

# **On the Road(map) Again!**

**Regrouping for your SAP BusinessObjects Future**



# Today's Session

## *Key Topics*

- Roadmap Rehash
- Regrouping
  - Take Stock
  - Unsupported Content?
  - Platform Upgrade
  - Right-Size
  - Universe Upgrade
  - Efficient Management
- Regrouping & APOS
- Q&A – see webinar console

## *Today's Presenters*



**ALLAN PYM**

Chief Operating Officer  
APOS



**ALAN GOLDING**

Solution Consulting Manager  
APOS



**FRED WALTHER**

Senior Solution Consultant  
APOS

## Who is APOS?

- Formed in 1992
- Enabling BI platform management, administration, migration, governance and compliance
- Simplifying, automating, extending SAP BusinessObjects and SAP Analytics Cloud
- Strategic SDK development and consulting
- Hundreds of customers globally



# APOS



**SAP  
BusinessObjects**



**Hybrid BI**



**SAP  
Analytics Cloud**



## HOUSEKEEPING



You will have  
access to the  
**slides** via  
email



You will get  
the **recording**  
within 24  
hours



Tell us how  
we did in the  
**survey**

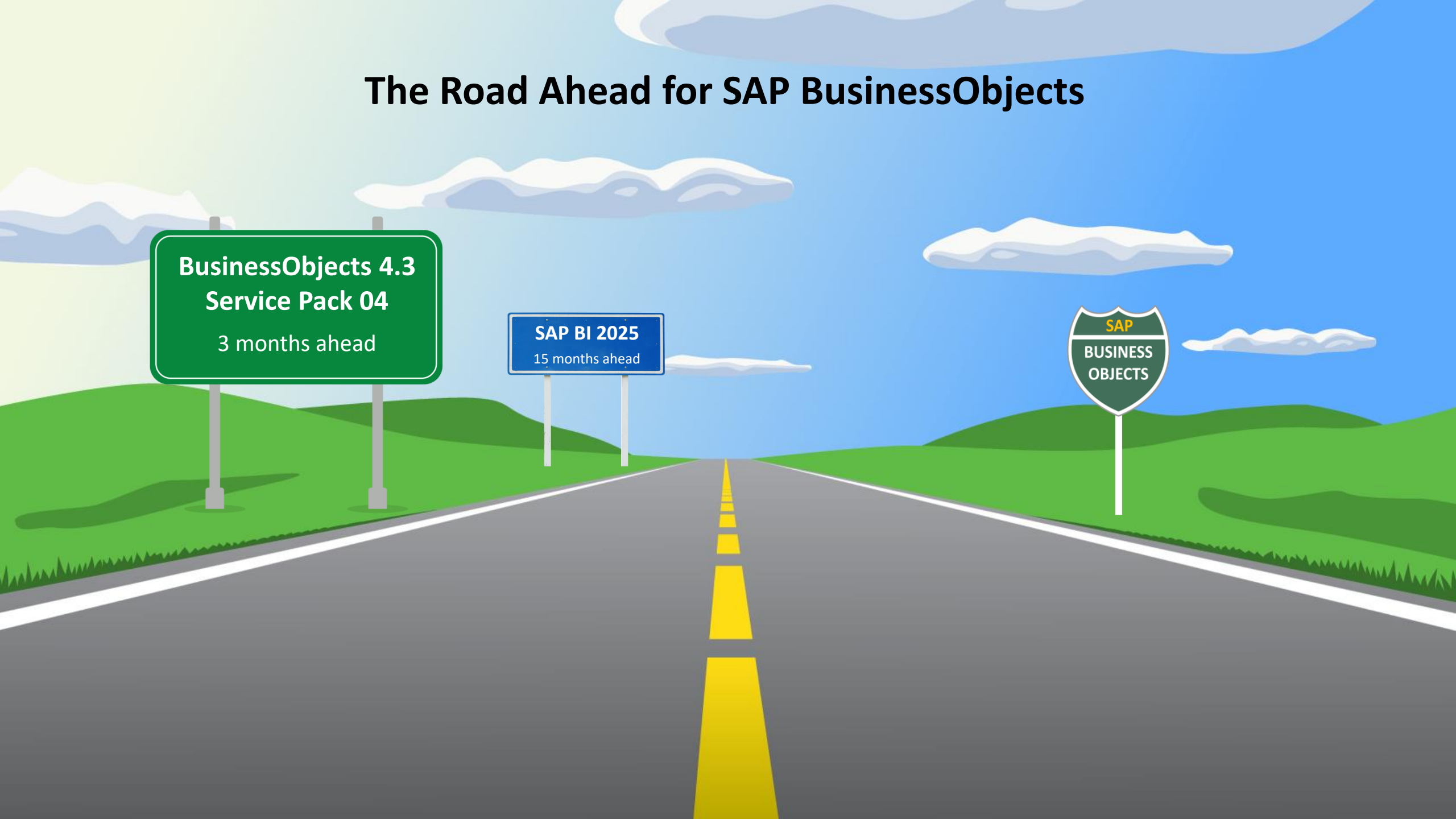
# The Road Ahead for SAP BusinessObjects



**September 21 Webinar with SAP's Patrick Sims**



# The Road Ahead for SAP BusinessObjects



**BusinessObjects 4.3  
Service Pack 04**  
3 months ahead

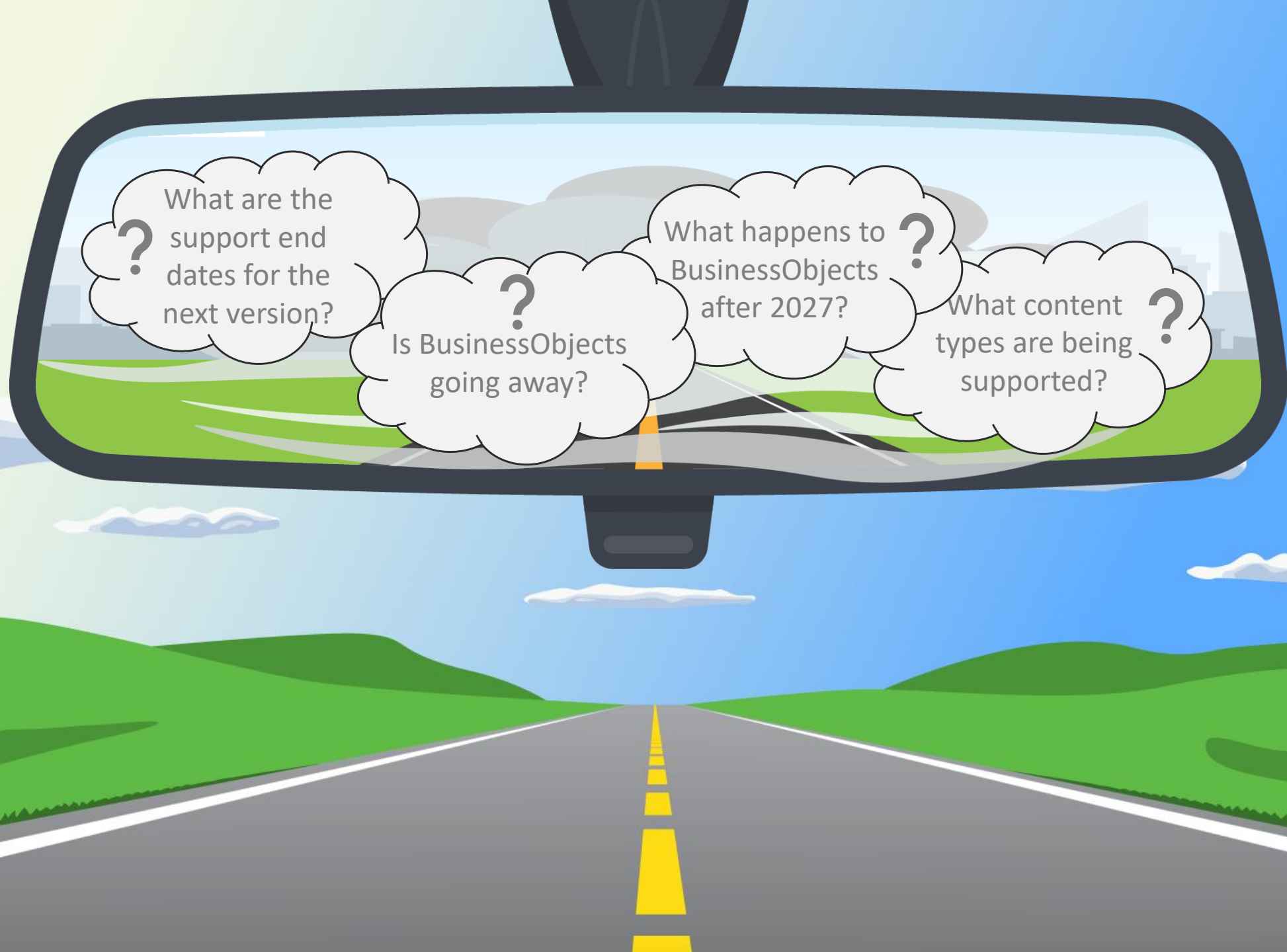
**SAP BI 2025**  
15 months ahead





**Rear View Mirror**





?

What are the support end dates for the next version?

?

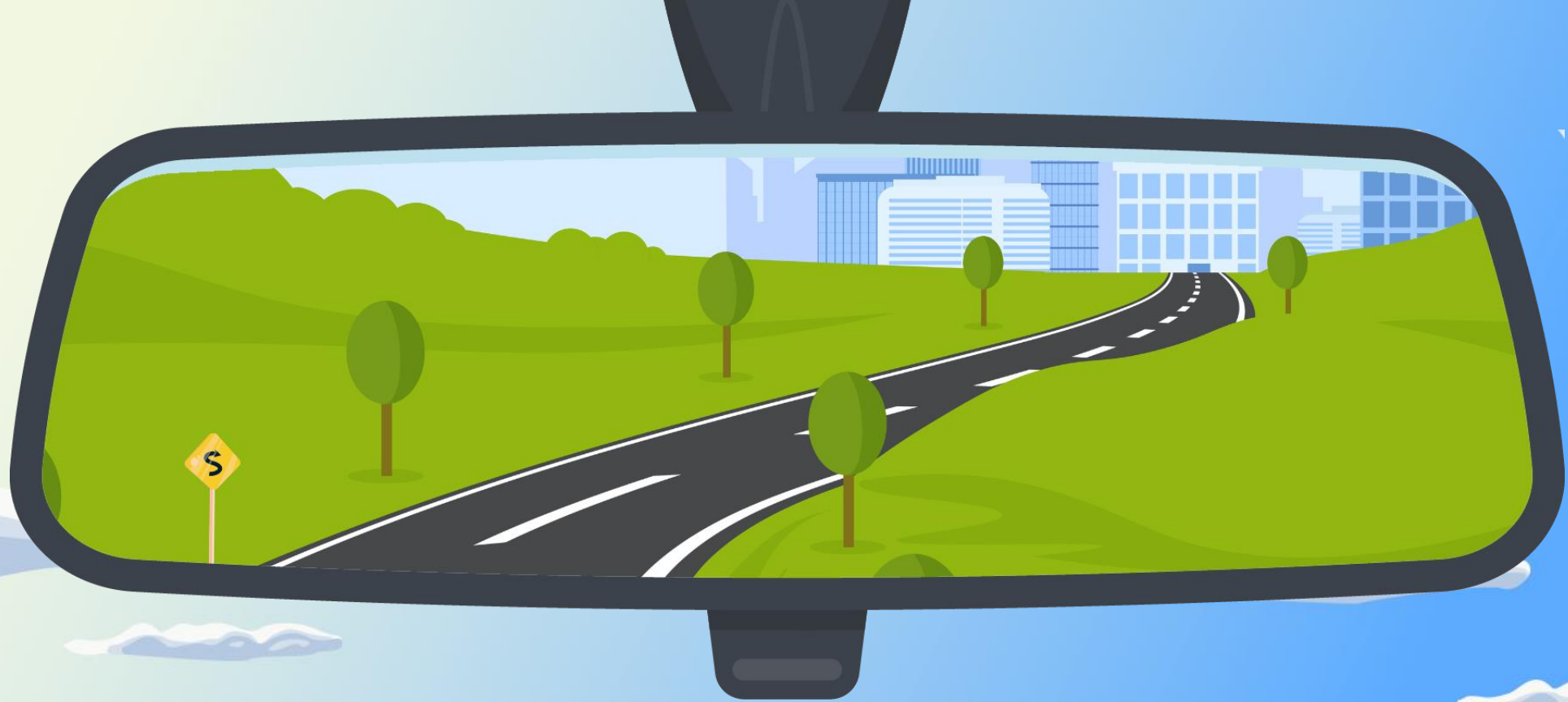
Is BusinessObjects going away?

?

What happens to BusinessObjects after 2027?

?

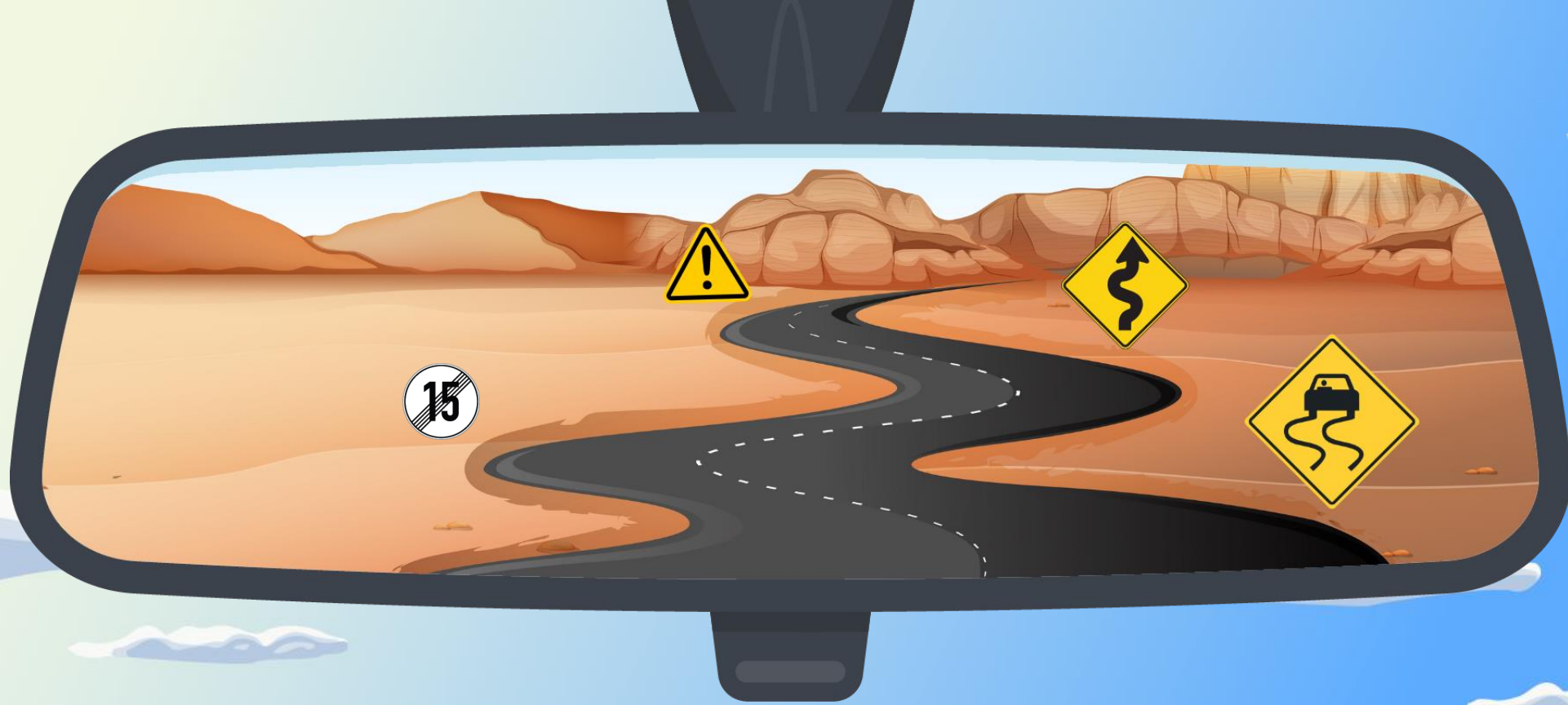
What content types are being supported?



**Your Rearview Mirror:  
Smooth and Easy?**

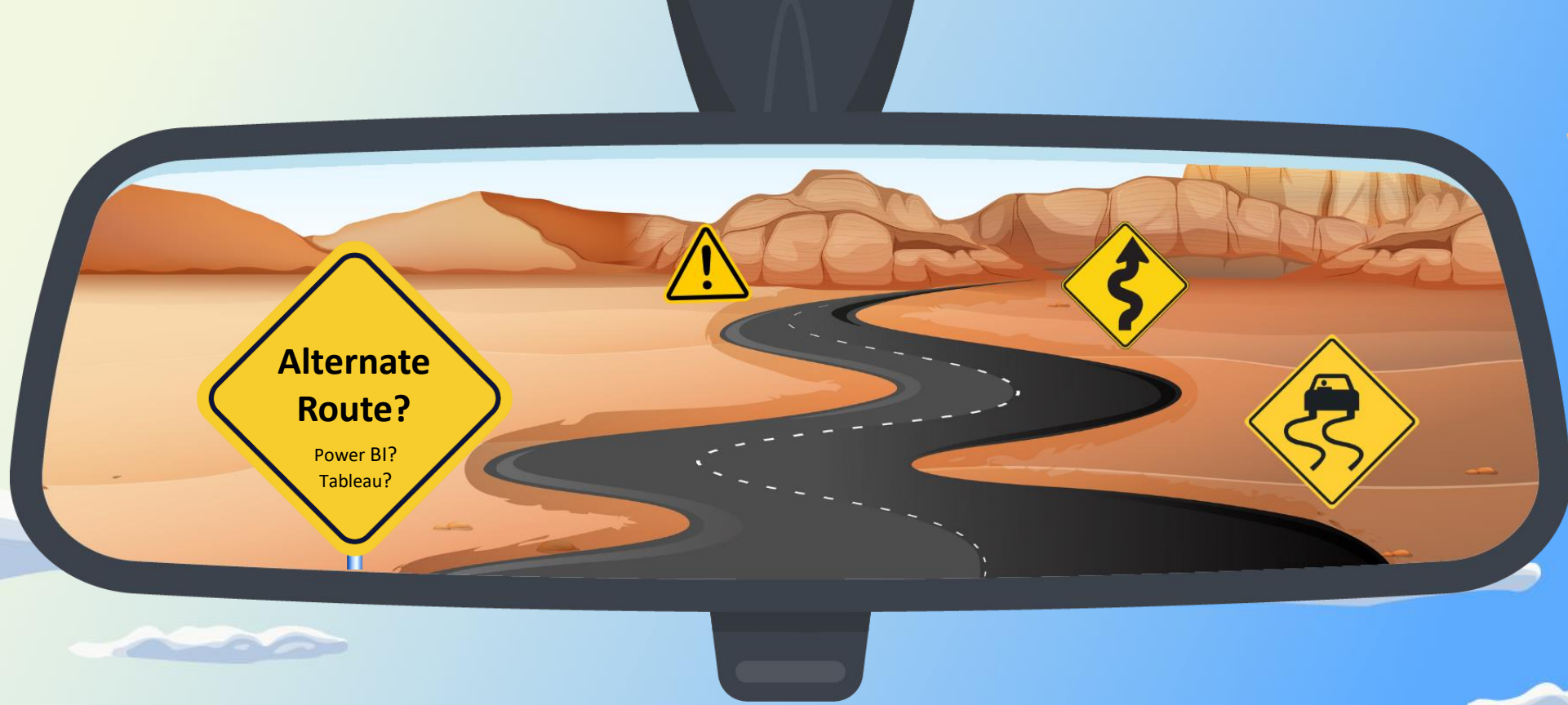


**Your Rearview Mirror:  
Winding and Unpredictable?**



**Your Rearview Mirror:  
Obstacles and Challenges?**





**Your Rearview Mirror:  
Obstacles and Challenges**

# The Road Ahead for SAP BusinessObjects



The image depicts a perspective view of a grey asphalt road with a yellow dashed center line, receding into the distance. The road is flanked by green rolling hills under a blue sky with white clouds. Three signs are positioned along the left side of the road, indicating a timeline of updates. The first sign is green with white text, the second is blue with white text, and the third is a green shield with white and yellow text.

**BusinessObjects 4.3  
Service Pack 04**  
3 months ahead

**SAP BI 2025**  
15 months ahead





# Updated Statement of Direction – SAP BI & Analytics



PUBLIC

## **SAP ANALYTICS**

Business Intelligence Statement of Direction

April 2023



**ALAN GOLDING**

Solution Consulting Manager  
APOS





**FRED WALTHER**

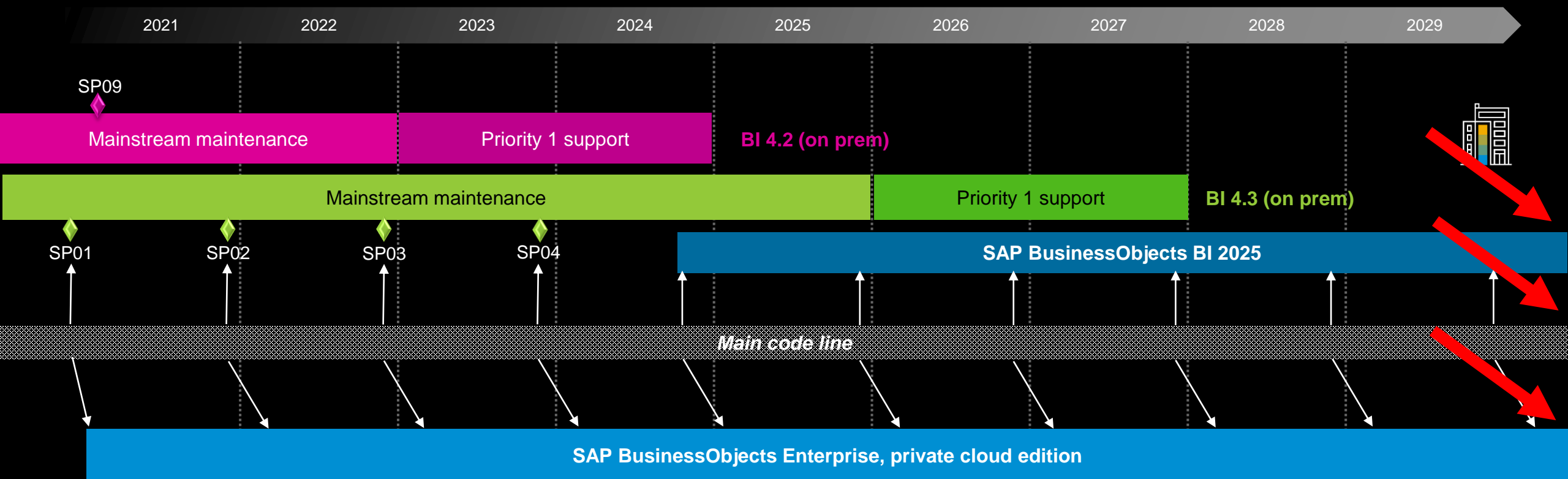
Senior Solution Consultant  
APOS

# SAP Analytics

Portfolio comparison by Use Case

Business Intelligence										Planning	Augmented Analytics		
High Volume Publications	Operational Reporting	Ad Hoc Reporting	MS Office Integration	Analytic Applications	Mobile	Dashboards	Data Exploration	Data Discovery	Content Catalog	Enterprise Planning	Conversational Analytics	Automated Analytics	Predictive Analytics
		 SAP Analytics Cloud											
 SAP BusinessObjects BI Suite													

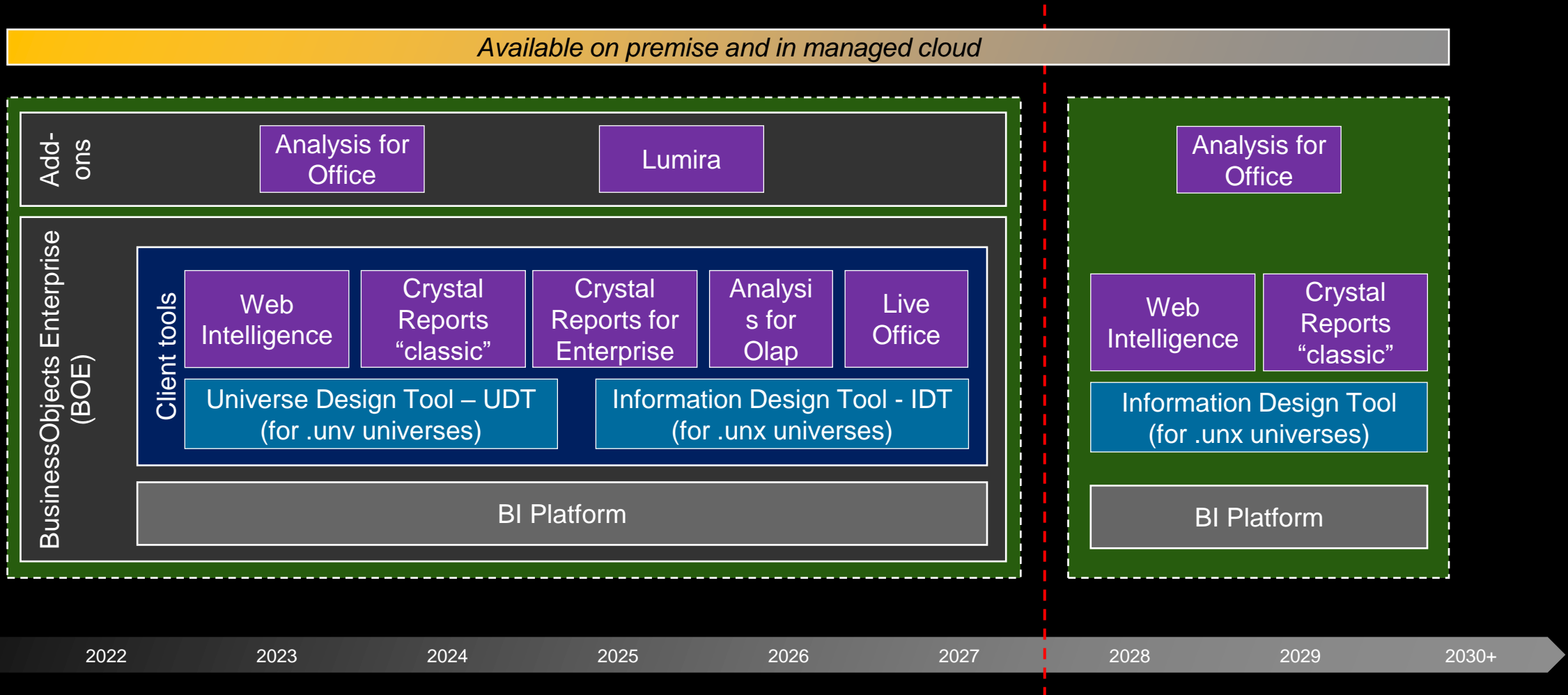
# SAP BusinessObjects Timelines



SAP Analytics Statement Of direction > [HERE](#)

# SAP BusinessObjects

**Rationalization** Strategy: right-size portfolio to focus on most-used tools after BOBJ 4.3 EOM



# SAP BusinessObjects

**Portfolio** planned end of support with BI 4.3 (end of 2027)

Component	Go to solution
Lumira	Web Intelligence or SAP Analytics Cloud
Crystal Reports for Enterprise	Web Intelligence or Crystal Reports “classic” (CR2020, CR202x)
Analysis for OLAP	SAP Analytics Cloud
Live Office	Web Intelligence Document OData Access (4.3 SP2)
Universe Design Tool (and .unv)	Information Design Tool (and .unx)
Multi-source universes and associated connectivity	Data blending in Web Intelligence or at the DB level

## Supported platforms

- We plan to stop the support of AIX and Solaris platform after BI 4.3
- Preferred OS are Windows and Linux



# Product Direction Roadmap



## Product direction – SAP BusinessObjects BI Platform

### Recently delivered\*

#### BI Launch Pad

- UX improvements
- Display Document Path
- BI Launch Pad Reports Pinning

#### Server Management

- Schedule to Cloud (MS One Drive, Google Drive)
- Security – HTTP Strict Transport Security (HSTS) Support
- Enhance Password Policy
- Installer enhancements

#### Extend Possibility

- BI Platform Restful Services Integration with BOE WEBAPP

### Planned

#### BI Launch Pad

- BI Workzone Support text modules (Embedded)

### Future

#### BI Launch Pad

- Provide more control and alert in the Scheduling

## Product direction – SAP Crystal Reports

### Recently delivered\*

#### User Experience

- Fiori Viewer for Crystal Reports 2020
- Optimize Crystal Reports 2020 Designer for High DPI screen

#### Increase Productivity

- Export to Google Drive / MS OneDrive from Fiori Viewer
- Export to page based XLSX (with formatting)

#### Extend Possibility

- 64bit Crystal Reports (End to end)
- All New Scheduling / Publication in Fiori BILP
- Expose Crystal Reports 2020 as OData service
- OData as data source for Crystal Reports 2020
- Respect orientation tag in JPG image
- New image display method – “Fit to Box”

#### Simplify

- (SP02+) Deprecation of Crystal Reports 2020 services on Linux/Unix

### Planned

#### User Experience

- Fiori Viewer available in OpenDocument
- Fiori Viewer available in CMC

### Future\*\*

#### Simplify

- Desktop Viewer for Crystal Reports 202x (Windows)
- Improve CR4E to Crystal Reports 202x migration

## Product direction – SAP BusinessObjects Web Intelligence

### Recently delivered\*

#### Self-Service BI

- Modern Web Intelligence 4.3 interface
- Simplified workflows for designers and viewers
- Unified query panel for all data sources
- Formulas editor enhanced
- Resize Table via “anchor” and “lasso” selection
- Ease block positioning via “guides”
- Support “pixel perfect” Reporting

#### Extend Possibility

- Google and Microsoft Drive support
- Web Intelligence OData v4 web services
- Objects enrichment for the end users
- Organize your “Prompts”
- Dynamically show/hide reports
- New Trellis chart

#### Data preparation

- Share the Web Intelligence Data Model
- Prepare, transform and enrich your data
- Preview your data via Facets navigation
- Visualize and Combine data flows (queries and objects)

### Planned

#### Self-Service BI

- Additional enhancements to simplify user interface
- Advanced search in Available Objects panel
- Improve universes performance (.unx)

#### Reporting and Visualizations

- Charts improvements
- Hide column when Empty or Dynamically
- IntraDocument link: filters the target report by using complex input controls
- Support SAP Data Warehouse Cloud OLAP data
- New functions for the Formula Language (ex: Time dimensions, Retrieve Custom Properties Values, Data Provider Path, ...)

#### Data Preparation

- Reuse cubes and objects from Data Flow
- Other combine operators
- Export transformed data cubes
- Format defined at objects level
- Cascading refresh for WID as a Source & OData Service

### Future

#### Self-Service BI

- Additional enhancements for the user interface
- Simplified creation workflows
- Grid and Snap to grid
- Maximize of blocks in the canvas at design

#### Reporting and Visualizations

- New charts type to enable Data Viz
- Custom tooltip
- Better interactivities
- Input Controls in Report
- Support BEx/HANA Drill Online for table and charts
- Management by exceptions
- OData source
- Canvas ready for Mobility use cases

#### Data Preparation

- Explore your data

PUBLIC \* Up to SAP BusinessObjects BI 4.3 SP03, more exist

\*\* Crystal Reports 202x will be based on the Crystal Reports C++ stack.  
PUBLIC \* Up to SAP BusinessObjects BI 4.3 SP03, more exist

PUBLIC \* Up to SAP BusinessObjects BI 4.3 SP03, more exist

This is the current state of planning and may be changed by SAP at any time.20



**BusinessObjects 4.3  
Service Pack 04**  
3 months ahead

## SAP BusinessObjects Service Pack 04 Highlights

- Enhanced Self Service BI to simplify user experience
- Additional charts for Web Intelligence
- Performance improvements for UNX
- Web Intelligence support for SAP Datasphere OLAP data
- Crystal Reports 2020 support for UNX

**\*\*Current state of planning**



## SAP BI 2025

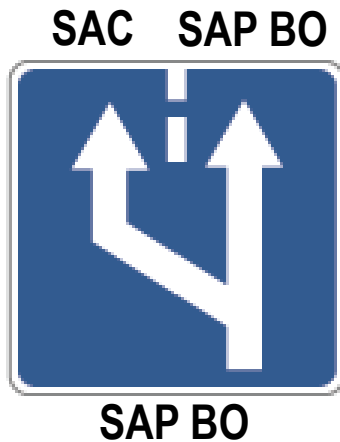
15 months ahead

### SAP BI 2025 Highlights

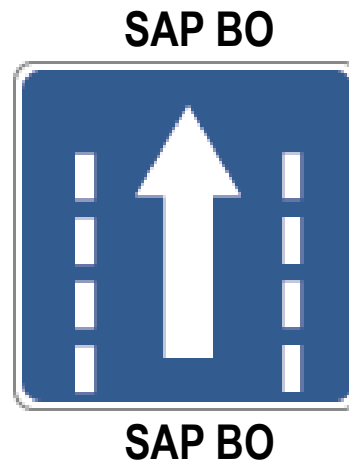
- OData source support for Web Intelligence
- New Web Intelligence visualisations and better interactivities
- Simplified creation workflows
- Enhanced user experience for BI Launchpad and admin experience for CMC
- Improved Crystal Reports For Enterprise to Crystal Reports 202X migration
- Crystal Reports 202X UNV to UNX migration support

**\*\*Current state of planning**

# Customer Plans



Staying on BusinessObjects,  
moving some use cases to  
SAP Analytics Cloud



Staying completely on  
BusinessObjects as the single  
BI platform



Staying on BusinessObjects,  
moving some use cases to  
other solutions



**BusinessObjects 4.3  
Service Pack 04**  
3 months ahead

**SAP BI 2025**  
15 months ahead



**Time to get back on the Road<sub>(map)</sub> again!**

# Regrouping for your SAP BusinessObjects Future





# Regrouping for your SAP BusinessObjects Future



## Recommendations:

- Take stock of what you have
- Assess & action unsupported content
- Right-size your system content
- Upgrade platform to Version 4.3
- Upgrade Universes to UNX format
- Automate for efficient management



# Recommendations for Regrouping



## Take stock of what you have

Most organizations do not have a clear enough view of what is in their system in order to make well informed decisions.

Take a thorough, detailed inventory of your:

- Reports
- Universes
- Users
- Groups
- Instances
- Schedules
- Taking stock helps you understand what you currently have
- It's difficult to effectively manage & migrate what you don't know you have
- Makes migration that much easier moving forward
- Get complete insight as to what exists in your system



# Recommendations for Regrouping



## Assess and action unsupported content

Some content types are being deprecated. Those content assets need to be identified, and an action plan needs to be set.



# Recommendations for Regrouping



## SAP BusinessObjects

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# Recommendations for Regrouping



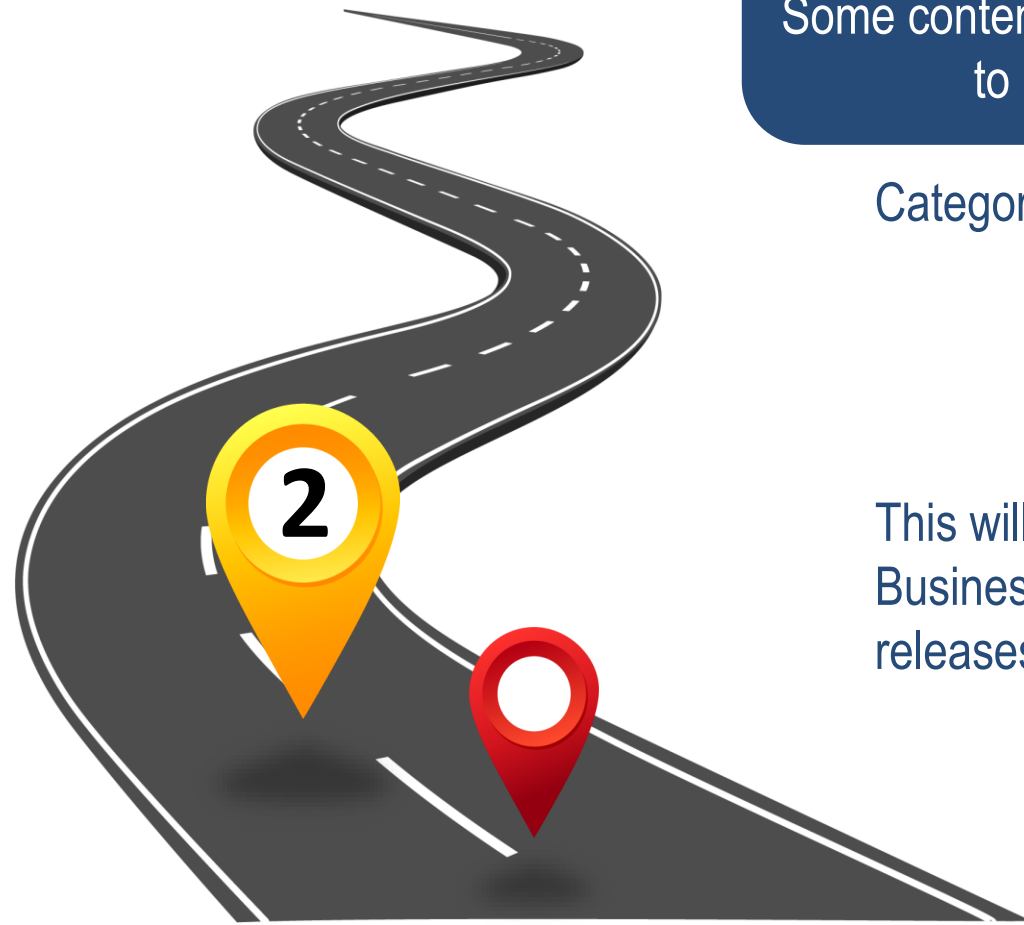
## Assess and action unsupported content

Some content types are being deprecated. Those content assets need to be identified, and an action plan needs to be set.

Categorize your content into groups

- Crystal Reports Enterprise
- Lumira
- UNV Universes

This will help you identify and document how much content in your BusinessObjects environment will be unsupported in upcoming future releases and migrations.



# Recommendations for Regrouping



## Right-size your system content

Many organizations have a significant amount of unused and unnecessary content residing in their system, their 'Technical Debt'

Identify what content is no longer being used, or is no longer valuable to your organization, or will be unsupported in future migrations.

Removing this unneeded content reduces the technical debt in your BusinessObjects environment which:

- Makes migrations much easier
- Enables efficient management
- Increases performance and resources
- Reduces overall running costs of your environment





# Recommendations for Regrouping



## Upgrade platform to Version 4.3

Many organizations have delayed their migration to Version 4.3, leaving them open to risks and pressure due to support timelines

Upgrading your BusinessObjects environment to version 4.3 is important for several reasons:

- Mainstream maintenance has expired for version 4.2
- Timeline for Priority 1 Support expiry is drawing closer
- Utilize latest features and technologies
- Improve User Experience for better decision making
- Enterprise Readiness & Hybrid, new features improving the interrelationship between on-premise system and cloud systems
- Working in an environment where innovation directly impacts the success of your business



# Recommendations for Regrouping



## Upgrade Universes to UNX format

UNV Universes are being deprecated, and most organizations have not migrated their universes & reports to UNX format. Time pressures and associated risks grow larger and will become critical.

- Planning ahead and migrating sooner rather than later will help prevent any unexpected surprises
- Web Intelligence reports also need to be migrated to the UNX platform, which is typically the largest challenge based on the volume of reports involved



# Recommendations for Regrouping



## Automate for Efficient Management

While responsibilities remain high, many deployment teams are being asked to do more, with less, due to reduced resources assigned to manage and support the SAP BusinessObjects system

- Being able to manage BusinessObjects assets in bulk, rather than one at a time, is a HUGE time saver in human hours
- Tedious tasks that can take hours, days, or weeks to complete, become doable in a matter of minutes, helping staff hours become available for work to be done on larger projects



# Regrouping for your SAP BusinessObjects Future



## How can APOS help?



# Take Stock of What You Have



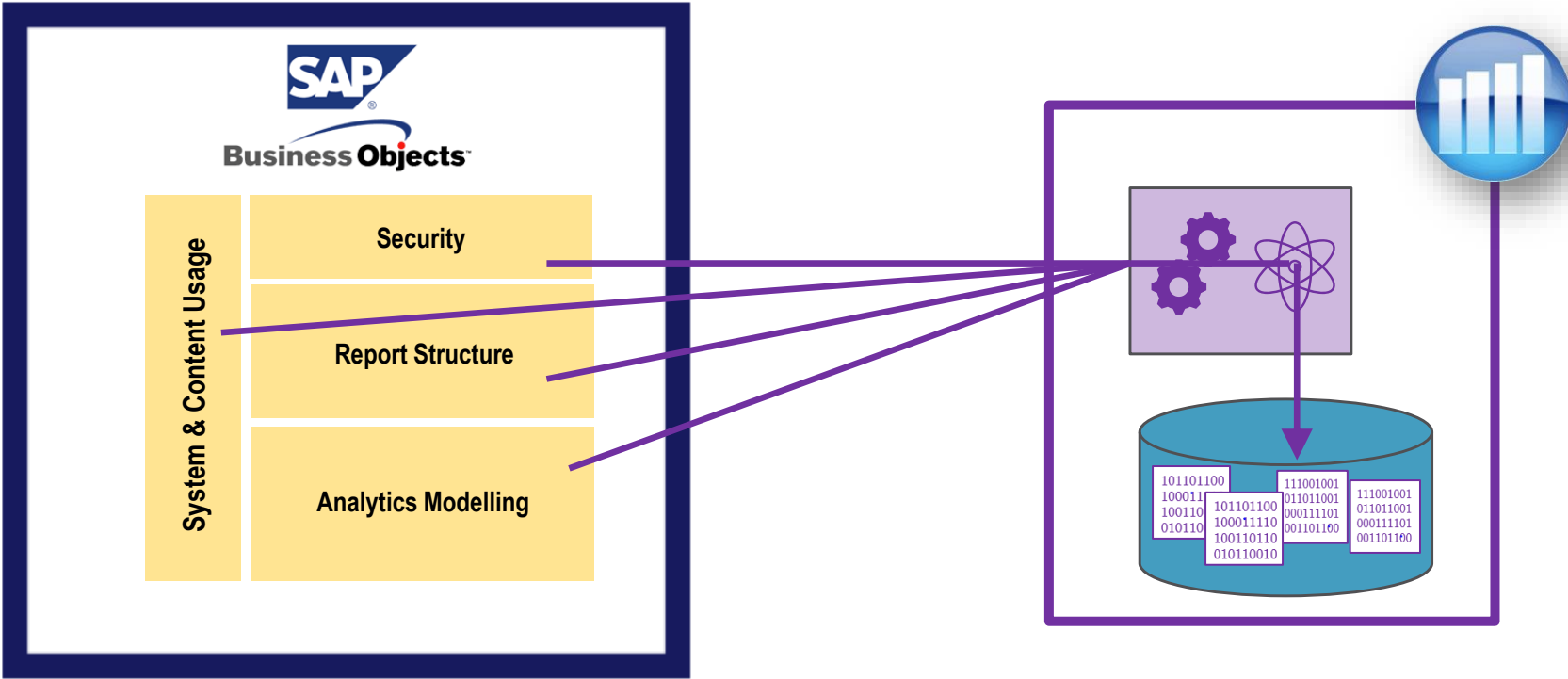
## Scan System and Inventory Content

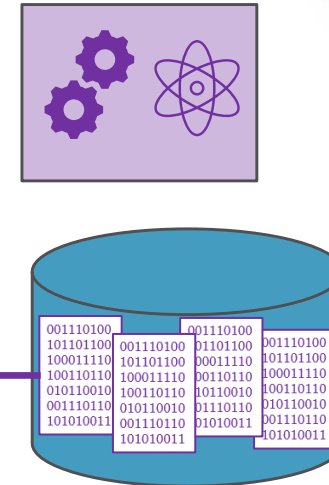
### How to scan system and inventory its content?

- Get a clear understanding of what content is in your system
- Identify what content is important
- Identify what content is not important



# Capture System + Content Metadata





# Analyze System + Content Metadata



**APOS Insight**  
**Unused Objects in Date Range**

Unused Reports from: 01/01/2023 00:00:00 to 08/03/2023 00:00:00

Insight User to Ignore: APOS\_Insight\_User

**/Report Samples/Demonstration**  
**Comparative Income Statement**

Si ID	Owner	Create Date	Last Update Date	Last Activity Date	Latest Activity	Latest Activity User
11919	Administrator	30/07/2015	13/05/2020 08:32:28	01/02/2023 19:10:35	View	APOS_Insight_User

- Find unused reports
- Understand report content

**APOS Insight**  
**Webi Impact Analysis**

Searched for Table: AP\_UsersAndGroups;AP\_USERSANDGROUPS  
Searched for Column: All Columns

System: **BI41SP6FW**  
Folder: **/APOS Insight Reports/Oracle**

Report Name	Universe Name	UniType	TableName	ColumnName
Objects - Group Listing with Users	Insight4 - Oracle	UNV	AP_USERSANDGRO UPS	AP_TYPE
Objects - Group Listing with Users	Insight4 - Oracle	UNV	AP_USERSANDGRO UPS	SI_CHANGEPASS WORD
Objects - Group Listing with Users	Insight4 - Oracle	UNV	AP_USERSANDGRO UPS	SI_NAME





# Take Stock of What You Have



## Scan System and Inventory Content

### What can you achieve?

- Full inventory of your BOE environment
- Pre-built audit reports and start reporting straight away
- Get the full picture as to what your BOE environment looks like



# Assess & Action Unsupported Content



What content in my BOE environment  
will no longer be supported?



# Assess & Action Unsupported Content



Be able to easily identify and document what content in my current BOE environment will no longer be supported!

APOS Insight Universe List with Reports	
Universe Folder and Name	Number of Reports
Universes/APOS Insight/Insight4 - SQL Server	37
Universes/APOS Insight/Insight4 - Oracle	35
Universes/Samples/eFashion.unx	32
	14
Universes/Samples/Rio2016.unx	7
Universes/WebiMigratorUNX/WebiMigrator.unx	4
Universes/YuriTest.unx	2
/AposWorkshop1:6400/Application Folder/Root Folder 95/Connections/Insight4 - SQL Serve	1
Universes/Monitoring TrendData Universes/Monitoring TrendData Universe	1
Universes/Report Conversion Tool Universes/Report Conversion Tool Audit Universe	1
Universes/WebiMigrator/WebiMigrator	1

Universes/APOS Insight/Insight4 - SQL Server			
Report Folder Location	Report Name	Report Owner	Report File Size
/APOS Insight Reports/SQL Server/	Audit - All Report Activity	Administrator	123211
/APOS Insight Reports/SQL Server/	Audit - Objects Scheduled by User	Administrator	102515
/APOS Insight Reports/SQL Server/	Audit - Reports Refreshed by User	Administrator	100472
/APOS Insight Reports/SQL Server/	Audit - Unused Objects in Date Range	Administrator	88626
/APOS Insight Reports/SQL Server/	Audit - User Logon Activity	Administrator	94653
/APOS Insight Reports/SQL Server/	Audit - User Logon Activity Details	Administrator	101628
/APOS Insight Reports/SQL Server/	Crystal - Search for Fields Used in Reports	Administrator	100847
/APOS Insight Reports/SQL Server/	Crystal - Search for Tables Used in Reports	Administrator	100312
/APOS Insight Reports/SQL Server/	Crystal - Structure	Administrator	100085
/APOS Insight Reports/SQL Server/	Crystal - Summary	Administrator	144565
/APOS Insight Reports/SQL Server/	Instances - Detail	Administrator	103991
/APOS Insight Reports/SQL Server/	Instances - Historical	Administrator	107194
/APOS Insight Reports/SQL Server/	Instances Status	Administrator	89286
/APOS Insight Reports/SQL Server/	Object Listing - Content Types and Folders	Administrator	91423



# Right-Size Your System Content

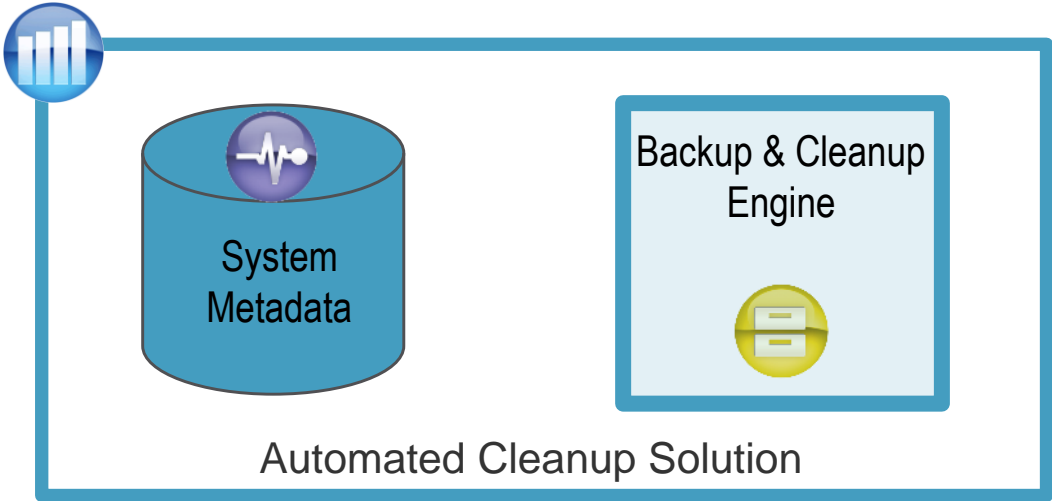
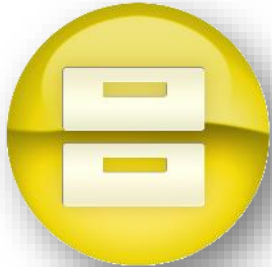


Remove unnecessary content  
Eliminate Technical Debt  
Retain BI assets

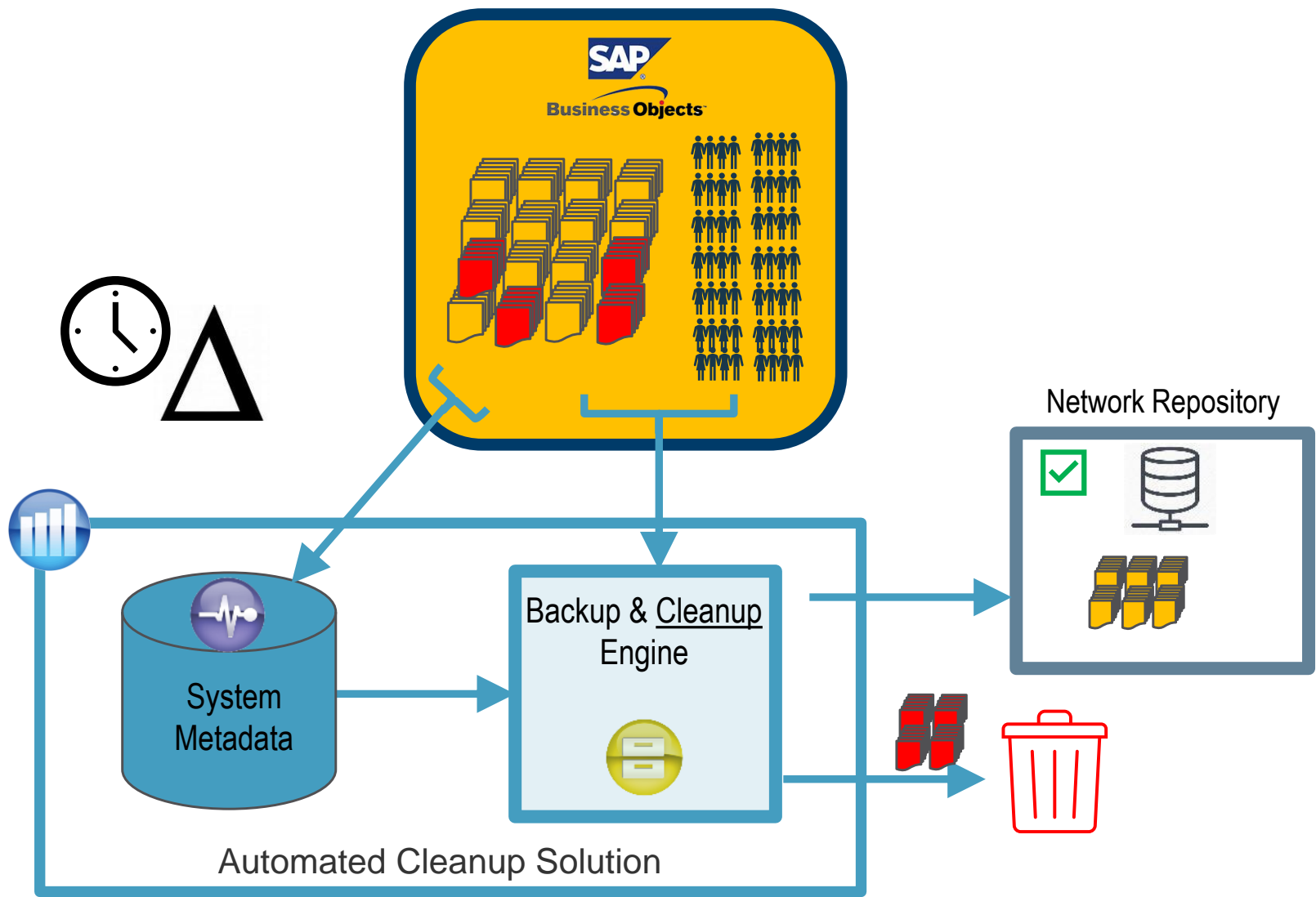
- Delete Reports, Universes
- Delete Instances
- Delete Users



# Automated System Clean-Up



# Automated System Clean-Up



# Reduce Content & Users



Before	After
Reports = 1,200	Reports = 350
Instances = 150,000	Instances = 73,550
Universes = 45	Universes = 20
Users = 750	Users = 500
Groups = 65	Groups = 30
Total Objects = 152,060	Total Objects = 74,450

End Result: SAP BI content and user count reduced by over 50%





# Upgrade Platform to Version 4.3



## BOE Platform 4.3 Upgrade considerations

- Report Validation Testing before/during/after upgrade
- Making sure migration has not impacted the report data output
- Backup of system content and reduce content (mentioned above)

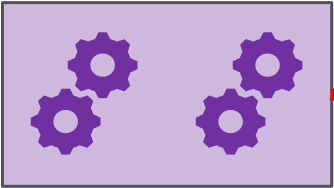


# Upgrade Platform to Version 4.3



SAP BI 4.2

SAP BI 4.3



Insight Validation  
Services



Version 4.2  
Report Value = **X**




Version 4.3  
Report Value = **Y**



# Upgrade Platform to Version 4.3



- Automate Bulk Report Validation when upgrading your BOE platform to 4.3

**APOS Validation Manager**

File Edit Action View Help

Search Project - alan1.avp Project - 2021-3-25-10-46-39-723.avp

BI Connection Information

Source: aposworkshop1.Administrator Change Target: aposworkshop1.administrator

Filters

☒ Show Successful ☒ Show Successful With Warnings ☒ Show Failed ☒ Show Not Attempted

Project Objects

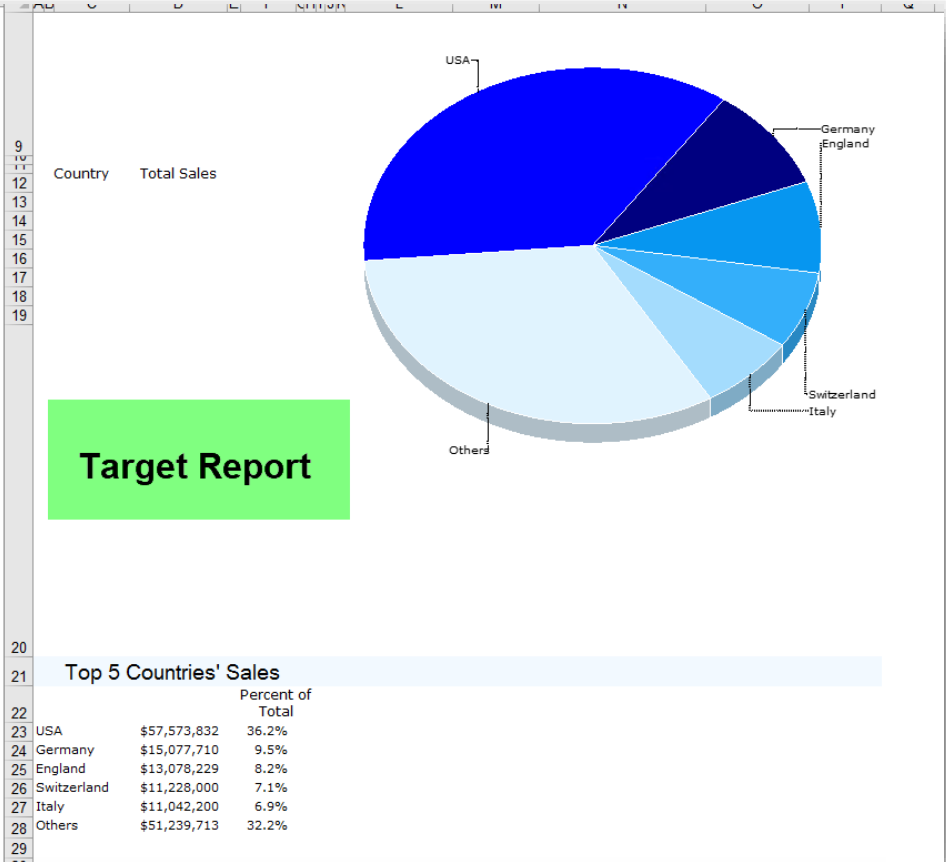
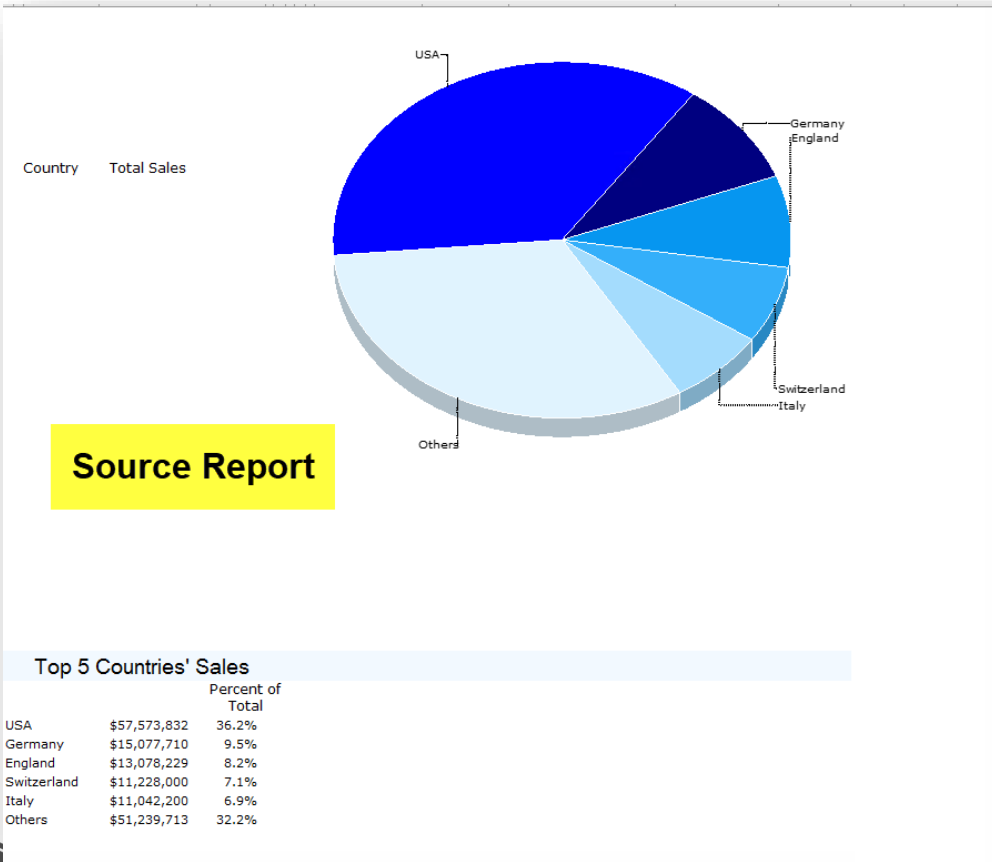
	Last Validated	Result	Object Type	Source Name	Source Path	Source CUID	Source Parameters	Schedules	Existing Instances	Regression Instances	Target Name	Target Path	Target CUID	Target Parameters
6		?	Crystal Report	World Sales Report	/Validation Manager/World Sale...	AcIfMAOP5vJM...		0	0	0	World Sales Report	/Validation Manager/World Sale...	AcIfMAOP5vJM...	
7		?	Crystal Report	Interactive Sort Group & Chart	/Validation Manager/Interactive...	ASzSxgORoopK...		0	0	0	Interactive Sort Group & Chart	/Validation Manager/Interactive...	ASzSxgORoopK...	
8		?	Crystal Report	Interactive Sort Detail	/Validation Manager/Interactive...	AcH87BZk7a1...		0	0	0	Interactive Sort Detail	/Validation Manager/Interactive...	AcH87BZk7a1...	
9		?	Crystal Report	Grouping and Sorting	/Validation Manager/Grouping a...	ARtuTeL3t0xBr...		0	0	0	Grouping and Sorting	/Validation Manager/Grouping a...	ARtuTeL3t0xBr...	
10		?	Crystal Report	Drilldown	/Validation Manager/Drilldown	ASB_wlvjZj9Bo...		0	0	0	Drilldown	/Validation Manager/Drilldown	ASB_wlvjZj9Bo...	
11		?	Crystal Report	Calculated Member Cross-ta...	/Validation Manager/Calculated...	AbyTnXC3iVfo...		0	0	0	Calculated Member Cross-ta...	/Validation Manager/Calculated...	AbyTnXC3iVfo...	



# Upgrade Platform to Version 4.3



- Guarantee to your users, that report data output has not been impacted by the migration



# Upgrade Platform to Version 4.3



- Get a summarized report on how successful your validation project was

Summary of validations	
Overall Summary	
Validation process ran for:	45 seconds
Total number of objects in project:	6
Number of objects not included in current validation process:	0
Number of objects included in current validation process:	6
Number of instances processed:	6
Number of validations skipped:	0
Number of validations attempted:	6
Scheduling Summary	
Successful schedules (Both source and target):	6
Failed schedules (Either source or target):	0
Validation Summary	
Successful validations:	5
Successful validations with warnings:	1
Failed validations:	0

Target Report Name	Target Report Location	Source Report Scheduling Status	Target Report Scheduling Status	Validation Status	Validation Status Details
Calculated Member Cross-tab Chart	/Validation Manager/Calculated Member Cross-tab Chart	Successful	Successful	Successful	
Drilldown	/Validation Manager/Drilldown/Drilldown	Successful	Successful	Successful	
Grouping and Sorting	/Validation Manager/Grouping and Sorting/Grouping and Sorting	Successful	Successful	Successful	
Interactive Sort Detail	/Validation Manager/Interactive Sort Detail/Interactive Sort Detail	Successful	Successful	Warning	Warning: Runtime tolerance exceeded (Target system is faster):
Interactive Sort Group & Chart	/Validation Manager/Interactive Sort Group & Chart/Interactive Sort Group & Chart	Successful	Successful	Successful	
World Sales Report	/Validation Manager/World Sales Report/World Sales Report	Successful	Successful	Successful	



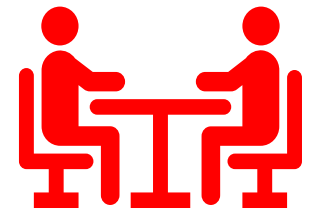
# UNIX Universe Adoption Considerations



## UNIX Adoption Challenges

- Not enough budget
  - Upgrading all universes and reports is a massive project
  - Many organizations have thousands, tens of thousands, or hundreds of thousands of reports
- Not enough time
  - BI Team and BI User department resources are all too busy right now
  - Lack of resources and competing projects
- Too hard to coordinate BI User departments
  - BI User departments are all on different schedules, timelines, priorities
  - Many organizations have extensive list of BI User departments to coordinate
- Introduces system risk
  - Upgrading all these objects introduces system change risks and manual error risks

**“Let’s just wait  
until next year...”**



# UNIX Universe Adoption Considerations



## Manual Upgrade Time Estimates

- Manual conversion of universes from UNV to UNIX format
  - 5 minutes per universe
- Publish new UNIX universe
  - 2 minutes per universe
- Manual repointing of Web Intelligence report to new UNIX format universe
  - 10-15 minutes per report
- Verify and validate the repointed Web Intelligence report results
  - 8-10 minutes per report
- Publish the repointed Web Intelligence report
  - 2 minutes per report





# UNIX Universe Adoption Considerations



## Example Manual Upgrade Estimate

Example Scenario:

- 50 Universes
- 5000 Web Intelligence reports
- 50 Universes @ 7 minutes/Universe = 350 minutes
- 5000 Reports @ 20 - 27 minutes/Report = 100,000 – 135,000 minutes  
= ~1700 - 2250 hours  
(212 – 281 days)
- Total time of 1700 – 2250 hours @ \$/€ per hour = BIG number \$/€
  - @ \$/€ 40 per hour = 68K – 90K raw project personnel cost
- What are the costs if you have a larger deployment??



# UNIX Universe Adoption Considerations



What is the answer for upgrading to UNIX??

**Automate the upgrade process!!**

- Massive time savings
- Dramatically reduced costs
- Minimize the use of and distraction of precious team resources
- Control system change risks, remove manual error risks
- Simplify coordination of BI Team and User departments
- Execute a controlled, manageable, successful upgrade project



# APOS Web Intelligence Migrator



**(WebI Migrator) - A migration solution focused on automating time and labor-intensive activities of upgrading to the UNX universe within SAP BusinessObjects**

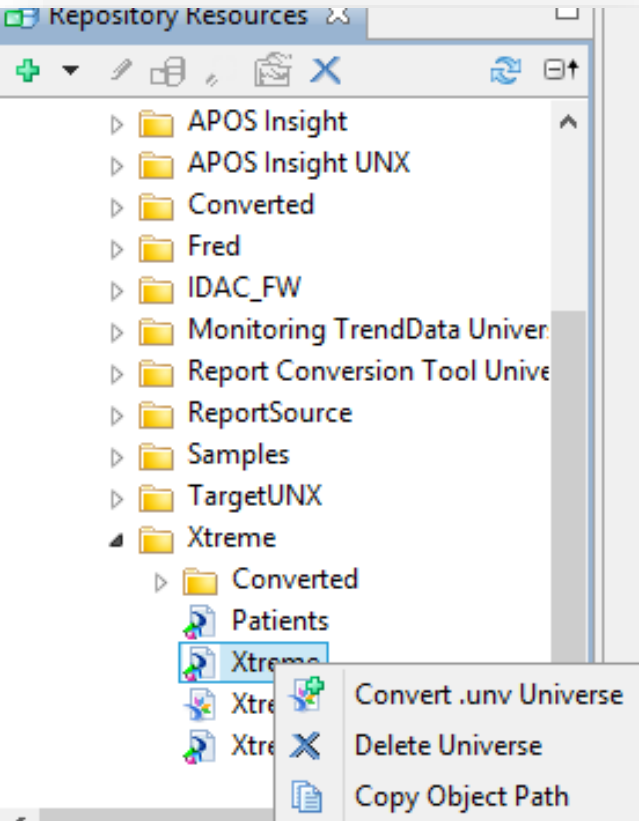
- Time savings
- Timely project execution
- Accurate project execution
- Project controls



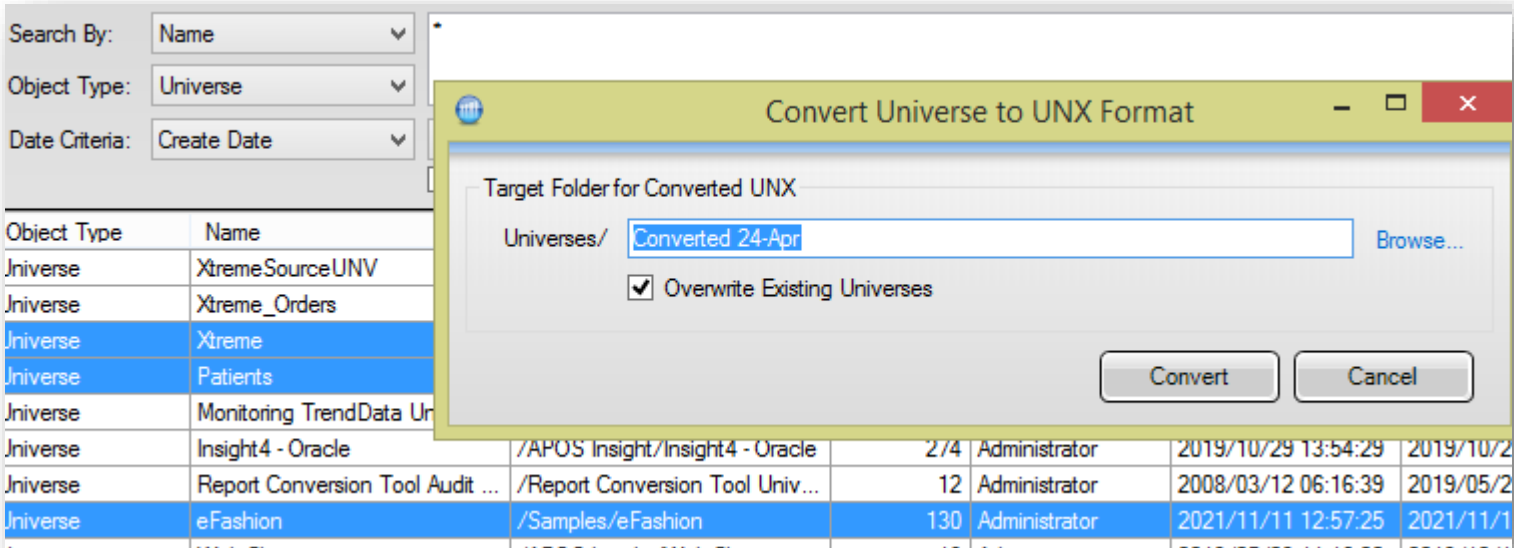
# Bulk Conversion of Universes



Manually Convert 1 by 1 in the IDT



Automatically Convert in bulk with Webi Migrator



# Bulk Repointing of Reports



Manually repoint Webi to UNX 1 by 1 in Launchpad or Rich Client

Format Data Access Analysis Page Setup

Export Data New Variable Assign Reference Merge

Change Source Wizard

Change Data Source

Select another data source - an existing data source in the document or a new data source.

Select an action

☒ Choose an existing data source from the document

Name	Type
null [unx]	Universe

☐ Specify a new data source

Select a data source

Automatically repoint Webi in bulk using APOS Webi Migrator

APOS Web Intelligence Migrator

File Edit Action View Help

BI Search Insight Search Project - 2023-3-7-13-36-14-133.aposproj


Result Filters

☒ Unmodified ☒ Successful ☒ Unsuccessful ☒ Skipped ☒ Committed ☒ Sub

Webi Name	ID	Processed	Committed	Last Status	*Data Type	*Value
Customer List By Country	5071891	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Customer List By Country and Region	5071896	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Product Class Sold by Country	5071857	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Product Name Sold by Country	5071855	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Product Type Sold by Country	5071859	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Quantity Sold by Country	5071847	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sales By Country	5071845	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sales By Customer	5071915	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sales by Product Class	5071875	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sales by Product Name	5071877	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Sales by Product Type	5071869	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Successful	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>


# APOS Web Intelligence Migrator




 **Community**

Home › Community › Blogs Ask a Question

Product Information





**Laura VEGA**   
February 10, 2023 | 3 minute read

## Automating UNX Adoption – Overview

1 2 1,197

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 **Like**

 **RSS Feed**

### Introduction

In my recent post, [UNV is dead, long live UNX](#), I made the point that the Universe Design Tool (UDT) and the UNV universe will not be supported after 2027. That may sound like a long time, but it is not, especially if you want to make an orderly and efficient transition to UNX.

In my post, I mentioned that an SAP partner solution could help make that transition easier and more orderly. A few days later, I had a conversation with the people from our long-time partner [APOS](#), who offer

[Blog Link:](#)  
[Automating](#)  
[UNX Adoption](#)



# Automate for Efficient Management



## Key BI Administration Challenges

- Security Management
- Object Management
- Schedule Management
- Instance Management
- Change Validation
- Promotion Management





# APOS Administrator



**Agile, high-performance SAP BI Administration for SAP BusinessObjects**

**Liberate your resources with automation, agility, and high-volume administration capabilities**

- Central, High-Volume Report Management
- High Volume Schedule Management
- Bulk Security Management
- Bulk Instance Management



# Automate for Efficient Management



- Change report properties in bulk
- Multiple options available in what you can change
- No limitation to the amount you can change at one time

A decorative graphic in the bottom left corner showing a winding road with several colorful location pins (yellow, red, blue, green) placed along its path.

Object Type	Name	Location	Version	Owner	Children	Created	Mo
Webi	Support Webi 31	/TestFolder4/Support Webi 31		Administrator	0	2015/02/10 13:29:06	201
Webi	Finance Webi 6	/TestFolder1/Finance Webi 6		Administrator	0	2015/02/10 13:20:32	201
Webi	Finance Webi 51	/TestFolder1/Finance Webi 51		Administrator	0	2015/02/10 13:20:32	201
Webi		TestFolder4/Support Webi 11		Administrator	0	2015/02/10 13:29:06	201
Webi		Server/Audit - User Log...		Administrator	0	2015/08/11 12:15:37	201
Webi		Server/Audit - User Log...		Administrator	0	2015/08/11 12:15:35	201
Webi		Intelligence Samples/M...		Administrator	1	2015/04/14 09:30:38	201
Webi		TestFolder4/Security - Object 1		Administrator	0	2015/02/10 13:29:05	201
Webi				Administrator	0	2015/08/11 12:15:35	201
Webi				istrator	0	2015/04/14 09:30:38	201
Webi				istrator	0	2015/02/10 13:29:05	201
Webi				istrator	0	2015/02/10 13:29:05	201
Webi				istrator	0	2015/02/10 13:29:05	201
Webi				istrator	6	2015/04/14 09:30:37	201
Webi				istrator	0	2015/04/14 09:30:37	201
Webi				istrator	0	2015/02/10 13:29:04	201
Webi				istrator	0	2015/02/10 13:29:05	201
Webi				istrator	0	2015/02/10 13:29:04	201
Webi				istrator	0	2015/02/10 13:29:05	201
Webi				istrator	6	2016/07/13 14:48:32	201
Webi				istrator	288	2015/04/14 09:30:34	201
Webi				istrator	0	2015/04/14 09:30:38	201
Webi				istrator	8	2015/04/14 09:30:35	201
Webi				istrator	0	2015/02/10 13:29:04	201
Webi				istrator	0	2015/08/28 14:51:06	201
Webi				istrator	0	2015/08/11 12:15:37	201
Webi				istrator	0	2015/02/10 13:29:04	201
Webi				istrator	0	2015/02/10 13:29:04	201
Webi				istrator	5	2015/04/14 09:30:34	201
Webi				istrator	0	2015/02/10 13:29:04	201

Copy to Folder

Delete

Export Properties

Move To New Location

Promote

Refresh

Refresh - Use Repository Objects

Document Maintenance

Category Maintenance

Limits and Security Maintenance

User and Group Maintenance

Universe Management

Connection Management

Server Management

Graph Statistics

User Impersonation

Database Logon Settings

Destination Settings

Format Settings

Notification Settings

Process Settings

Processing Extensions

Properties

Refresh Options Settings

Report Options

Schedule For

Set Parameters Initial Values

Webi Caching Options

Retry Settings

Print Settings

Default Schedule Settings

Custom Properties

Alert Notification

Webi Refresh On Open Setting

Change Owner

Verify Database (CR Classic Only)

Webi Document Refresh

Source BOE: Administrator Logged Into AG-08R2

Records: 1321

# Automate for Efficient Management



*“Being able to manage some of my day-to-day tasks in a more automated, ‘in bulk’ way, has given me hours and days back in my work week.*

*For one specific task, what used to take me 5-6 hours to execute, now takes less than 3 minutes.”*

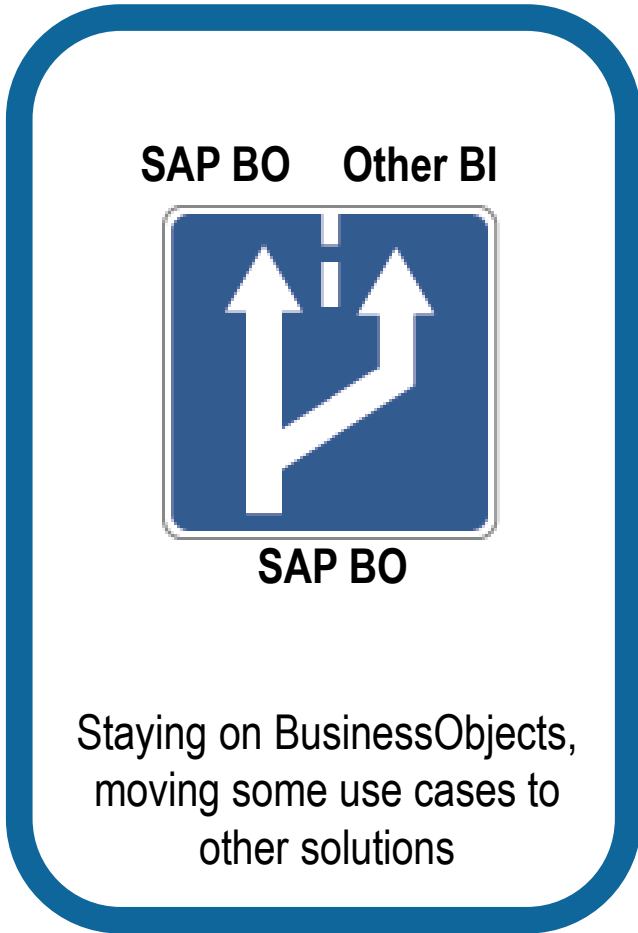
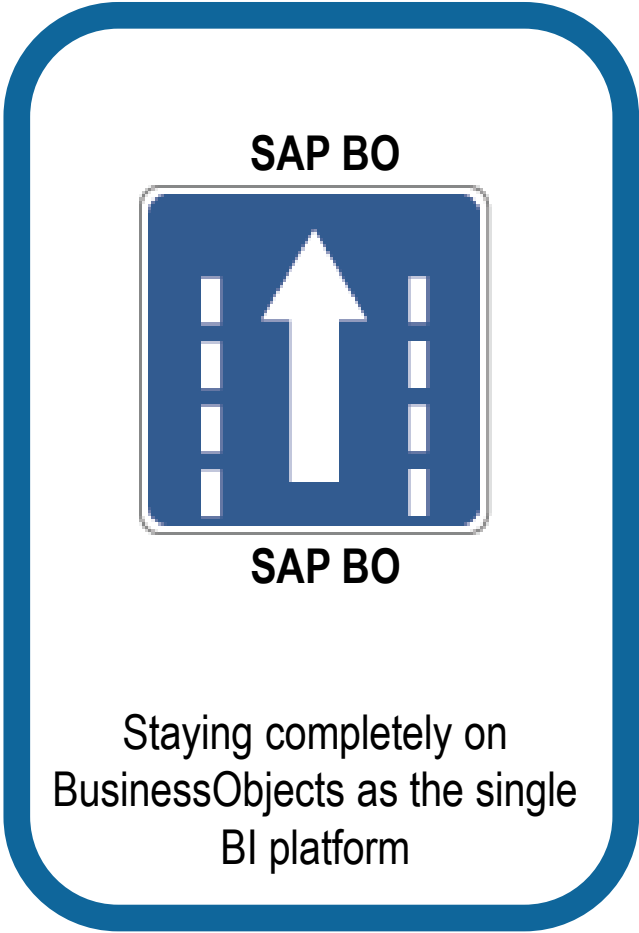
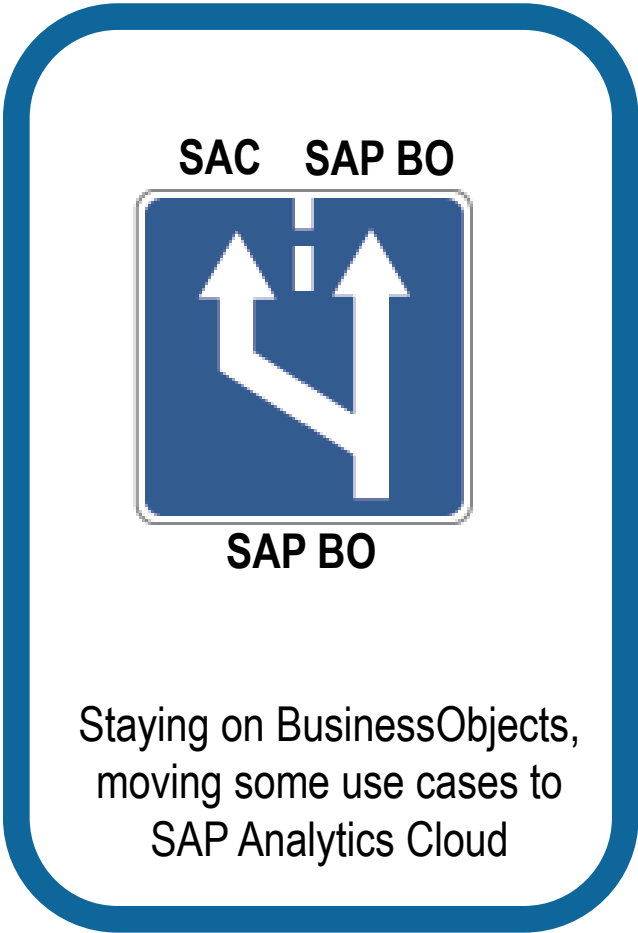
*- Direct Customer Feedback*

## Customer Task :

- Needed to change report database connections on 250+ reports
- Manually done, one by one, estimated 3-5 minutes per report
- APOS Administrator accomplished all 250+ report changes in less than 3 minutes



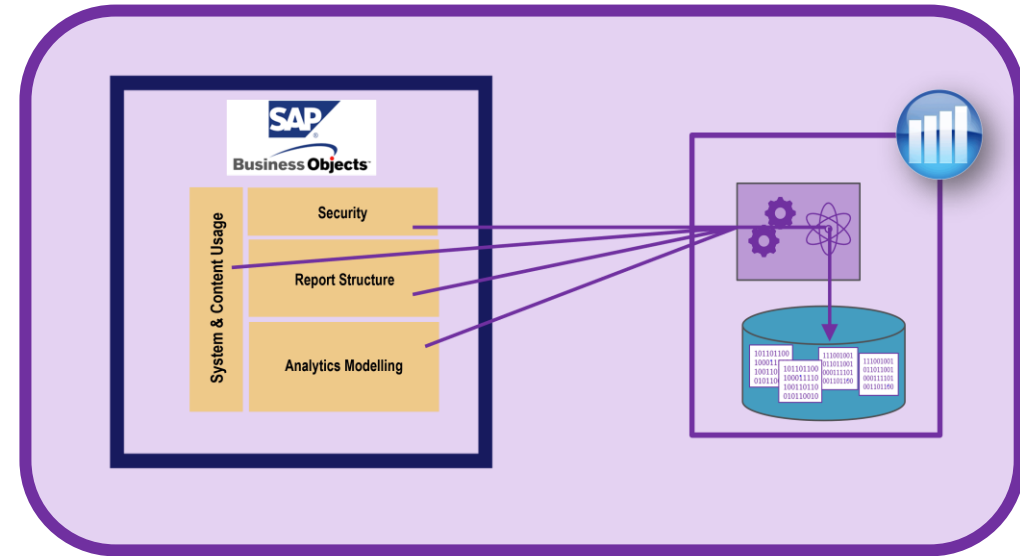
# Customer Plans



# Customer Plans

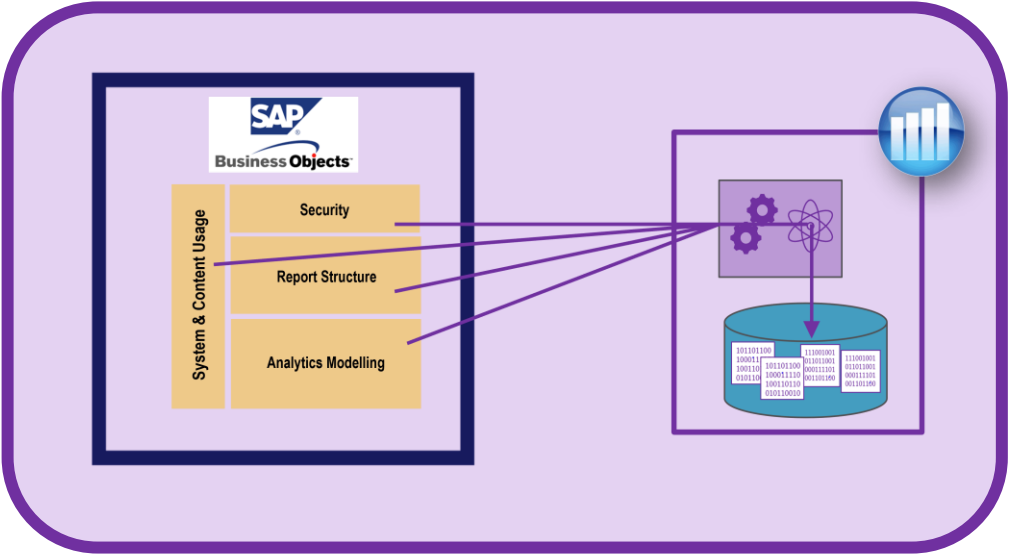
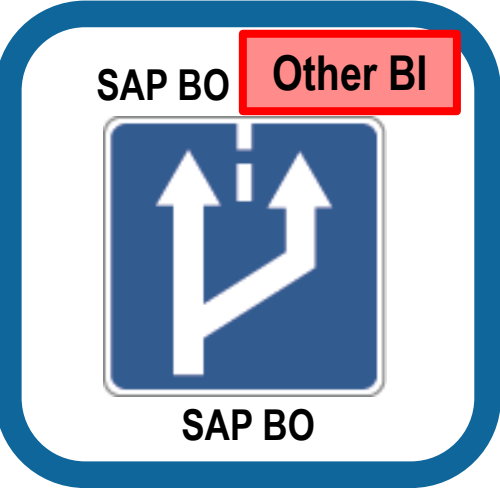
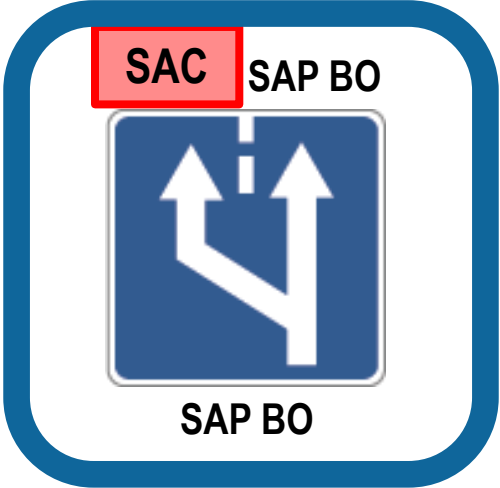


Staying on BusinessObjects,  
moving some use cases to  
SAP Analytics Cloud



- What reports are used/unused?
- Who uses the reports?
- What data is used in those reports?
- What report structures are used in the reports?
- What reports are good transition candidates?

# Customer Plans



# Customer Plans



**SAP BO**

Staying on BusinessObjects,  
moving some use cases to  
SAP Analytics Cloud

## APOS Publisher for Cloud

- Automated broadcasting and distribution of personalized SAC reports to target user groups

## APOS Live Data Gateway

- High performance, live data connectivity from SAC to wide range of data sources



# Session Resources

(see Handouts tab)

- **SAP Statement of Direction**
- **Today's Session Slides & Recording** – to follow
- **September 21 Webinar Slides & Recording**
  
- **SAP BusinessObjects Upgrade Kit by APOS**
- **SAP BusinessObjects Operations Kit by APOS**
- **APOS Web Intelligence Migrator**

# Upcoming Events



## Right-Sizing SAP BusinessObjects to Lower your Technical Debt Ceiling

November 9, 2023 – 11 am Eastern Time

More and more of our customers are considering the road ahead for their SAP BusinessObjects deployments. Our advice is always the same: prepare for the future by reviewing your current deployment in fine detail, then rationalize, reduce, and restructure to simplify upgrades and prepare for the future of SAP BusinessObjects in your organization.

This webinar will focus on ways to achieve your right-sizing objectives, and ensure your system runs efficiently and cost-effectively.

### You will learn:

- **Rationalizing** – Assess necessary and unnecessary content, users, licenses and infrastructure
- **Reducing** – Find and remove unnecessary users and content from the system
- **Restructuring** – Make your infrastructure and licensing fit your needs



Register at [www.apos.com](http://www.apos.com)



# APOS Web Intelligence Migrator



## STREAMLINE YOUR MOVE TO UNX UNIVERSE



### INVENTORY SYSTEM CONTENT

- Scan your system for Web Intelligence reports using the criteria you specify
- Accurately plan and prioritize upgrade steps with a deep understanding of your BI system:
  - ◆ *Report Objects* ◆ *Universe Objects* ◆ *System Objects*
  - ◆ *Report/Universe Usage* ◆ *Report/Universe Structure*
  - ◆ *Schedules & Instances* ◆ *System Structure & Security*



### HIGH VOLUME REPOINTING OF REPORTS

- Reprint Web Intelligence reports in bulk from old UNV to new UNX
- Update existing reports or create a new copy in a custom location & naming convention
- Project-based approach to select and manage Web Intelligence reports conversion process
- Define a mapping strategy, or create custom mapping
- Scale conversion infrastructure to handle high volume scenarios with multiple conversion processors



### BULK CONVERSION OF UNIVERSES

- High volume conversion of universes from UNV to UNX format
- Use system inventory to set project priorities for the most important universes



### VALIDATE UPGRADE SUCCESS

- Automated bulk testing and validation
- Ensure a successful and accurate upgrade process
- Take the risk out of migration



### STRONG PROCESS CONTROLS

- Synchronize and scale your migration processes
- Enterprise-grade process controls
- Handle massive volumes of reports with distributed project management

# STREAMLINE YOUR MOVE TO UNX UNIVERSE

## Freemium Upgrade Offer

---

### Automate UNX Adoption with APOS Web Intelligence Migrator

APOS Web Intelligence Migrator helps you reduce risk, reduce cost, and increase speed of UNX upgrades through rapid, high volume conversion, bulk repointing, automated testing and strong process controls.

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#### APOS Freemium offer includes:

- ✓ Free Production deployment use of APOS Web Intelligence Migrator
- ✓ Scan and inventory your SAP BI systems
- ✓ Bulk convert all UNV universes to UNX
- ✓ Bulk repoint a target set of 200 WebI reports
- ✓ Validate migration success
- ✓ 100 days of free use
- ✓ Inventory multiple systems
- ✓ Guidance and support



Access now at  
[apos.com/freemium](https://apos.com/freemium)



# APOS Solutions for SAP BusinessObjects



## APOS Insight

### BI System Auditing

- System Inventory
- Security Analysis
- System Usage Analysis
- Report Impact Analysis

### BI Report Testing

- Automated Report Testing
- Regression Testing
- Validation of Report Data
- Report Performance Testing

### BI System Monitoring

- Advanced System Monitoring
- Operating Environment Monitoring
- Database Monitoring
- Process Monitoring

### BI Query Surveillance

- Real-time BI Query Monitoring
- Query Performance Alerting & Auditing
- Query Intervention; Remote Cancelling
- Sensitive Data Audit



## APOS Administrator

### Object Management

- Bulk Security Management
- Bulk Settings Management
- System Objects Promotion
- Connections Maintenance

### Schedule Management

- High-volume schedule management
- Multiple schedule properties editing
- Grid scheduling interface
- Repeatable scheduling templates

### Instance Management

- Manage entire instance inventory
- Granular instance search
- Stop, pause, release, reschedule
- Rapid recovery to failed schedules

## APOS Storage Center



- System Backup
- Content Archiving
- Content Versioning
- Selective Restoration
- Automated System Clean Up

## APOS Publisher



- Systematic Content Delivery
- Advanced Document Bursting
- Enhanced Content Distribution
- Security and Encryption
- Statement Generation

## APOS Web Intelligence Migrator



- Bulk conversion of Universes from UNV to UNX
- High-Volume Repoint Web Intelligence reports
- Success validation
- Controlled, project-based workflow

# APOS Solutions for SAP Analytics Cloud



## APOS Live Data Gateway

- High performance, live data connectivity from SAC to wide range of data sources



## APOS Publisher for Cloud

- Automated broadcasting and distribution of personalized SAC reports to target user groups



## APOS Insight for Cloud

- Enhanced Monitoring, Auditing and Report Testing for SAP Analytics Cloud



# Upcoming Events



## Breaking BI Barriers: Live Connectivity from SAP Analytics Cloud to non-SAP Data Sources

October 12, 2023 – 11 am Eastern Time

APOS Live Data Gateway is helping organizations remove obstacles and open new BI and analytics value through live data connectivity from SAP Analytics Cloud to a wide range of enterprise data assets.

**This session will focus on:**

### **How to leverage non-SAP data assets from your:**

- Cloud data environments, such as Snowflake, Databricks, Google, AWS, and Azure
- Relational sources such as SQL, Oracle, Teradata and DB2
- And many more sources

### **Latest updates and new capabilities of APOS Live Data Gateway, including:**

- Seamless security integration - SSO, OAuth
- Self-service modelling, and management of modelling assets
- Data transformations: geospatial, dimensions, hierarchies, prompts
- Performance advancements



**Register at [www.apos.com](http://www.apos.com)**



# Upcoming Events



## Breaking BI Barriers: Automated Broadcasting of SAP Analytics Cloud Reports

October 26, 2023 – 11 am Eastern Time

Many organizations that have adopted SAP Analytics Cloud find that their report broadcasting requirements are larger than SAC's built-in publications capabilities. This session will give you a clear view into how **APOS Publisher for Cloud** delivers on enterprise-level report broadcasting and distribution requirements.

**This session will focus on leveraging automated, data-driven SAC report broadcasting with:**

- Data-driven dynamic broadcasting
- Report broadcast destinations
- Multiple format options
- Consolidation of multiple reports
- Custom scheduling
- SAP BW & Datasphere user-based broadcasting
- High availability; distributed processing
- Security & administration



Register at [www.apos.com](http://www.apos.com)

# STAY CONNECTED



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**Interested in learning more about SAP Analytics  
Cloud and Sharing your experience?**

**JOIN THE SAP ANALYTICS CLOUD GROUP TODAY!**



Join easily by searching "SAP Analytics Cloud (SAC)" & Request to Join on  
LinkedIn!

# QUESTIONS?

Please enter your questions in the Q&A panel.



# Thank You!

**Get in Touch**

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