



# Business Transformation for Industries with SAP BTP: Public Sector

Chris Atkins, Vice President for Digital Government Transformation, SAP Public Sector

Abhijit Umbarkar, CEO, The Solutions Company (TSC)

Shresth Sethi, Analytics Lead, The Solutions Company (TSC)

Farooq Azam, Principal Data Scientist, SAP BTP Global Center of Excellence

# Overall Agenda

- **BTP for Public Sector: Overview (Chris Atkins)**
- **Demo of a Public Sector BTP Industry Cloud Solution (Abhijit Umbarkar and Shresth Sethi)**
- **What's New for BTP in 2023? (Farooq Azam)**





# Data Driven Government

## Leveraging SAP's Business Technology Platform to Fulfill the Promise of Digital Government Transformation

Chris Atkins, Global BTP Lead, SAP Public Sector

# Agenda

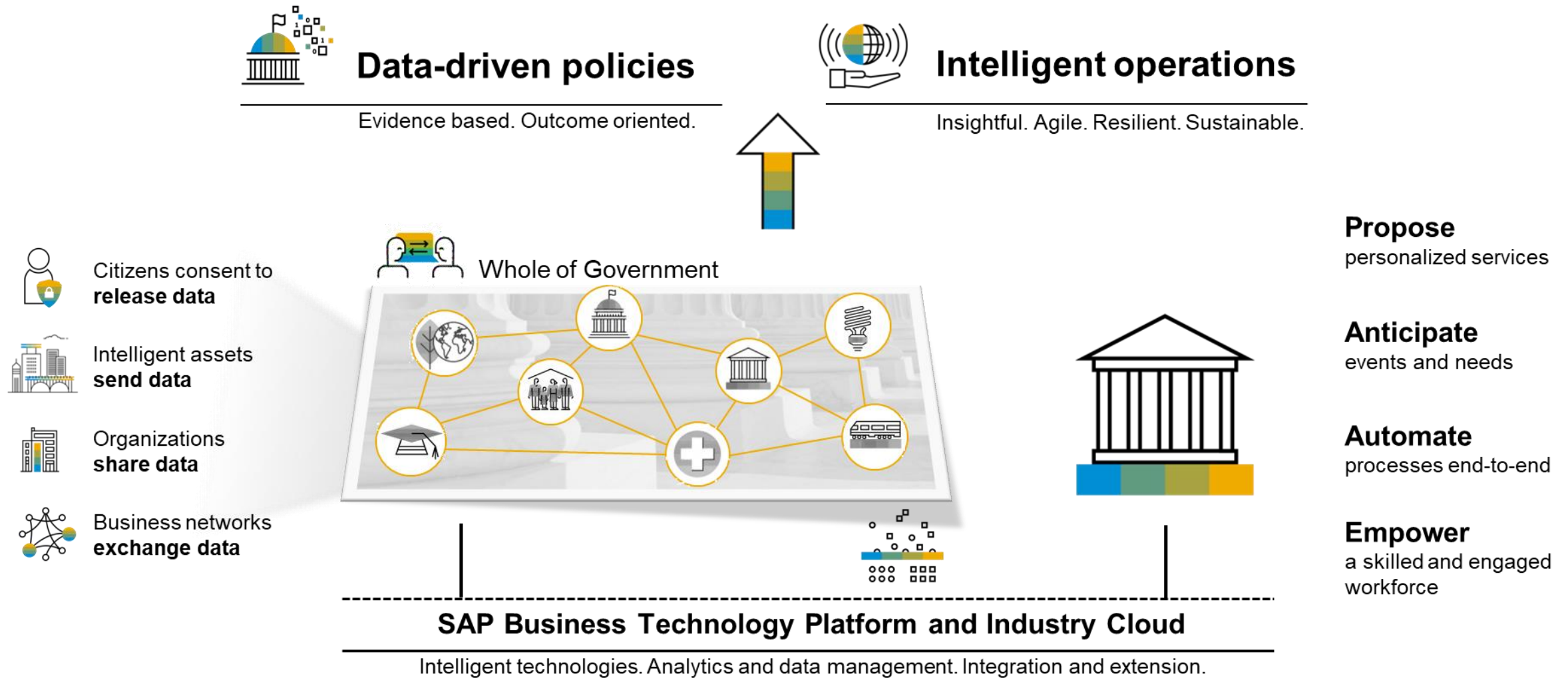
- **Digital Government Transformation Challenges in Government**
- **Digital Government Transformation with SAP**
- **SAP's Business Technology Platform: The Engine for Data-Driven Government**

# **Digital Transformation** Challenges in Government

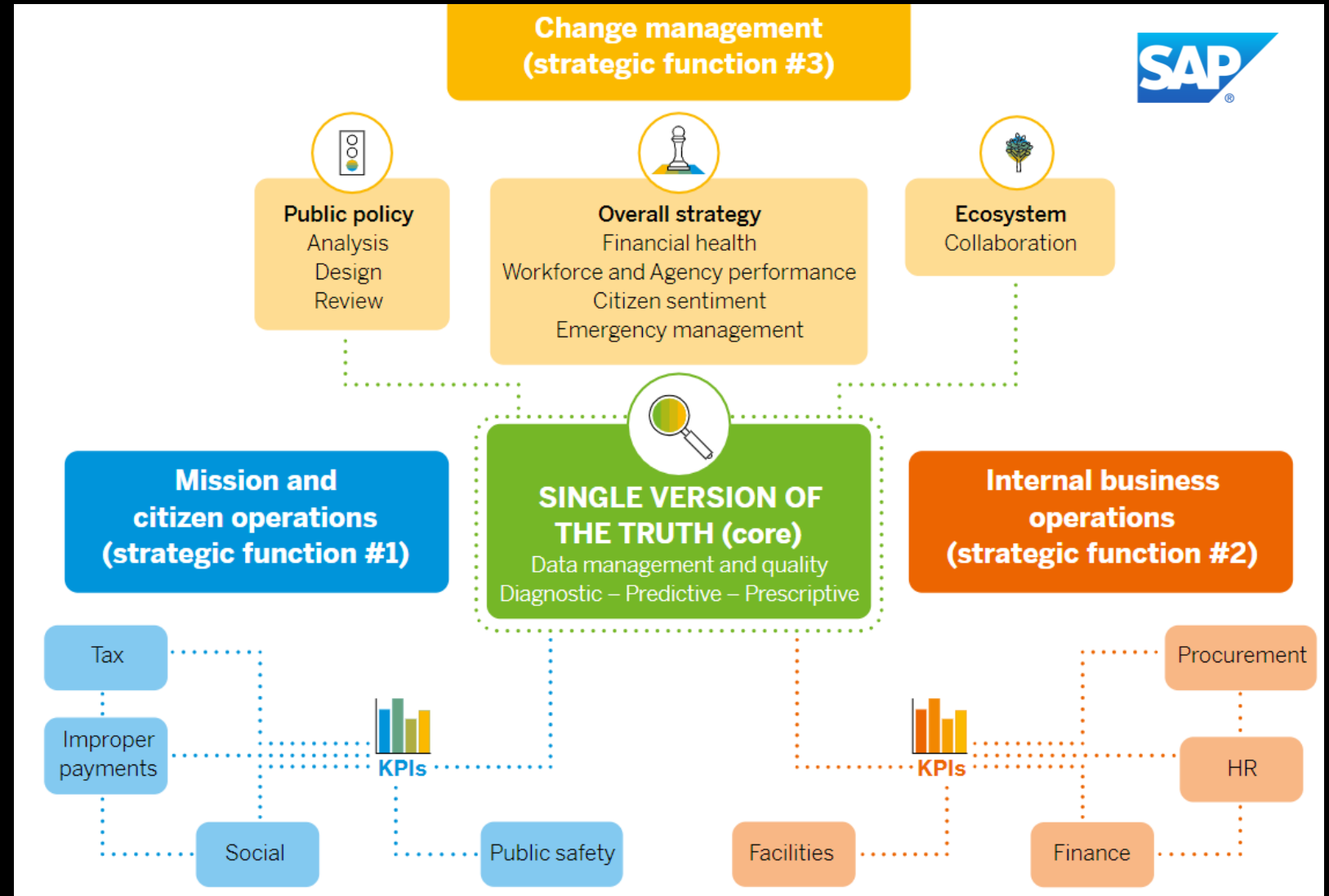




# Our ambition | **The intelligent, resilient and sustainable government**



# Using Data to Drive Better Decisions and Action: SAP's Data Driven Government Framework

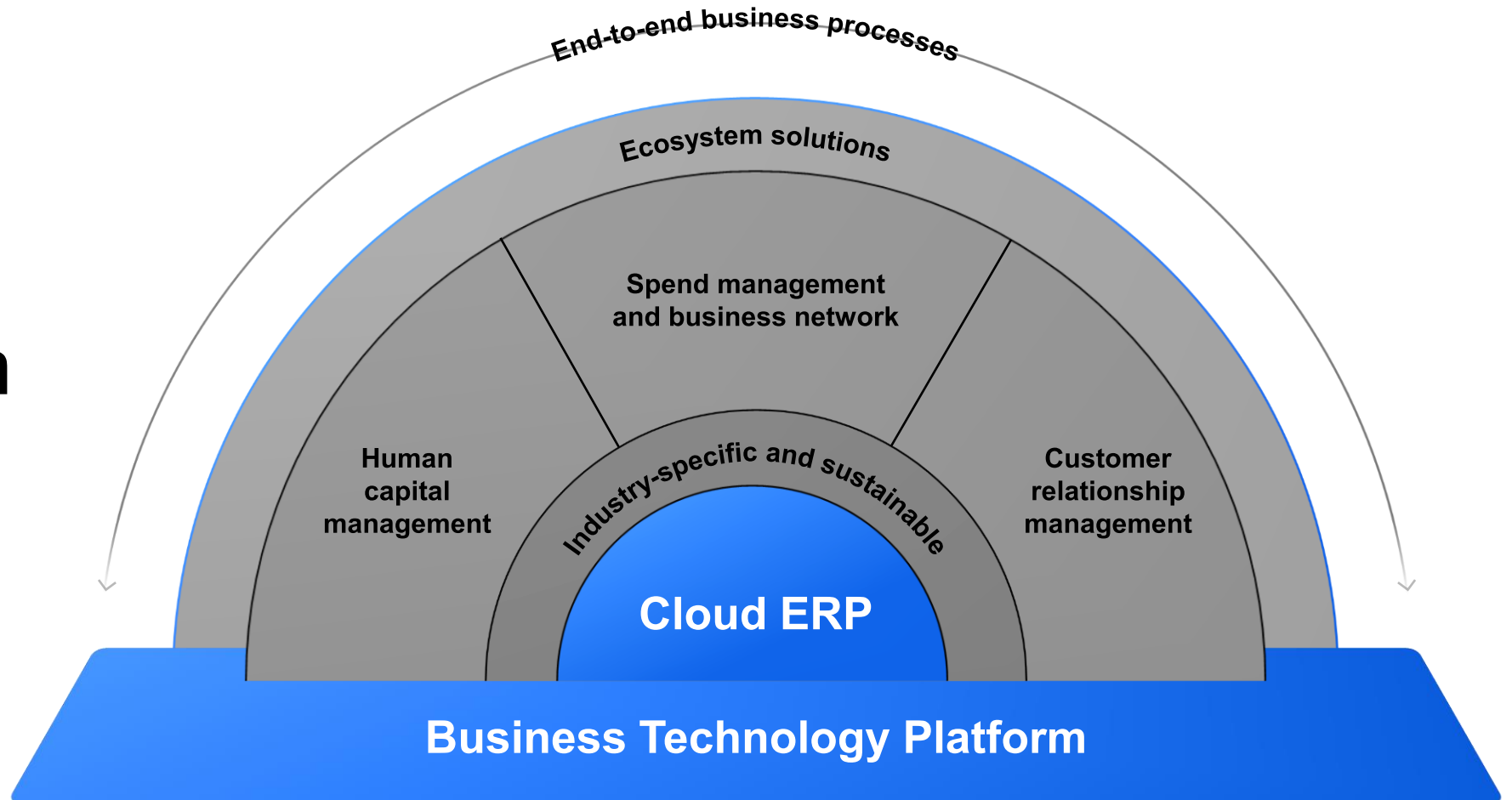


# Digital Transformation with SAP





Enable every  
enterprise  
to become an  
**intelligent,  
sustainable  
enterprise**



**Build, manage, and deploy apps.**  
**Connect data and business processes.**  
**On a single, open, business-centric platform.**

SAP BUSINESS TECHNOLOGY PLATFORM



**Database and Data Management**



- Run data anywhere
- Reduce data redundancy
- Connect and understand data
- Govern master data



**Analytics**



- Streamline analytics processes
- Embed BI and predictive planning
- Turn insights into action
- Visualize your decisions



**Application Development and Integration**



- Connect apps, data, and processes
- Simplify application development
- Expand with an open ecosystem
- Build new ways to access and interact with your data



**Intelligent Technologies**



- Access AI, data-driven cloud apps
- Embed intelligence into processes
- Drive end-to-end innovation
- Scale your platform

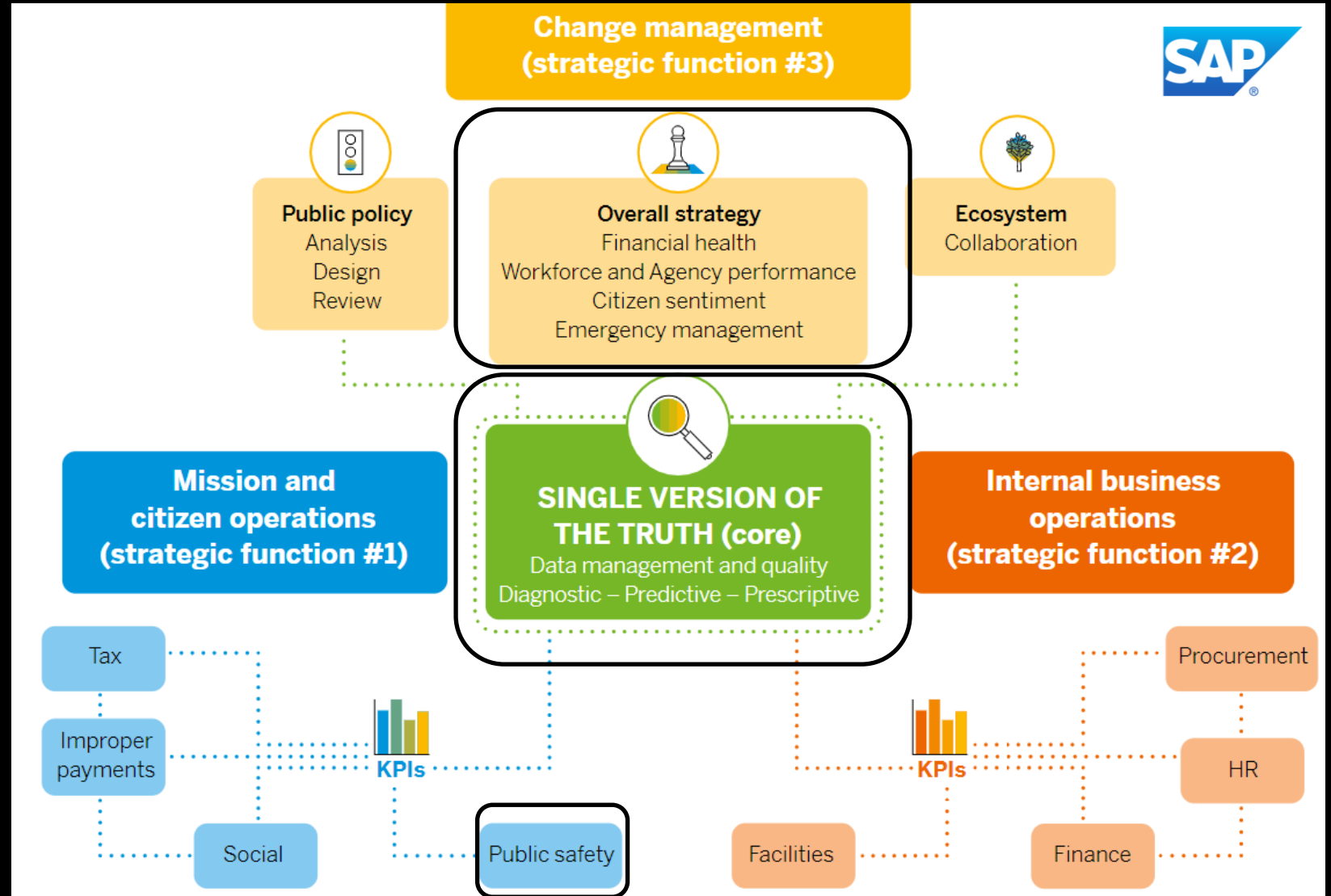
# Public Sector Data Management Success: **Brigada Carcarae**

New for 2023!



## USE CASES

- [Intelligent Firefighting to Protect Flora and Fauna](#) (click link for SAP Innovation Award entry deck)



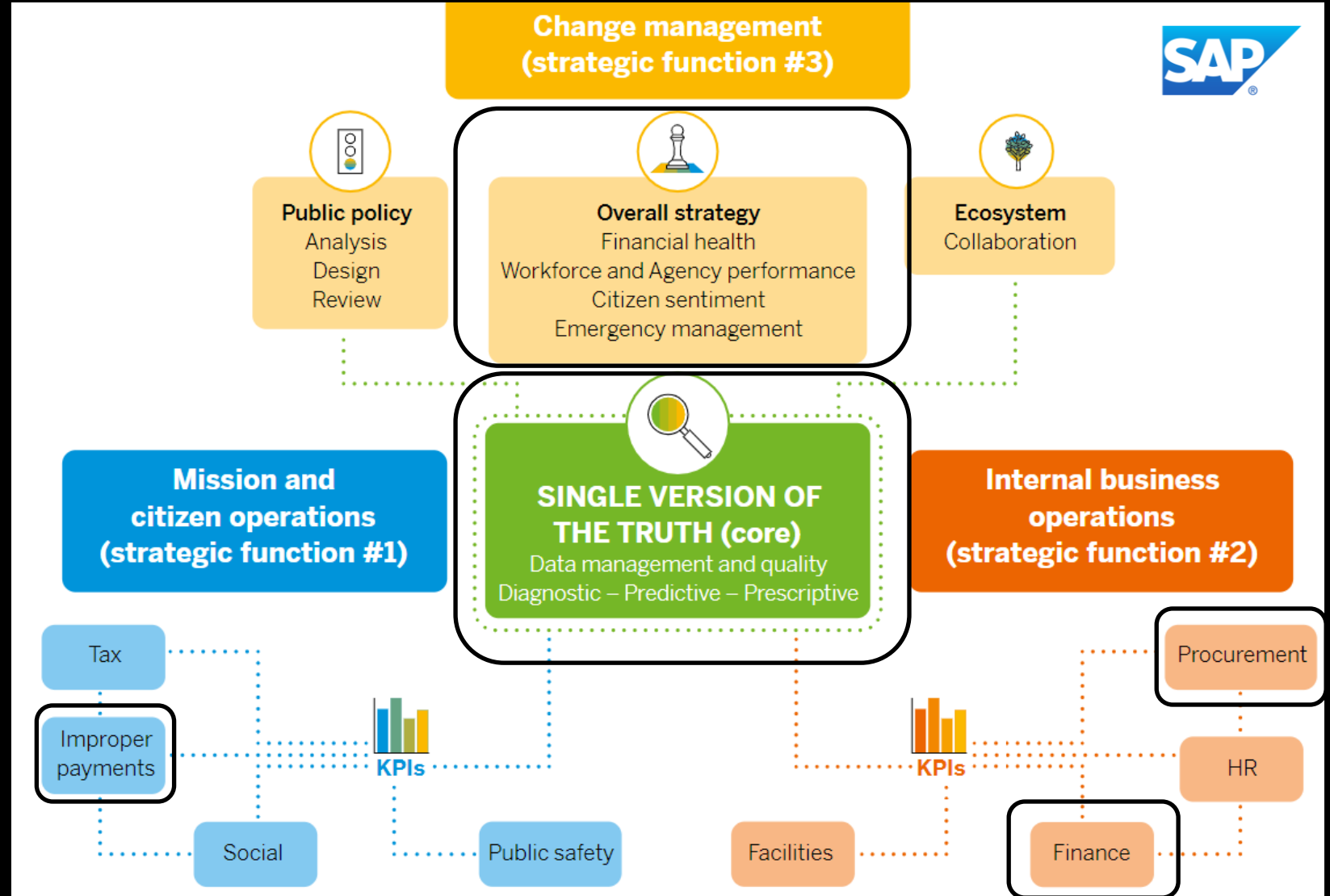


# Public Sector Data Management Success: Commonwealth of Pennsylvania



## USE CASES

- [Public Spend and Audit Risk Management](#) (click link for SAP Innovation Award entry deck)



# “Dashboards Are Not Enough”

SAP Analytics Cloud is the analytics platform for data-driven government



Business Intelligence



Enterprise Planning



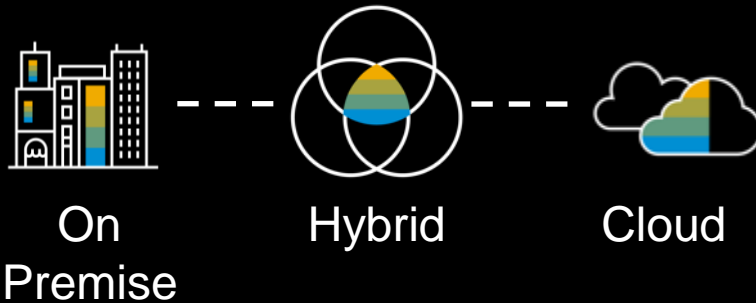
Augmented Analytics

Digital Boardroom

Analytics Hub

Analytics Designer

Mobile

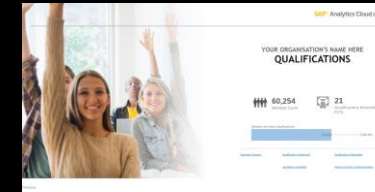


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Public Sector Analytics Content Available



1. [Volunteer Workforce Management](#)
2. [Public Sector Management: KPI Reporting](#)
3. [Public Sector Management: Planning](#)
4. [Smart Budgeting & Forecasting \(Partner: Sierra Digital\)](#)
5. [Spend & Audit Risk Management \(Partner: The Solutions Company\)](#)

# Public Sector Analytics Success: Ministry of Finance (Serbia)

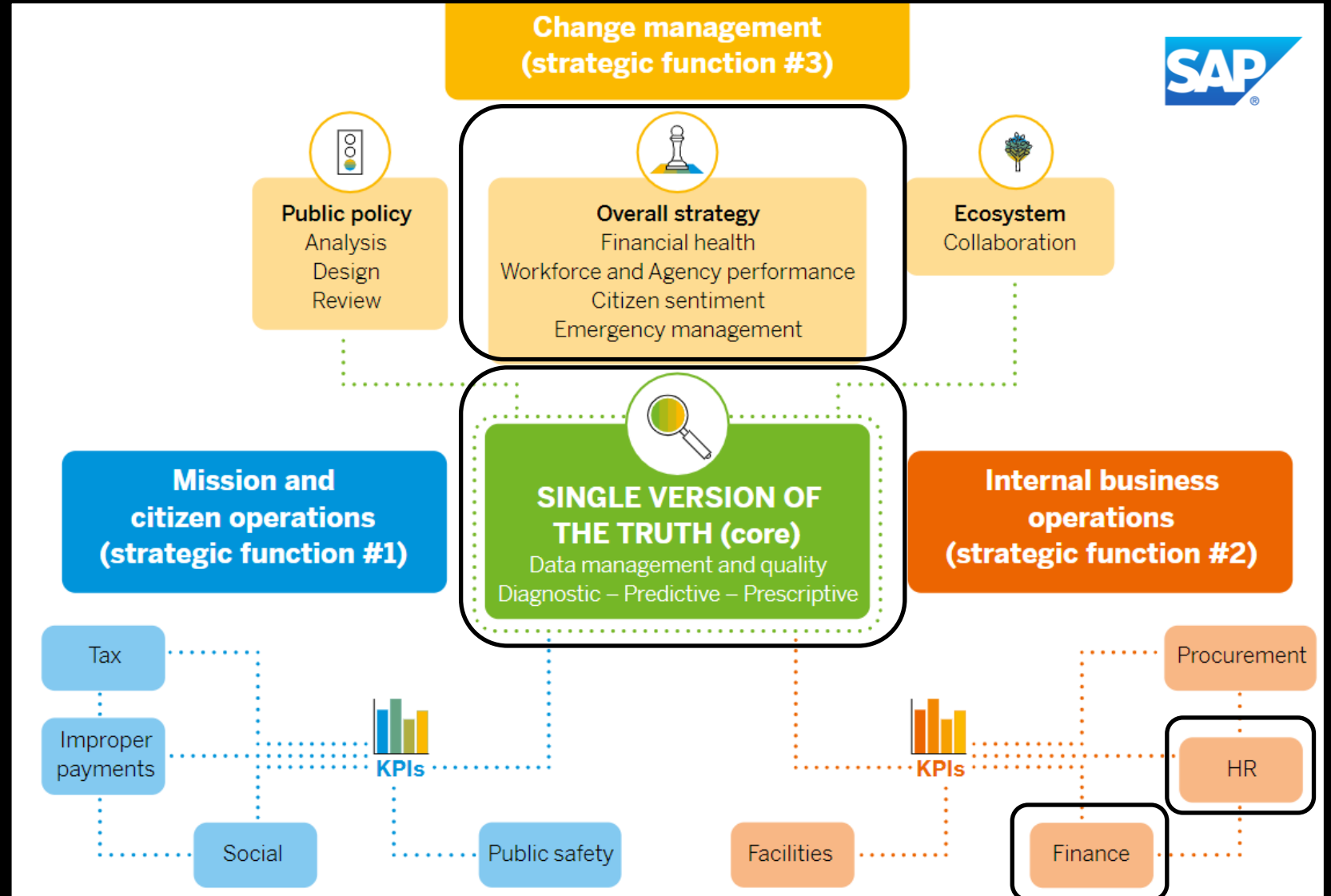
New for 2023!



REPUBLIC OF SERBIA  
MINISTRY OF FINANCE

## USE CASES

- Government-wide Cloud-based Workforce Expenditure Planning and Budgeting (click link for Innovation Award entry deck)





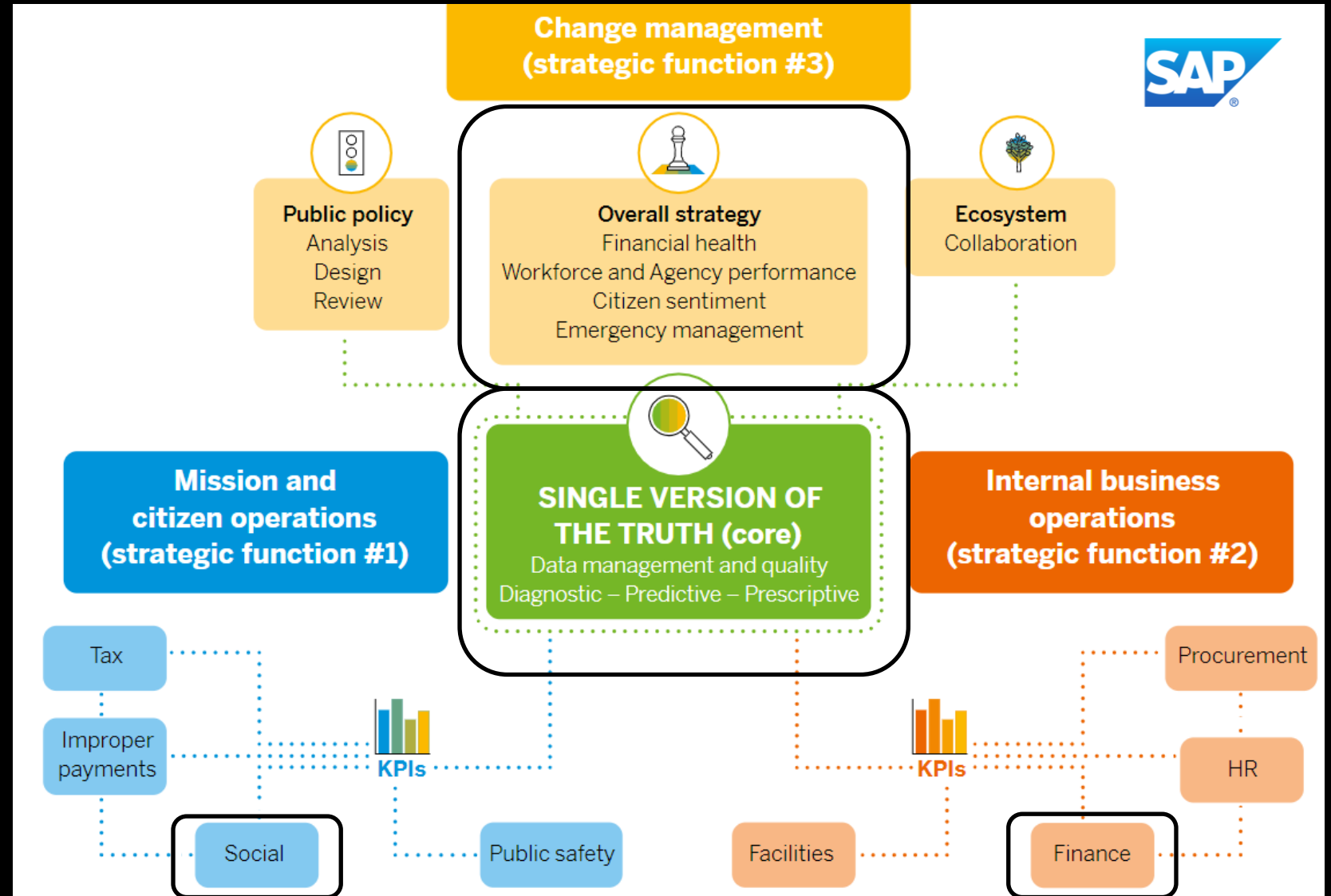
# Public Sector App Dev & Extension Success: Christchurch City Council

New for 2023!



## USE CASES

- [A Journey of Transformation and Citizen Engagement](#) (click link SAP Innovation Award entry deck)

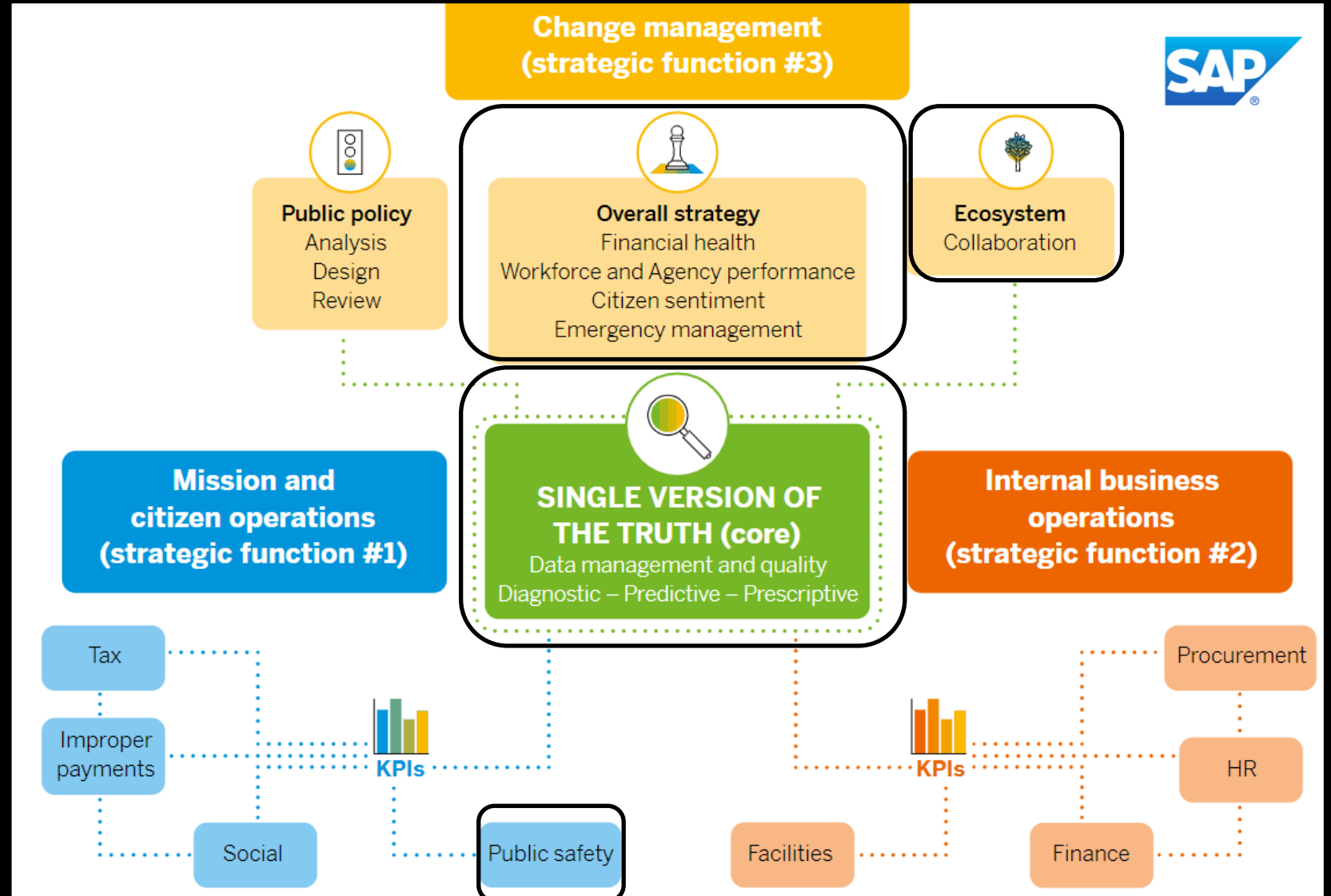


# Data Ecosystem Success: Costain (UK)

New for 2023!

## USE CASES

- [Accelerating Net Zero UK Infrastructure through SAP's Business Technology Platform](#) (click link for SAP Innovation Award Entry)



# SAP's **Business Technology Platform:** The Engine for Data-Driven Government





# The Business Technology Platform is a standard part of **RISE with SAP**

## WHAT is RISE with SAP

RISE with SAP is a holistic offering that enables on-your-terms and on-your-timeline transformation to an intelligent enterprise.

Complexity is significantly reduced through:

- A simplified business transformation engagement
- A guided journey through your business transformation
- Faster time to premier value
- Flexibility that you need without a high up-front investment

## WHAT are the components of RISE with SAP

- 1 SAP S/4 HANA Cloud
- 2 Business Process Intelligence
- 3 Technology Cloud Credits
- 4 SAP Business Network Starter Pack
- 5 Embedded Tools and Services

## WHY RISE with SAP

Address the multi-faceted challenges that prohibit the ability of Public Sector Organizations to fully unlock the value of the Intelligent Enterprise

## OUTCOMES Enabled by RISE with SAP

A

### Enable Value Creation with Differentiating Business Capabilities

Industry best and next practices that create new revenue streams and maximize existing ones, improve assets efficiency, enhance productivity and allow for running sustainably

B

### Mitigate Risk, Reduce IT Cost and Accelerate Time to Value with Cloud Delivery Capabilities

Capabilities that maximize transformation readiness, simplify consumption through “as-a-service experience”, ensure operational resilience, reduce overall TCO and deliver the required level of information and data security

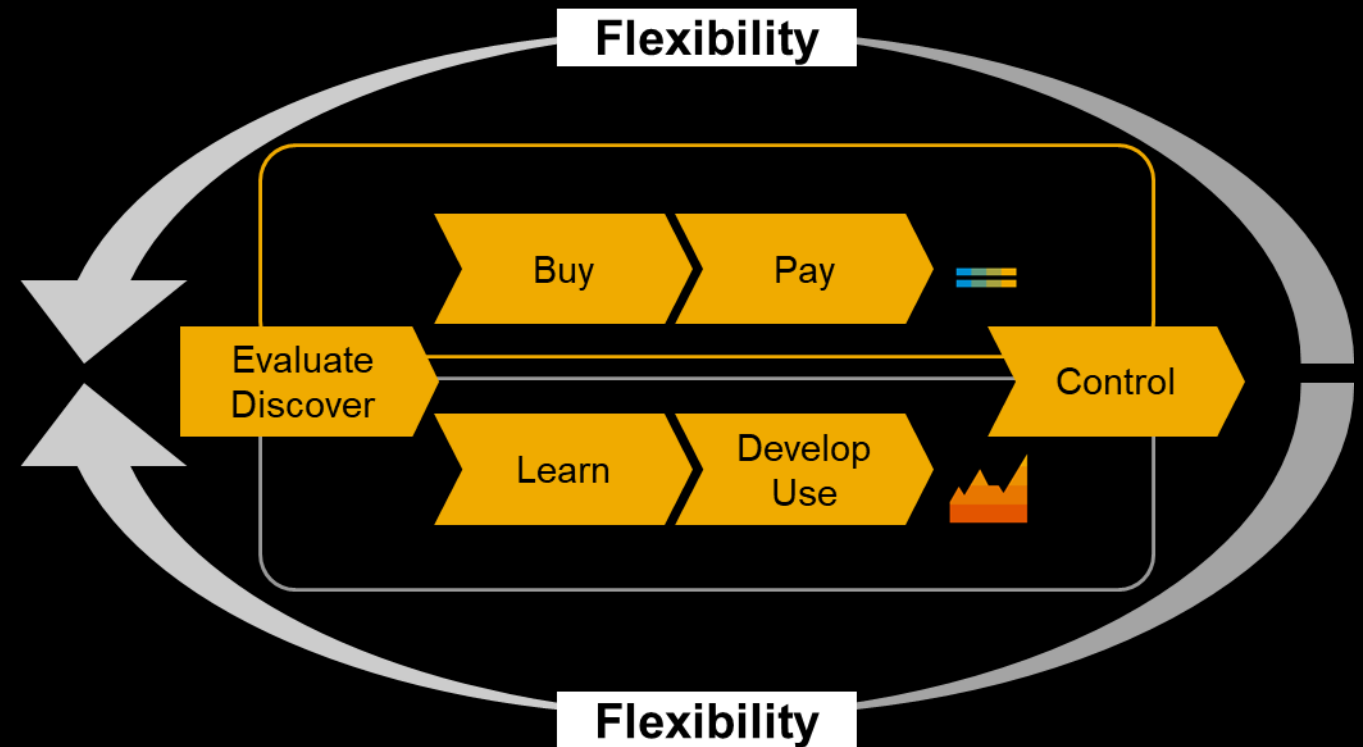
# Digital Government Transformation Has **Flexible Pricing** Through The Cloud Platform Enterprise Agreement (CPEA)

## CPEA



Configure and scale cloud services with agility by accessing eligible services instantly.

- With a Cloud Platform Enterprise Agreement (CPEA) in place, procure and use cloud credits for eligible services
- Prepay consumption of services with cloud credits
- Pay in advance when cloud credits are used up
- Add credits to your account multiple times during consumption period
- Use estimator tool



# SAP BTP – Cloud Services Available Under CPEA<sup>1</sup>/PAYGO<sup>2</sup>

Q3/2022 – See also [Service Catalog](#) (Please Find More Information of Removed Services There)

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- |   |  |   |   |   |
|---|--|---|---|---|
| <ul style="list-style-type: none"><li>• ABAP Environment</li><li>• Advanced Event Mesh (NEW)</li><li>• Agent Activation for Dynatrace</li><li>• Agency</li><li>• Alert Notification</li><li>• Application Autoscaler</li><li>• Application Logging</li><li>• Audit Log Service</li><li>• Authorization and Trust Management</li><li>• Automation Pilot</li><li>• Bandwidth</li><li>• Business Application Studio</li><li>• Business Entity Recognition</li><li>• Cloud Foundry Runtime</li><li>• Cloud Integration Automation</li><li>• Cloud Integration for Data Services</li><li>• Cloud Management Service</li><li>• Cloud Portal Service</li><li>• Cloud Transport Management</li><li>• Connectivity Service</li><li>• Content Agent Service</li></ul> | <ul style="list-style-type: none"><li>• Continuous Int. and Delivery</li><li>• Conversational AI</li><li>• Credential Store</li><li>• Custom Domain</li><li>• Data Attribute Recommendation</li><li>• Data Privacy Integration</li><li>• Data Quality Services</li><li>• Date and Time (BETA)</li><li>• Destination</li><li>• Data Retention Manager</li><li>• Document Classification Service</li><li>• Document Information Extraction</li><li>• Document Management, Appl, Option</li><li>• Document Management, Int., Option</li><li>• Event Mesh</li><li>• Feature Flag Service</li><li>• Forms Service By Adobe</li><li>• HTML5 Appl. Repository Service</li><li>• IBAN Service (BETA)</li><li>• Identity Authentication</li><li>• Identity Provisioning</li></ul> | <ul style="list-style-type: none"><li>• Integration Suite</li><li>• Intelligent Intercompany Reconciliation (NEW)</li><li>• Intelligent Situation Automation (NEW)</li><li>• Job Scheduler</li><li>• Keystore</li><li>• Kyma Runtime</li><li>• Launchpad Service</li><li>• Market Rates, Bring Your Own Rates</li><li>• Market Rates, Refinitiv</li><li>• Master Data Integration</li><li>• Mobile Services</li><li>• Monitoring</li><li>• OAuth 2.0</li><li>• Object Store Service</li><li>• Personal Data Manager</li><li>• Personalized Recommendation (NEW)</li></ul> | <ul style="list-style-type: none"><li>• PostgreSQL, hyperscaler option</li><li>• Print Service</li><li>• Private Link Service (NEW)</li><li>• Process Automation (NEW)</li><li>• Redis on SAP BTP, hyperscaler option</li><li>• Responsibility Management</li><li>• SaaS Provisioning Service</li><li>• SAP AI Core (NEW)</li><li>• SAP AI Launchpad (NEW)</li><li>• SAP Analytics Cloud, embedded Edition</li><li>• SAP AppGyver (NEW)</li><li>• SAP ASE Service</li><li>• SAP Cloud ALM, memory extension</li><li>• SAP Data Intelligence</li><li>• SAP Data Retention Manager</li><li>• SAP Data Warehouse Cloud (NEW)</li><li>• SAP Graph</li></ul> | <ul style="list-style-type: none"><li>• SAP HANA Cloud</li><li>• SAP HANA Service</li><li>• SAP HANA Spatial Service</li><li>• SAP Intelligent RPA</li><li>• SAP IoT (R)</li><li>• SAP Solution Lifecycle Management service</li><li>• SAP Task Center (NEW)</li><li>• SAP Translation Hub</li><li>• SAP Work Zone</li><li>• Service Manager</li><li>• Service Ticket Intelligence</li><li>• UI Flexibility Key Users</li><li>• Usage Data Management</li><li>• Web IDE Full-Stack</li><li>• Work Calendar (BETA)</li><li>• Workflow Management</li></ul> |
|---|--|---|---|---|

(R) = scheduled to be retired as of January 31, 2023

1: see definition [Commercial Models](#)

2: Like CPEA, but w/o a pre-commitment



# Resources

**Chris Atkins**  
**Vice President – Digital Government  
Transformation**  
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[chris.atkins@sap.com](mailto:chris.atkins@sap.com)

## **SAP's Data-Driven Government Point of View**

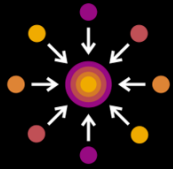
<https://assets.cdn.sap.com/sapcom/docs/2020/05/b007ab0c-9a7d-0010-87a3-c30de2ffd8ff.pdf>



**The Solution:**  
**Public Spend and Audit Risk Management**

# Business Challenges

## Spend Analytics



Missing tools to turn Data into Information & Insight to Action



Fragmented data leading to low transparency & confidence with no single version of truth



Lack of full visibility of the Spend, trends, patterns and allocations



Inefficient and time-consuming reporting leading to delays in key decision making

## Audit Risk Management



High volume of complex transactions makes the current manual process inefficient and unscalable and reactive



No early anomaly detection or outlier analysis available



No data driven guidance and global view to focus on audit efforts



Reduced audit staff and higher cost of contracted audit services

# Business Benefit – Spend Analytics

## Data to Insights – Understand What Drives Your Enterprise Spend

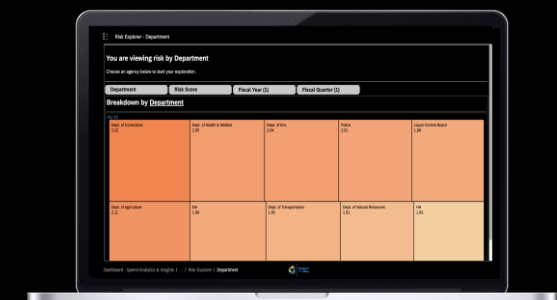
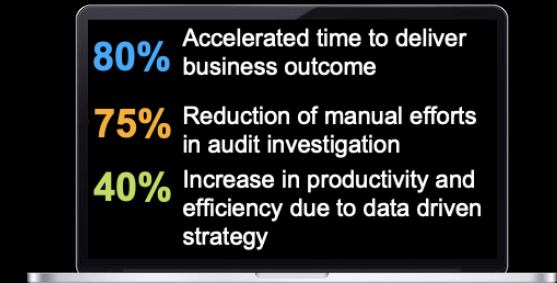
- **Deliver Enterprise-wide Spend analytics** leveraging Public Sector Industry KPIs and visualize interesting patterns in your data. Explain anything with a few clicks
- **Forecasting** capabilities to predict upcoming spend for different KPI's e.g., future department spend, vendor spend, etc.
- **Detect influencing factors** and Discover the anomalies, patterns and trends for Expenses and Vendors and take corrective actions
- **Analyze geospatial** spending patterns to identify the grants and contract spend by zip codes
- **Real-time Ad-hoc Self-service** reporting capabilities allowing analysts to drive the root cause of the issues



# Business Benefit – Audit Risk Management

Application to guard enterprise integrity, mitigate risk of fraud and noncompliance

- **Trend Analysis** – Identifying unusual transaction amounts using trends and patterns in which they typically appear for a particular account or vendor.
- **Outlier anomaly detection in transactions and enhanced protection** -Detection capabilities to help identify anomalous transactions early and take necessary action to prevent financial losses and suspicious activities
- **Efficient Screening** – Predictive methods to optimize risk analysis and prevent future recurrences with less effort & cost and improved productivity
- **Accuracy** – Use of machine learning models to help auditors with detailed investigation by minimizing false positive scenarios which enables increased accuracy of detection leading to proactive audits.
- **Seamless Integration** – Harness in-memory computing using SAP HANA and seamlessly integrate with SAP applications





# Business Benefit – PCard Analytics

Application to analyze Fraud transactions, Split Payments, Blocked MCC Codes, and Non-compliant transactions

- **Transactions Overview** – Overview of PCard transactions over time, department, and account holders
- **Features Overview** - Identifying transactions made on E-commerce, Airlines, Lodging, International, overview and trend over time with amount and number of transactions
- **Usage Patterns** – Detection of transactions that are compliant or non-compliant to enterprise policies e.g., exceeding credit limit, >10k transactions, etc.
- **Unusual Transactions and Spend patterns** – transactions made by Inactive, Terminated, Voluntarily closed, or Lost/Stolen cards over the years
- **Fraud Detection** – predictive methods to identify fraudulent cards and future usage, analysis on trends and patterns for these cards
- API integration capabilities for combining Non-SAP data with SAP data using **SAP BTP**



# Business Benefit – Vendor Analytics

Application to analyze payments to One Time Vendors, payments to Vendors with frequent changes of payment method and address, and Vendor spend patterns

- **Vendor Spend Overview** – Overview of vendor transactions over time, spend categories, and expenses. Key KPI's for most used vendors or one-time vendors by each department
- **Outlier Analysis** over a time period for all vendors across expense types and departments
- **Non – Compliant OTV** – Identify all OTV's where the business defined purchase limit is exceeded for an individual transaction
- **Detection of changes to the details of vendors e.g., payment details/ address changes, etc.** and identifying vendor change trends/patterns and outlier vendors over the years
- **Promptly identify High-risk vendors using international vendor data**





# Demo

One. **Simple. Standardized. Out of Box.** Cloud & On-Prem.

Built on  
**SAP Business  
Technology Platform**




Integrates with  
**SAP Analytics Cloud**  
**SAP Datasphere**  
**SAP Data Intelligence**  
**SAP Integration Suite**


Runs on SAP  
**HANA**  
**ERP / S/4 / HANA**  
**Cloud**







# SPEND & AUDIT RISK MANAGEMENT AVAILABLE AT SAP STORE


Link: [SAP App Store - TSC Application](#)

 **Store**

 Browse

    EN






When you buy this solution, you will make an impact in your business and beyond. For each purchase made on SAP Store, we will plant a tree on your behalf.



**Spend and Audit Risk Management**  
by TSC - The Solutions Company

[At a Glance](#) [Features](#) [Pricing](#) [Technical Information](#) [Resources](#) [Reviews](#) [Publisher](#)


## Get Intelligent Insights into Global Spend and Effectively Manage Audit Risk



(0) Write a review




Out of the box solution that integrates with SAP HANA or SAP S/4HANA, SAP Data Intelligence and SAP Analytics Cloud to gain visibility of total spend across the enterprise and transform the internal audit process to analyze enterprise risk through calculation of quantitative risk scores.




Get It Now







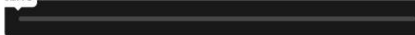

TSC - Spend & Audit Risk Management

Shreshth Sethi





02:13



Solution Types

Extensions and Add-ons

Works With

SAP S/4HANA, Industry Cloud

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30





# **BTP Value Areas** and **what is new** in **SAP BTP**

# Customer Success Across SAP BTP Solutions and Value Areas

## Database Management

**100x**

Reduction in sales query execution time

## Integration Solutions

**66%**

Reduction in administrative work

## Data, Analytics, & Planning

**200%**

Increase in annual production capacity

## Application Development

**80%**

Reduction in new customer onboarding time

## Artificial Intelligence

**46%**

Improvements in accounts receivable productivity

## Sustainability Missions

**>95%**

Use of standard processes with zero core code modifications

## Lower Total Cost of Ownership (TCO)

**66%**

Lower costs in IT infrastructure

## Process Automation

**91%**

Of incoming emails automated

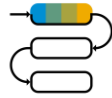
\* Success metrics from SAP customer stories

# SAP Build

Create and augment enterprise apps, automate processes, and design business sites, all visually



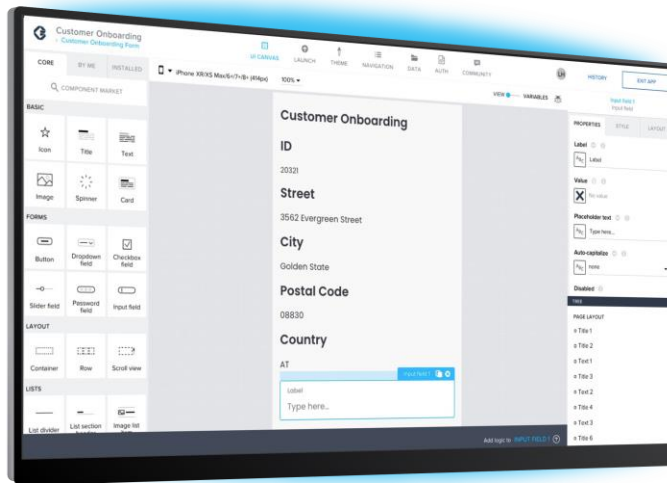
Compose apps



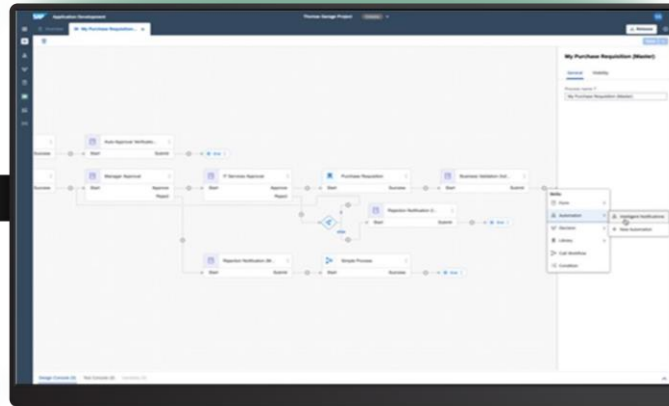
Automate processes



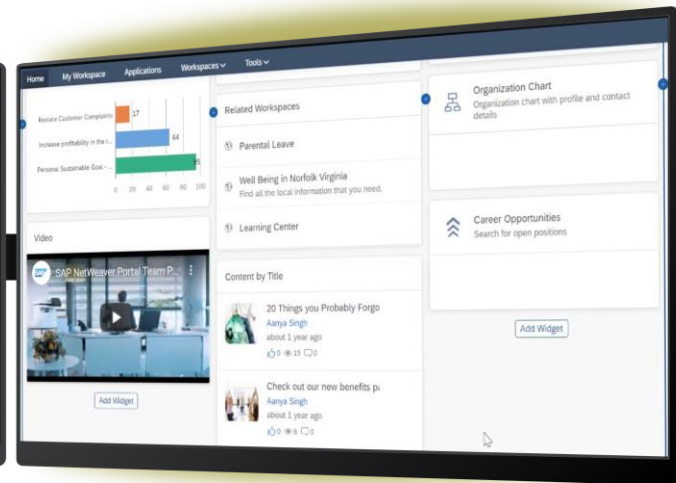
Design business sites



SAP Build Apps



SAP Build Process Automation



SAP Build Work Zone

Build Visually

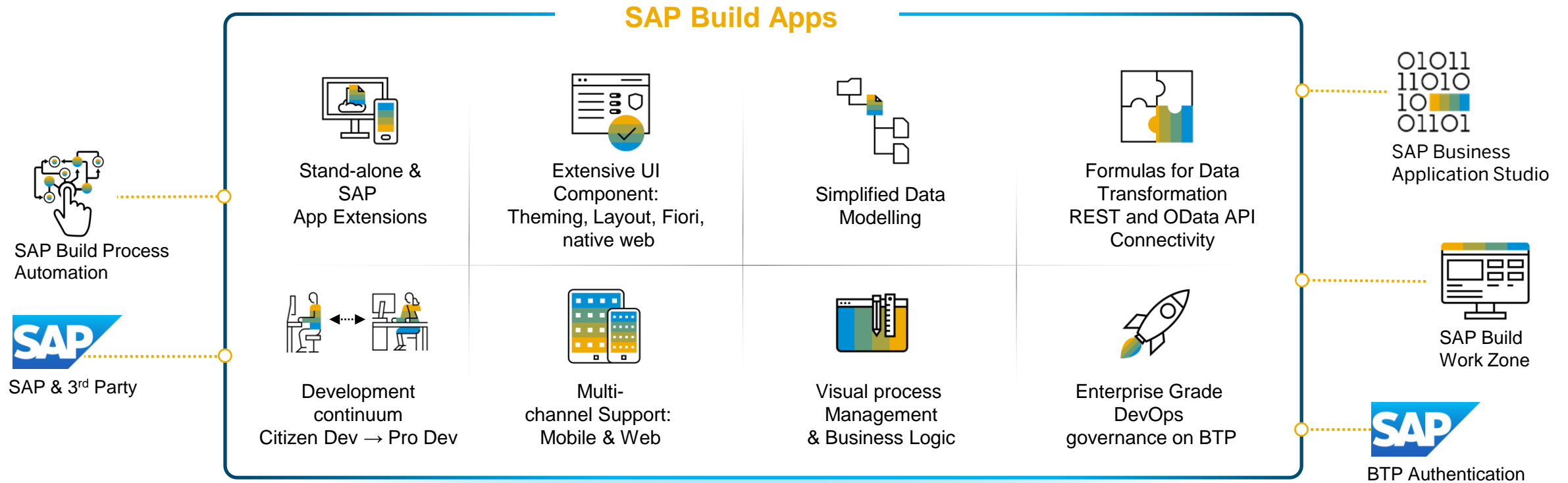
Integrate Seamlessly

Collaborate Securely

SAP Business Technology Platform

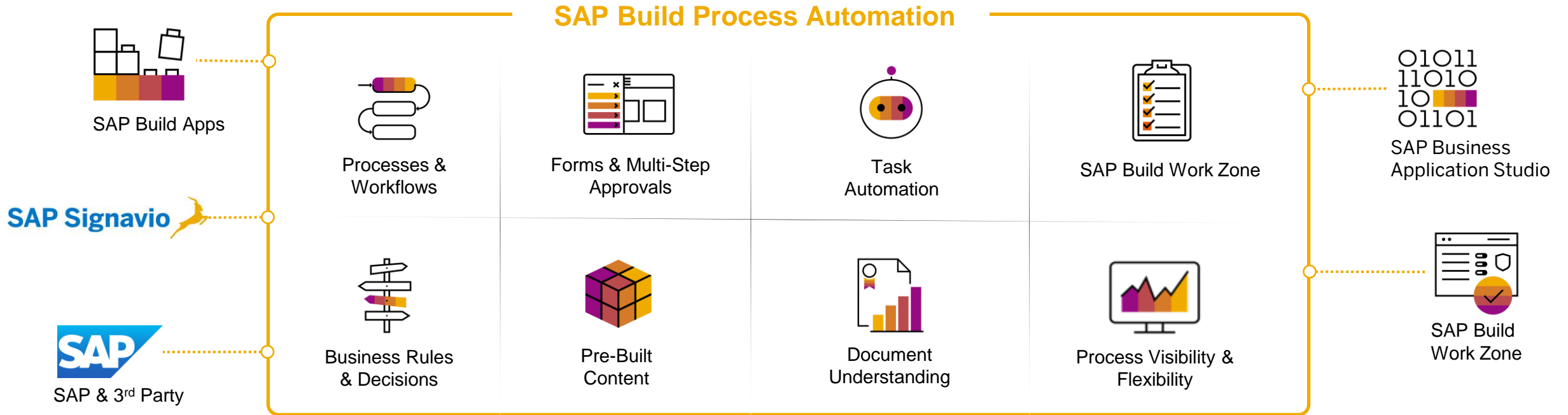
# SAP Build Apps

Build enterprise-grade apps with an intuitive visual drag-and-drop experience, regardless of your skill level



# SAP Build Process Automation

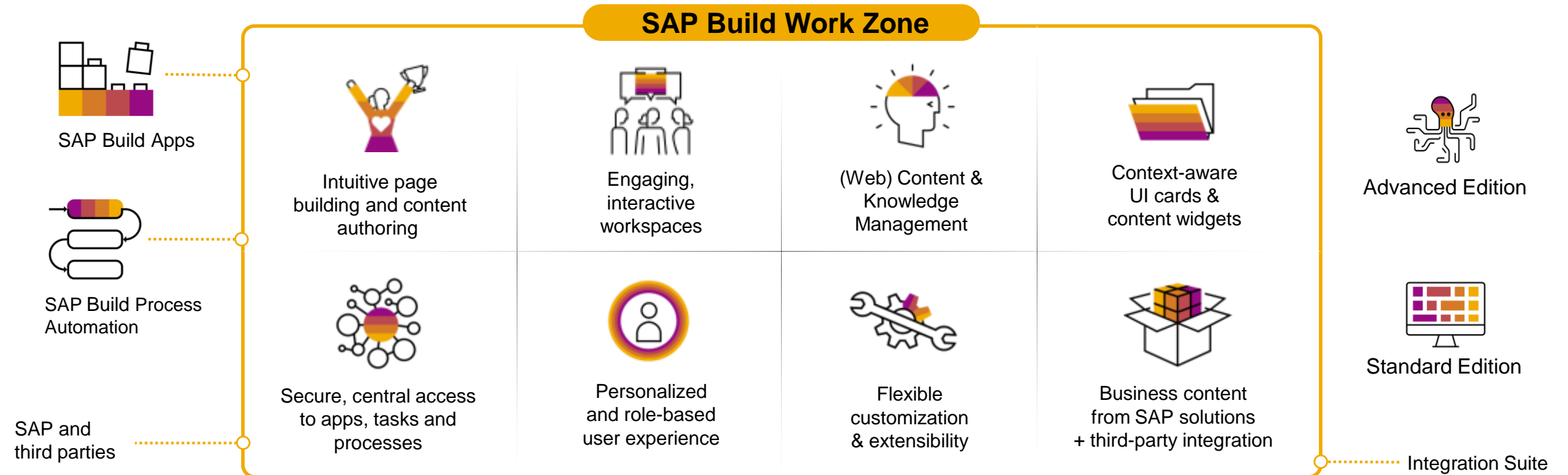
Capabilities: citizen automation and workflows for line-of-business builders





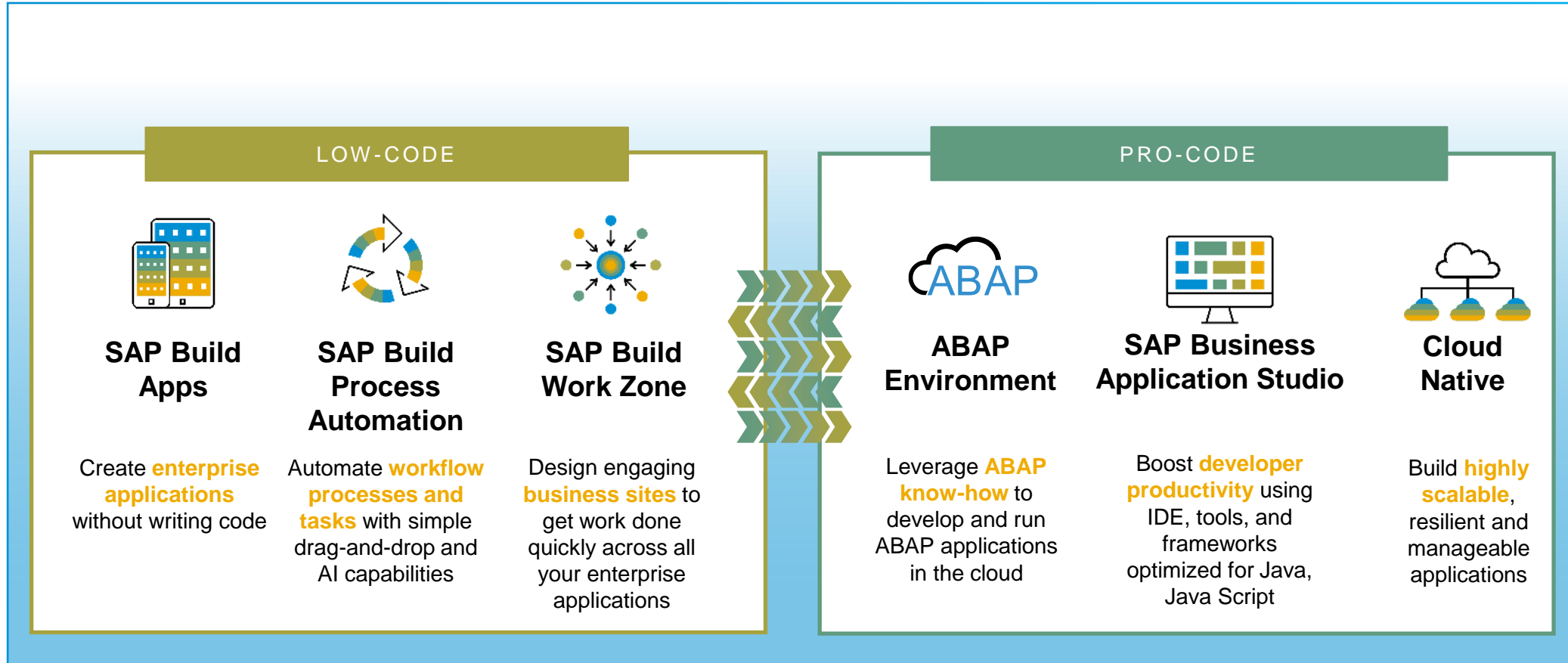
# SAP Build Work Zone

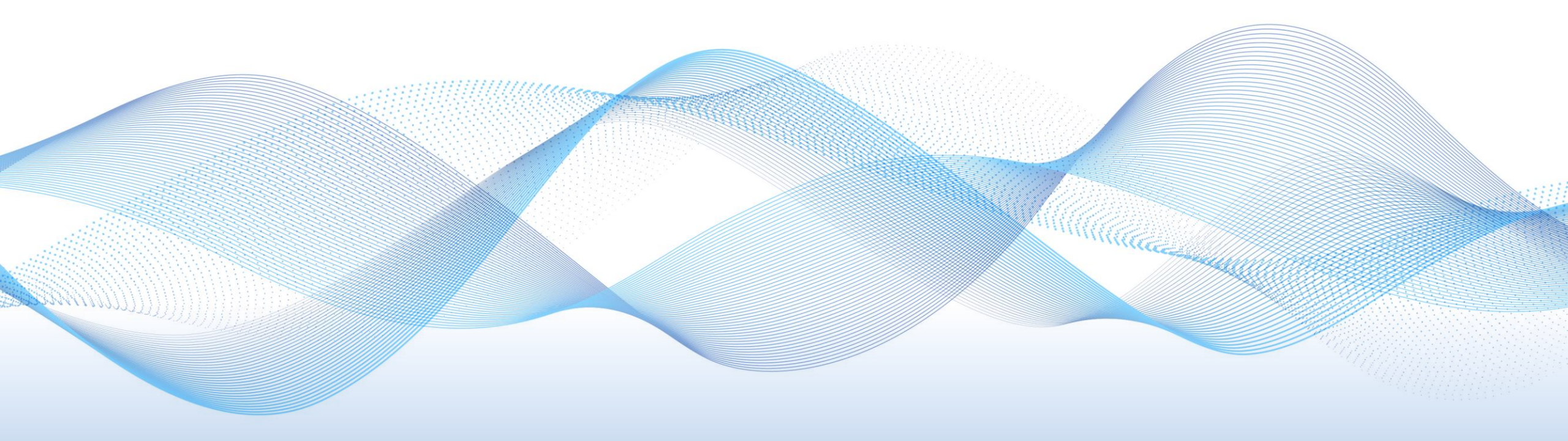
Improving productivity by seamless digital experiences



# For business and professional developer

With low-code and pro-code tools





# SAP Datasphere

Unleash the power of business data



# Data needs context for authoritative decision-making

Innovation has happened in silos

Data, especially metadata, has been removed from its context

There's been a fundamental error—focusing solely on technology rather than the data





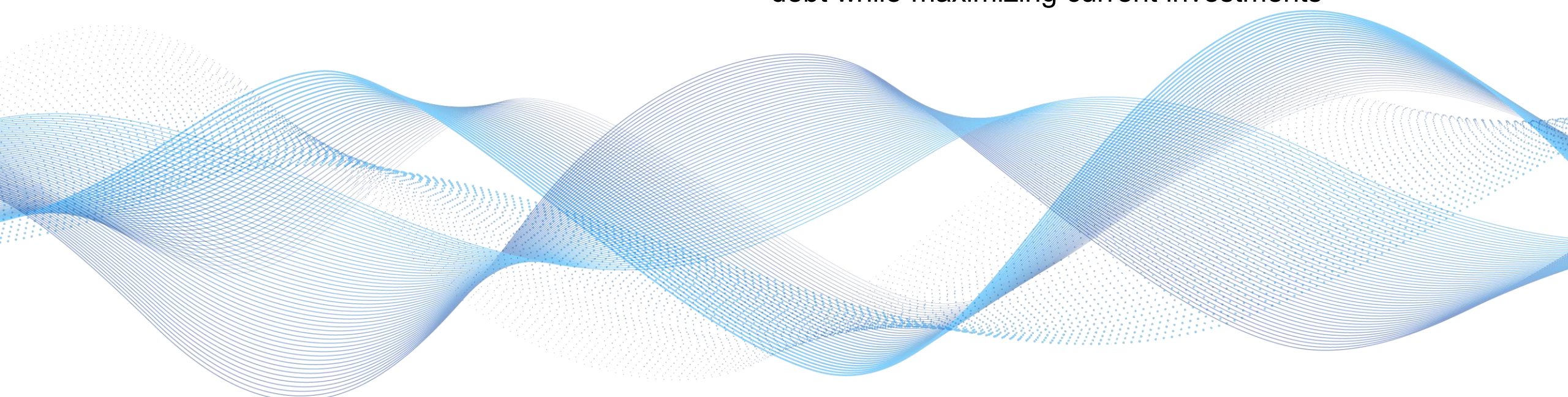
# Why a business data fabric

**Self-service access** to trusted data breeds agility and accelerated, accurate decisions

**Comprehensive data governance** assures every stakeholder that private data stays private

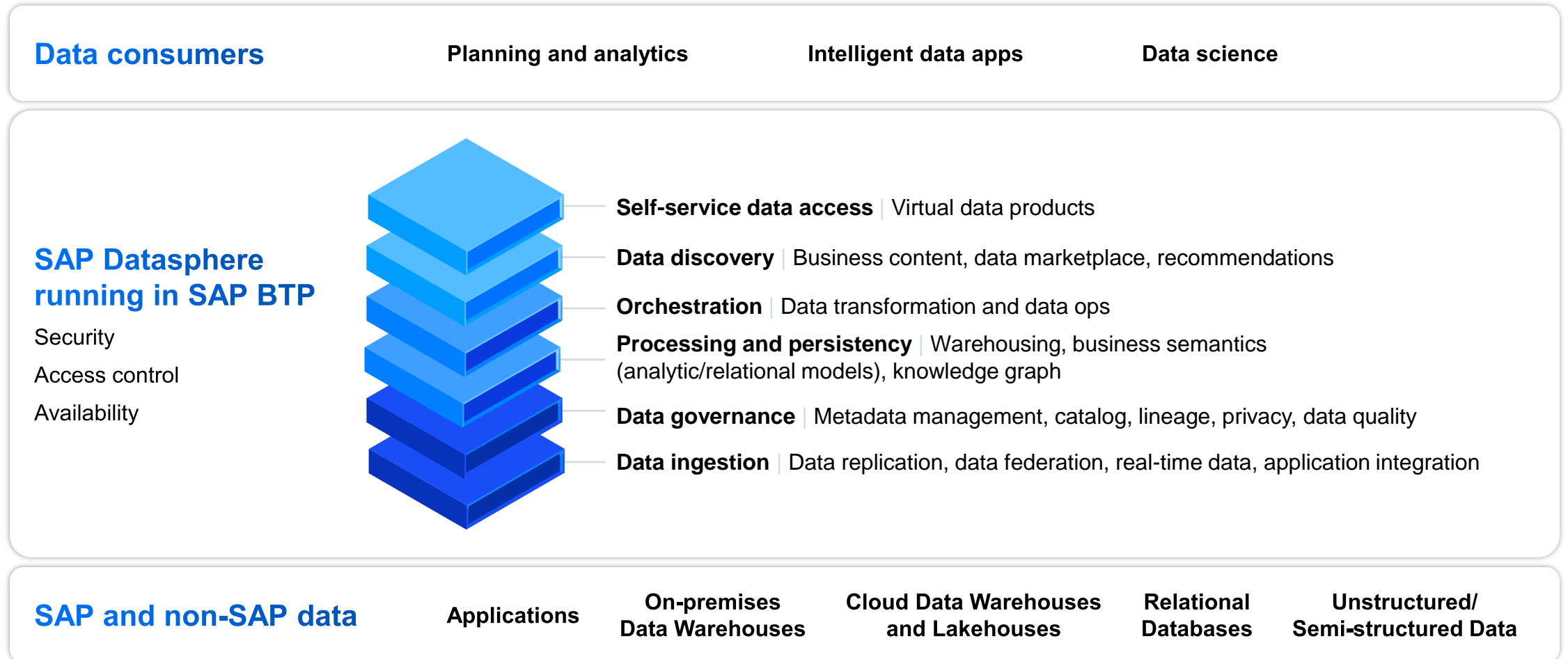
**Real-time data**, infused throughout your data architecture helps business users, partners, and employees make in-the-moment improvements

A **simplified data landscape** reduces costs and technical debt while maximizing current investments

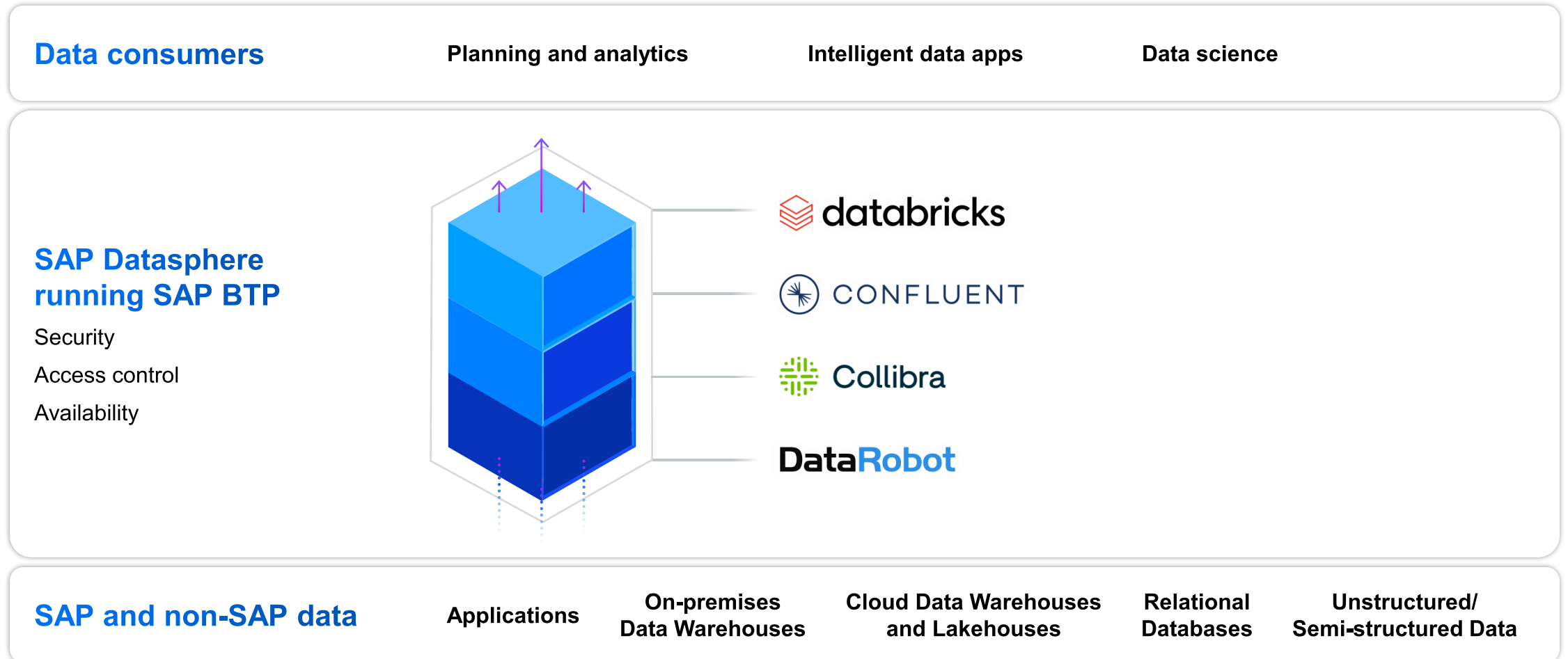




# SAP Datasphere is the foundation for a business data fabric architecture



# Together with our open data partners



# Unleash the power of business data with SAP Datasphere

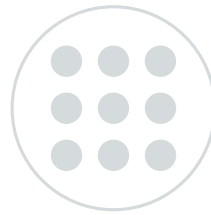


## Access authoritative data

Deliver business data in its business context

Make it effortless to model your business

Ensure governance throughout the data lifecycle



## Enrich all data projects

Virtually access or physically store data from anywhere

Leverage trusted data partners and securely share data across the organization

Integrate with industry-leading data and AI platforms to capitalize on data investments



## Simplify the data landscape

Innovate across hybrid architectures leveraging existing SAP models

Enable self-service data access

Leverage existing SAP BW models and transformations to innovate in the cloud

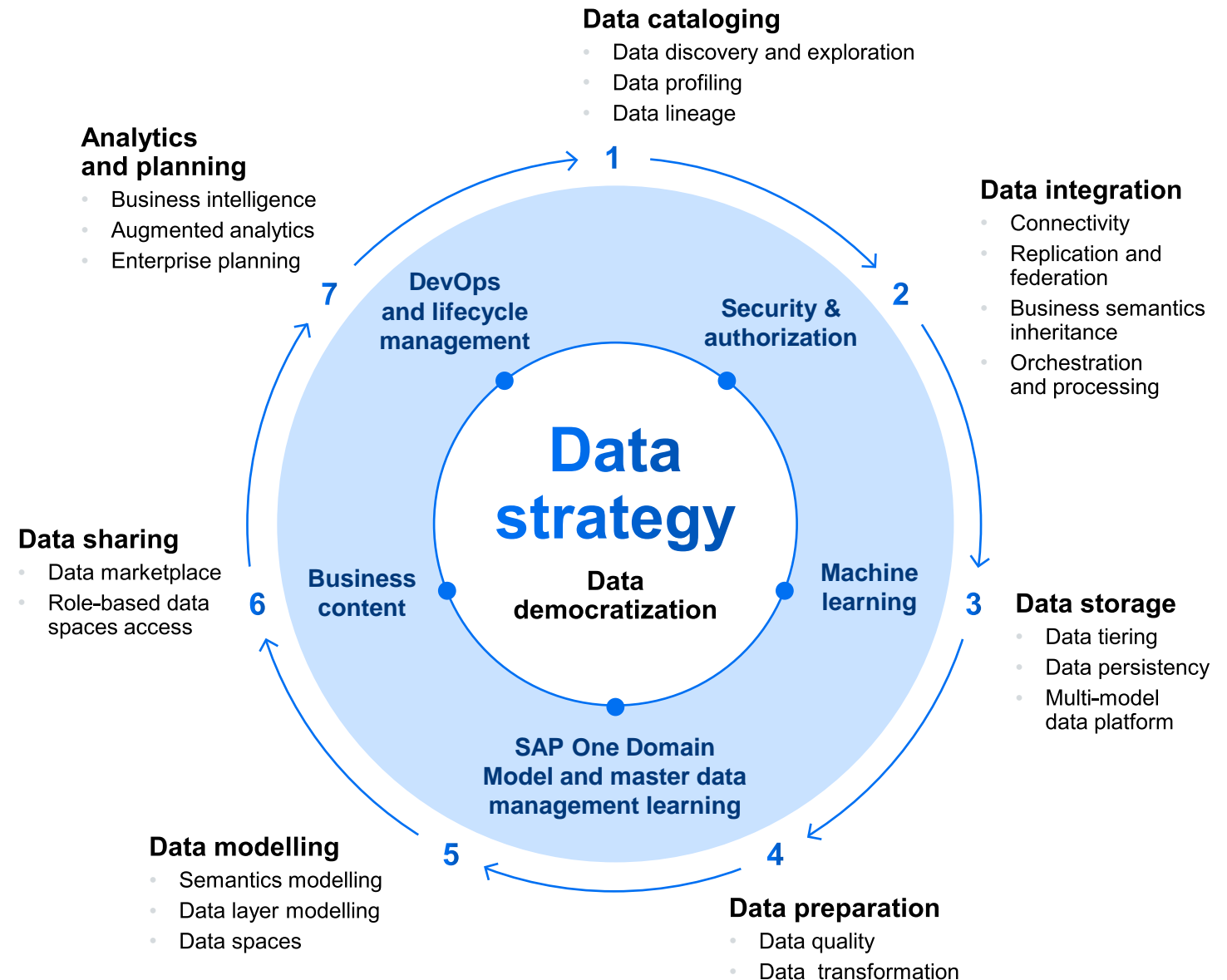
# Access authoritative data

Ensure governance throughout the data lifecycle

Discover, manage, and govern all data with the SAP Datasphere Catalog

Manage data governance from a central point

Establish and share governance rules across systems



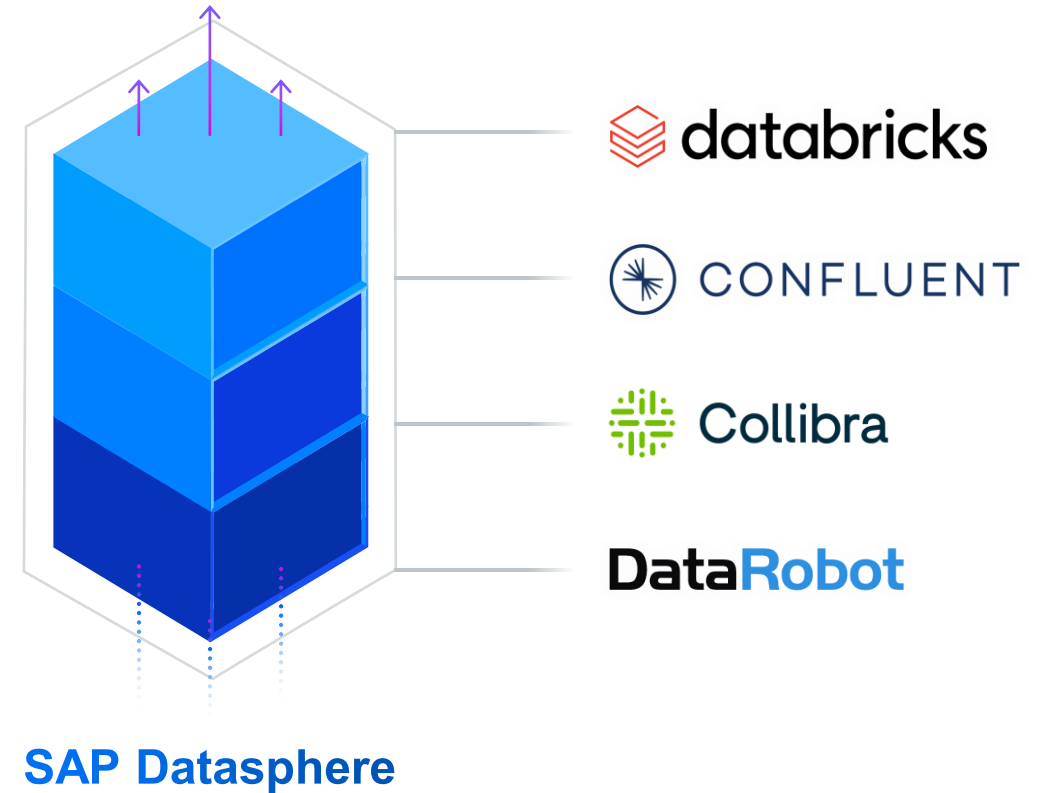
# Enrich all data projects

**Integrate with industry-leading data and AI platforms to capitalize on data investments**

Bring SAP and non-SAP data together leveraging tailored integration with solutions from open data ecosystem partners.

Reduce integration complexity

Get an integrated view of information regardless of where it is stored or how it was designed





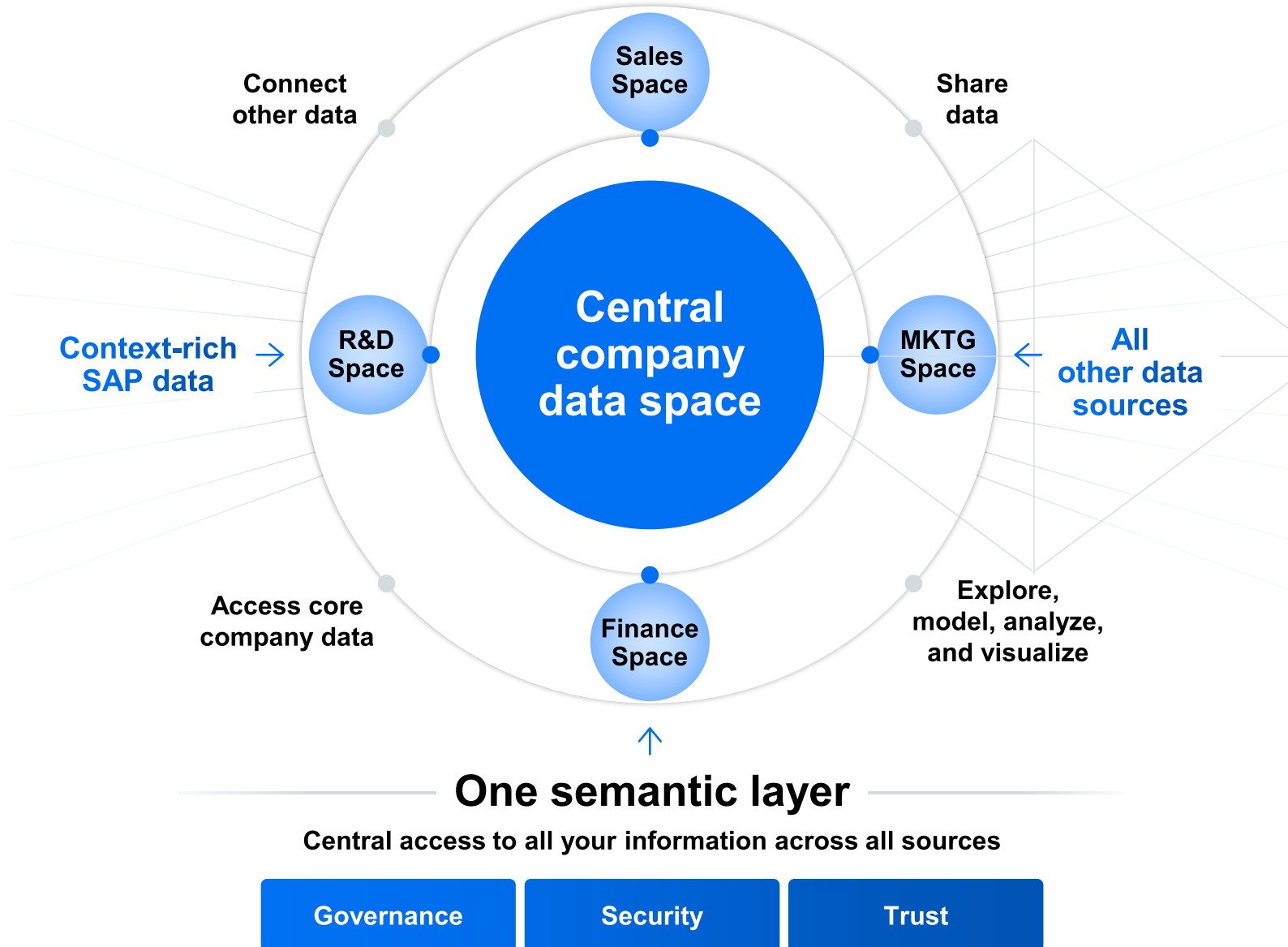
# Simplify the data landscape

Enable self-service data access

Provide user-friendly access to data products that organize and manage data for different lines of business with SAP Datasphere Spaces

Implement powerful data preparation with complex transformations

Access data via SAP and non-SAP tools and open interfaces



# Thank You!