


### SAP API Management enabling innovation and bi-modal IT

**API platform** provides tools to **expose and manage APIs** Helps **create and consume APIs**, be it building API proxies as a service provider or using APIs, SDKs, and other convenient services as an app developer API analytics provides powerful analytical tools to view short and long term usage trends of your APIs. IP, URL, user ID for API call information, latency data can be collected **Developer** services provides tools to **manage app developers**. Provides ability to onboard developers and create a developer portal for publicly available API products



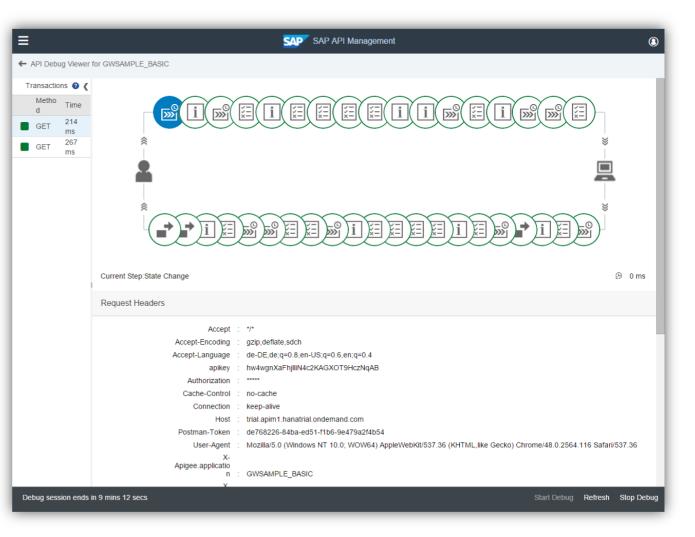
### **Provisioning and securing of APIs**



## **SAP API Management | Debugging**

Built-in Debugger allows to easily view and detect issues that might happen within API calls.

- Troubleshoot and monitor API proxies
- Step through the API proxy flow
- Evaluate and explore different phases during the flow (Proxy Endpoint, Request headers, Request flow, varibales read, ...)



### **SAP API Management | Secure**



Threat protection



Authentication and authorization



Role-based access control



© 2017 SAP SE or an SAP affiliate company. All rights reserved.

35

## SAP API Management | Engage / Consume



### **Developer portal**



## Onboarding applications & developers

=	SAP API Management	۲	≡
SAP API Management	BLE AND SECURE DIGITAL ACCESS enables provisioning, governance, security prise information for digital access		Create Applica
2 2 ALL Flight API Product Version: 1	Enterprise Procurement Model from GWSAMPLE_BASIC API Product Version: 1		Product Enterprise Procure This product exposes data from the Enterpri
Published: about 23 hours ago	Published: 22 days ago		

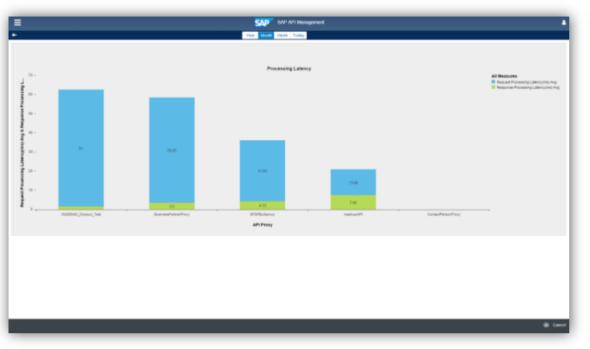
	ication Mobile Application CallBack URL: Enter callback url Details:		
	CallBack URL: Enter callback url		
	Camback OKE.		
	Enter details		
Ø			
Product			
		+	
Enterprise Proc	curement Model from GWSAMPLE_BASIC Service on ES4		
This product expo	ses data from the GWSAMPLE_BASIC Service hosted on the SAP Development Center system. You can access aprise Procurement Model.	+ can access	
	aprice i recurcinent model.		
		Save	Cancel

=	SAF	SAP API N	Management			(		
← API Proxy	GWSAMPLE_BASIC Version: 1   Owned By: D044410   Published: 20.2.2016, 21:56:20							
	API Proxy URL : https://trial.apim1.ha Description: Gateway Sample Service - Basic	anatrial.ondema	nd.com:443/d0	044410trial/GV	/SAMPLE_BASIC			
Resources	21)							
BusinessPa BusinessPan		GET	POST	PUT	DELETE	*		
Contact ContactSet		GET	POST	PUT	DELETE	*		
Product ProductSet		GET	POST	PUT	DELETE	*		
Regenerate Regenerate					POST	*		

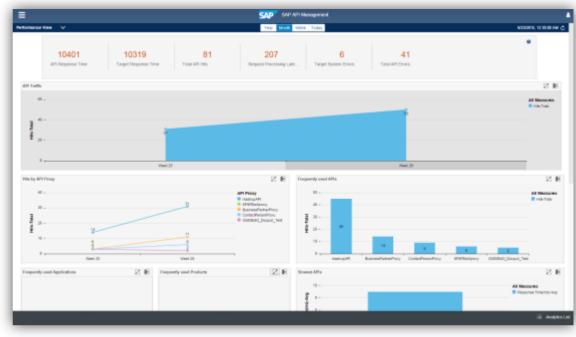
### **SAP API Management | Analyze**



## Analytics dashboard

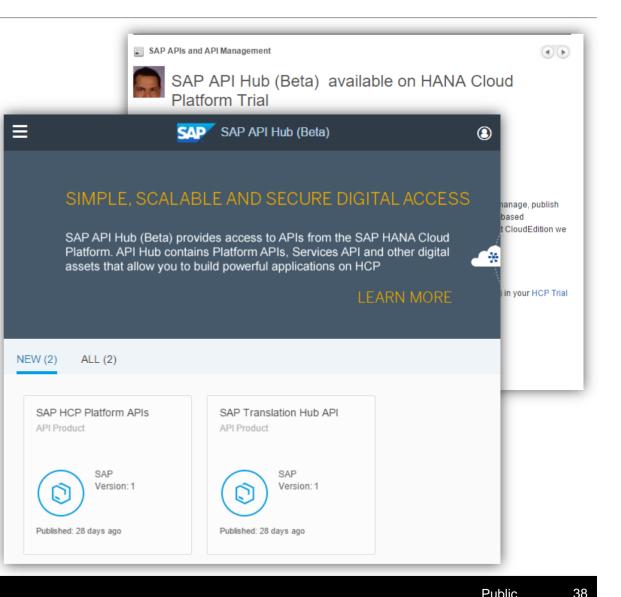


### Performance and composition analysis



### **SAP API Hub**

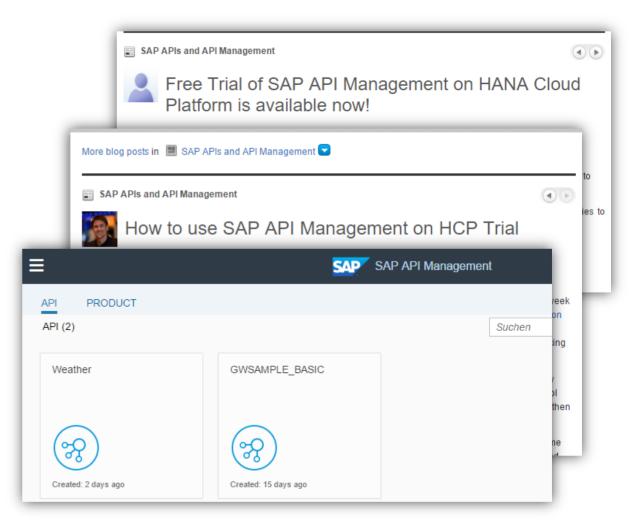
- Goal: Building one central place where all of SAP APIs (first from HCP) can be discovered, documented and tested
- 16 products so far with 85 associated APIs
- api.sap.com
- http://scn.sap.com/community/apimanagement/blog/2016/01/22/sap-api-hubbeta-available-on-hana-cloud-platform-trial



## **SAP API Management | Trial**

### Get started with SAP API Management on HCP Trial

- Register and enable SAP API Management via HCP Trial account (http://hcp.sap.com)
- Connect public and own services via fully functional SAP API Management
- Helpful SCN Blogs:
  - Free Trial of SAP API Management on HANA Cloud Platform - <u>http://bit.ly/SAPAPIMTrial</u>
  - How to use SAP API Management on HCP Trial



## **SAP API Management social media channels**



SAP Web site:



SAP API Management:

You Tube

SAP technology:



SAP Cloud: SAP developers:



SAP Cloud: SAP developers: http://hcp.sap.com/capabilities/api-management.html

http://scn.sap.com/community/api-management

http://spr.ly/youtube-sap-api-management

https://twitter.com/SAPCloud https://twitter.com/sapdevs

https://www.facebook.com/SAPCloudSolutions https://www.facebook.com/sapdevelopers



SAP developers:

https://www.linkedin.com/company/sap-developers



sapapimanagementinfo@sap.com | sapapihubtinfo@sap.com



# Thank you

Contact information:

Chris Aron Director, Global Go-to-Market HANA Cloud Platform Chris.Aron@SAP.com

41

## © 2017 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <a href="http://global12.sap.com/corporate-en/legal/copyright/index.epx">http://global12.sap.com/corporate-en/legal/copyright/index.epx</a> for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.