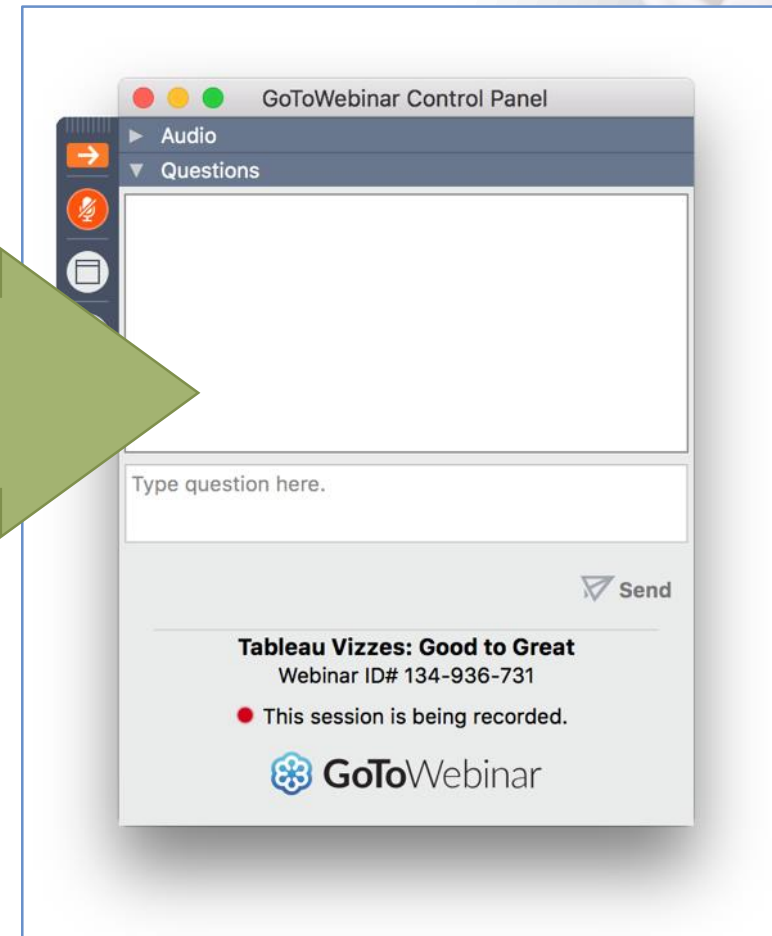


# GoToWebinar control panel

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### Topics


- Analytics Connector
- Cross Vendor Comparisons
- Dashboards Reporting & Visualizations
- Data & Cloud Architecture
- Data Prep & Modeling
- Deployments & Performance Optimization
- IBM Analytics & Cognos
- Microsoft Azure & Power BI
- Security, governance & administration
- Snowflake
- Tableau




**Webinar**  
**6 Ways to Publish & Share Tableau Dashboards**  
How-to demo and discussion of pros, cons and considerations




**Webinar**  
**How to Successfully Implement Self-Service Analytics**  
Agile, governed self-service BI with a focus on Cognos analytics




**Webinar**  
**Creating a Power BI Report Your Boss Can Navigate**  
How to design a user-friendly nav experience



**Webinar**  
**Power BI Report Builder & Paginated Reports**  
Creating pixel-perfect reports for printing and PDF



**Webinar**  
**Using Python with Power BI**  
Learn the basics, including the software and plotting libraries



**Webinar**  
**Streamline Cognos Migrations and Consolidations**  
Automatically decode Cognos content and reduce migration time by 90%

# Agenda

Introductions

How we got here / BI complexity

What we have heard, seen, and learned

Focus on metrics

What we recommend

Senturus overview and additional resources

Q&A



# Introductions



**Peter Jogopulos**

Senior Consultant  
Senturus, Inc.



**Scott Felten**

Managing Director  
Senturus, Inc.



**Steve Reed Pittman**

Director  
Enterprise Architecture and Engineering  
Senturus, Inc.

# Poll #1

What is your best guess of the total number reports in your environment?

- Less than 500
- 501 – 1000
- 1001 – 2500
- 2501 – 5000
- More than 5000

# Poll #2

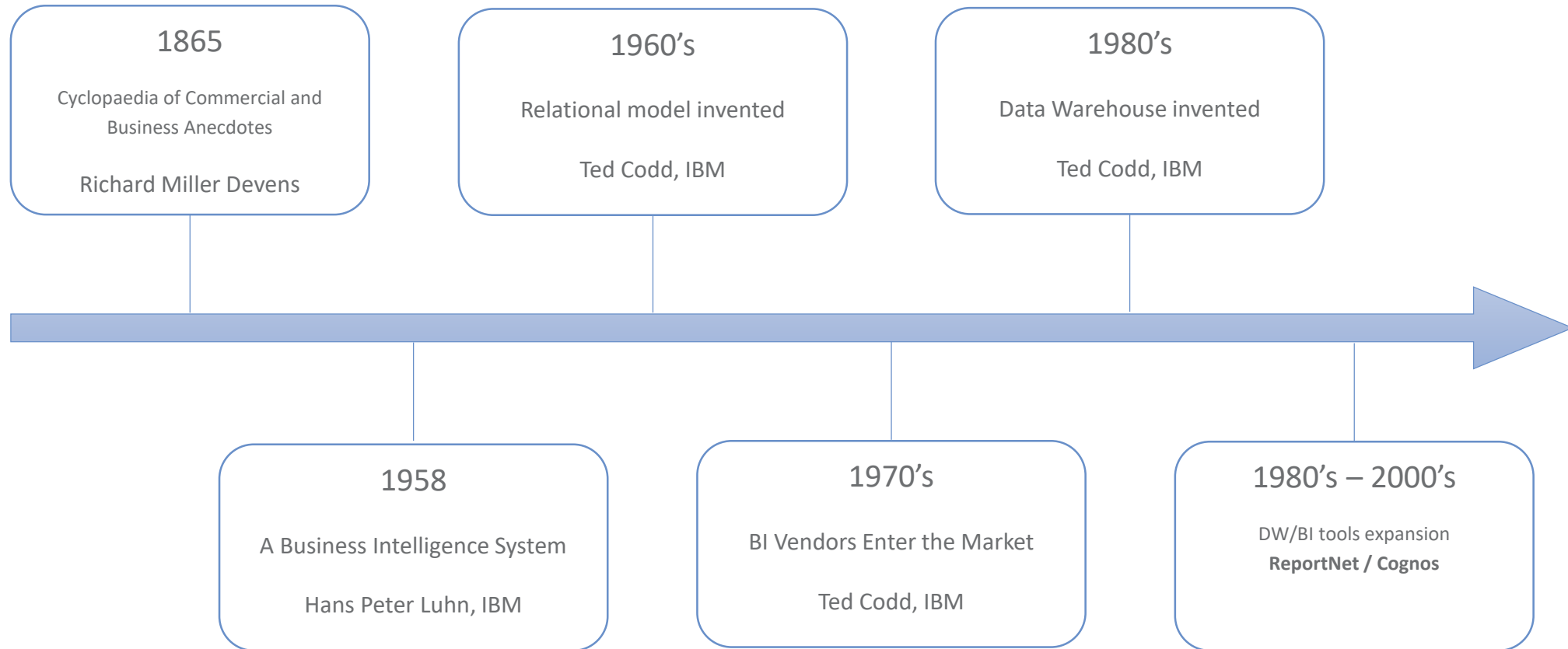
What percentage of your reports are highly complex?

- Less than 1%
- 1% - 5%
- 6% – 25%
- More than 25%
- No idea



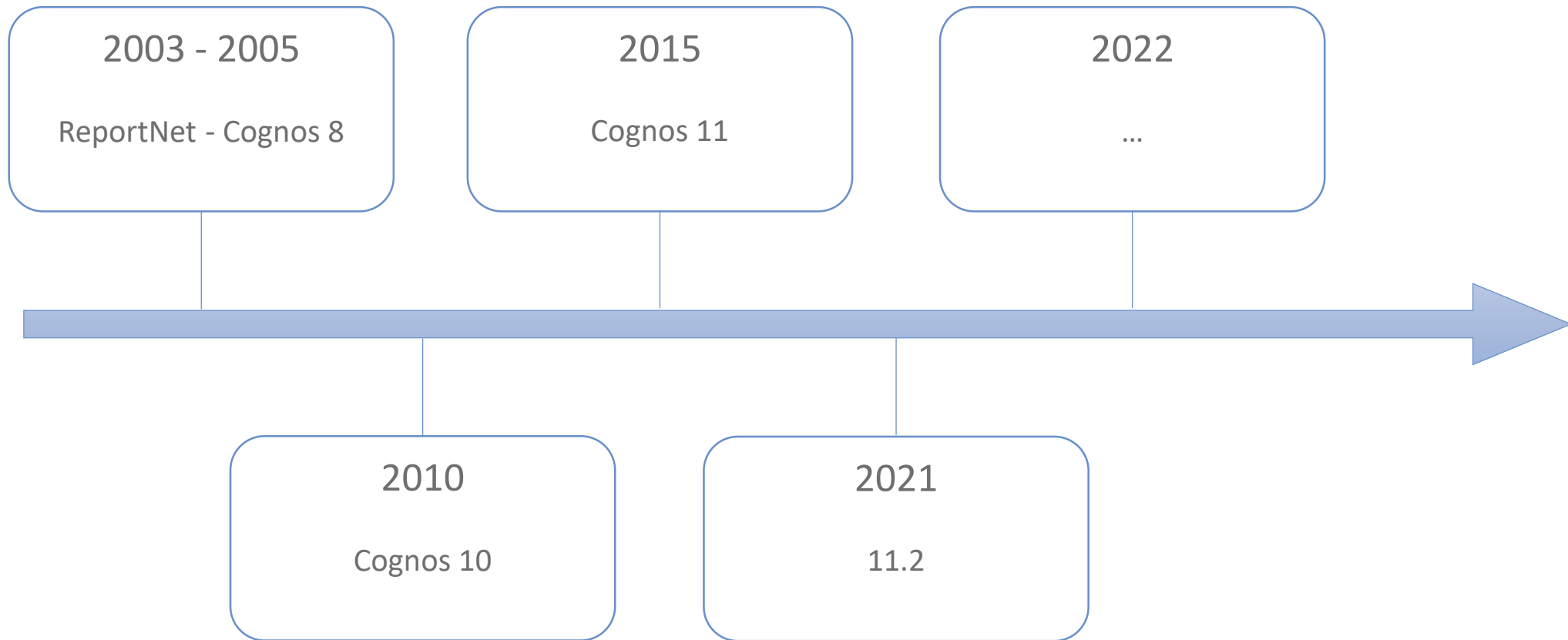
# BI complexity

# How we got here ... 60+ years of BI

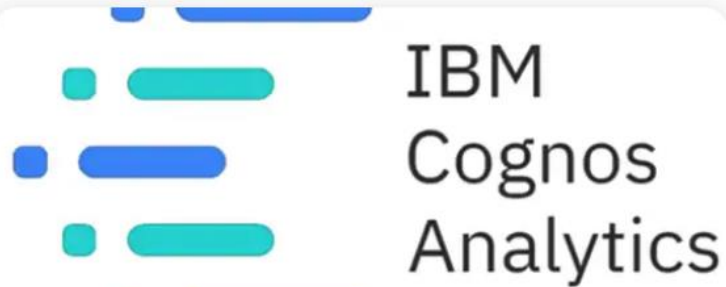




# How we got here ... 60+ years of BI



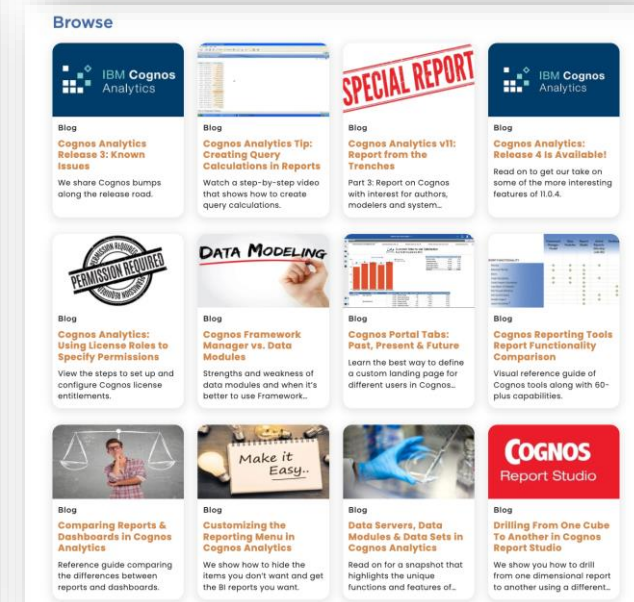
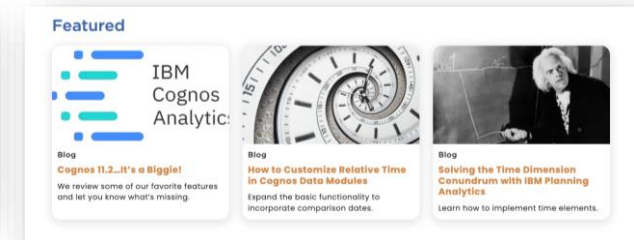
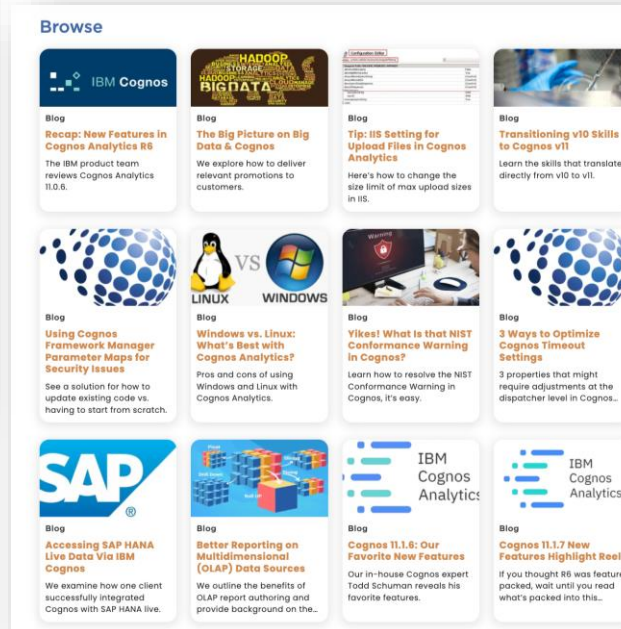
# We know because we have been keeping track



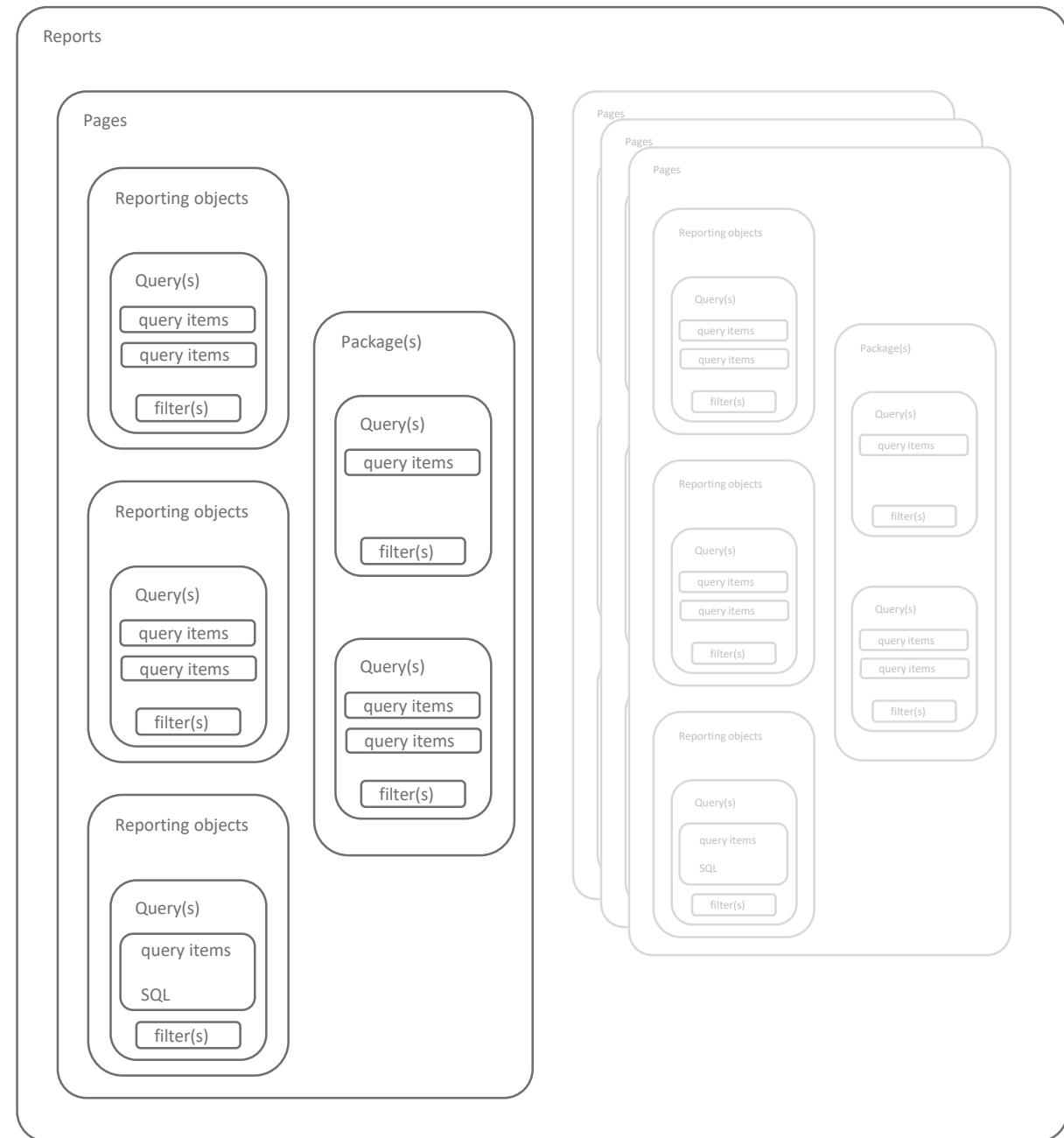
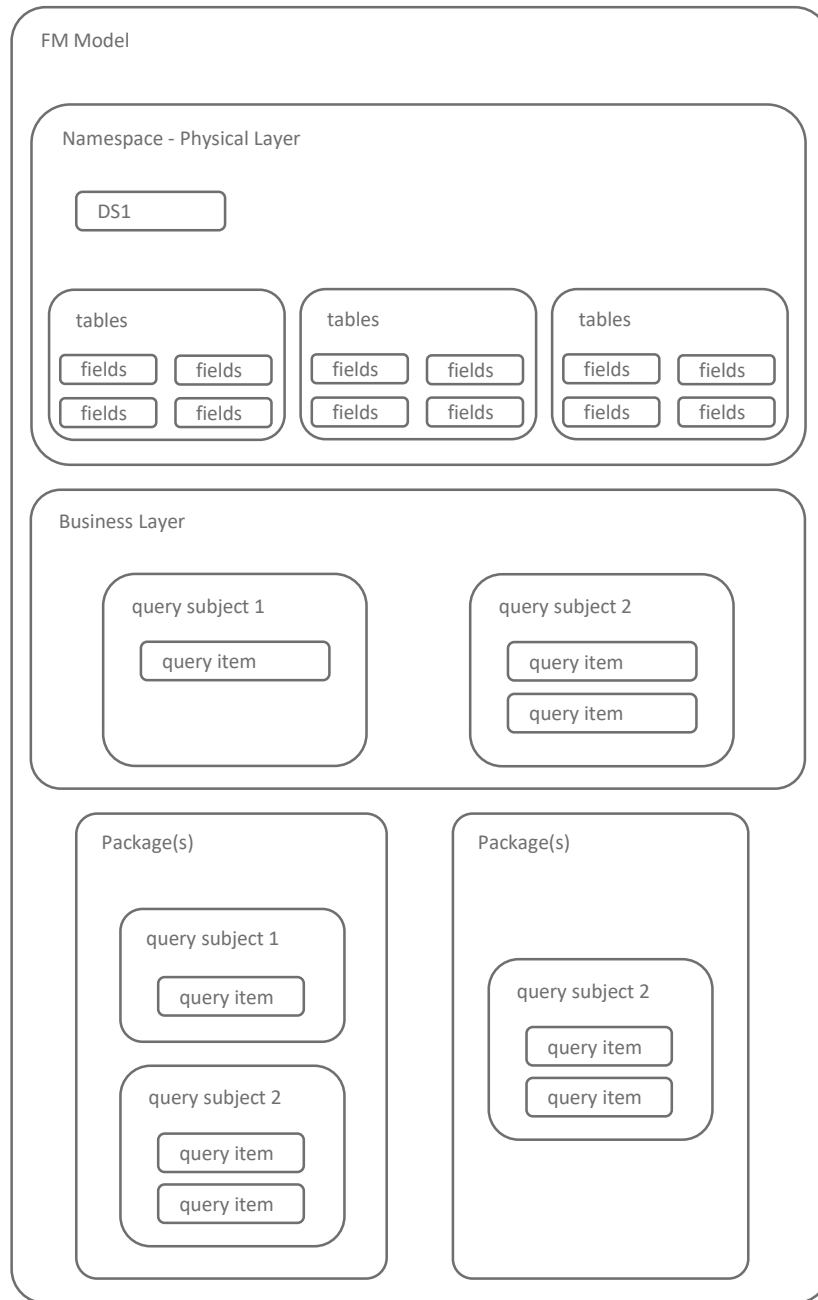
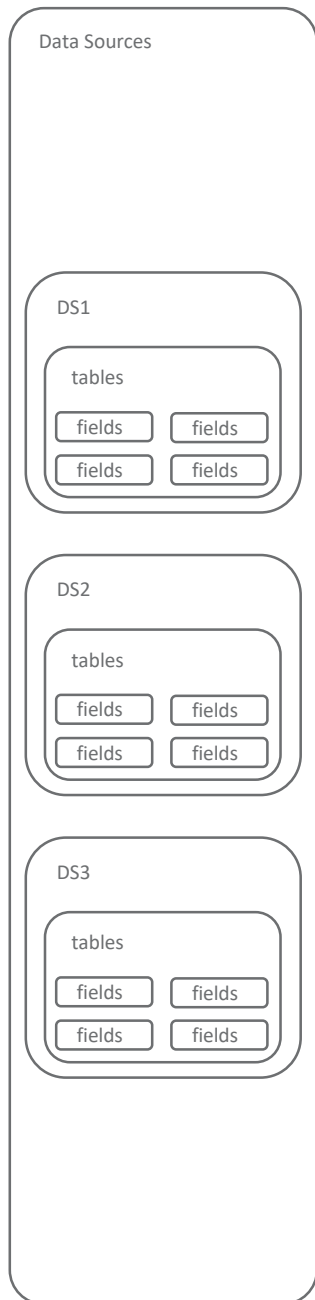
## Blog

### Cognos 11.2...It's a Biggie!

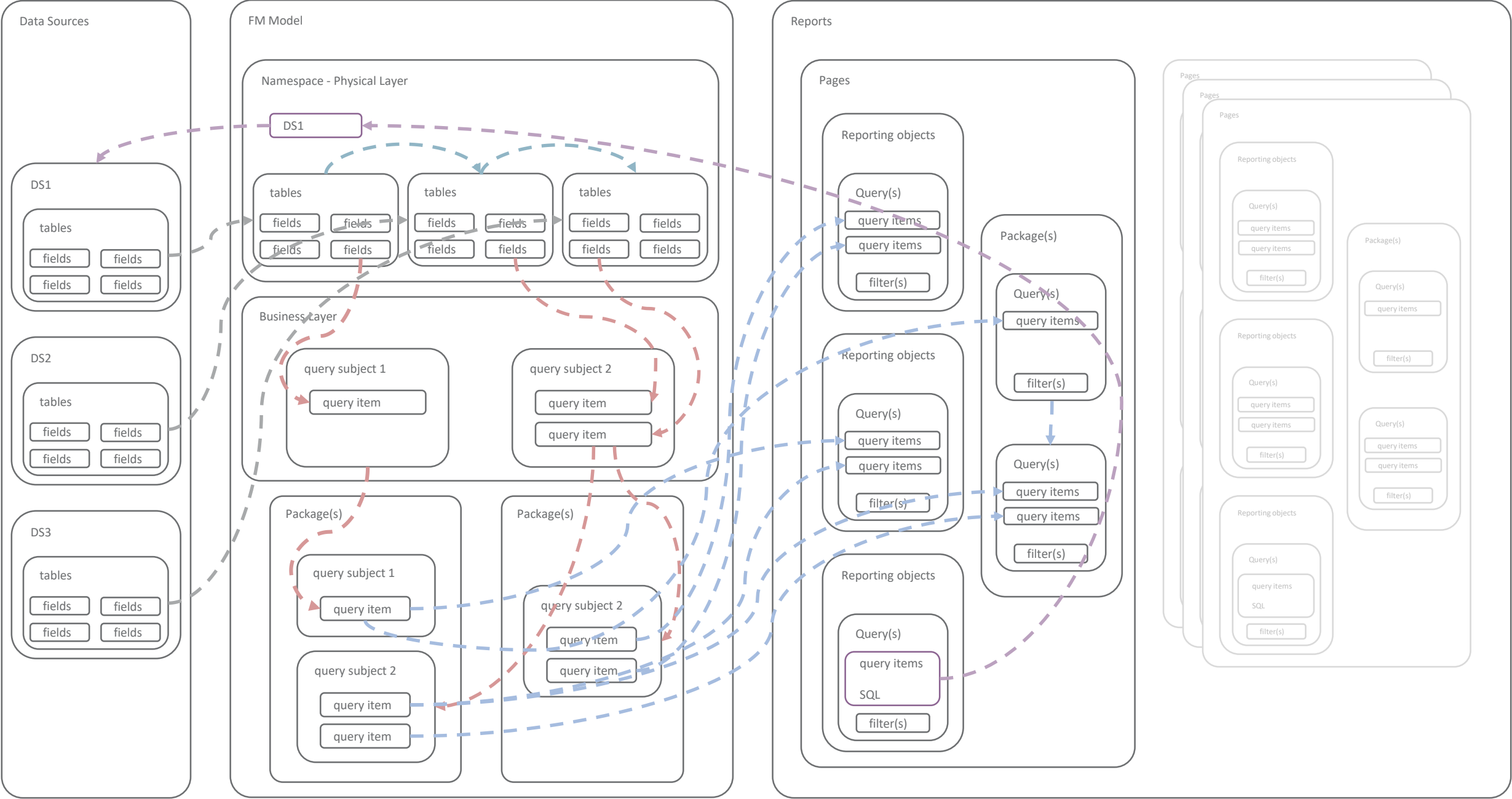
We review some of our favorite features and let you know what's missing.



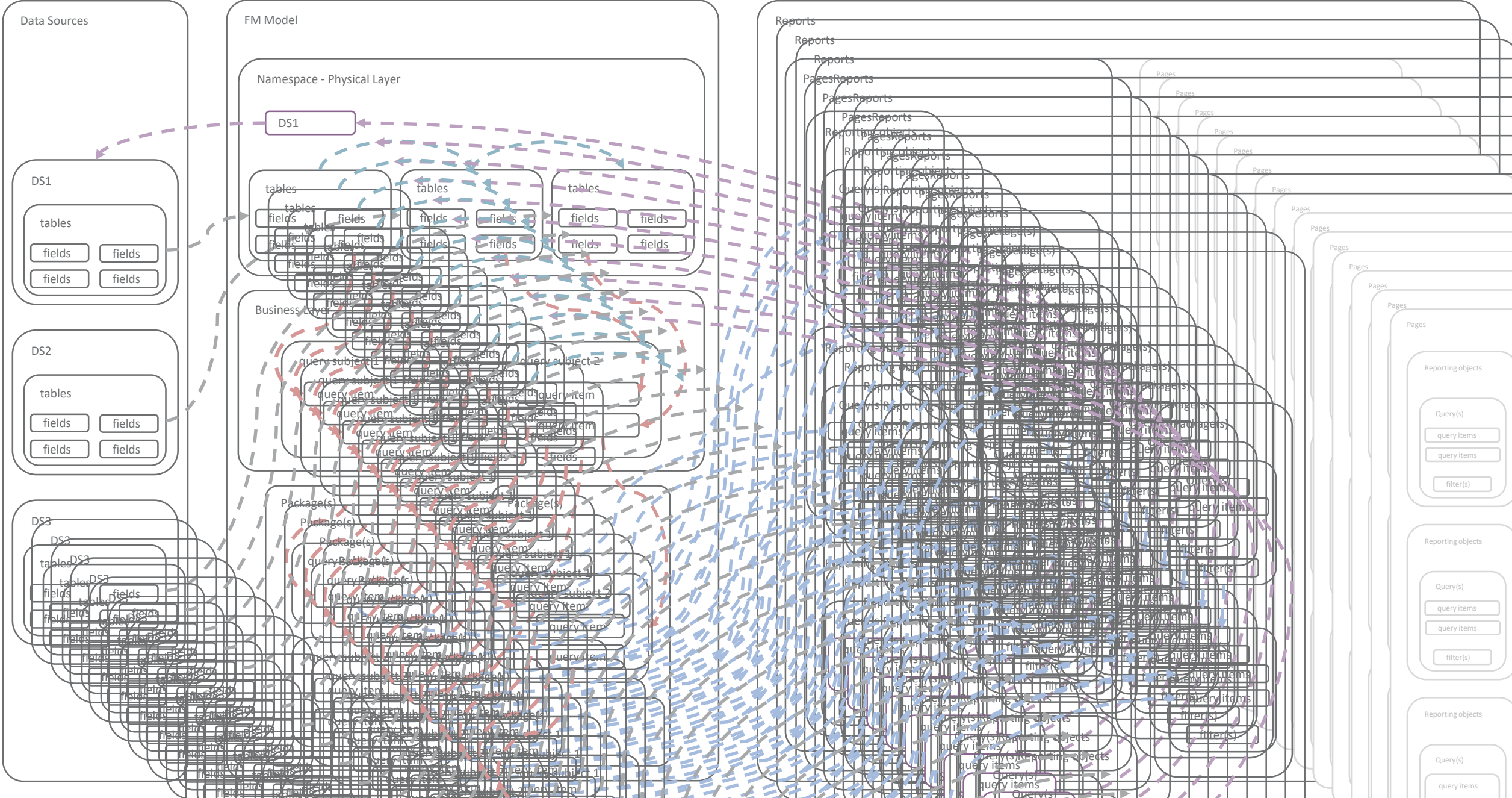
# Cognos Complexity



# Cognos Complexity



# Cognos Complexity





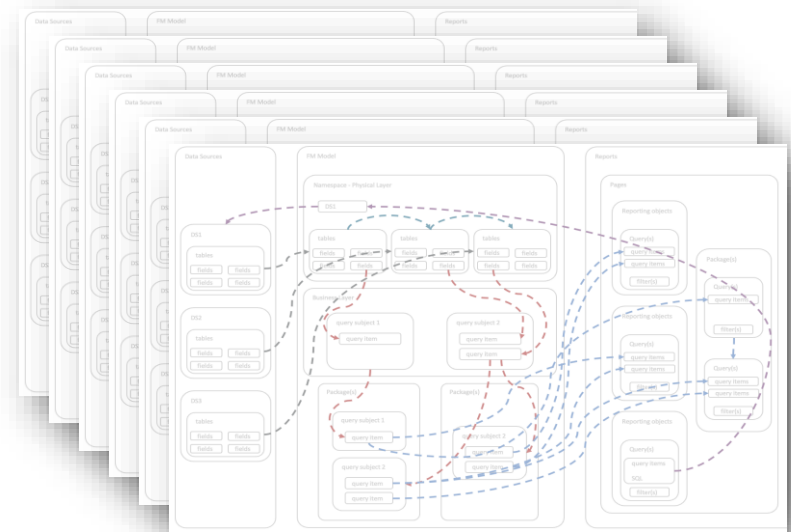
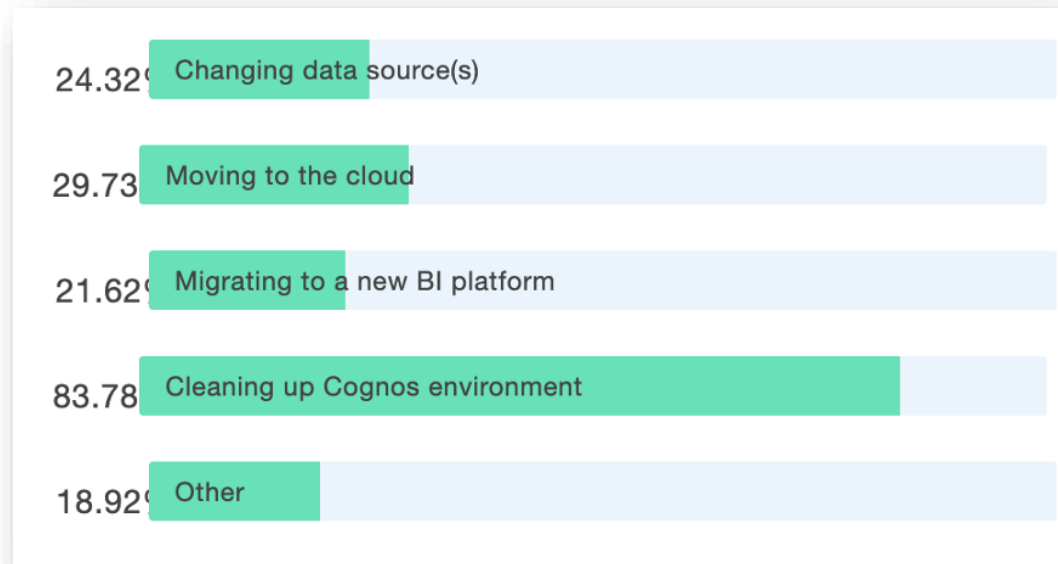
# What we have learned



# What we have heard from you

In a recent webinar we asked:

“What are your goals for Cognos?”





# What we have seen

Package / Model Inventories

10+ to 1,000+

Report Inventories

5,000+ to 100,000+

Report Executions

0+ to 1000+ / per day

Query Subject / Item Counts

1000+ / 25,000+

Report Query / Query Item  
Counts

10,000+ / 100,000+

Migrating / Validating

2+ hrs. to 80 hrs.

*\*per report*

# What we have learned

## Combinatorial Complexity

The combination of source, model and report objects plus the sheer number of reports creates daunting numbers of possibilities.

When you add the business logic between them the numbers are nearly incalculable.

## Variable Usage Patterns

While some reports are highly popular many are never used at all.

We see between 50% - 95% of report inventories can be ruled out of a project.

## Duplication / Grouping

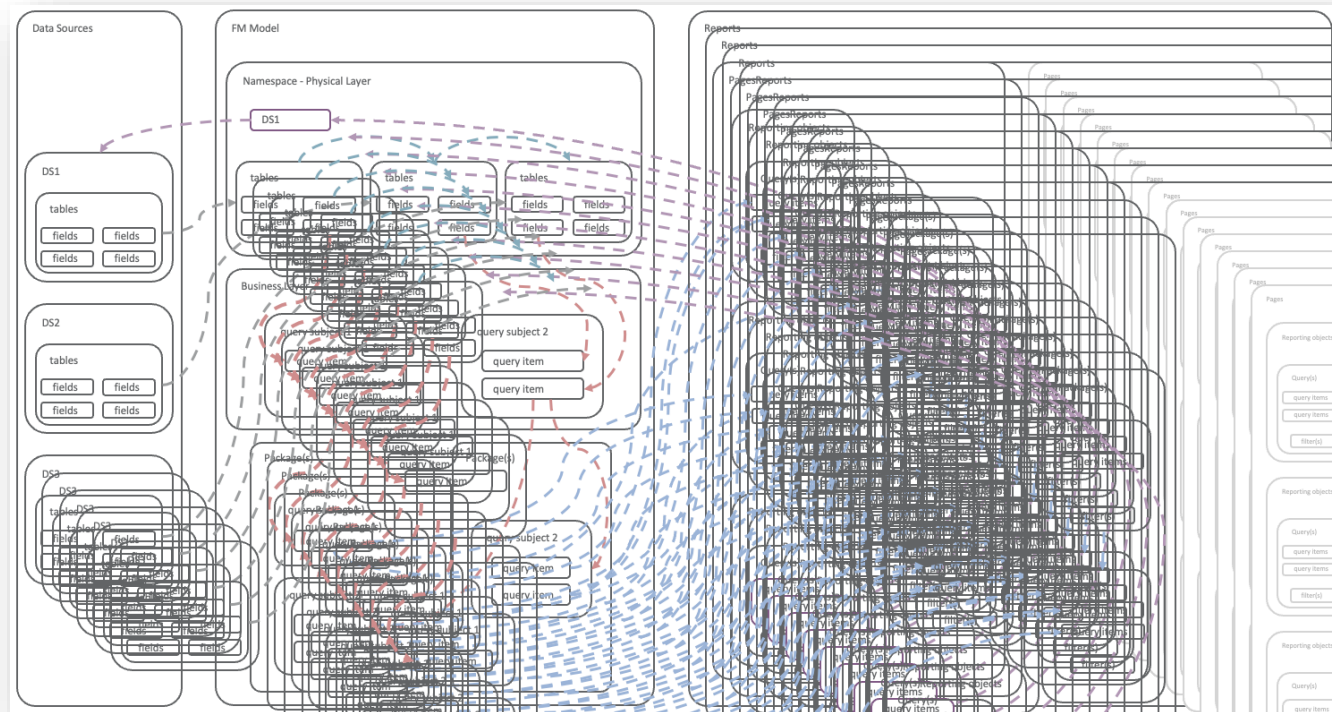
While the combinatorial problem exists, the solution to it is to attack the raw numbers by grouping them into useful categories.

Complexity, Similarity, and Proximity are a few of the most useful.

# Focus on metrics



# Bringing it into focus ...



with the metrics that make the difference

# Report complexity

- Insights into Cognos environment
- Migration plan begins to take shape
- Instant insights into content that is stored within “My Folders”

Report Complexity

Content Store  
☐ Cognos11\_CS\_2020-01-14T21-23Z

My Folders?  
☐ No  
☐ Yes

MIGRATION ASSISTANT

Execution data from 1/1/2021 - 5/13/2022

Report Name	Report Complexity Score	Total Report Executions	Total Unique Executions	Referenced by Report Views	Execution Average Milliseconds	Report Path
Report Insights (by Package)	208	283	4	0	509	/ > Team Content > Report Insights > Report Insights (by
Table Relationship Drill	58	183	3	0	429	/ > Team Content > Report Insights > Content and FM Re
Report Catalog	79	114	4	0	1,189	/ > Team Content > Report Insights > Report Catalog
Lineage	68	72	1	0	685	/ > Directory > Azure AD > Todd Schuman > My Folders >
Parameter Report	36	64	3	0	315	/ > Team Content > Analytics Connector > Parameter Rep
Lineage Drill	47	43	3	0	558	/ > Team Content > Report Insights > Content and FM Re
Crosstab with Prompt Page	59	38	1	0	1,177	/ > Team Content > Samples > Cognos Report Type Sam
Report Insights - Drill Target	151	36	4	0	434	/ > Team Content > Report Insights > Content and FM Re
Setting the _as_of_date global parameter	43	36	1	0	1,812	/ > Directory > Azure AD > Pedro Ining > My Folders > KF
New report	29	35	1	0	483	/ > Directory > Azure AD > Todd Schuman > My Folders >
Named Report 1	24	22	2	2	507	/ > Team Content > Migration Assistant > Test Cases > R
Content Item Details	107	20	2	0	1,862	/ > Team Content > Cognos Audit Extension > Content Al
Setting the _as_of_date global parameter	40	20	1	0	2,999	/ > Team Content > My Folder > Pedro > WLGore > Relat
Execute reports by package and report	91	19	2	0	10,032	/ > Team Content > Samples_Audit > Audit > Execute rep
List with Prompt	45	17	2	0	2,796	/ > Team Content > Samples > Cognos Report Type Sam
Execution history by user	74	16	2	0	27,944	/ > Team Content > Samples_Audit > Audit > Execution h
Report Specs (by Package)	208	16	2	0	308	/ > Team Content > Migration Assistant > Report Specs (t
Sample Prompt	34	16	1	0	1,144	/ > Team Content > My Folder > Sample Prompt
Logon operations by time stamp	67	15	2	0	2,486	/ > Team Content > Samples_Audit > Audit > Logon oper
Parameter Report 2	33	12	2	0	1,549	/ > Team Content > Analytics Connector > Parameter Rep

Report Complexity

Content Store  
☐ Cognos11\_CS\_2020-01-14T21-23Z

My Folders?  
☐ No  
☒ Yes

MIGRATION ASSISTANT

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# Model complexity

- Insight into FM models
- Ability to determine reports by FM model
- Ability to determine usage metrics

**Model Complexity**

Content Store: ☐ Cognos11\_CS\_2020-01-14T2... My Folders?: ☐ No ☐ Yes # of Data Sources: 1 3

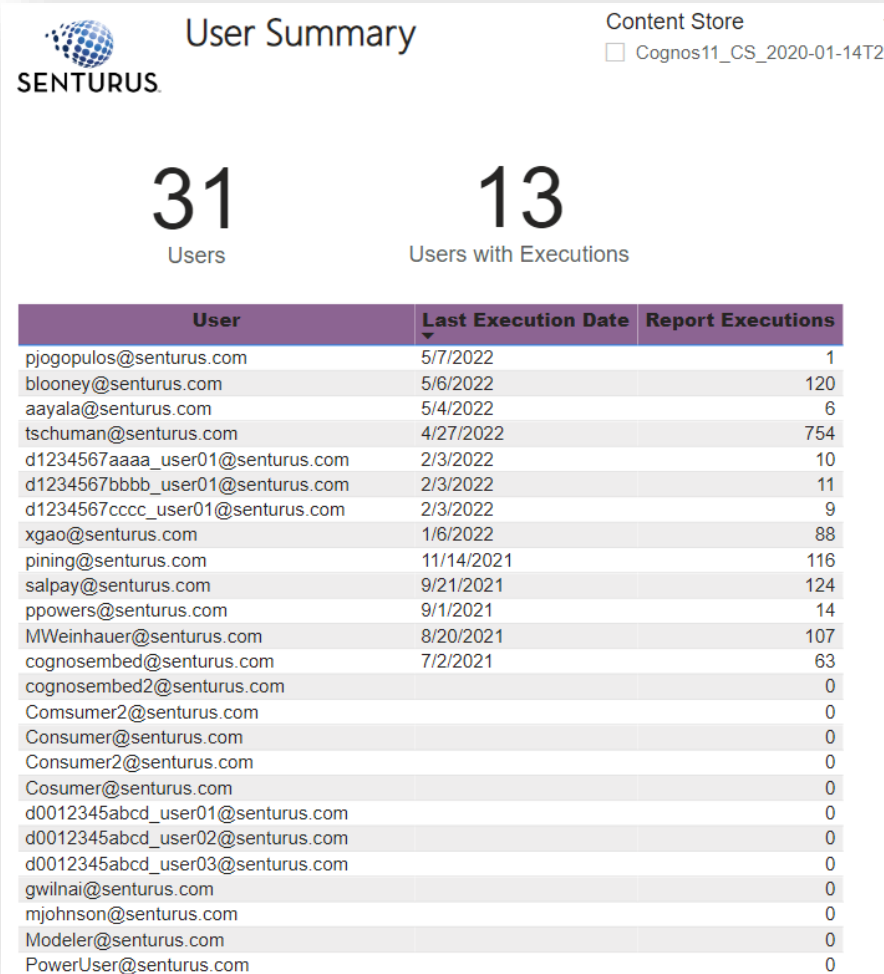
Execution data from 1/1/2021 - 5/13/2022

**24** Models **3** Data Sources **2371** Query Subjects **38K** Query Items **40** Namespaces **318** Associated Report Queries

Package Name	Model Complexity Score	Query Subjects	QS - Database Table	QS - Model Query	Query Items	Data Sources	Report Query References	Report References	Report Executions	Report Unique User Executions
Audit	667	38	24	14	529	1	63	31	115	4
GO Sales (query)	2,268	106	36	70	1,906	3	43	20	90	4
GO Data Warehouse (simple)	274	13	5	8	201	2	8	5	56	2
Migration Assistant	423	45	15	30	267	1	39	27	50	3
Cognos Audit Extension	1,417	124	96	24	1,024	1	61	15	48	2
DEMDemo	53	5	5	0	17	1	1	1	35	1
GO Sales (query)	2,268	106	36	70	1,906	3	18	17	33	4
GO Sales (query)	2,268	106	36	70	1,906	3	5	4	27	2
GO Data Warehouse (analysis)	7,556	381	71	102	6,389	1	24	9	12	2
GO Sales (analysis)	2,654	119	36	31	2,253	3	13	5	7	2
GO Sales (query)	2,268	106	36	70	1,906	3	2	1	4	1
cog_rpt_sp	21	0	0	0	0	1	1	1	2	1
GO Data Warehouse (query)	6,078	328	71	257	5,010	1	26	9	2	2
cog_rpt	243	29	10	19	135	1	2	2	0	0
GO Data Warehouse (query)	6,018	328	71	257	5,010	1	12	6	0	0
GO Sales (analysis)	2,676	121	36	31	2,269	3	0	0	0	0
GO Sales (analysis)	3,213	152	37	63	2,713	3	0	0	0	0
GO Sales (query)	2,268	106	36	70	1,906	3	0	0	0	0
GO Sales (query)	2,214	102	36	66	1,864	3	0	0	0	0
KM Package	289	8	5	3	224	1	0	0	0	0
KMDWH2	273	7	4	3	231	1	0	0	0	0
...	...	...	...	...	...	...	...	...	...	...

# User summary

- Users that accessed Cognos
- Users that run reports and how many times

A screenshot of the 'User Summary' interface. At the top left is the SENTURUS logo. To its right is the title 'User Summary'. Further right is a 'Content Store' dropdown menu showing 'Cognos11\_CS\_2020-01-14T2...'. Below the title, two large numbers are displayed: '31' for 'Users' and '13' for 'Users with Executions'. Below these is a table with three columns: 'User', 'Last Execution Date', and 'Report Executions'. The table lists 25 users with their email addresses, the date of their last report execution, and the number of report executions. The first user, pjogopulos@senturus.com, has 1 execution on 5/7/2022. The second user, blooney@senturus.com, has 120 executions on 5/6/2022. The third user, aayala@senturus.com, has 6 executions on 5/4/2022. The fourth user, tschuman@senturus.com, has 754 executions on 4/27/2022. The remaining 21 users have 0 executions.

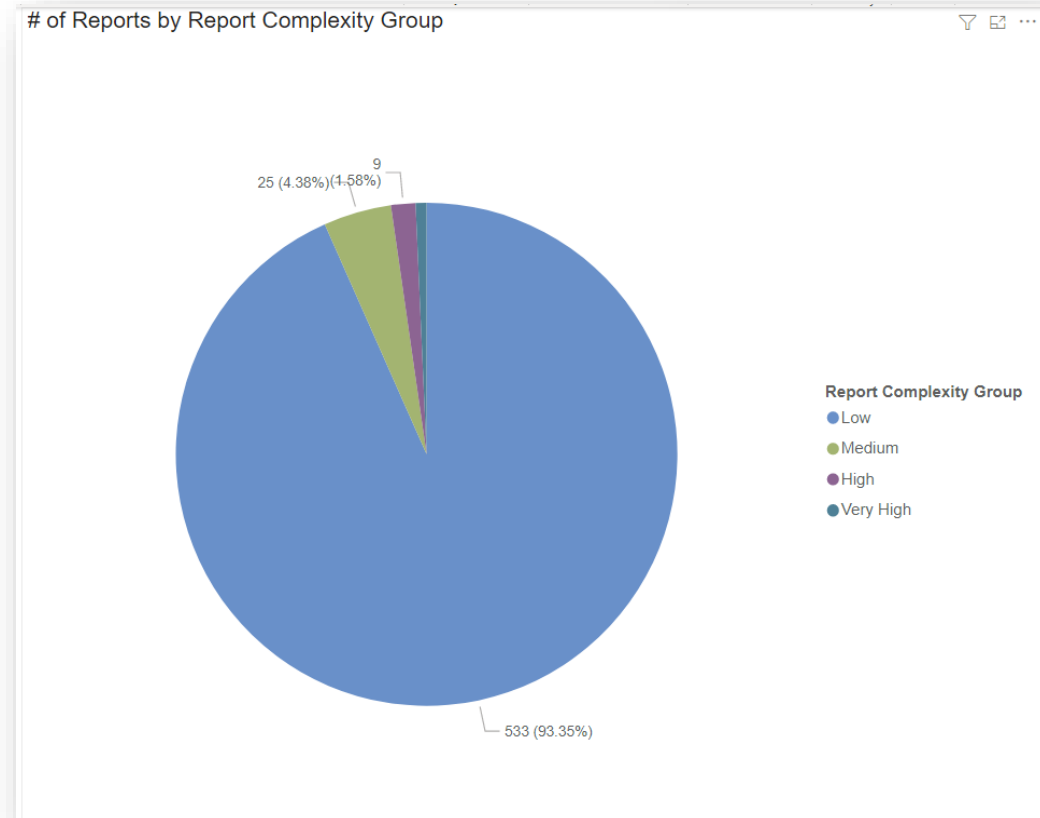
User	Last Execution Date	Report Executions
pjogopulos@senturus.com	5/7/2022	1
blooney@senturus.com	5/6/2022	120
aayala@senturus.com	5/4/2022	6
tschuman@senturus.com	4/27/2022	754
d1234567aaaa_user01@senturus.com	2/3/2022	10
d1234567bbb_user01@senturus.com	2/3/2022	11
d1234567ccc_user01@senturus.com	2/3/2022	9
xgao@senturus.com	1/6/2022	88
pining@senturus.com	11/14/2021	116
salpay@senturus.com	9/21/2021	124
ppowers@senturus.com	9/1/2021	14
MWeinhauer@senturus.com	8/20/2021	107
cognosembd@senturus.com	7/2/2021	63
cognosembd2@senturus.com		0
Comsumer2@senturus.com		0
Consumer@senturus.com		0
Consumer2@senturus.com		0
Cosumer@senturus.com		0
d0012345abcd_user01@senturus.com		0
d0012345abcd_user02@senturus.com		0
d0012345abcd_user03@senturus.com		0
gwilnai@senturus.com		0
mjohnson@senturus.com		0
Modeler@senturus.com		0
PowerUser@senturus.com		0



# Report complexity groups

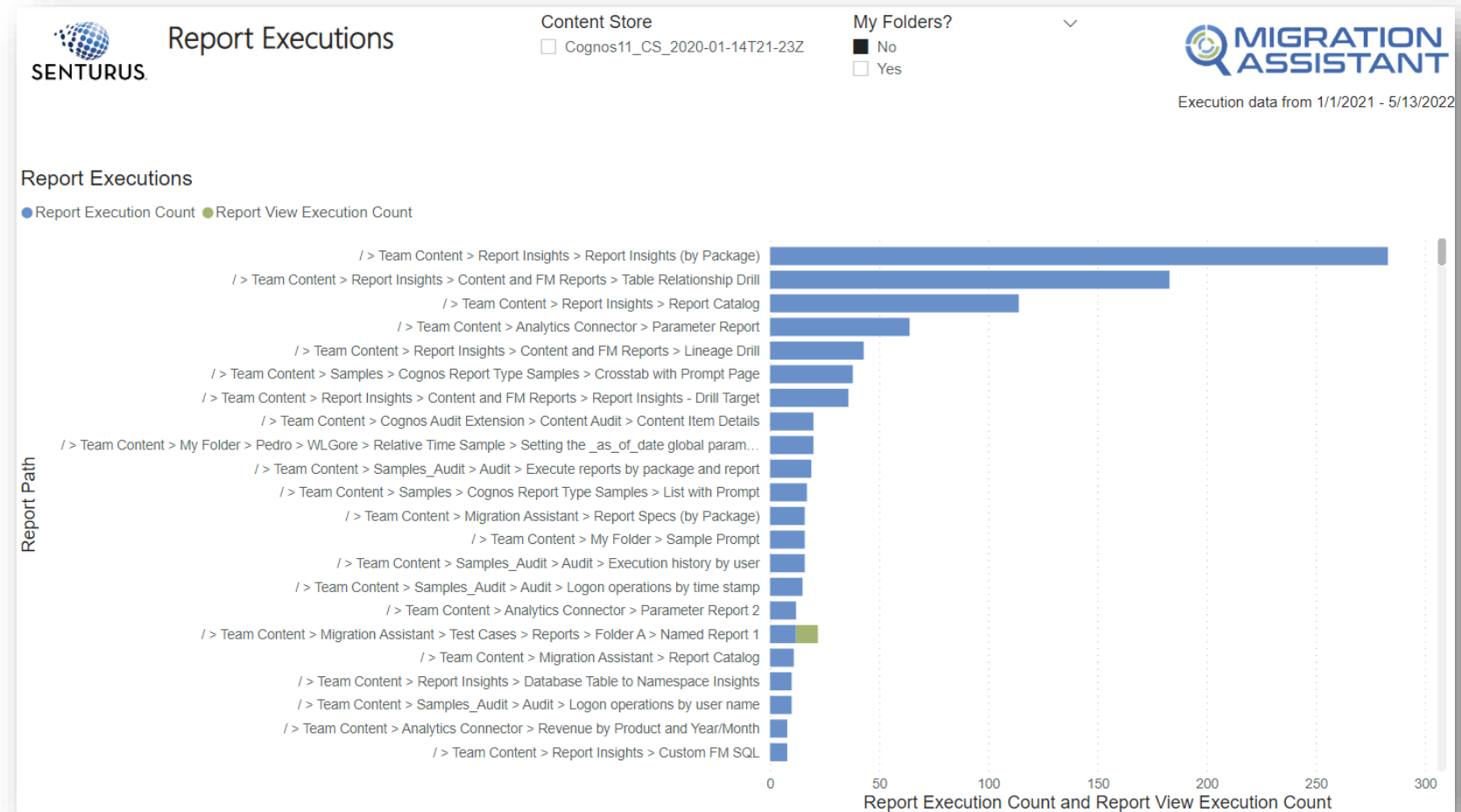
- Breakdown of reports by complexity
- Ability to adjust the scoring mechanisms
- Score based upon report, crosstab, visualizations, queries, etc.

Complexity	Report Complexity Group	# of Reports
1	Low	533
2	Medium	25
3	High	9
4	Very High	4
Total		571



# Report consumption

Insight into reports that are run.



# Model popularity / complexity quadrants

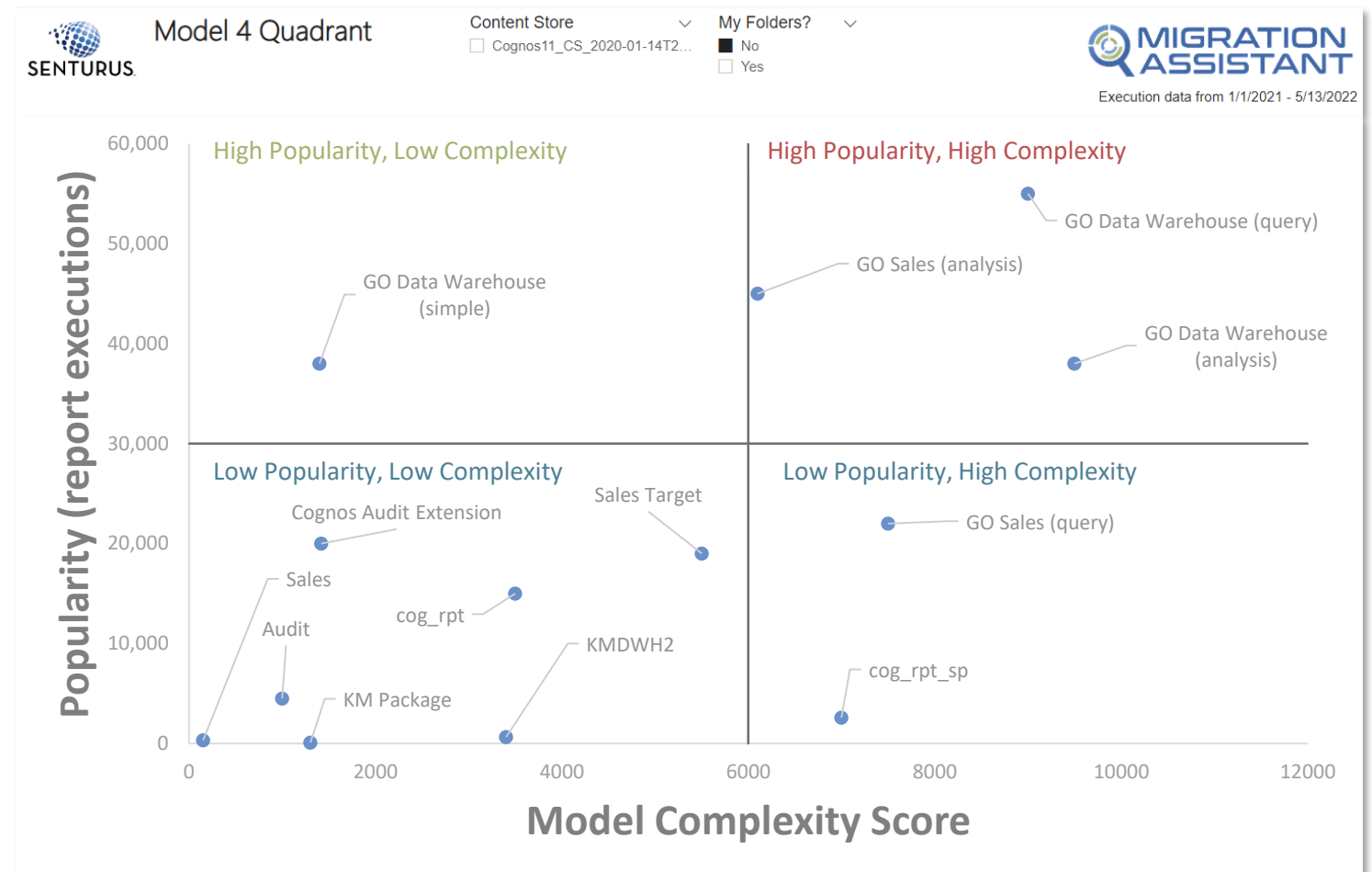
Models by usage and complexity.

Recommendation:

Start with **High Popularity, Low Complexity**,

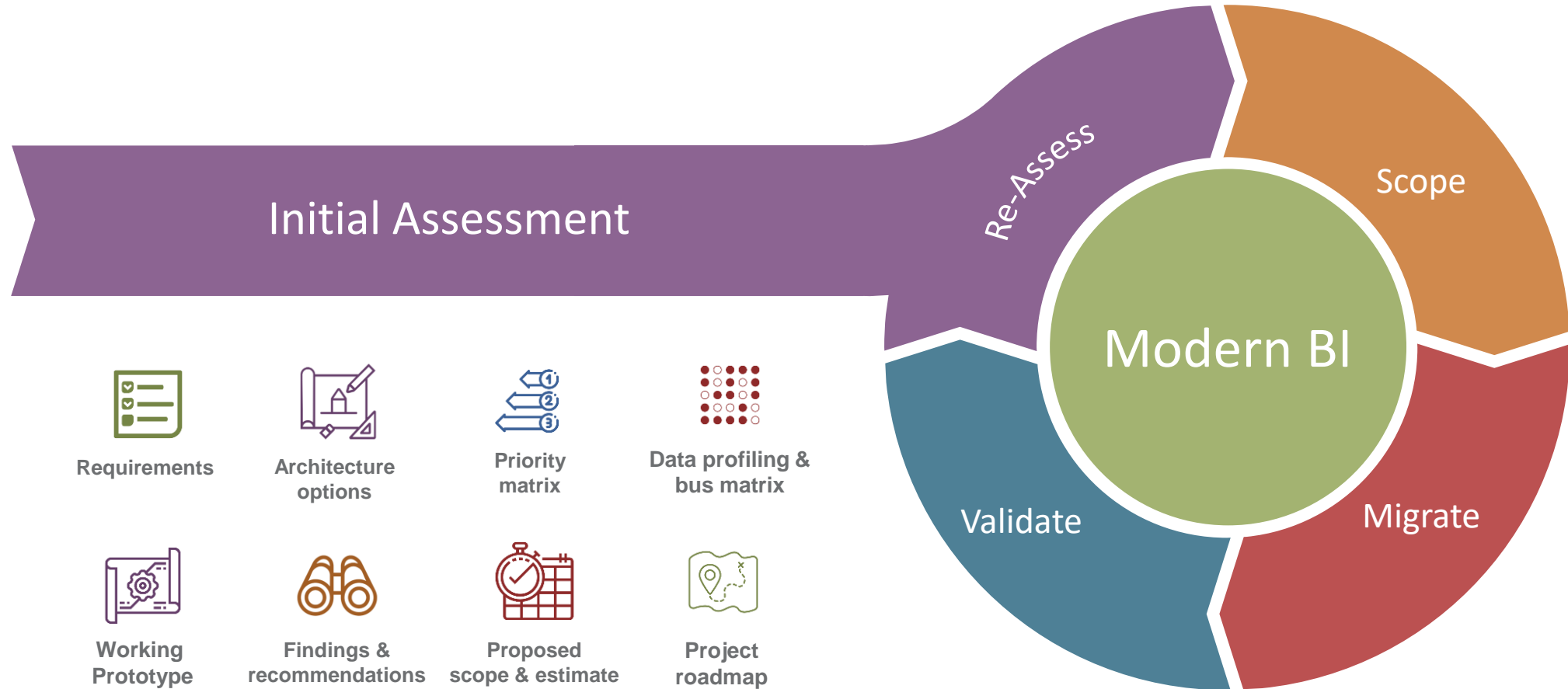
then move onto **High Popularity, High Complexity**,

then move onto both **Low Popularity** quadrants



# What we recommend

# What we recommend



Modernization / Migration Flywheel

# Findings – package popularity & complexity

## Packages

### Popularity

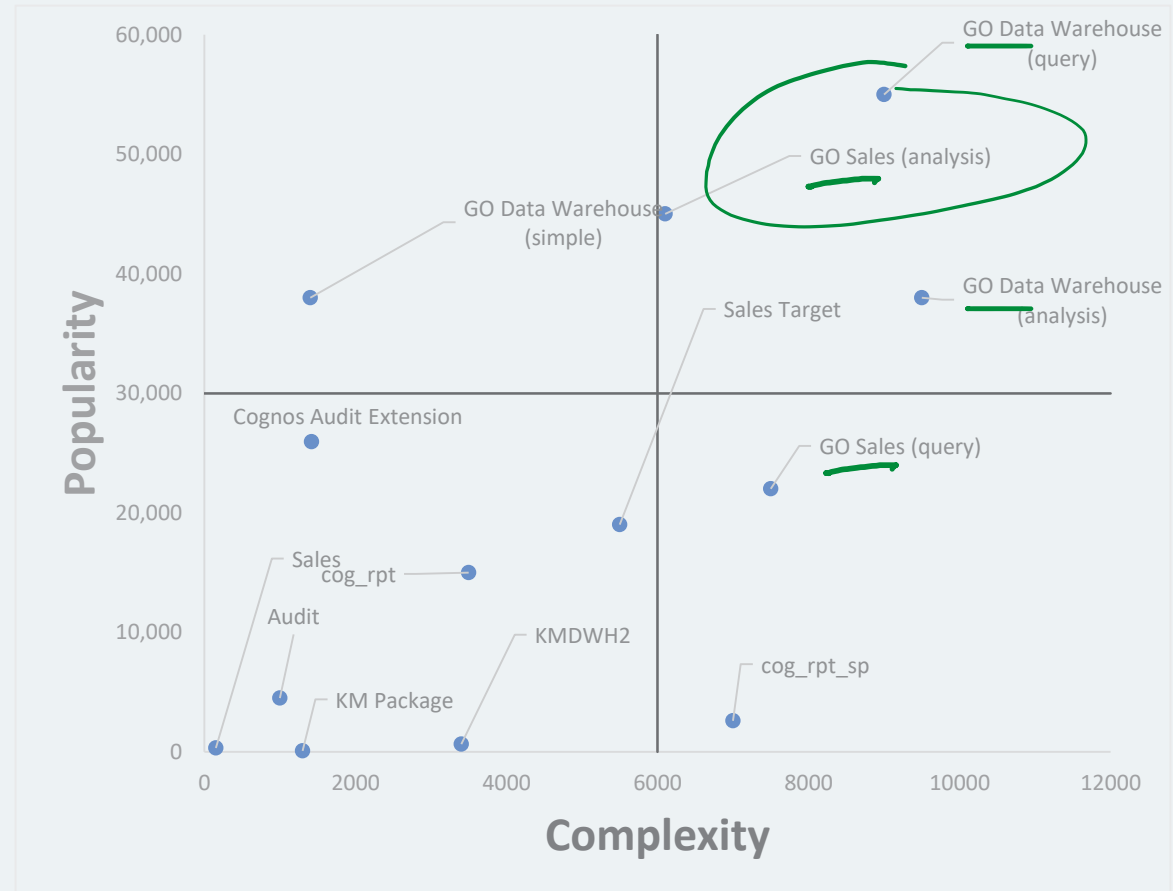
Go Data Warehouse Query is the most popular package

### Complexity

Generally, the Analysis and Query related packages reach the highest levels of complexity.

### Key Findings

Analysis and Query packages are highly popular and complex, implying higher risk and expected effort.



# Migration assessment effort estimate & recommendation matrix

	Manual	Assisted	Augmented	Supported
People	22 Packages / 2406 Reports 5 - 50 Developers 12 - 24 Months	17 Packages / 856 Reports 3 - 30 Developers 12+ Months	13 Packages / 458 Reports 2 - 20 Developers 12 Months	Expert Staffing Services Product Support
Process	Screen Flip Analysis Menu Dive Validation Incremental Dev	Context & Group Analysis Report Metadata Portal Work on Groups of Reports	Expert Efficiency Purpose Built Tools Proven Successful Process	Training Services
Technology	Local Visibility Only Limited by Authoring Tools Long Bimodal Period	Global Visibility Leverage Similarity Leverage Consolidation	Core Engine Customizations Analysis Customizations 3 <sup>rd</sup> Party Software (as needed)	Custom Dev Services



# Additional resources

## Unbiased product reviews



## Technical tips



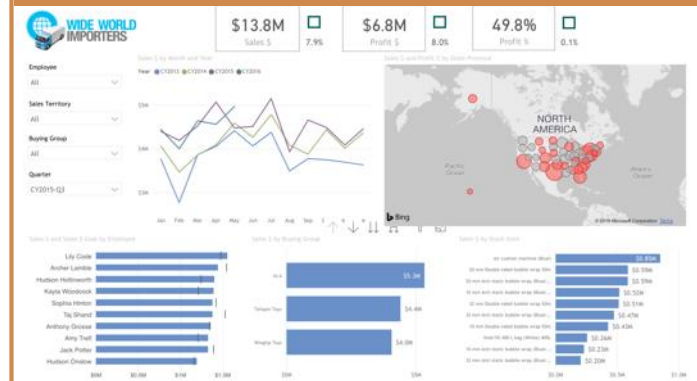
## Insider viewpoints



## More on this subject



## Product demos



## Upcoming events



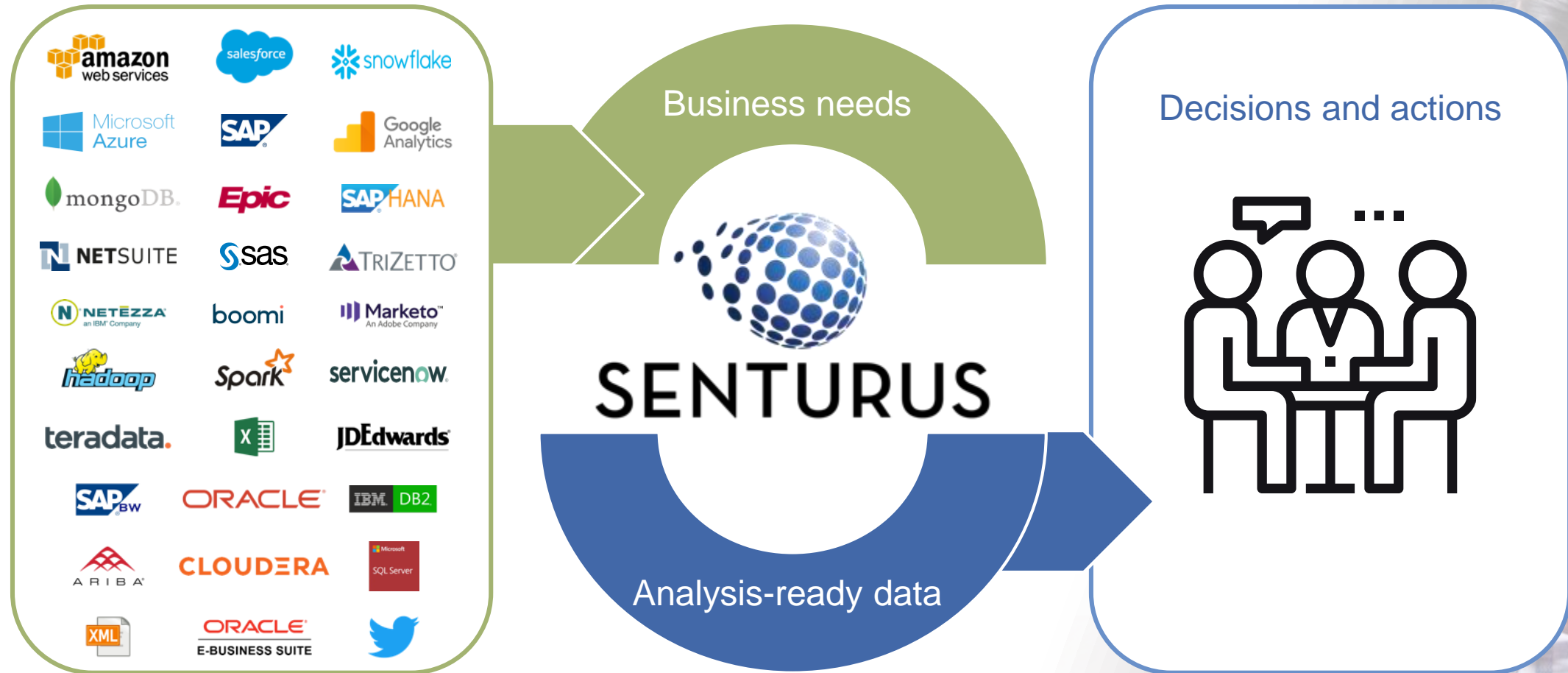
# Upcoming event

## **Good Data Models Lead to Great BI**

Thursday, Jun 23, 2022, 11am PT/2pm ET

<https://senturus.com/events/good-data-models-lead-to-great-self-service/>

# Modern BI: accelerated & accessible





# A long, strong history of success

21+ years

1350+ clients

3000+ projects





# Join the Senturus team

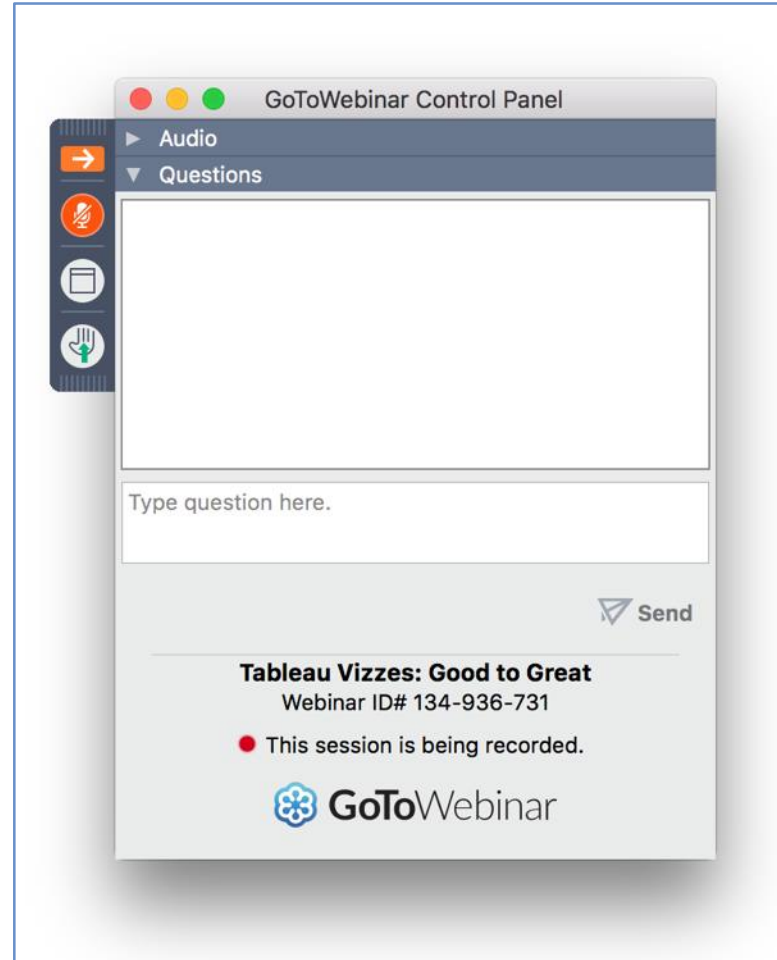
We're hiring talented and experienced professionals

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

See job descriptions: <https://Senturus.com/why-Senturus/careers/>  
Send your resume to: [jobs@Senturus.com](mailto:jobs@Senturus.com)

# Q & A

- If your question or issue is broader than what we are able to answer today, contact us at:
- [info@senturus.com](mailto:info@senturus.com)
- and we will set up a free consultation.



# Thank You



## SENTURUS

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