



Webinar EBX

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June 2020



Agenda

- Introduction
 - TIBCO Connected Intelligence
 - TIBCO Reference Architecture
 - EBX Overview
 - EBX Capabilities
- Break
- Demonstration
- Q&A

Agenda

- **Introduction (L&S)**
 - TIBCO Connected Intelligence (L)
 - TIBCO Reference Architecture (S)
 - EBX Overview (L)
 - EBX Capabilities (S)
- Break
- Demonstration (L&S)
- Q&A

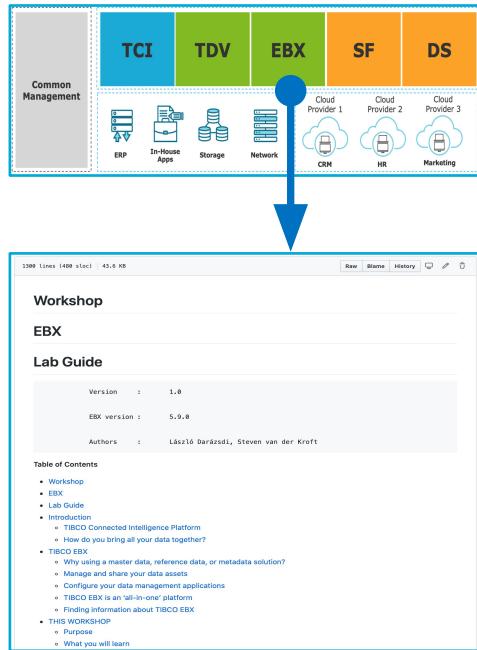
Introduction

Webinar EBX (101)



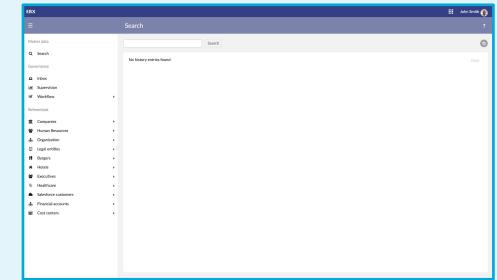
Presentation

Workshop EBX (201)



Workshop EBX Lab Guide

Webinar (101) & Workshop EBX (201)



EBX Application

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 - TIBCO Reference Architecture
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TIBCO, a global leader in Enterprise Software

Our mission is to help our customers **solve the impossible** by providing the most advanced software capabilities to connect their systems, unify their data and predict the future.

TIBCO Connected Intelligence

CONNECT

seamlessly any application,
device, or data source

- Application integration
- API Management
- Messaging & Events

UNIFY

intelligently for better access,
trust, and control

- Metadata Management
- Master Data Management
- Data Virtualization

PREDICT

confidently with real-time
data-driven intelligence

- Visual Analytics
- Data Science
- Streaming Analytics

A globally trusted partner

- 21** of the top 25 Global 2000
- 10** of the top 10 Semiconductor Manufacturers
- 8** of the top 10 Pharmaceuticals
- 7** of the top 10 Banks
- 7** of the top 10 Food & Beverages Processors
- 6** of the top 10 Global Airlines
- 6** of the top 10 Telecoms

TIBCO CONNECTED INTELLIGENCE



TIBCO **Connected Intelligence** unlocks the value of real-time data, creating a strategic, competitive asset for smarter, faster decision making.

Embrace modern integration architectures to power innovation



Cloud-native
Maximum scalability & business agility



API-led
Standardized & flexible Connectivity



Event-driven
Timely response & intelligent actions



Open Platform
Best-of-breed innovation & faster time-to-market

**Embrace
modern
data
architectures
for trusted data**



Metadata

How we define things



Reference data

How we classify things



Master data

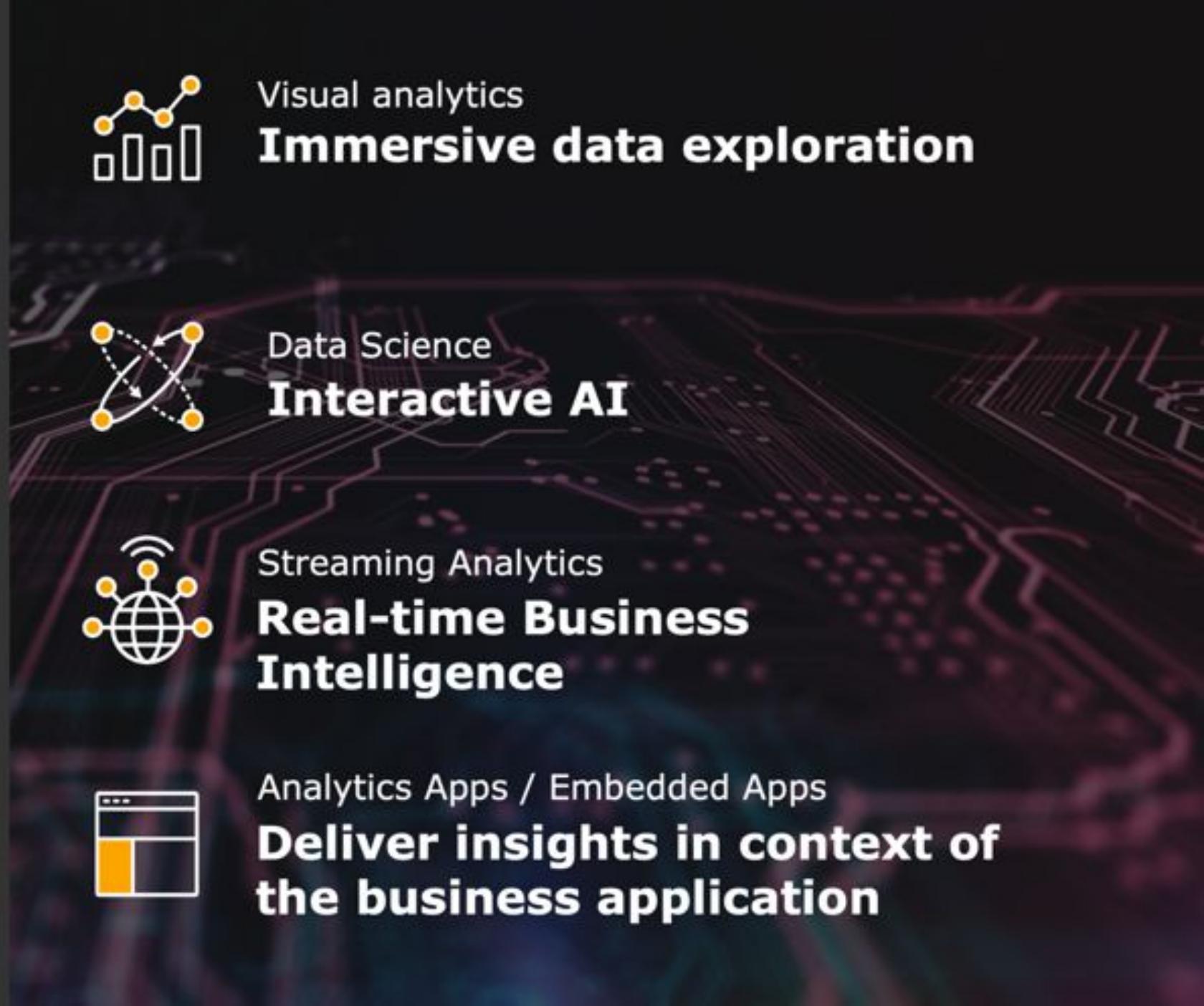
**How we manage important
things**



Transactional data

How we provide data

**Embrace
modern
analytics
architectures
for actionable
insights**



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TIBCO Reference Architecture



API Product Manager



Integration Developer



Application Developer



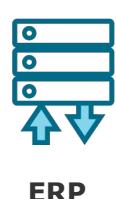
Citizen Integrator



Data Scientist

TIBCO CONNECTED INTELLIGENCE

Common Management



ERP



In-House Apps



Storage



Network



Cloud Provider 1
CRM



Cloud Provider 2
HR



Cloud Provider 3
Marketing

TIBCO Reference Architecture



API Product Manager



Integration Developer



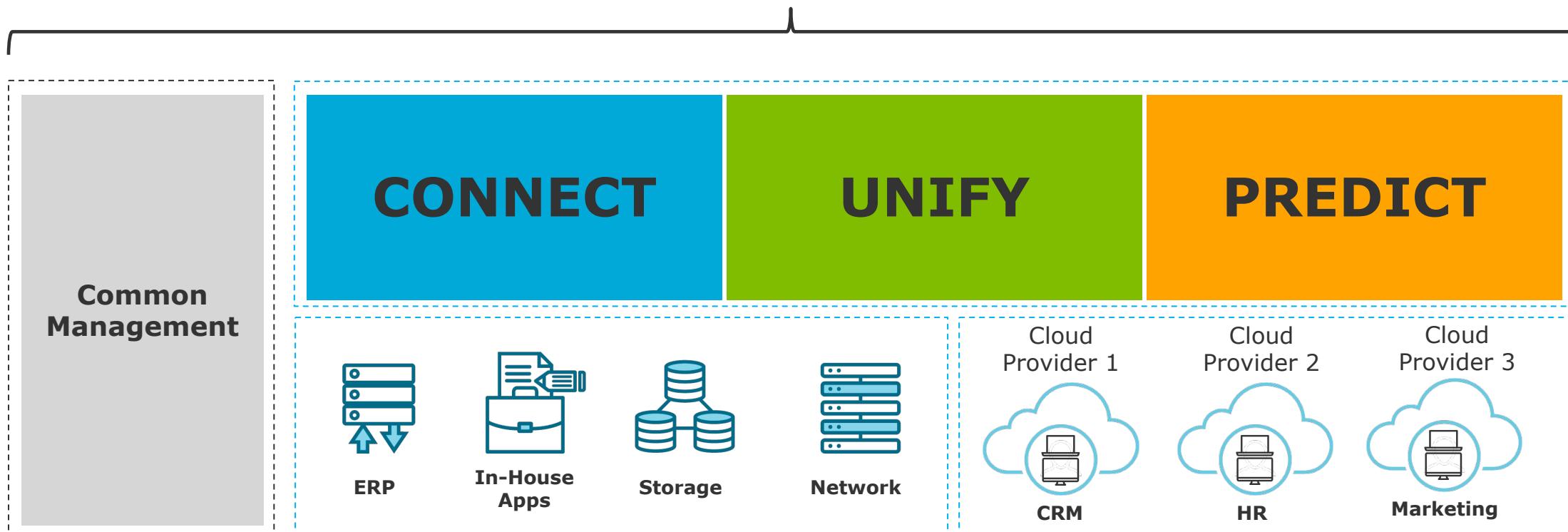
Application Developer



Citizen Integrator



Data Scientist



TIBCO Webinar & Workshops



API Product Manager



Integration Developer



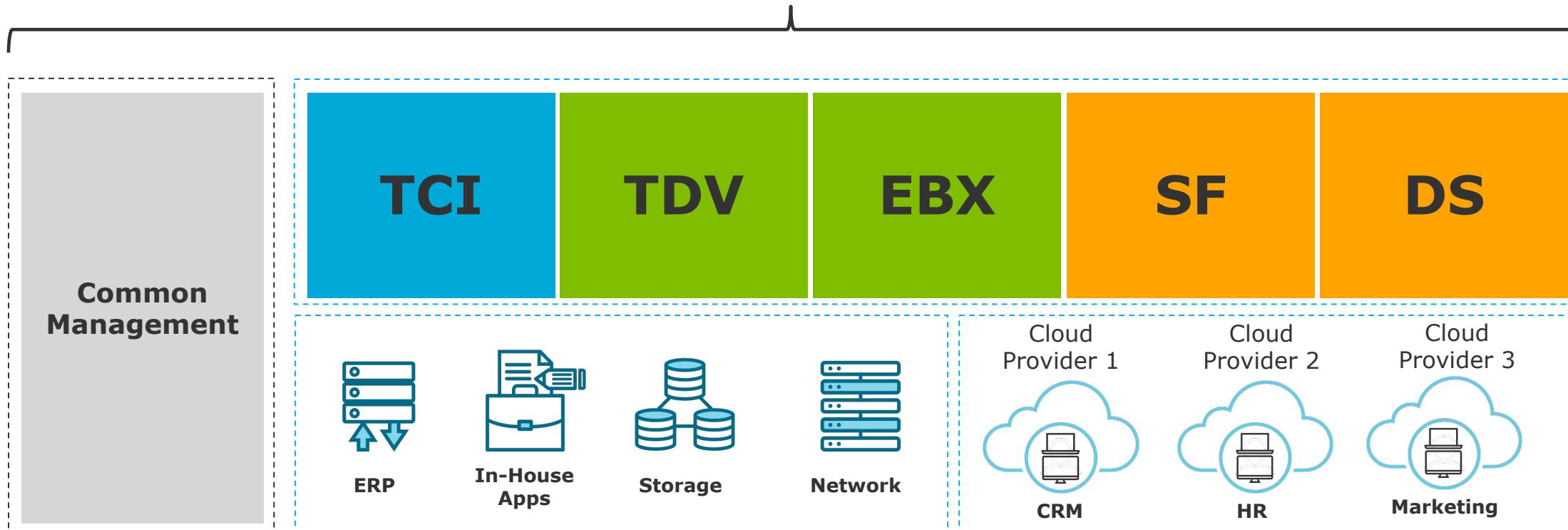
Application Developer



Citizen Integrator

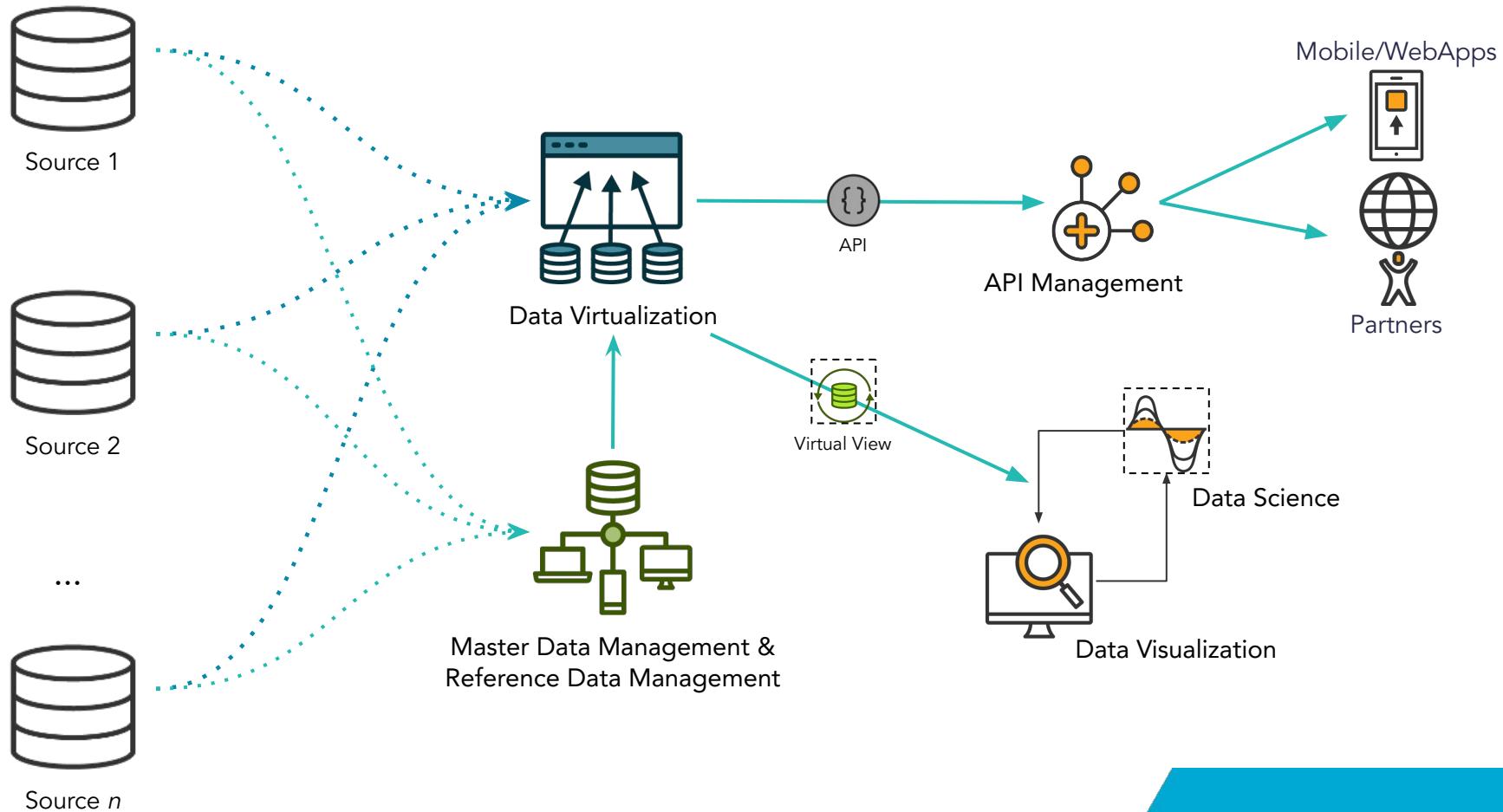


Data Scientist



360° View of Anything - Step by Step

Downstream consumers benefit from access to a unified source of up-to-date transactional data aligned by consistent master data



TIBCO EBX Webinar



Developer



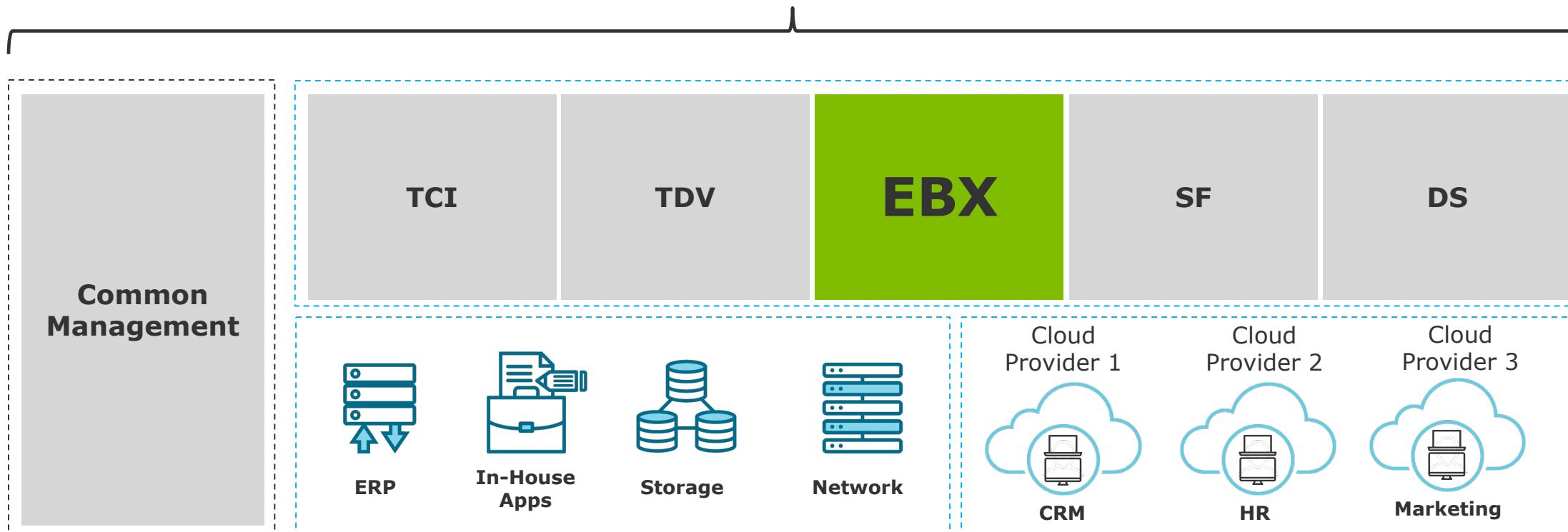
Data Analyst



Data Steward



Business User

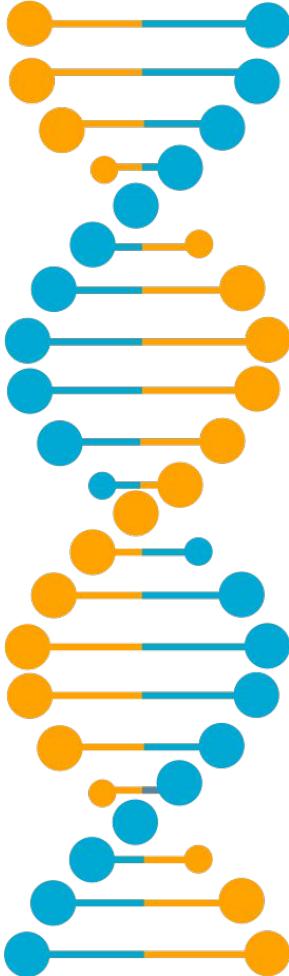


TIBCO EBX Webinar

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Multiple shared data assets are intrinsically linked and should be managed that way



Master Data

“How we manage important things”



Parties



Products



Suppliers



Locations

Reference Data

“How we classify things”



Geographies



Legal entities



Chart of accounts



Industry codes

Metadata

“How we define things”



Business terms



Policies

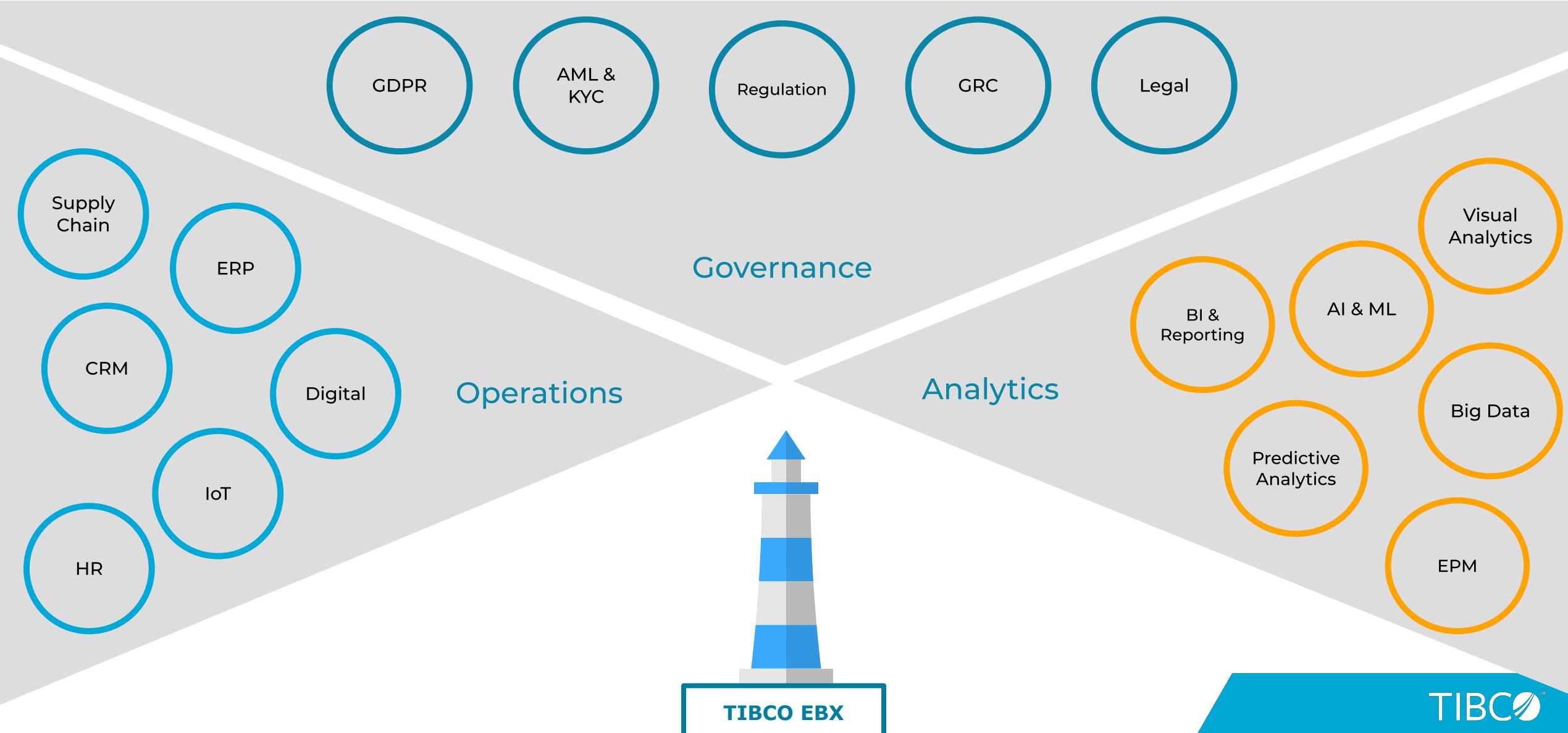


IT systems



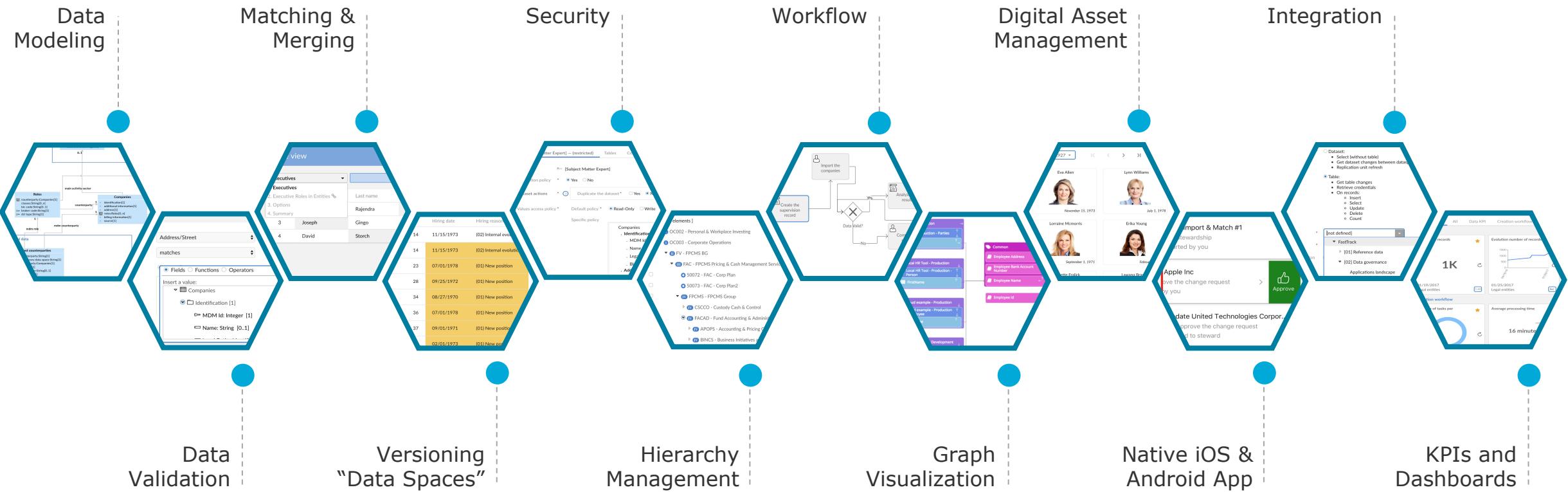
Models & rules

Support all data-driven initiatives



Introducing TIBCO EBX

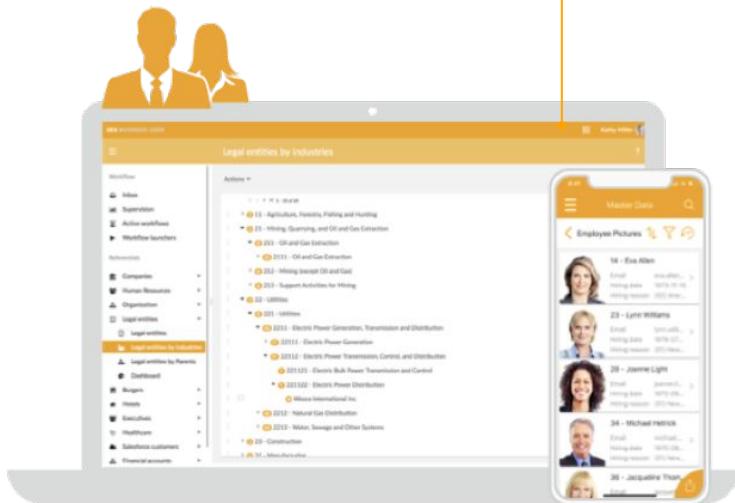
Agile, model-driven, and multidomain solution to manage, govern, and consume shared data assets



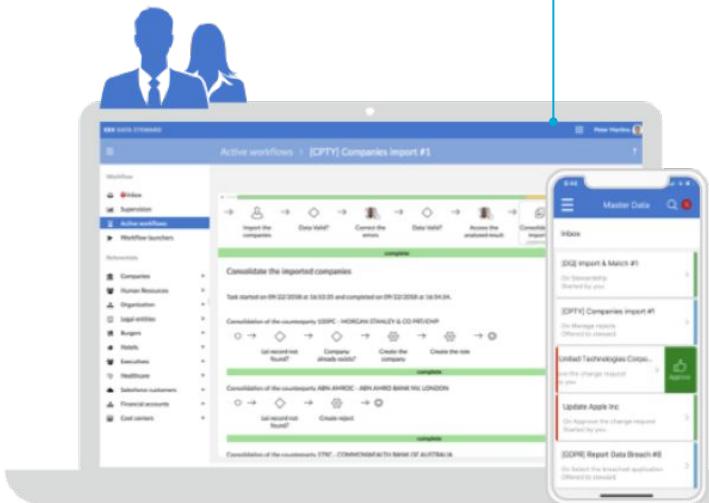
Designed for collaboration

EBX delivers self-service capabilities to all users, so they can manage, govern, and consume all their key data assets on one unified solution

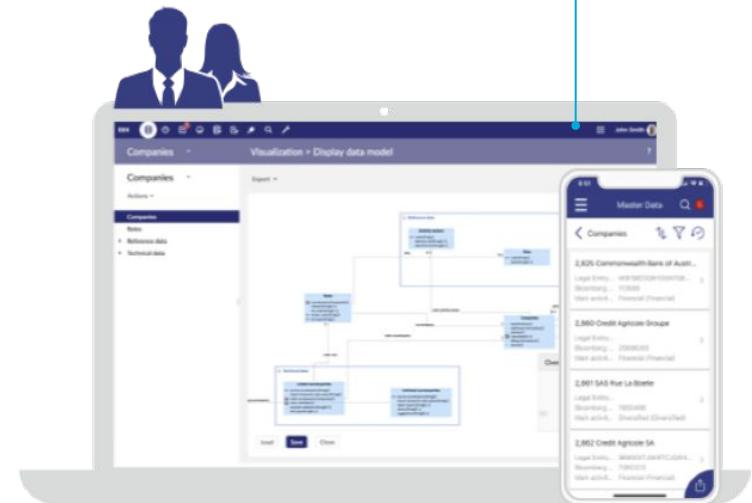
Business users



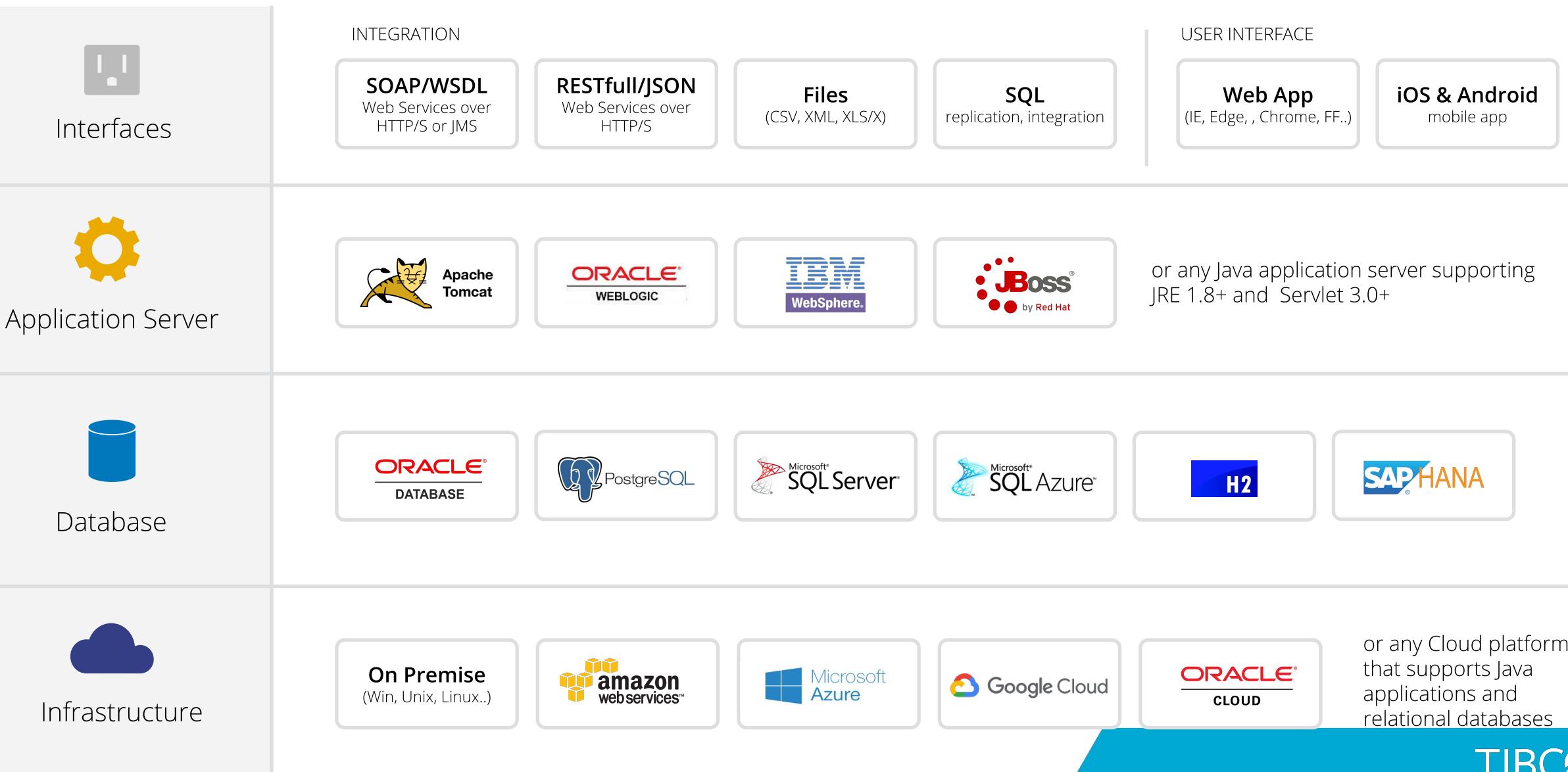
Data stewards



Developers/Analysts



Run TIBCO EBX on the platform of your choice



TIBCO EBX is an “all in one” platform

All data domains	All features	All users	All devices	One codebase	Agnostic	All Platforms	All Languages
Client-driven solution designed for any data domain.	Deliver all the features required to manage the entire life cycle of data assets for all domains	One unified user interface to support all user profiles (users, stewards, developers...)	Native user experience on desktop (Web) and mobile devices (iOS/Android)	100% developed internally, no OEM or third-party components	Support for multiple RDBMS (Oracle, SQL Server, PostgreSQL), Java containers, middleware platforms	Same software runs on premise or in the Cloud. Support for multiple Cloud platforms (AWS, Azure..) as well as databases	Support for multiple languages in the UI, data models and data values

TIBCO CONNECTED INTELLIGENCE



TIBCO **Connected Intelligence** unlocks the value of real-time data, creating a strategic, competitive asset for smarter, faster decision making.

Data Management Capabilities & Use Cases

Master Data Management

Model, govern, and share all your master and reference data

- Multidomain MDM
- Reference Data Management
- 360° views of anything

Metadata Management

Discover, catalog, and govern all your enterprise metadata

- Enterprise Metadata Mgt
- Data Governance
- Data Catalog

Data Virtualization

Access, combine, and provision all your enterprise data

- Virtual Data Layer
- Logical Data Warehouse
- Data-as-a-service

TIBCO EBX

TIBCO Cloud Metadata

Powered by EBX

TIBCO Data Virtualization

Over 200 customers worldwide

 Swiss Re	 J.P.Morgan											
												
	Citi Data Catalog: 200+ reference and master data classes, financial hierarchies, data governance & report control for regulatory compliance, big data catalog, and data lineages.								Worldwide multidomain MDM/RDM program on menu items, ingredients, restaurants, franchisees, financial hierarchies.			
												
					Rabobank Reference Catalog: worldwide Reference Data Management program on NAICS, SBI, NACE codes.							
												

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Data Modeling

Semantic modeling

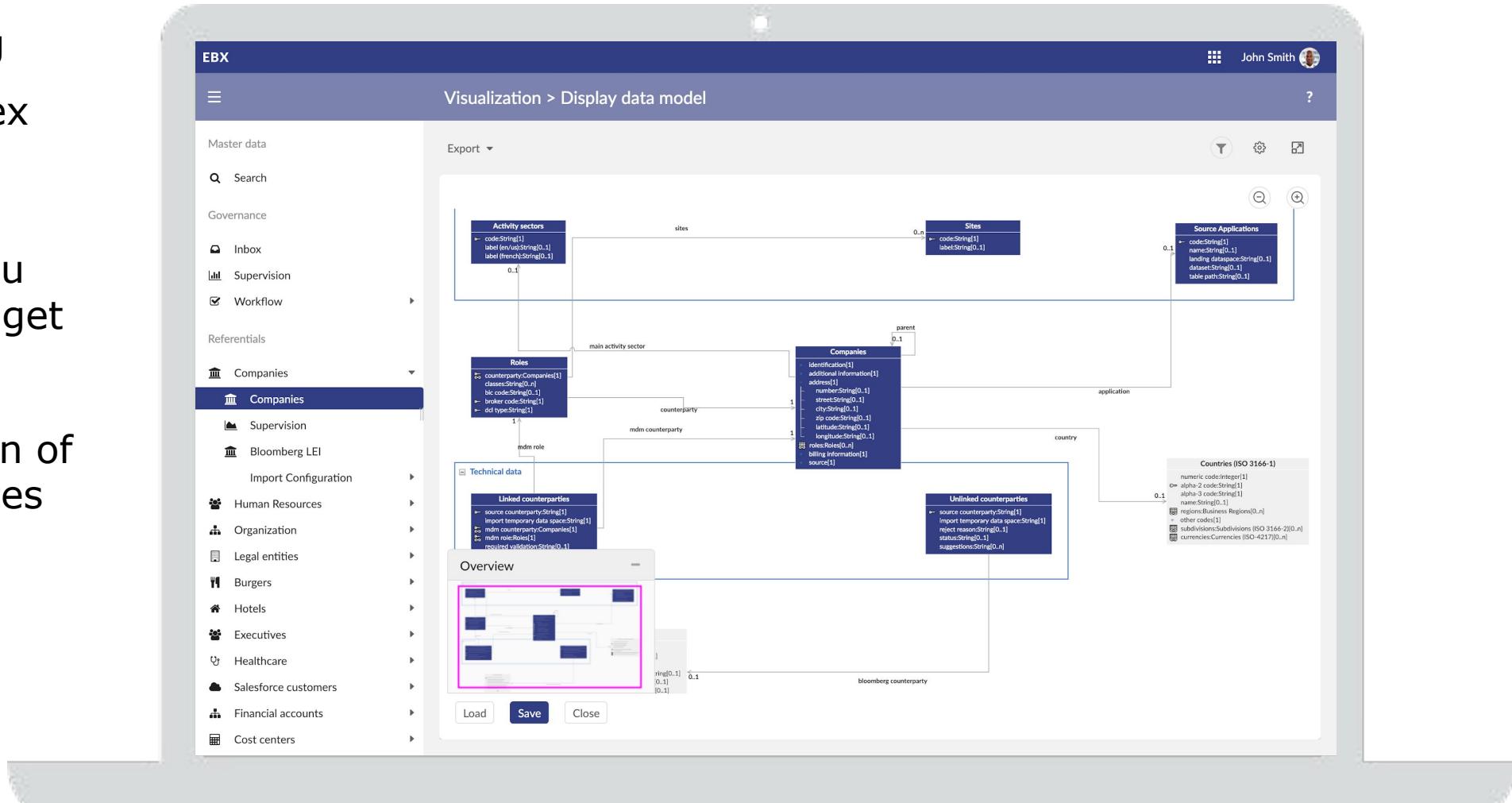
Support for complex types, cardinalities

Full model-driven approach, What you model is what you get

Version control

Dynamic generation of UI and Data Services

Visualization



Data Validation

Validation engine

Real-time or
incremental data
validation

Rules defined in data
model

API for advanced rules

Available in UI and
Data Services

The screenshot illustrates the configuration of a validation rule. On the left, the 'Data models' sidebar shows a hierarchy of data structures, with 'Employee hiring' currently selected. The main workspace is titled 'Create a rule (2/3)' and displays a 'Define criteria' dialog. Inside this dialog, a field is set to 'EmployeeHiring/HiringDate' and the operator is 'is after'. The formula section is active, showing a list of available functions: current-date(), day-from-date(date), month-from-date(date), and year-from-date(date). A modal window is overlaid on the formula input field, providing a detailed view of these functions.

Matching and merging

Support for matching
in realtime or batch

Fine grained
configuration of
algorithms, matching
rules

Matching + merging or
linking

Survivorship:
Automatic resolution
of duplicates

Stewardship: Manual
resolution of
duplicated

Id	First name	Last name	Gender	Number	Street	City	Zip code	State
3...	Joel	Abramson	Male		89 Canterbury Drive	Douglas	66050	Kansas (US)
1...	Lee	Abrams	Unknown		347 Rose Street	Marshall	37174	Tennessee
1...	George	Abrams	Male		373 Schoolhouse Lane	Perry	62237	Illinois (US)
1...	Julie	Abramson	Female		379 Sherwood Drive	Kershaw	29078	South Carolina

Id	First name	Last name	Gender	Number	Street	City	Zip code	State
14,849	Lee	Abrams	Male		373 Schoolhouse Lane	Marshall	62237	Tennessee

Version control

Past, present and future versions (data spaces)

Version control on both data models and data values

3-way compare and merge

Full record-level history

The screenshot displays the EBX DATA STEWARD application interface. The left sidebar contains a navigation menu with sections like Master data, Search, Governance (Inbox, Supervision, Workflow), Referentials (Companies, Bloomberg LEI, Dashboard, Human Resources, Organization, Legal entities, Burgers, Hotels, Executives, Healthcare, Salesforce customers, Financial accounts), and a bottom section for Sales and Marketing. The main content area shows a table titled 'Companies > Companies' with the following columns: Transaction id, MDM Id, Operation type, User, Merge, and Name. The table lists 10 rows of data, with the third row highlighted in yellow. The 'Operation type' column uses color-coding: yellow for updates and green for creations. The 'User' column shows names like Peter Martins (steward) and John Smith (admin). The 'Name' column lists various company names.

Action	Transaction id	MDM Id	Operation type	User	Merge	Name
<input type="checkbox"/>	2,499	2,861	Update	Peter Martins (steward)		SAS Rue La Boetie.
<input type="checkbox"/>	2,498	2,861	Update	Peter Martins (steward)		SAS Rue La Boetie.
<input type="checkbox"/>	2,497	2,861	Update	Peter Martins (steward)		SAS Rue La Boetie.
<input type="checkbox"/>	2,424	2,825	Update	John Smith (admin)		Commonwealth Bank of Australia
<input type="checkbox"/>	2,009	3,286	Creation	John Smith (admin)		Toronto Dominion South East Asia Ltd
<input type="checkbox"/>	2,009	3,285	Creation	John Smith (admin)		Credit Suisse Singapore Ltd
<input type="checkbox"/>	2,009	3,268	Creation	John Smith (admin)		Oddo et Cie SCA
<input type="checkbox"/>	2,009	3,262	Creation	John Smith (admin)		Morgan Stanley International Finance SA
<input type="checkbox"/>	2,009	3,254	Creation	John Smith (admin)		Lombard Odier & Cie France
<input type="checkbox"/>	2,009	3,242	Creation	John Smith (admin)		Caisse Regionale de Credit Agricole Mutuel Val de Fra

Security

Integration with enterprise directory (LDAP, AD...)

Permissions at any level (data space, data set, table, attribute, row, features..)

The screenshot shows the EBX application interface. On the left, there's a sidebar with 'Company employees' navigation items: 'Actions', 'Access rights by profile' (which is expanded), 'New record', 'Employees', 'Persons', 'Work contracts', 'Assignments', and 'Reference data'. The main area is titled 'Access rights by profile : New record'. It shows a profile dropdown set to '[Chief Data Officer]'. Under 'Restriction policy', the 'No' radio button is selected. In the 'Dataset actions' section, 'Duplicate the dataset' is set to 'Yes'. Under 'Values access policy', 'Default policy' is set to 'Write'. A 'Specific policy' section is expanded, showing a tree view of permissions for 'Employees', 'Employee hiring', 'Employee leaving', 'Status and contracts', and 'Persons'. Under 'Employees', 'Identifier', 'Person', and 'Email' are listed. Under 'Employee hiring', 'Hiring date [ReadOnly]' and 'Hiring reason [ReadOnly]' are listed. Under 'Employee leaving', 'Leaving date' and 'Leaving reason' are listed. Under 'Status and contracts', 'Status', 'Work contracts', 'Assignments', 'Employee manager', 'Manager', and 'Manager of...' are listed. Under 'Persons', 'Picture' is listed. At the bottom are 'Save', 'Save and close', and 'Close' buttons.

Hierarchy Management

Dynamic hierarchies
based on any
relationship

Support for any type
of hierarchy (ragged,
balanced...)

Onscreen visualization
and editions

Support for standard
and alternate
hierarchies using
inheritance

The screenshot displays the EBX DATA STEWARD interface with the title "Cost centers hierarchy". The left sidebar contains a navigation menu with sections like Master data, Governance, and Referentials, with "Cost centers" selected. The main area shows a hierarchical tree view of cost centers. At the top of the tree is "[All elements]". Below it are several nodes, some expanded to show sub-nodes. The nodes include:

- OC002 - Personal & Workplace Investing
- OC003 - Corporate Operations
 - FV - FPCMS BG
 - FAC - FPCMS Pricing & Cash Management Services
 - 50072 - FAC - Corp Plan
 - 50073 - FAC - Corp Plan2
 - FPCMS - FPCMS Group
 - CSCCO - Custody Cash & Control
 - FACAD - Fund Accounting & Administration
 - APOPS - Accounting & Pricing Operations
 - BINCS - Business Initiatives and Central Services
 - FDADM - Fund Admin (FPCMS)
 - MRFAC - Merrimack Fund Accounting
 - PRAFR - Pricing Complex Accounting & Fund Reporting
 - WLFAC - Westlake Fund Accounting
 - FACIT - FPCMS IT
 - FPCAD - FPCMS ADMIN
 - GX - Fidelity Charitable Services BG
 - IE - India BG

Workflow

Integrated workflow engine to control any data management process

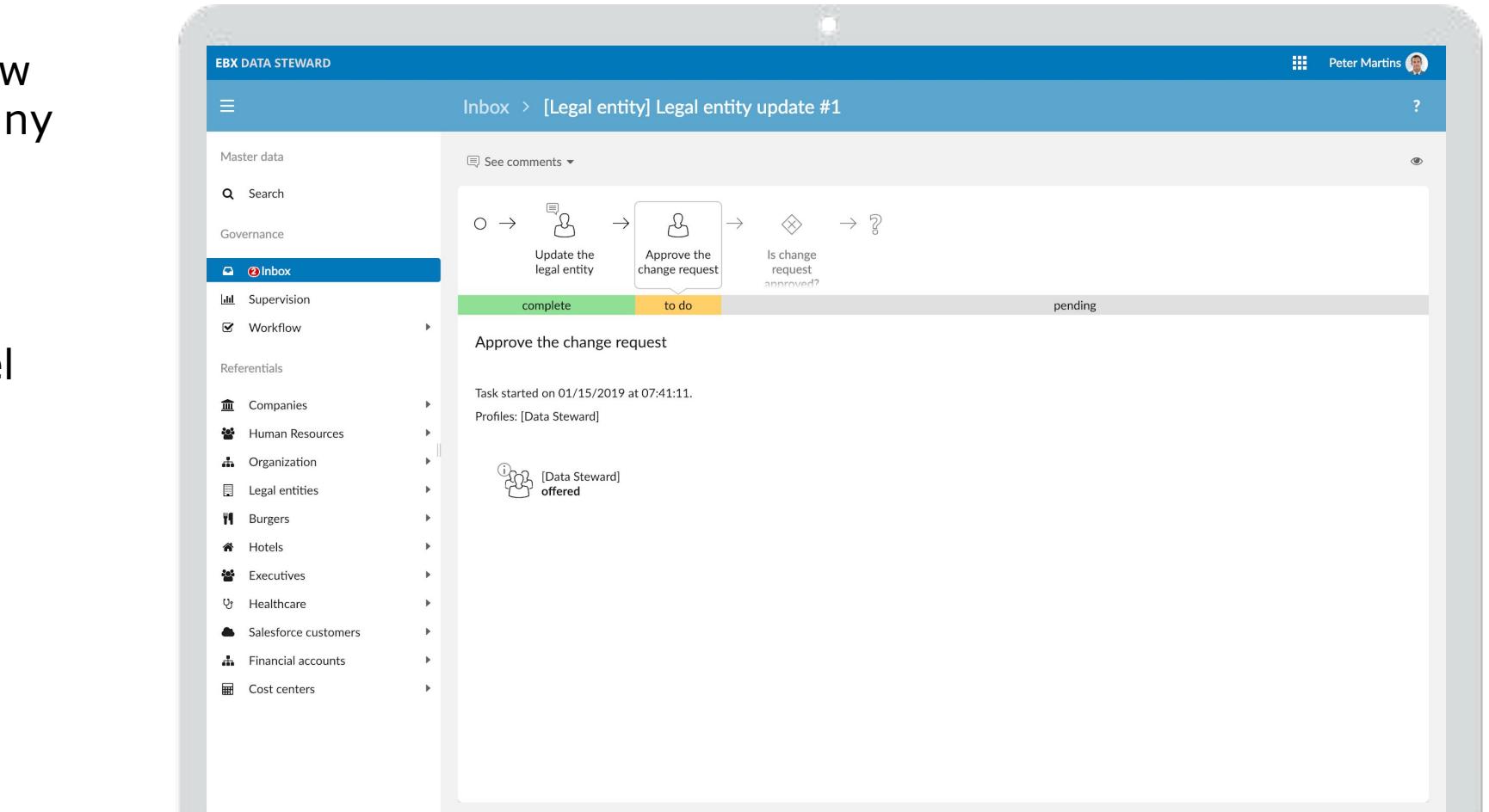
Workflow modeler

Support for parallel workflows

End user and server-side tasks, conditions

Inbox

Notifications, deadlines

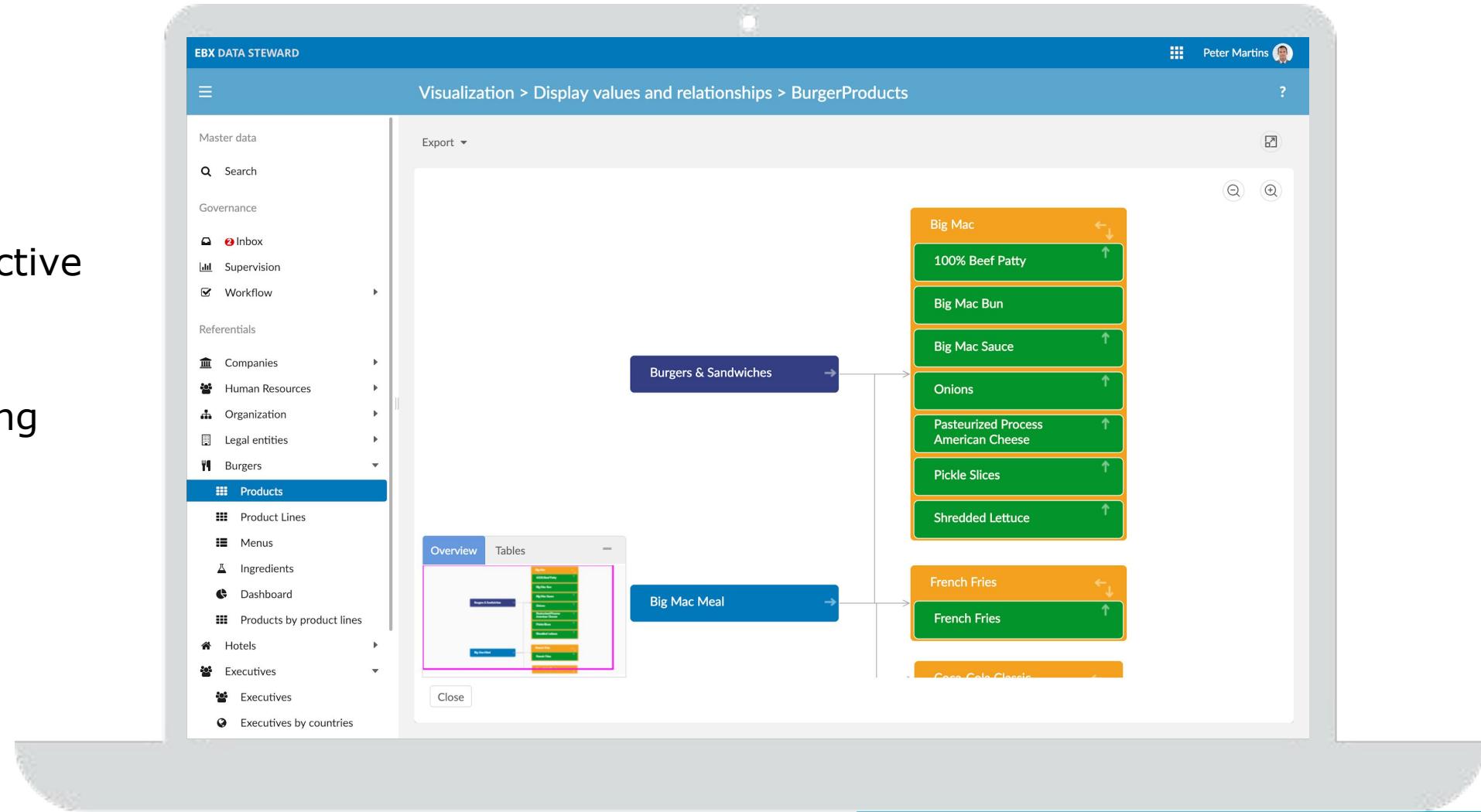


Visualization

Data Model and Workflow Model visualization

Data values and relationship interactive graphs

Support for any dimension, including cross-domain relationships



Digital Assets

Unstructured data
(documents, videos)

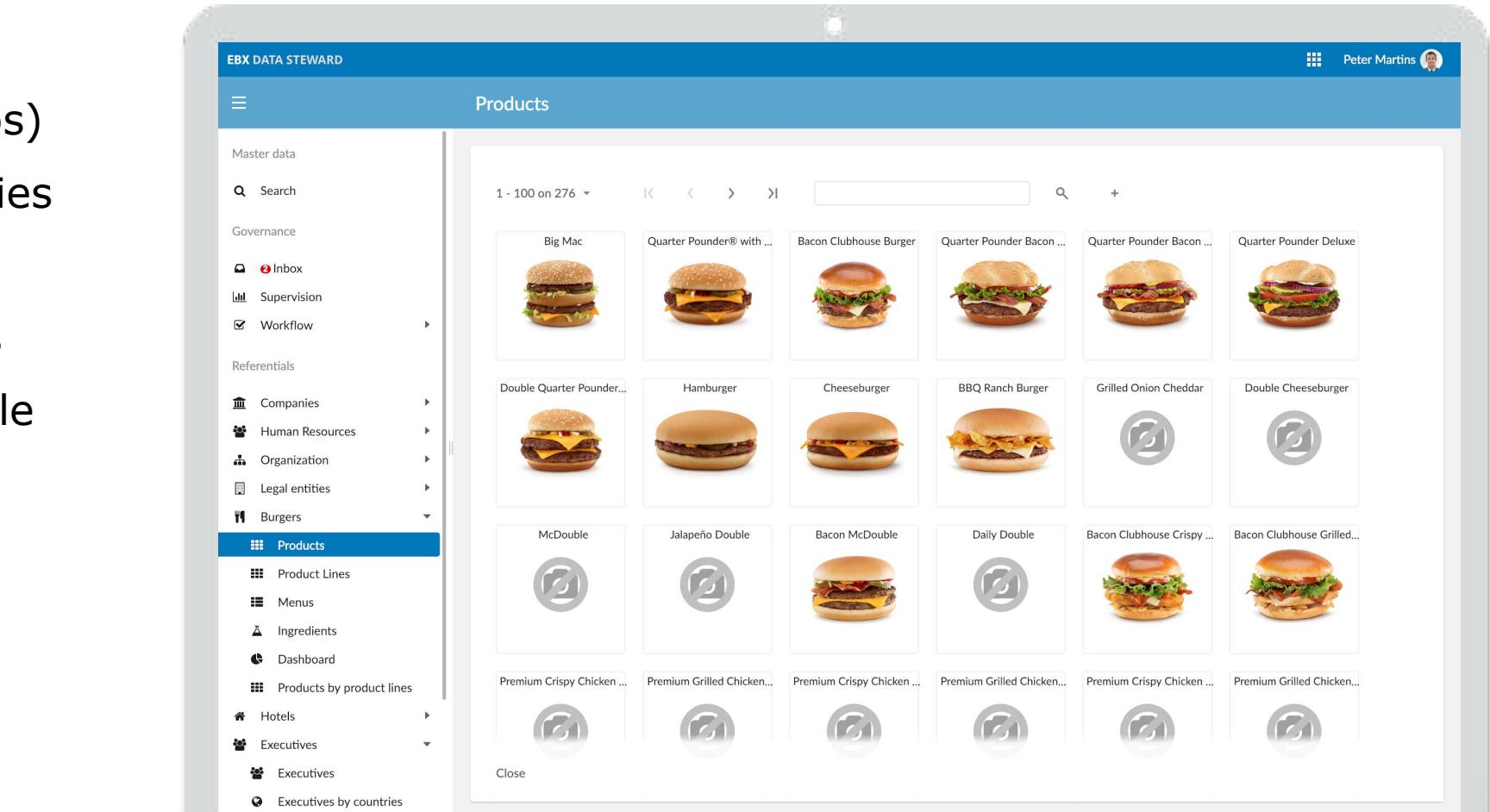
Digital asset libraries

Version control

Metadata and tags

Support for multiple
storage systems

API for advanced
integrations



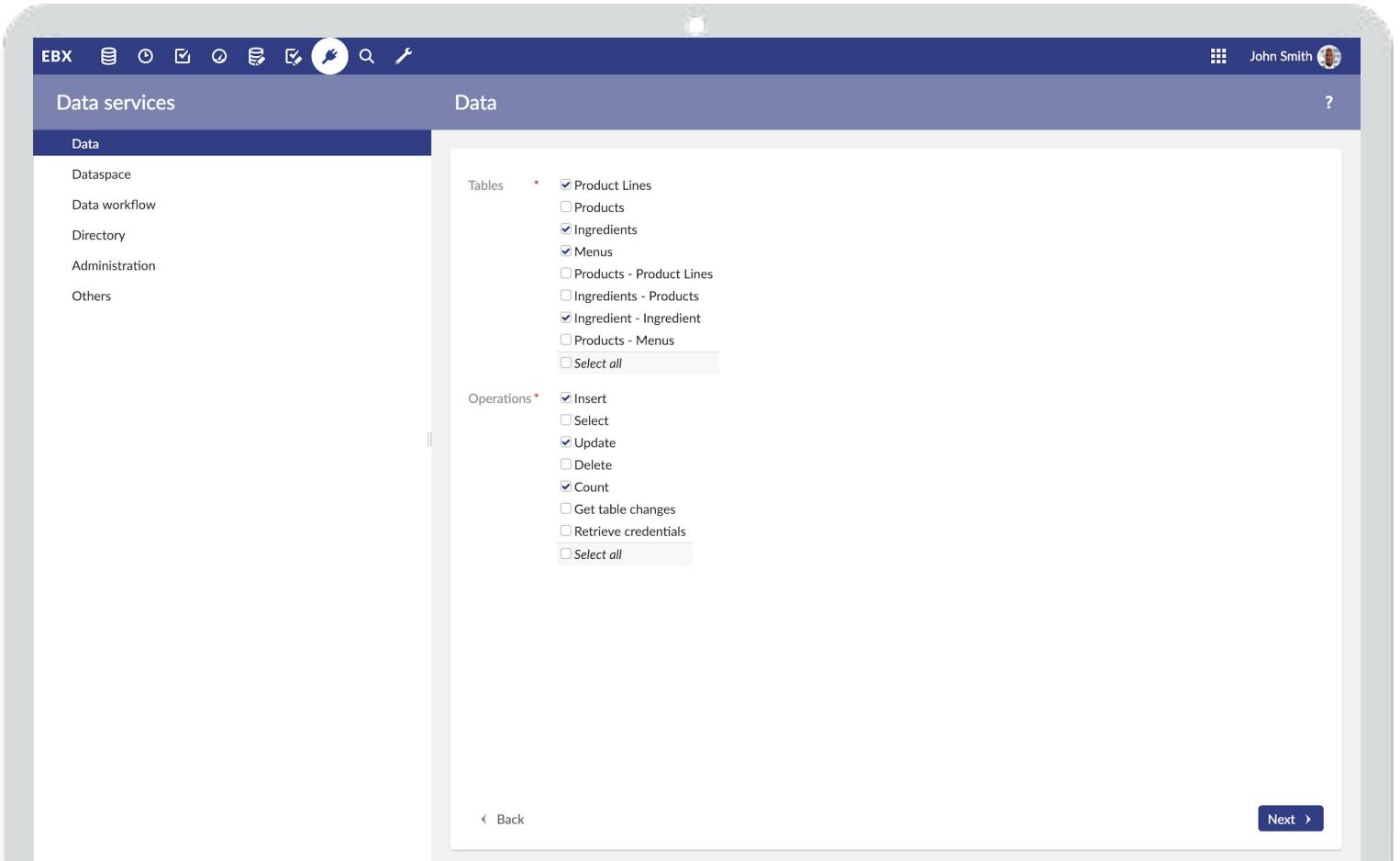
Integration

Web Services:
SOAP/WSDL and REST

REST Toolkit for
customer REST
services

File integration (CSV,
XLS/X, XML)

SQL import/export

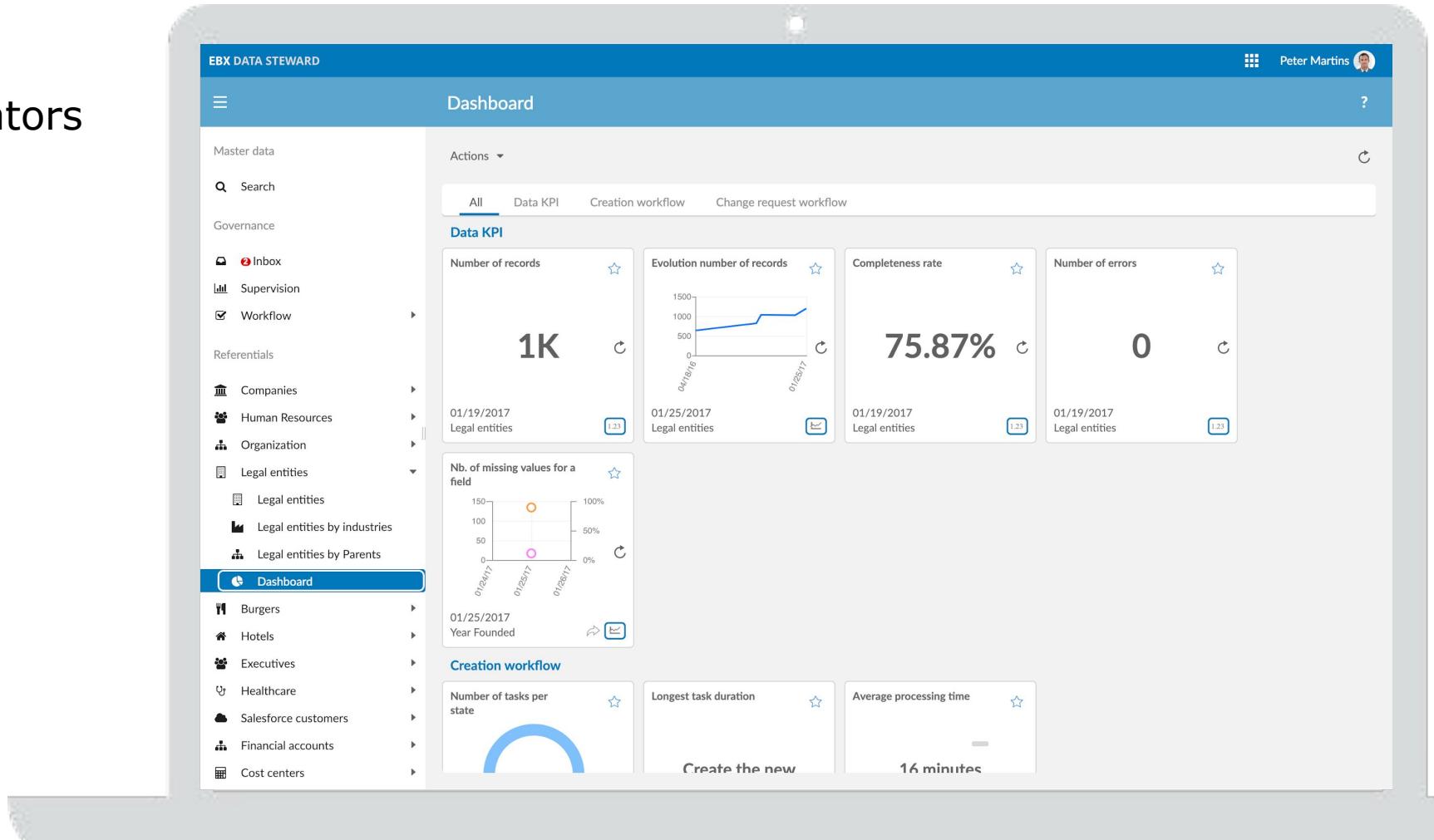


KPIs and Dashboard

Data quality and performance indicators

Library of 60+ indicators

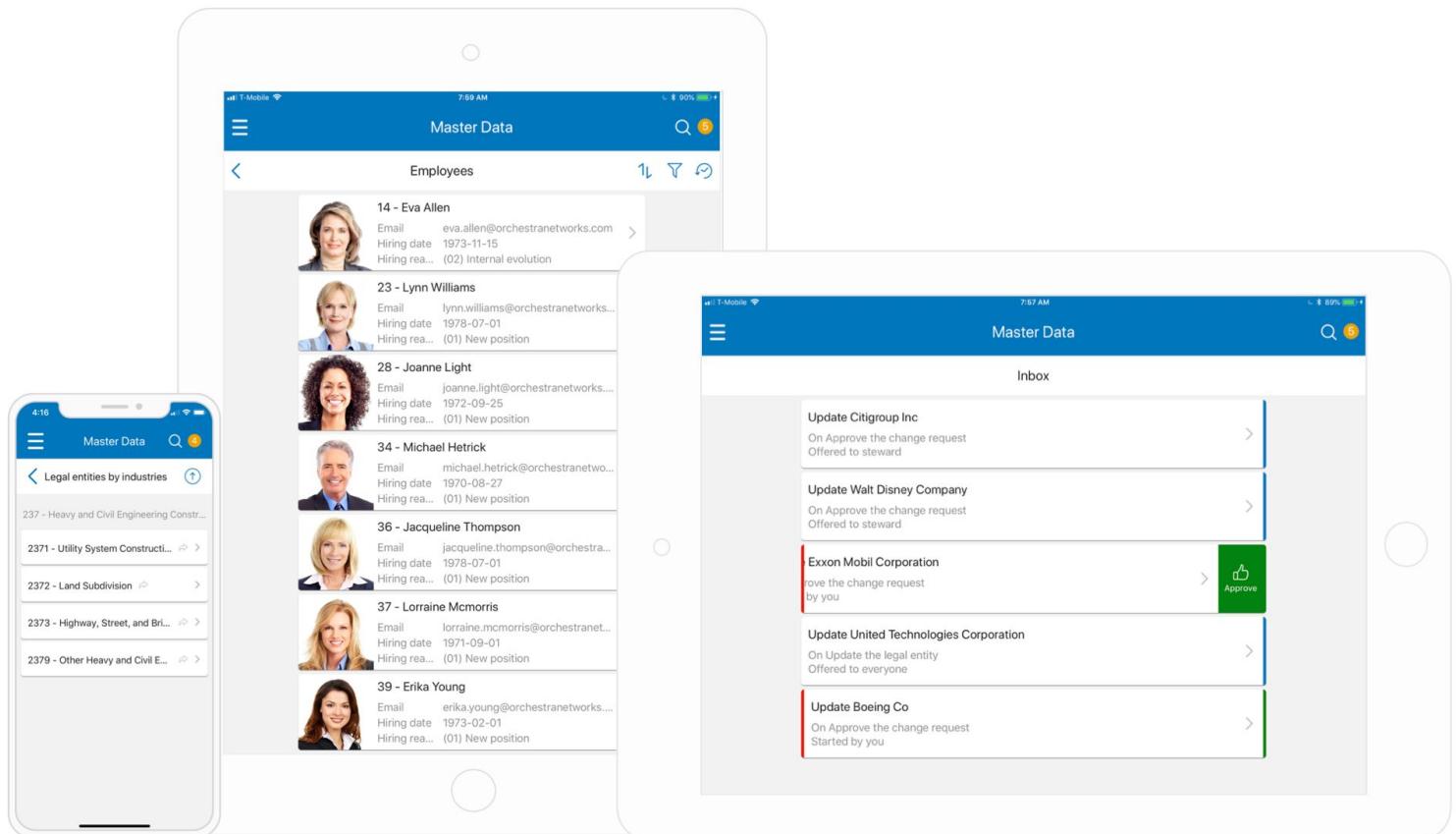
Dashboards per domain



EBX GO

Native iOS and Android app for smartphones and tablets

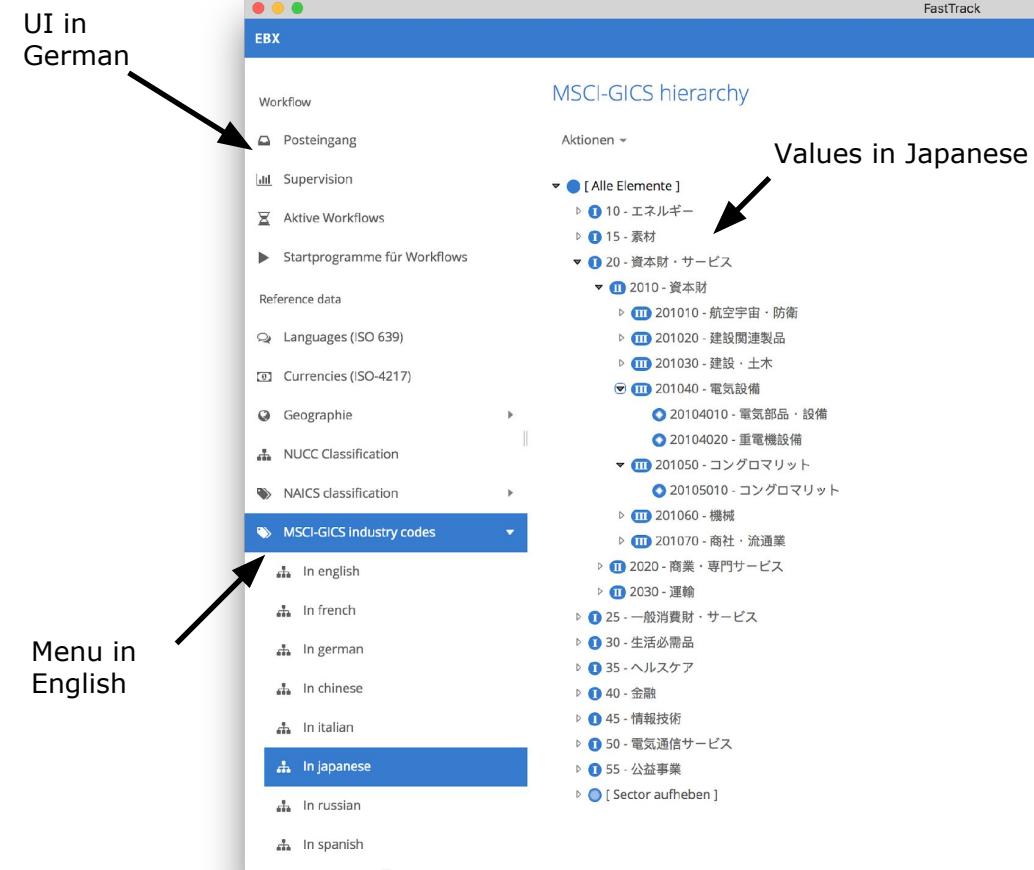
- Browse, view and search data
- Workflow
- Support for digital assets
- Data quality dashboards
- Data visualization



Extended language support

As we scale our worldwide operations and customer base, we are committed to provide extensive language support in all the dimensions of MDM.

User Interface (including EBX GO)	Models (Data, Workflow)	Data Values	Language-specific features
Official Language Packs EN JP FR DE ES PT	Any language UTF-8 • Localization of labels, descriptions, error messages, UI components...	Any language UTF-8 • EBX uses UTF-8, which enables data to flow through the system without any loss or corruption • Data inheritance feature to localize values without any data duplication	<ul style="list-style-type: none">Search and matching algorithms for specific languages (JP, CN)



Agenda



Bio-break 5 min

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Demonstration

- UI & Perspective (L)
- Search & Company (L)
- Workflow (L)
- Digital Assets Persons/Burgers (S)
- Reference – NAICS code (S)
- KPI Dashboard (S)

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TIBCO Webinar & Workshops



API Product Manager



Integration Developer



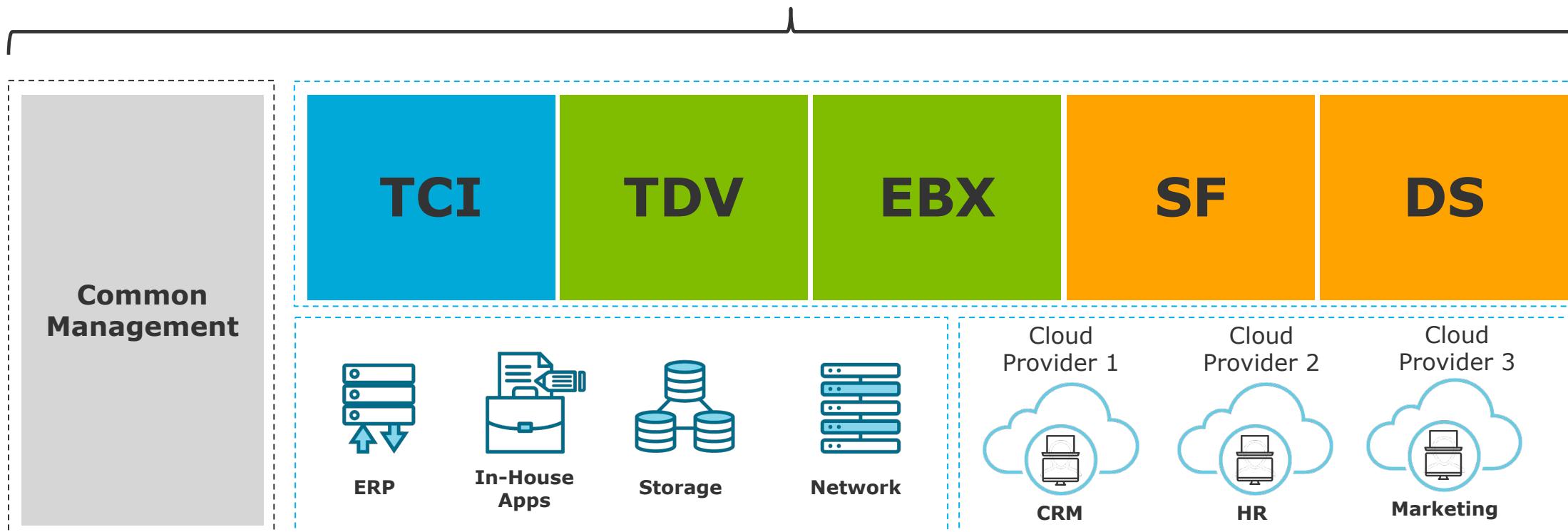
Application Developer



Citizen Integrator



Data Scientist



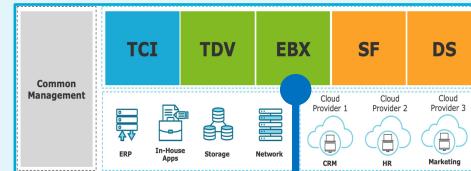
TIBCO Workshop

Webinar EBX (101)



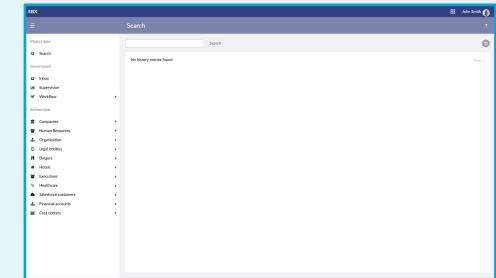
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Workshop EBX Lab Guide

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Workshop EBX (201)



EBX Application

Survey form



Please fill in!
THANK YOU



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Steven van der Kroft, Lackó Darázsdi

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