Dashboarding Comparison: Power BI, Cognos & Tableau

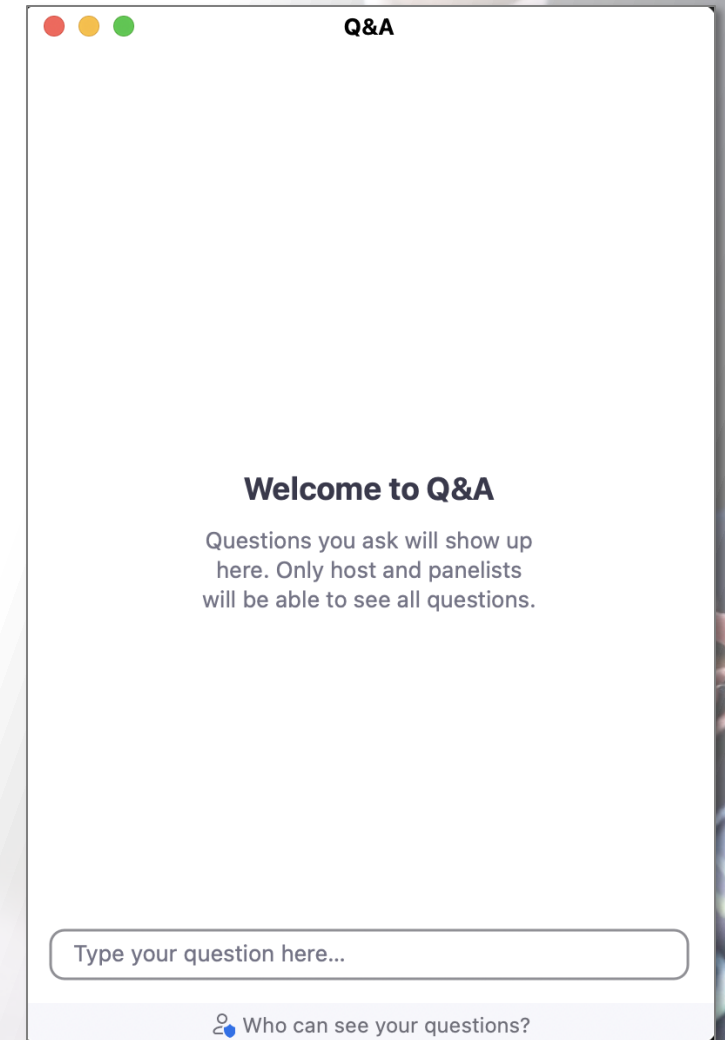# Questions?

Q&A at the bottom of your screen

Chat | Q&A | Raise Hand

Submit questions

Q&A

Welcome to Q&A

Questions you ask will show up here. Only host and panelists will be able to see all questions.

Type your question here...

Who can see your questions?
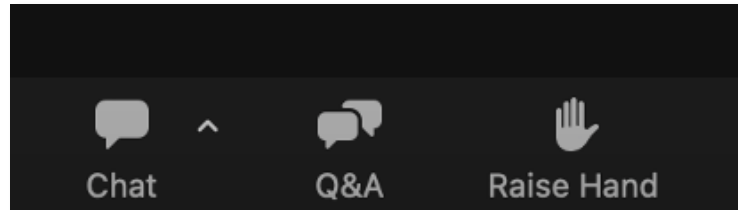
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Agenda

Introductions

What are "dashboards"

Breakdown of dashboards in each tool

Demos

Senturus overview and additional resources

Q&A

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Introductions

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Poll

Which BI tool(s) does your organization currently use? (Select all that apply)

- Power BI

- Cognos

- Tableau

- Other

- Don't know

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What is a dashboard?

- Regardless of tool, there are commonalities

- A dashboard is collection of objects (widgets, reports, buttons, etc.) on one or more pages (tabs) allowing you to quickly and easily see data

- Dashboards should convey summary information providing a conduit to detailed underlayers

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What is a dashboard?

- Dashboards are unique from reports as they can contain data from multiple data sources

- This is one of the big distinctions between a true dashboard and a "dashboard style" report

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What is a dashboard?
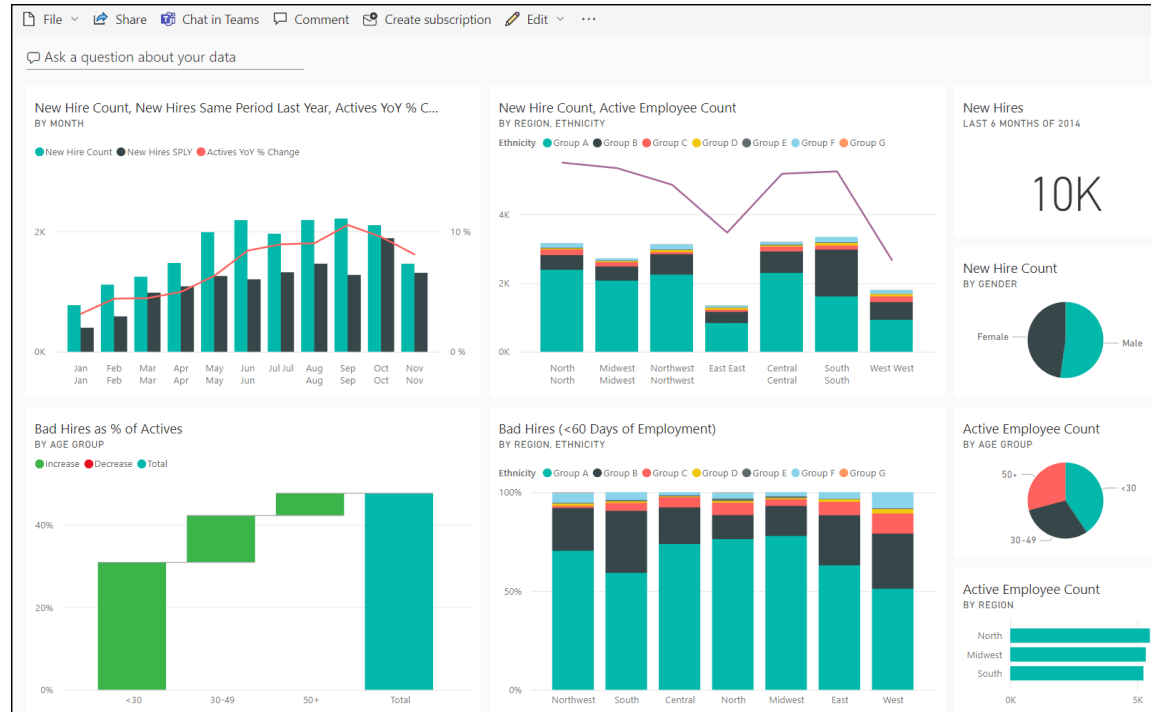
Power BI dashboard

Dashboard style report
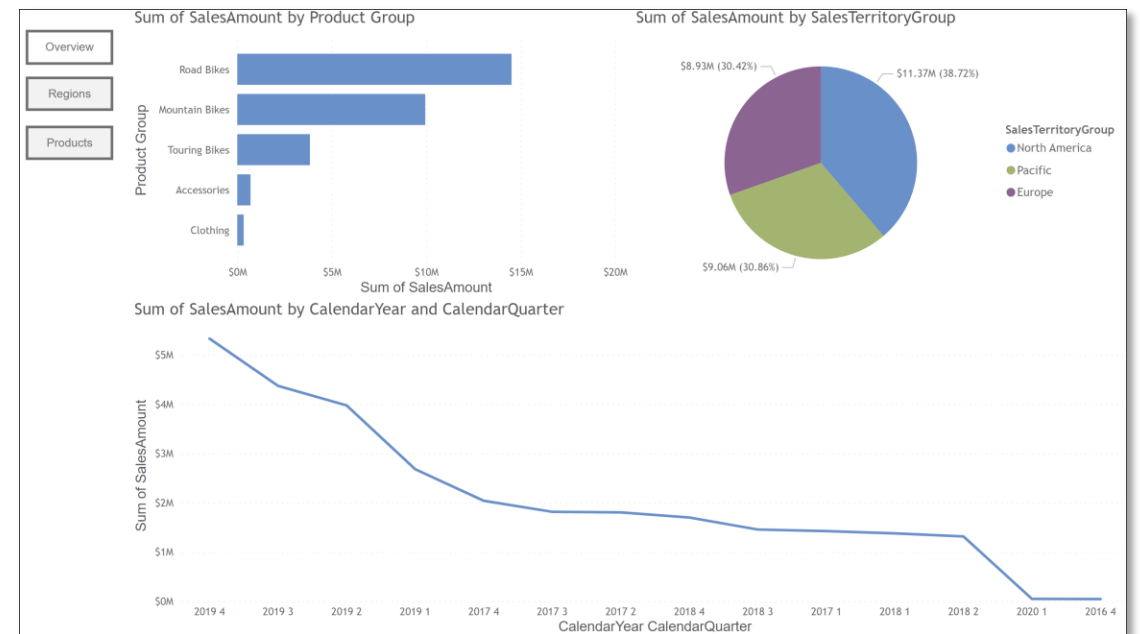
Power BI, Cognos & Tableau

The details

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Features & functions

Summary Feature/Function Inventory

Caliber & Completeness of BI/Analytics Tools	Database / Data warehouse
	ETL Tools
	Metadata Modeling Tools
	Query Tools
	Reporting Tools
	Dashboarding Tools
	Data Exploration Tools
	Data Mining Predictive Tools
	Data Governance Capabilities
	Audit Tools
	Infrastructure Connectivity & Security
	Overall
Product Improvements & Company Investment	Full Stack
	Front-end Tool(s)
	Partner Enablement
	Reporting Tools
	Dashboarding Tools
	Data Exploration Tools
	Data Mining / Predictive Tools
	Infrastructure Connectivity & Security
	Overall
	On-Premise (e.g ERP)
	Cloud / SAAS systems

Detailed Feature/Function Inventory

Visualization	Immediate Data Preview
	3rd party custom visualization & features marketplace
	Developer Access to create custom visuals or extend features
	Prebuilt workbooks for popular operational systems
	RAVE/D3 Support
Report Functionality	Filtering
	Advanced Filtering
	Slicers
	Create Calculations
	Create Complex Calculations
	Copy Report to Clipboard
	Drill through Definitions
	Drill up/drill downs
	Variable Support
	Parameterized Reporting
	Dynamic Layout Based on Parameters
	Complex nesting and row selection
	Tuples/Intersections
	Layout Control
	Tooltip text formatting

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Interactive summary

Senturus Comparison Matrix

Category	Sub Category	Cognos	Power BI	Tableau
Caliber & Completeness of BI/Analytics Capabilities	Ad-Hoc Query Tools	●	●	◐
	Dashboarding Tools	◕	●	●
	Data Exploration Tools	●	◕	◐
	ETL Capability	◐	◐	◐
	Metadata Modeling Capability	◕	◐	◐
	Paginated, Burastable Reporting To..	●	●	◕

Score
- ◐ 2
- ◕ 3
- ● 4

Caliber & Completeness of BI/Analytics Capabilities - Paginated, Burastable Reporting Tools
Power BI
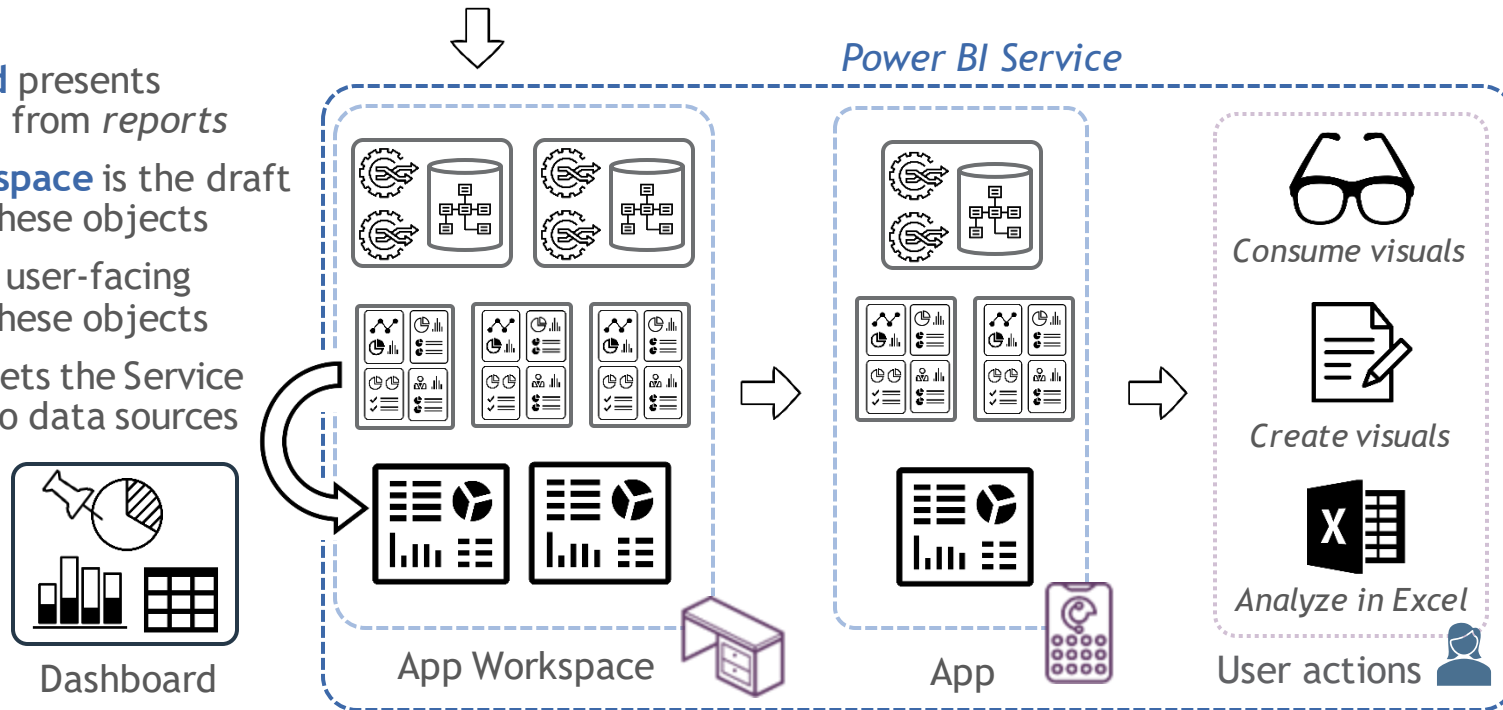Score: 4

Paginated reporting now integrated with Power BI

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Power BI

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Power BI core concepts & workflow

Power BI Desktop

Data Sources

Queries   Model
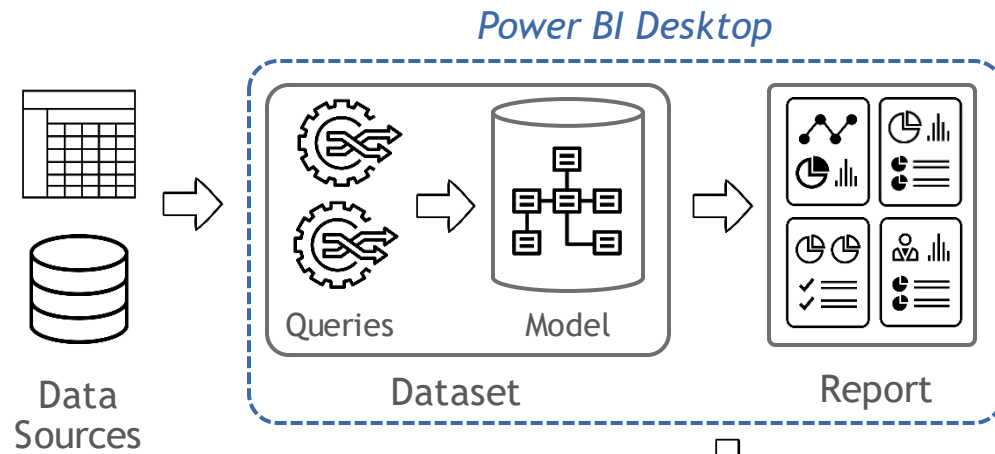
Dataset   Report

- The **Dataset** consists of two object types:
  - The **Queries** are definitions of how to extract and transform *data sources*, accessed via *connectors*
  - The **Model** is a definition of *tables*, *relationships*, *columns*, and *measures*
- The **Report** presents data from the *dataset* on one or more *pages* of *visuals*
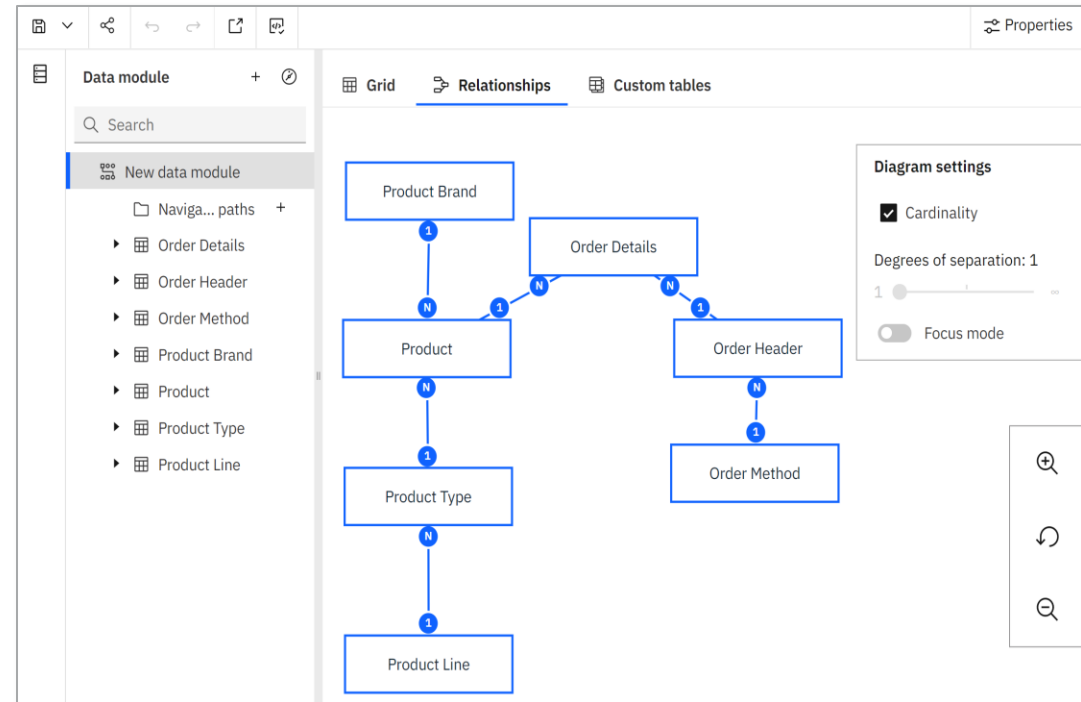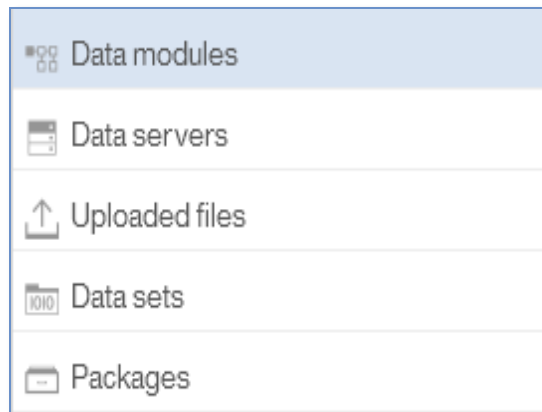
- The **Dashboard** presents *visuals*, pinned from *reports*
- The **App Workspace** is the draft container for these objects
- The **App** is the user-facing container for these objects
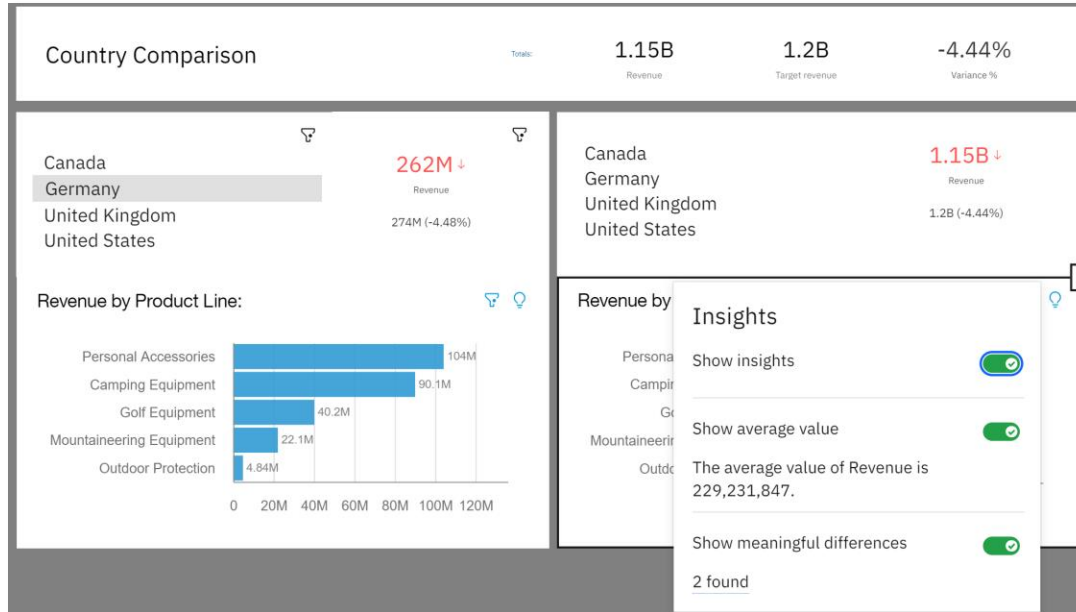- The **Gateway** lets the Service connect back to data sources

Dashboard

Power BI Service

App Workspace

App

Consume visuals

Create visuals

Analyze in Excel

User actions

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Cognos

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Cognos data module flow

Cognos dashboard

Tableau

Tableau products

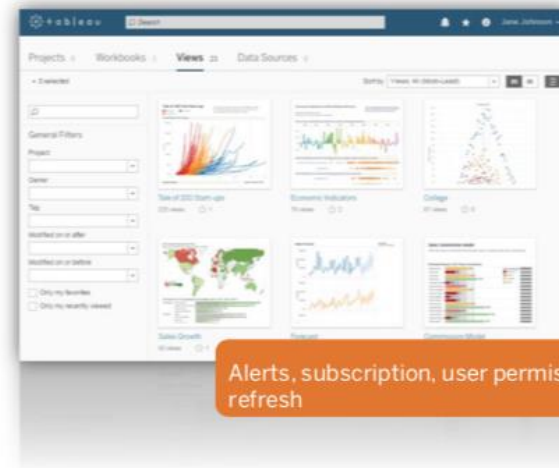
Tableau Server
For collaboration, automation and governance

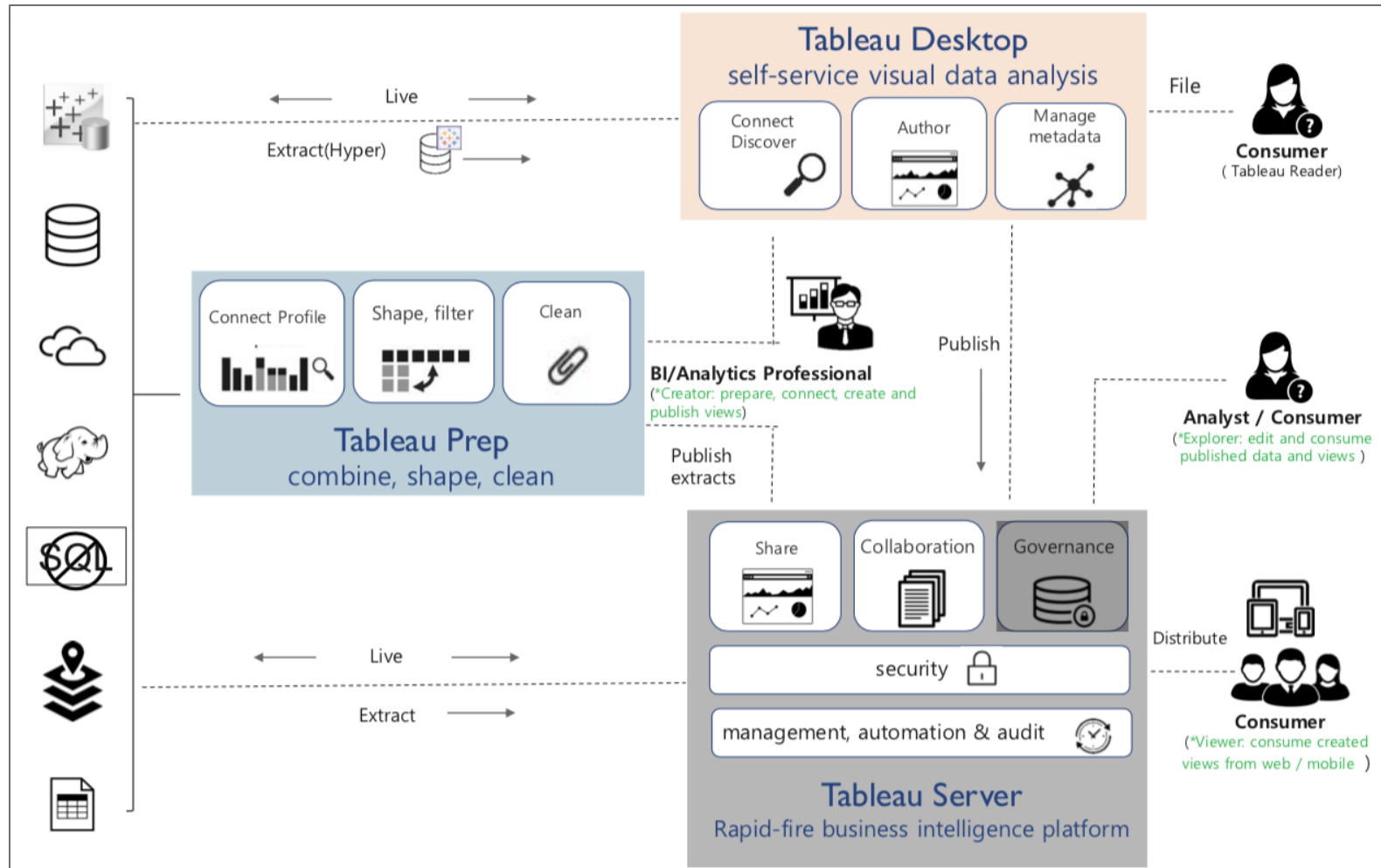Alerts, subscription, user permission, data refresh

Tableau Desktop
For authoring

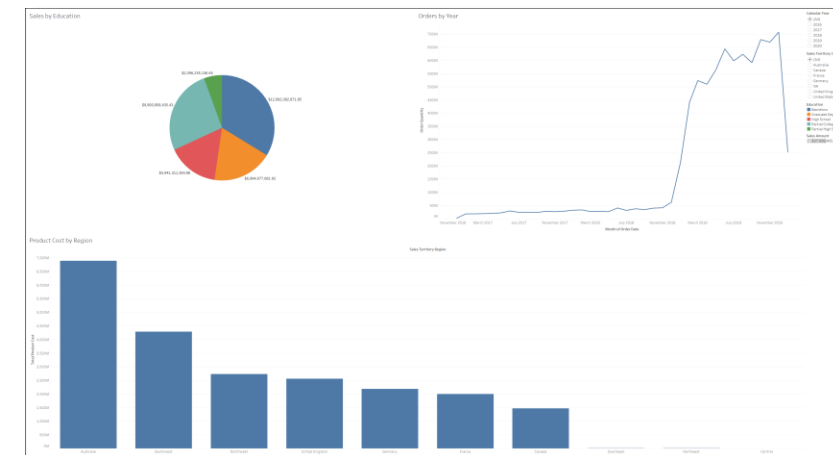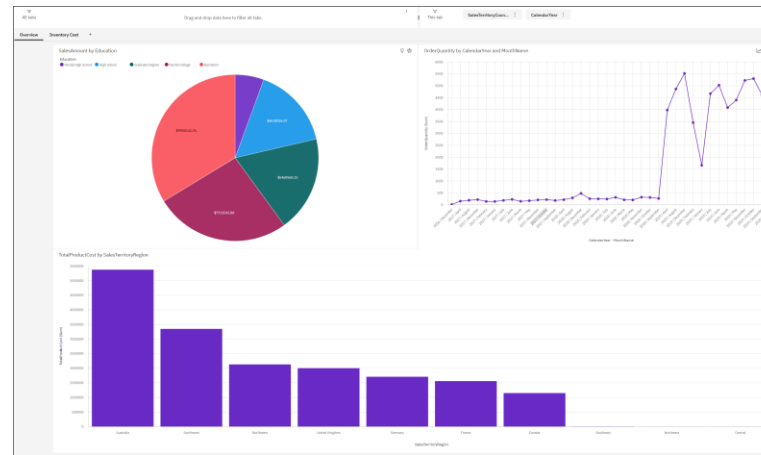Tableau Prep
For data preparation

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Tableau ecosystem

Tableau Desktop
self-service visual data analysis

Connect Discover

Author

Manage metadata

File

Consumer
(Tableau Reader)

Live

Extract(Hyper)

Tableau Prep
combine, shape, clean

Connect Profile

Shape, filter

Clean

BI/Analytics Professional
(*Creator: prepare, connect, create and publish views)

Publish

Publish extracts

Analyst / Consumer
(*Explorer: edit and consume published data and views)

Tableau Server
Rapid-fire business intelligence platform

Share

Collaboration

Governance

security

management, automation & audit

Distribute

Consumer
(*Viewer: consume created views from web / mobile)

Live

Extract

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Demos

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Three tools, same dataset
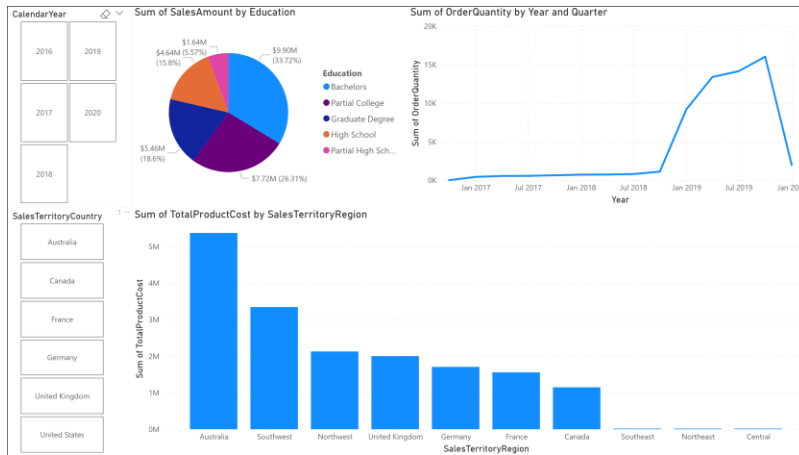
Comparison central

Coming: comprehensive comparison matrix

	Cognos	Power BI	Tableau
Relational/ dimensional data sources	Excellent	Excellent	Excellent
OLAP/Cube Data sources	Excellent	Excellent Power BI tightly integrates with Analysis Services and can integrate with other OLAP /cube data sources.	Moderate Certain Tableau features are unavailable when working with Cube data sources. No specific Analysis Services Tabular connector.
Web-/API- based data sources The ability to import and transform data directly from SaaS systems via API.	Good	Excellent	Excellent

- Data Wrangling Comparison: Power BI, Cognos & Tableau

- Data Preparation: Power BI vs. Cognos vs. Tableau

- 5 Areas Power BI Outshines Tableau

- Data Modeling Comparison: Power BI, Tableau & Cognos

- Comparing the AI Features in Power BI, Tableau & Cognos

https://senturus.com/topic/cross-vendor-comparisons/

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Additional resources

Unbiased product reviews

Technical tips

Insider viewpoints

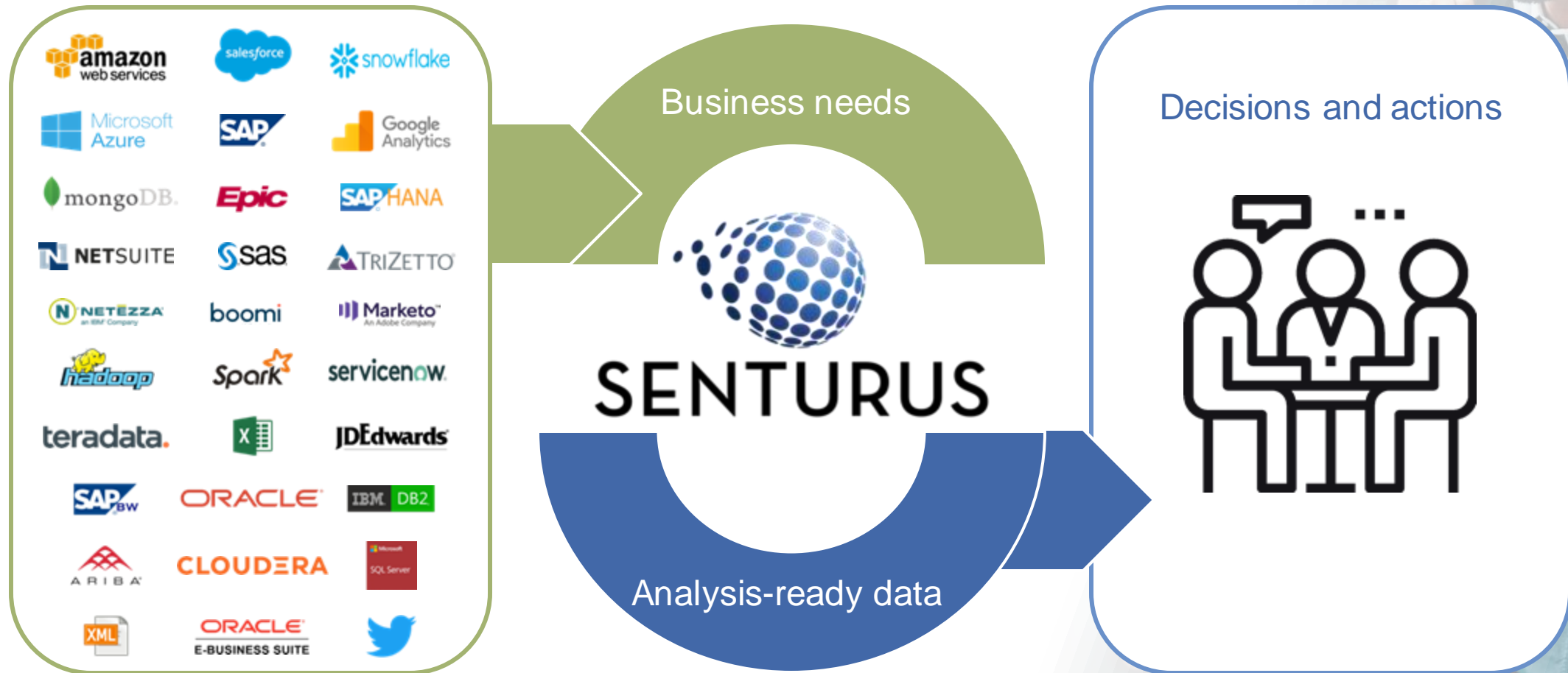**More on this subject**

Product demos
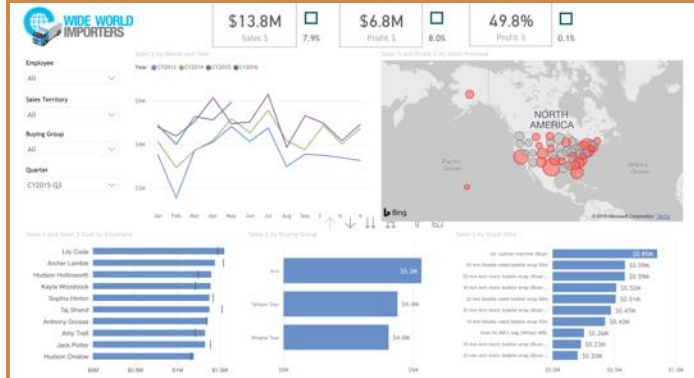
Upcoming events

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Upcoming event

Tips for Installing Cognos 11.2.4

Thursday, Feb 9, 11am PT/2pm ET

Register: https://senturus.com/events/tips-for-installing-cognos-11-2-4/

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22 years

1350+ clients

3000+ projects

Join the Senturus team

We're hiring talented and experienced professionals

- Senior Data Warehouse/Cognos BI Consultant
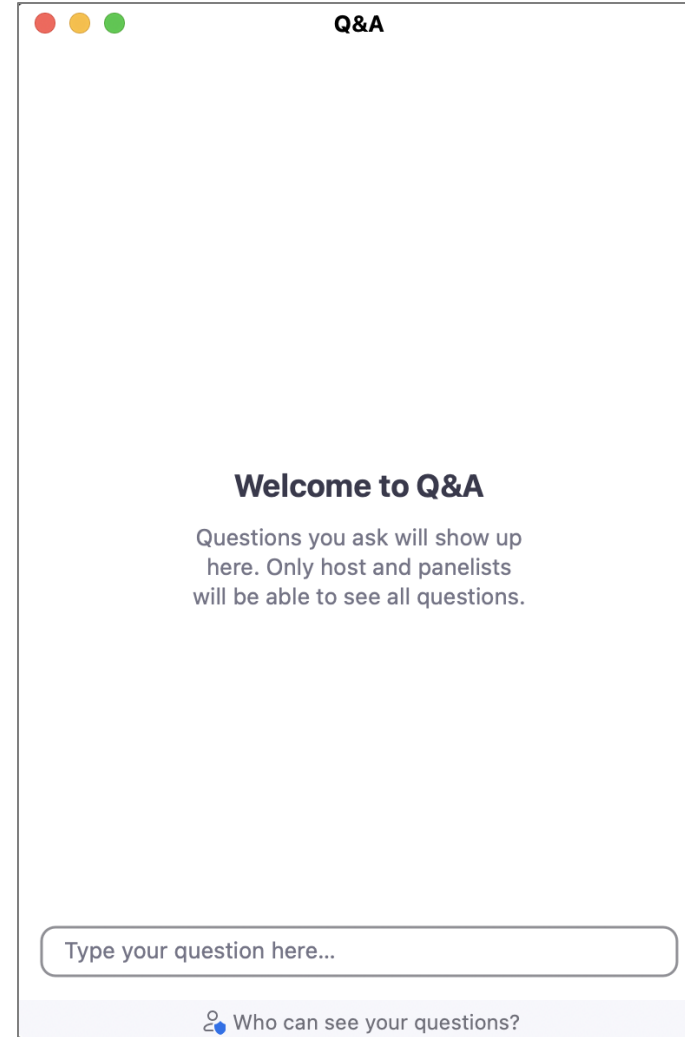- Senior Microsoft BI Consultant

See job descriptions: https://senturus.com/why-senturus/careers/
Send your resume to: jobs@senturus.com

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Q & A

If your question or issue is broader than what we are able to answer today, contact us at:

info@senturus.com

and we will set up a free consultation.

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Thank You