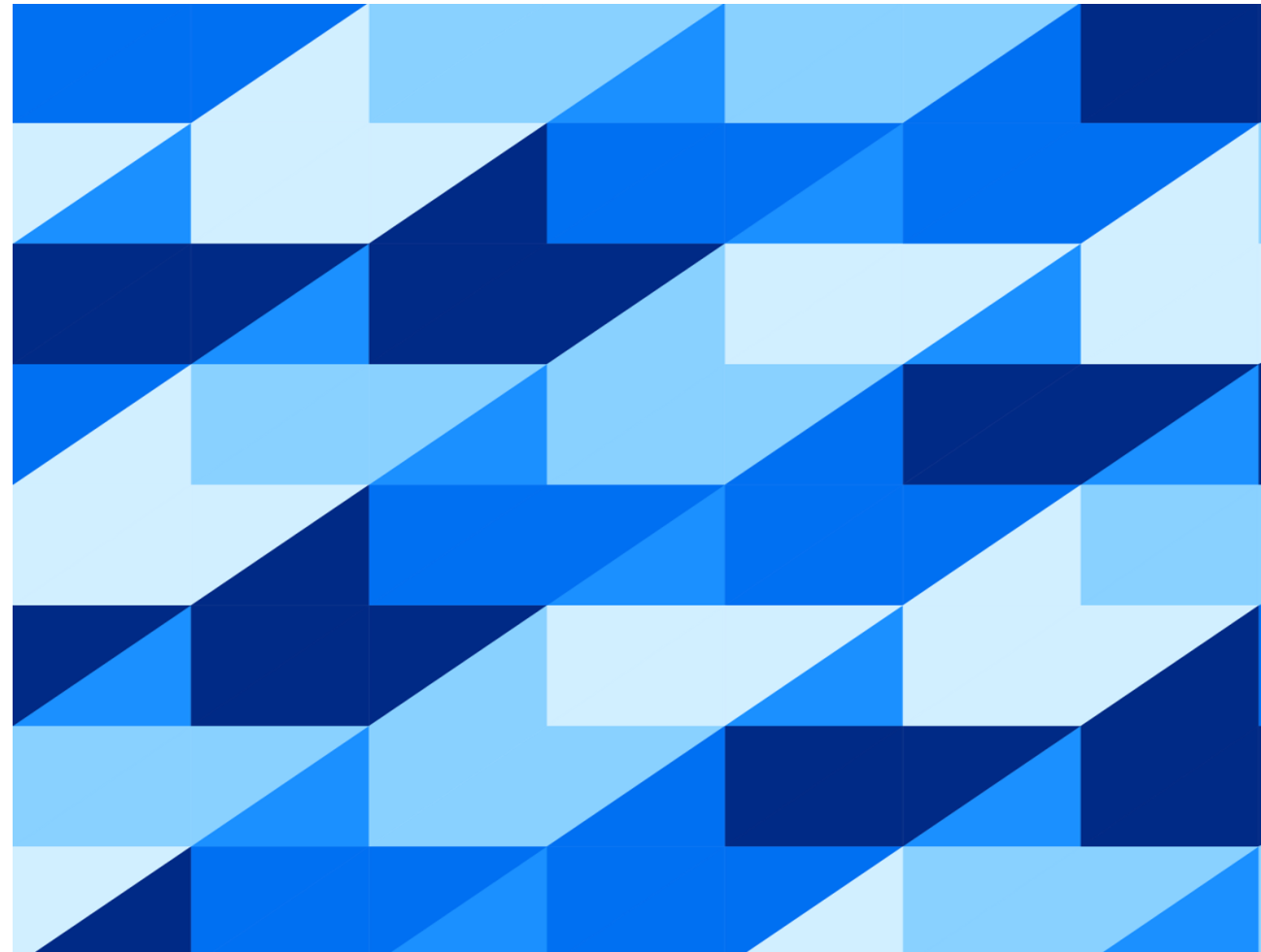
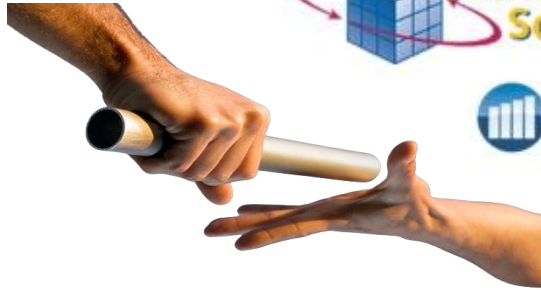


BusinessObjects 2025 - Olympic Relay

Your Ultimate Guide to Win with BI 2025 & Beyond



Presented by:



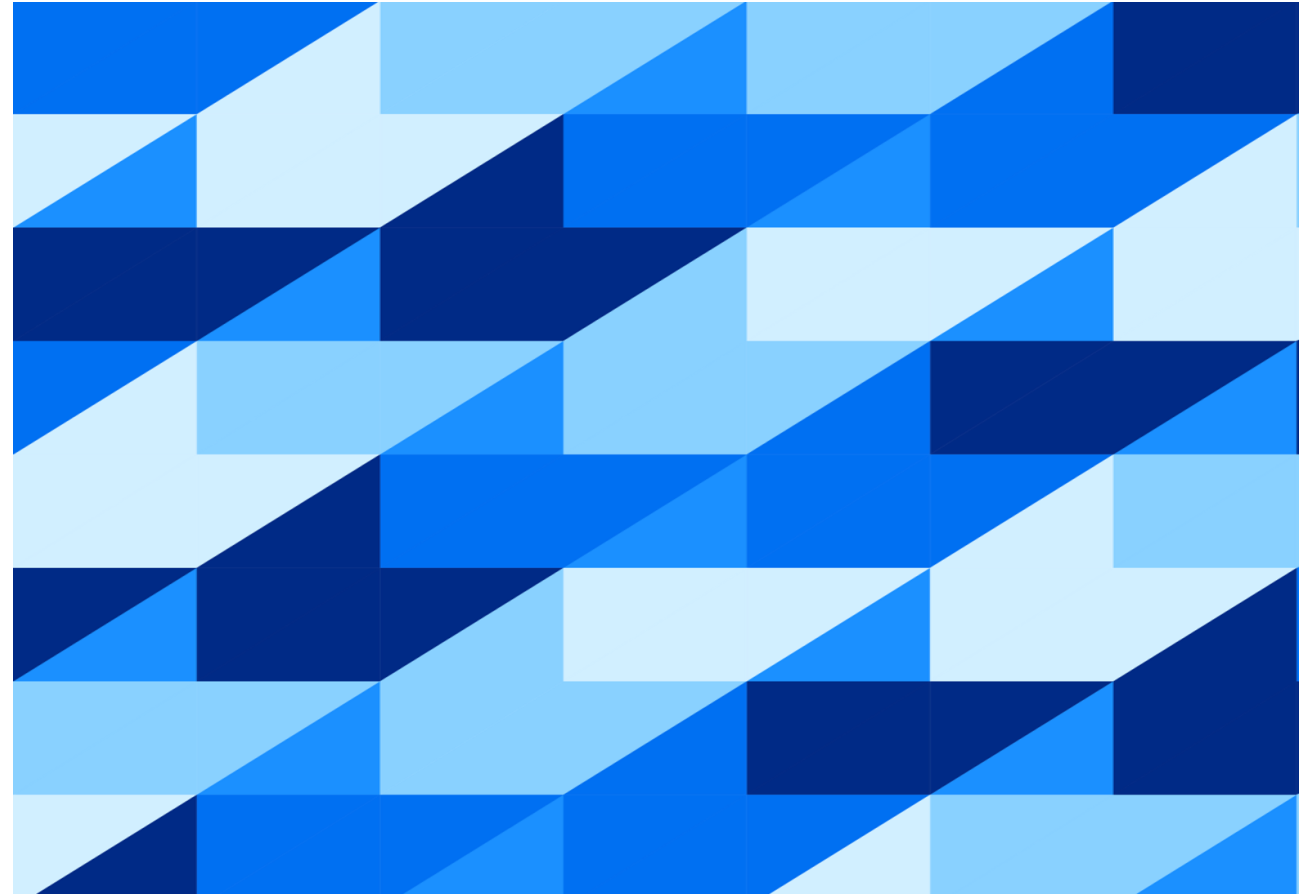
BusinessObjects 2025 - Olympic Relay

Your Ultimate Guide to Win with BI 2025 & Beyond



Welcome! The Presentation will begin shortly:

Presented by:



BusinessObjects 2025 - Olympic Relay

Your Ultimate Guide to Win with BI 2025 & Beyond



Today's Relay Participants:



Understanding the Business Objects Roadmap – BI 2025 and Beyond
Gary Bernstein – 20 Minutes



Key Steps to Win the Race to BI 2025
Alan Golden – 25 Minutes



Enhance, Improve & Extend the Value of Web Intelligence Reporting
Michael Trickey & Dallas Marks – 25 Minutes

Q & A/Discussion Session – 20 Minutes



Services:

- BI Assessments and Requirements
- Data Architecture Review and Design
- BI System Architecture
- Report & Dashboard Design and Development
- KPI and Metric Definition and Creation
- DW Design and Development
- Data Integration/ETL Services
- Data Quality/Data Assessments
- Statistical Analysis/Segmentation Analysis/Marketing Analytics
- Application/SDK Development
- Migration and Upgrade Services
- Portal Integration and Document Management
- Education & Mentoring Services

DataSense Solutions – Who We Are & What We Do:

- Founded in 1996
- Highly Skilled Services Provider Focused on Business Intelligence and Data Analytic Solutions
- Provide Consulting, Training and Mentoring Services
- Staff Augmentation, Project Based Services or On-Demand Deliverables
- Support Clients Through Tool Selection, Platform Transitions, Upgrades, Migrations, Content Development and Optimization.
- Cloud Expertise in: AWS, Azure, Snowflake, SAC, PCE.



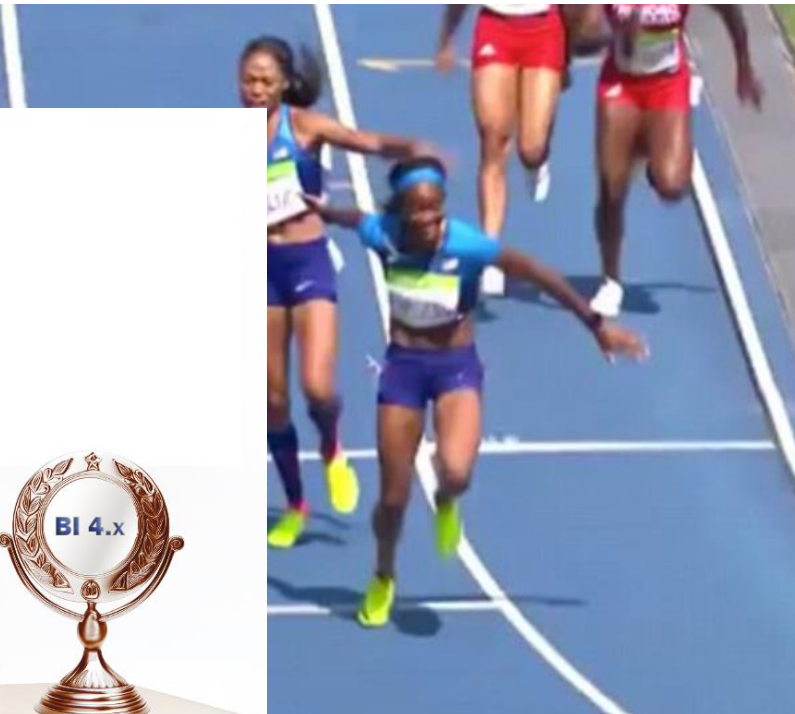
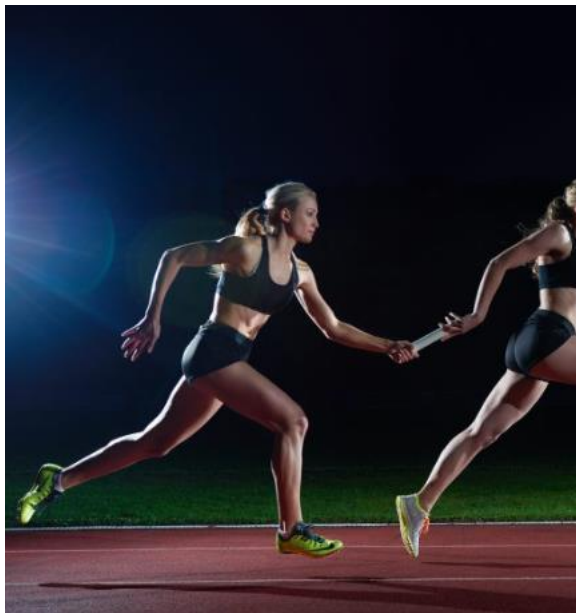
BusinessObjects 2025 - Olympic Relay

Your Ultimate Guide to Win with BI 2025 & Beyond

Interactive Survey Questions

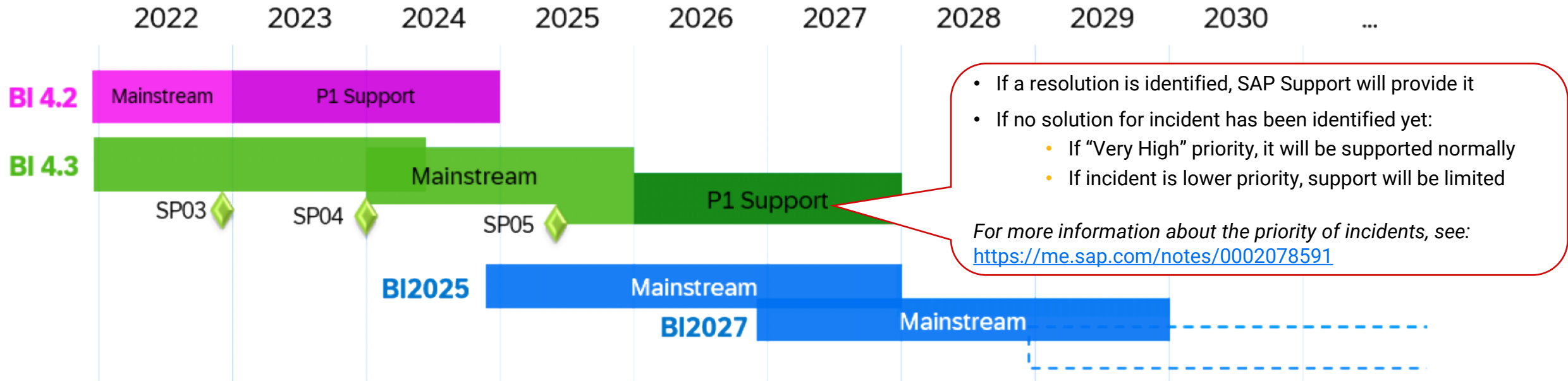
Comparison: Olympic Relay - Managing IT Systems

Knowledge, Teamwork, Practice, Awareness, Stability, Consistency, Coaching, Assistance, Guidance, Organization, Experience and many other skills.



SAP BusinessObjects BI Roadmap – Current Public Plan

Available on premise and as managed cloud beyond 2030



Starting with BI 2025, BusinessObjects will be aligned with the [SAP standard maintenance strategy](#):

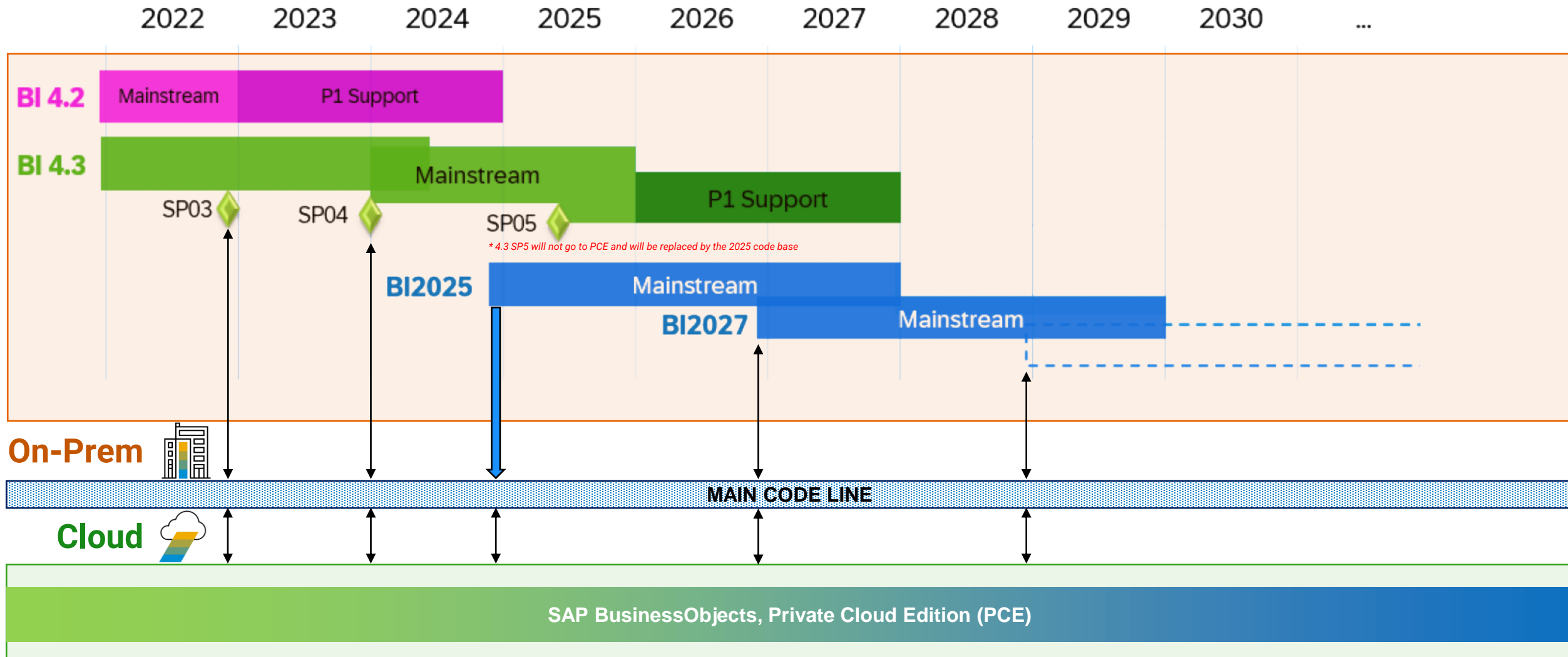
- Transition from annual support packages (supported for 18 months) to minor releases every 2 years (supported for 3 years).
- Incremental and severity ranked security patches released monthly
- Next planned release: BI 2027, available Q4 2026, supported until at least 2029

from: [SAP Analytics Business Intelligence Statement of Direction – May 2024](#)

Presentation material is based on current information available from SAP and is subject to change at any time.

SAP BusinessObjects BI Roadmap – Current Public Plan

Available on premise and as managed cloud beyond 2030



Presentation material is based on current information available from SAP and is subject to change at any time.

SAP BusinessObjects BI 2025

Investments are safe beyond 2030

Plan to release the first version of SAP BusinessObjects BI 2025 in Q4 2024, followed by Support Packages every year

Mainstream maintenance policy provides support until at least end of 2029, and 2031 for priority 1 support

Will focus ongoing investments on the most adopted tools:

- Web Intelligence and single source .unx universes
- Crystal Reports
- SAP Analysis for Microsoft Office
- Lumira Designer
- BI Platform

Provide alternatives to components for which are planed for end of support with BI 4.3 (end of 2027): Lumira, Crystal Reports for Enterprise, Analysis for OLAP, Live Office, SAP BusinessObjects Mobile, Universe Design Tool and .unv universes, multi-source universes and associated connectivity.

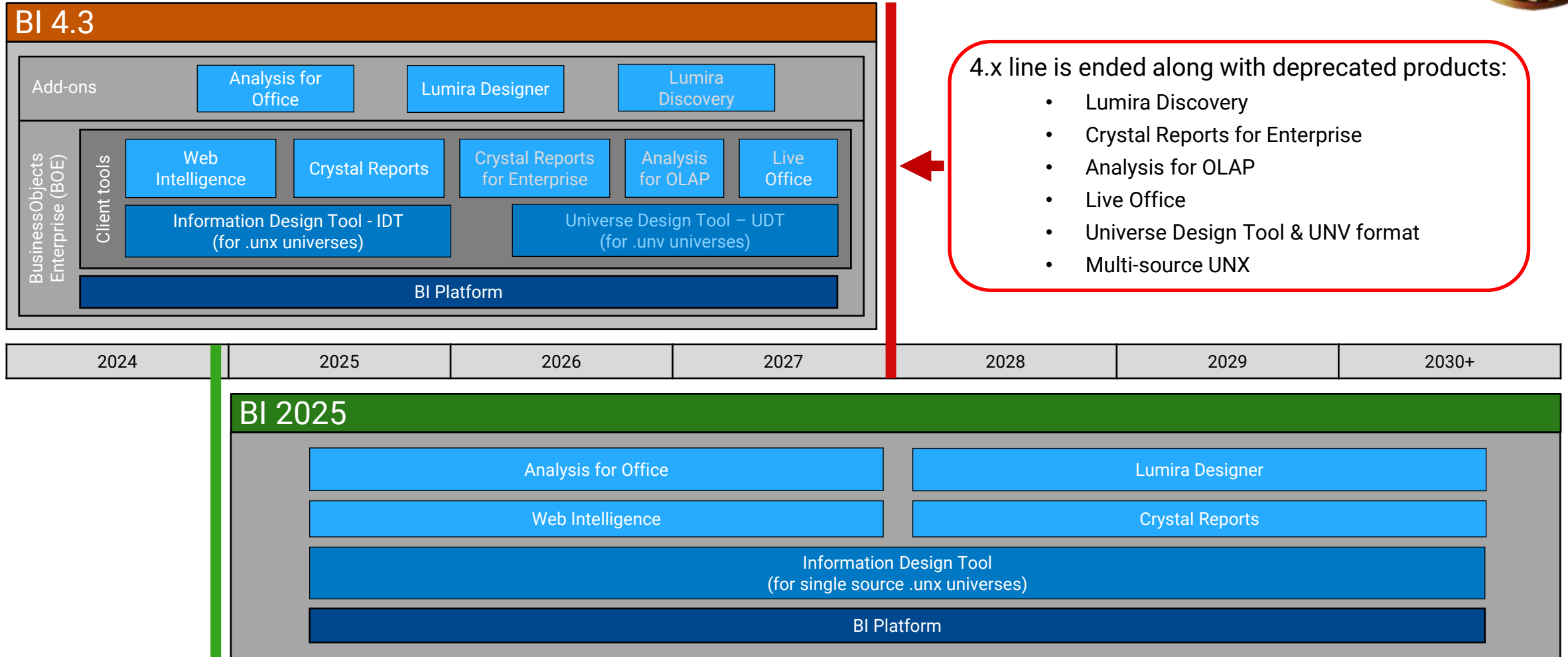
Plan is to only support Windows and Linux platforms

SAP BusinessObjects BI will continue to be available on premise and as a managed cloud through *private cloud edition*

Learn more in the [SAP Analytics Business Intelligence Statement of Direction](#)

SAP BusinessObjects portfolio

Rationalization strategy



SAP BusinessObjects portfolio

Planned end of support with BI 4.3 (end of 2027)

Component	Go to solution	Blog
Lumira Discovery	SAP Analytics Cloud	Accelerate your move from SAP Lumira Designer to SAP Analytics Cloud
Crystal Reports for Enterprise	Web Intelligence or Crystal Reports	Moving from Crystal Reports for Enterprise to Crystal Reports
Analysis for OLAP	SAP Analytics Cloud	SAP-BusinessObjects Analysis Edition For Olap Alternatives
Live Office	SAP Analysis for Microsoft Office Web Intelligence Document OData Access (4.3 SP2)	SAP BusinessObjects Live Office Alternatives
SAP BusinessObjects Mobile	Web browser on mobile devices	
Universe Design Tool (and .unv)	Information Design Tool (and .unx)	Unv is dead long live-unx
Multi-source Universes	Data blending in Web Intelligence or at the DB level	BusinessObjects Multi source Universes Alternatives

Supported platforms

- Plan to stop the support of AIX and Solaris platform after BI 4.3
- Preferred OS are Windows and Linux
- Crystal Reports 2020 services are supported on Windows only from version BI 4.3 SP2 on

SAP BusinessObjects BI 2025

Manage enterprise reporting use cases at scale

1

REACH MORE BUSINESS USERS

- Improve Web Intelligence business users experience with interactive dashboards
- New Web Intelligence offline artifact
- Desktop Viewer for Crystal Reports 2025 (Windows)

2

INCREASE POWER USERS' PRODUCTIVITY

- Improve Web Intelligence Power Users Experience
- Improve document creation for mobile
- Provide more connection capabilities in Crystal Reports 2025
- Crystal Reports 2025 RESTful SDK

3

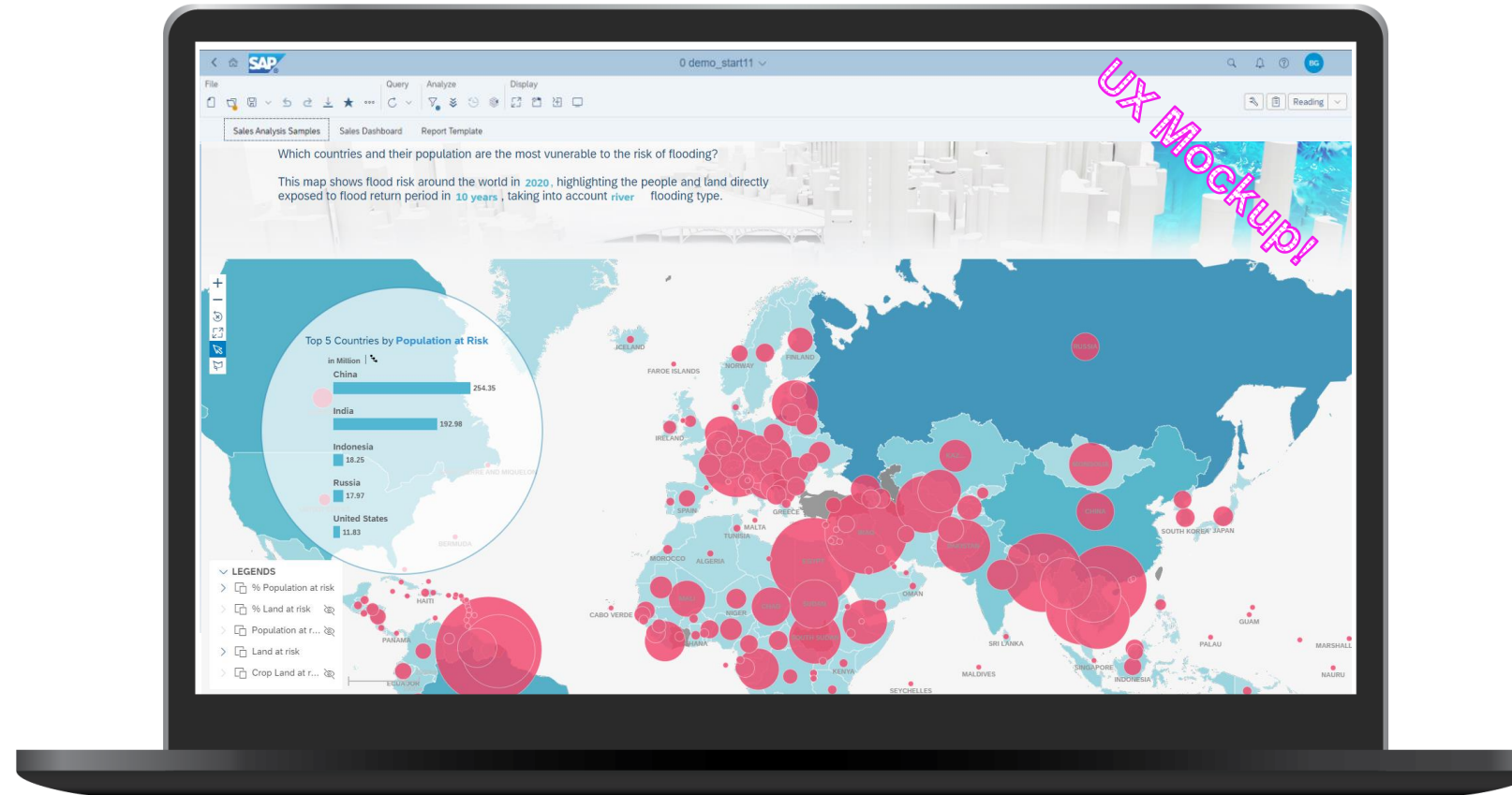
REDUCE TOTAL COST OF OWNERSHIP

- BI Launch Pad - provide dynamic access to information, and improve usability
- Ease installation, upgrade and preserve configuration
- Simplification of authentication

SAP BusinessObjects BI 2025 Web Intelligence

ENGAGE USERS WITH DASHBOARDS FEATURING NEW DYNAMIC VISUALISATIONS AND SPECIALIZED ELEMENTS

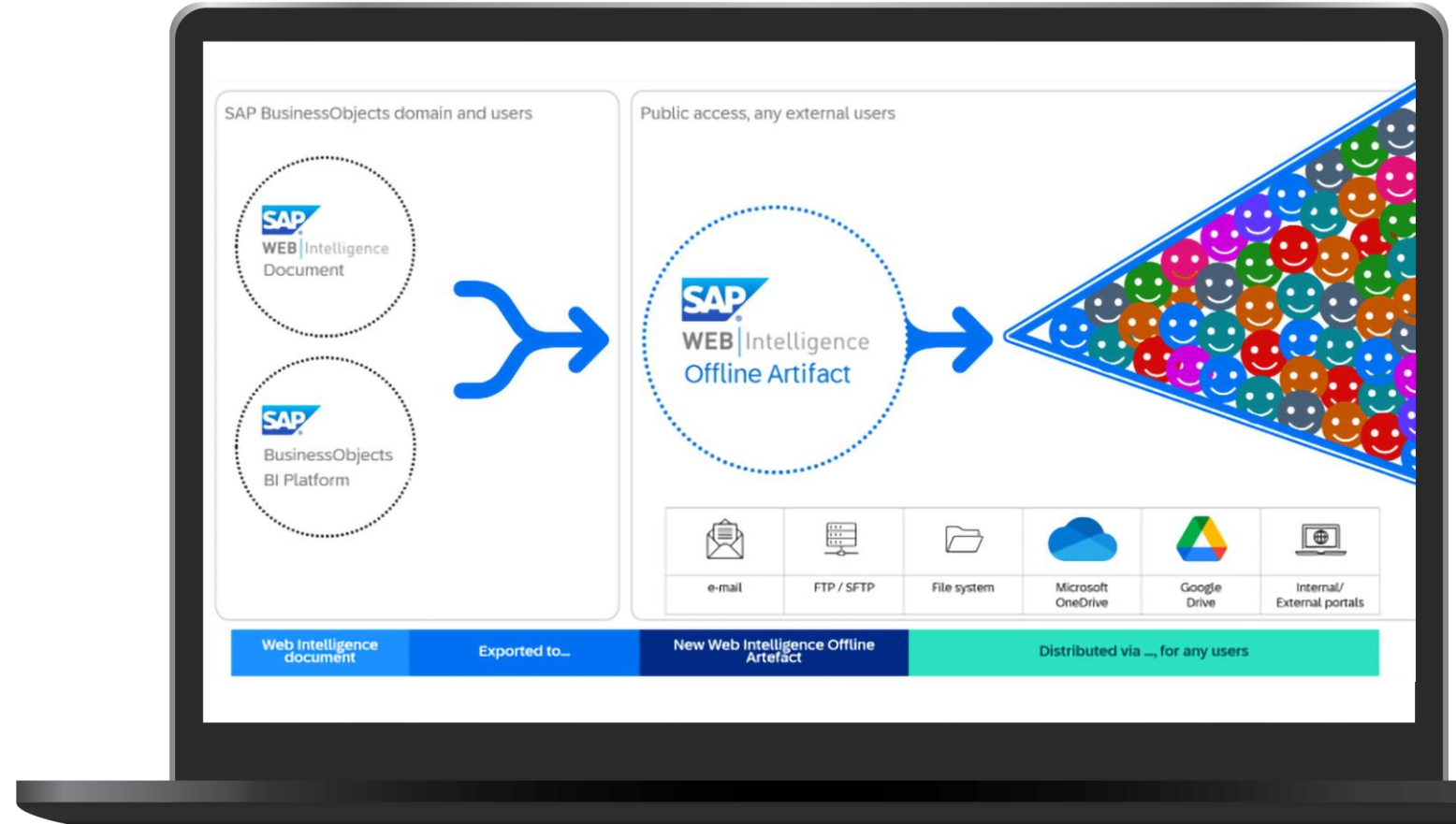
- Unlock creativity with our dedicated dashboard creation space, with custom canvas for any screen, 16/9 and mobile devices
- Elevate visual storytelling with our expanded range of chart types and new specialized charts like maps and exploratory widgets
- Experience deeper insights through redefined interactivity for your Reports and Dashboards, thanks to a variety of new widgets based on SAP UI5, including Tables, Filters and Containers



SAP BusinessObjects BI 2025 Web Intelligence

EXPAND USER ACCESS WITH NEW DOCUMENT FORMAT, DELIVERING DATA INSIGHTS OFFLINE

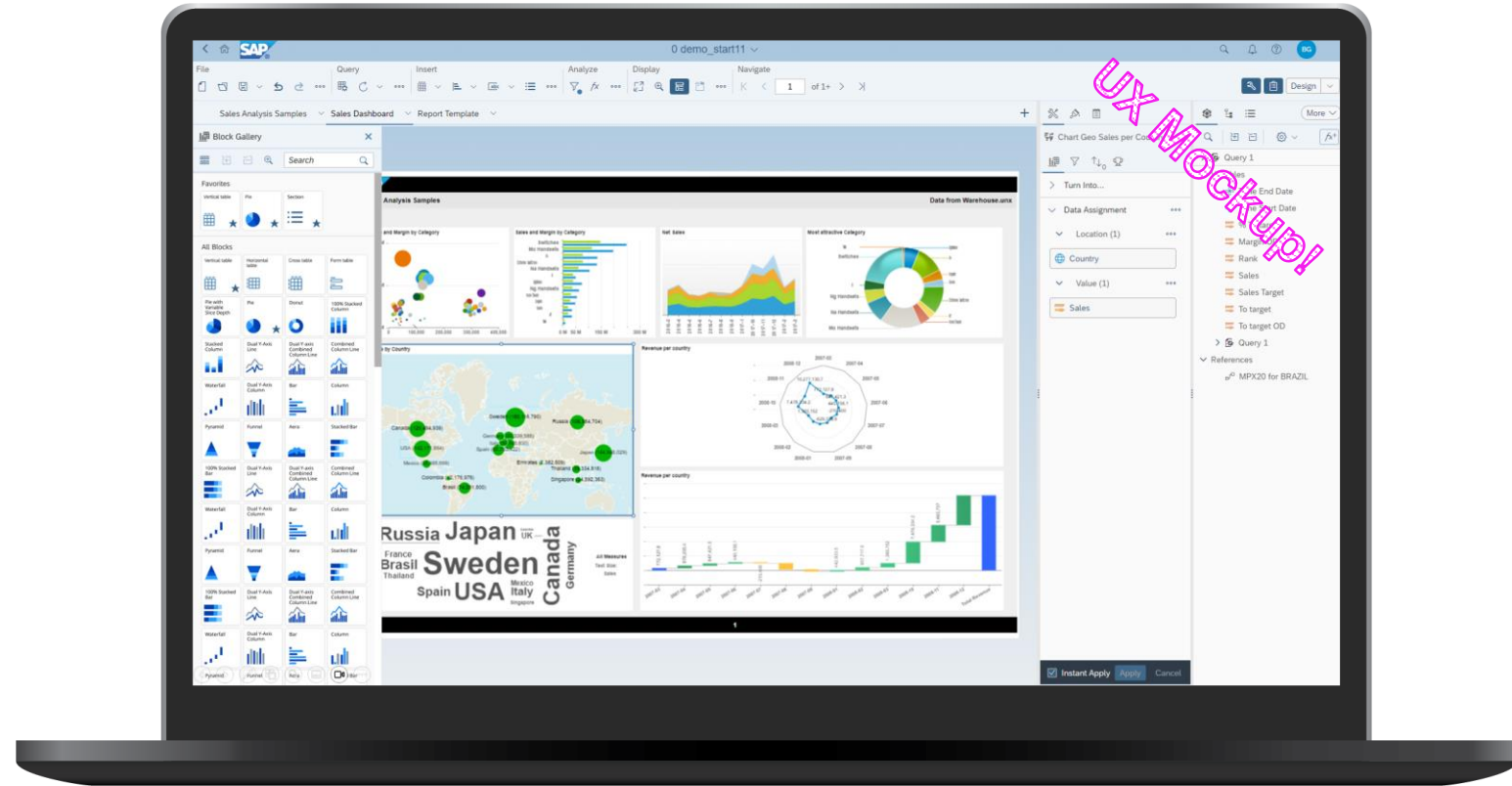
- Export your Dashboard into our new **“Web Intelligence Offline Artifact”**
- Use your favourite browser to open and consume it
- Access all data, interactivities, charts, and layouts even when disconnected from the BI platform
- Expand your reach effortlessly with free distribution, empowering more users to explore and engage



SAP BusinessObjects BI 2025 Web Intelligence

ENHANCE EFFICIENCY THROUGH TAILORED EXPERIENCES AND SIMPLIFIED REPORT GENERATION

- Accelerate business report delivery with user-friendly interface for ALL users, beginners and experts
- Enhanced formatting accessibility, prioritizing commonly used features
- Simplified user interaction, minimizing clicks for efficient action execution
- Access advanced formatting via scripting for unmatched customization



Product direction - SAP BusinessObjects Web Intelligence

Recently delivered*

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 Datasphere 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
- More combine operators
- Export transformed data cubes
- Format defined at objects level
- Cascading refresh for WID as a Source & OData Service

Planned

Visualizations, Interactivities and Dashboarding

- New SAP UI5 widgets : Filters, Tables, Containers
- Specialized charts : maps, explore
- Composite widget with scripting
- Custom canvas : 16/9, 4/3, mobile
- Custom Tooltips
- Enhanced interactivities between blocks

Shared analysis and assets off-line distribution

- Export to new offline artifact
- Access data, layout, visualizations, interactivities with no BOBJ dependency

Report creation workflows revisited

- Simplified data creation workflow
- Expose new widgets for ad-hoc analysis
- Diminution of the #actions needed to generate report
- Extend .CSS capabilities to widgets

Future

Better scripting capabilities for full control of App creation

Advanced ad-hoc data preparation thanks to exploration and suggestions

Dynamic canvas with responsive content and adapted user experience

Cohesive look and feel across your reports : theme creation and templates

SAP BusinessObjects BI 2025 BI Platform

SIMPLIFY MIGRATION PROJECTS TO MAKE THEM FASTER, MORE RELIABLE AND AT LOWER COST

- Preserve current configuration during installation of a new version or patch
- For pre and post installation of Application Server

USE OF STANDARD AUTHENTICATION PROTOCOLS TO INCREASE COMPATIBILITY BETWEEN SYSTEMS

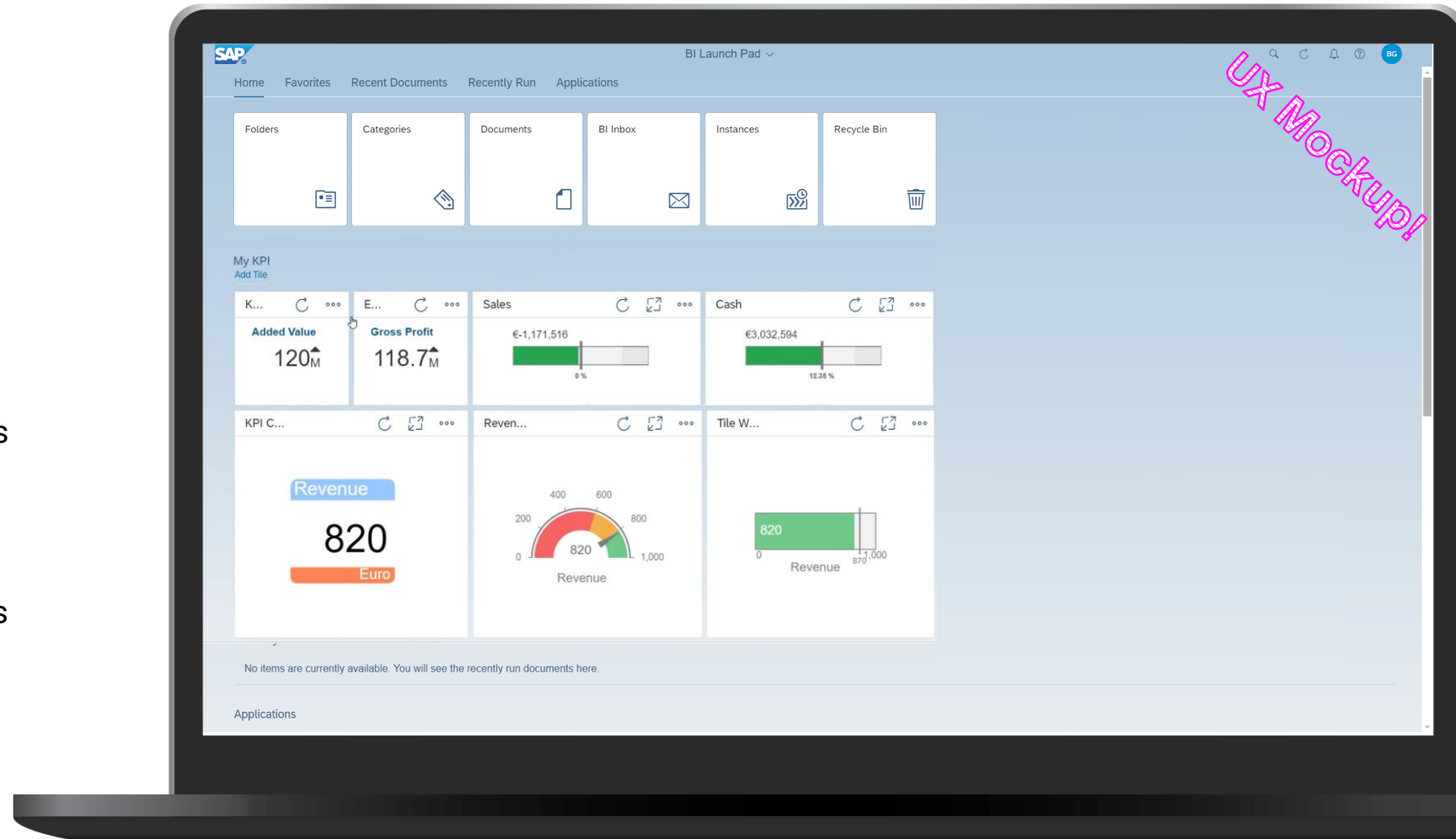
- SAML and OpenID authentication simplification
 - Guarantee automatic users provisioning
 - Simplify users administration and SAML and OpenID configuration
- End to end authentication workflow: users single sign-on to BILP as well as connection to DB



SAP BusinessObjects BI 2025 BI Platform

ALLOW IMMEDIATE ACCESS TO IMPORTANT INFORMATION AND REDUCE DISPLAY TIMES

- Dynamic and faster access to information through pinning KPIs or charts inside BI Launch Pad tiles
- BI Launch Pad performance improvements
 - Tiles and documents loaded faster
 - BI Launch Pad CMS queries optimized
- BI Launch Pad UX improvements
 - Open the same document multiple times with different prompts
 - Add Duplicate command



Product direction - SAP BusinessObjects BI Platform

Recently delivered*

BI Launch Pad

- Handle multiple events with scheduling
- BI Workspace UX

Installation

- Improve installation experience by reducing TCO
- New Unix script to generate the start scripts for SAP BusinessObjects

Server Management

- Improve performances of SQL queries created by CMS database (bind variables with parameters instead of literals)

Planned

BI Launch Pad

- New tiles with KPIs and charts
- Improved performance
- Better user experience

Installation

- Simplify authentication for OpenID and SAML
- Preserve current configuration during installation of a new version or patch

Future

More control on scheduling definition, execution and notification

Improve BI Launch Pad search and alerts

Improve control and monitoring

Deployment in virtual environment

BTP service integration within BusinessObjects as an option based on use cases

* Up to SAP BusinessObjects BI 4.3 SP04, more exist

SAP BusinessObjects BI 2025 Crystal Reports

ENABLE MOVE TO STRATEGIC STACK AND PROVIDE MORE CONNECTION CAPABILITIES

- Accelerate move to Crystal Reports 2025 by new “SAP BW (DSL)” driver
 - Simpler field mapping when moving from Crystal Reports for Enterprise
 - Better hierarchy support
 - Renewed parameter prompting UI
- Enhance Crystal Reports 2025 on relational Unx connection:
 - Keep your reports synchronized with underlying Universe or BW query through Verify Database function
 - Provide more flexibility with additional filter operators in Query Panel

The screenshot displays the SAP Crystal Reports Query Panel interface. The query name is 'BW_Sales_query'. The filter section shows a query filter for 'Country' equal to 'Germany'. The result objects include Country, Region, City, Product, and Order Amount. The preview table shows 18 rows of data with columns for Country, Region, City, Product, Order Amount, and Order Quantity.

Country	Region	City	Product	Order Amount	Order Quantity
Germany	Bayern	Tulsa	Triumph Pro ...	19834.79	27
Germany	Bayern	Tulsa	Guardian ATB...	34287.09	25
Germany	Berlin	Sterling Heights	Active Outdo...	12020.77	23
Germany	Berlin	Sterling Heights	Triumph Pro ...	42757.44	39

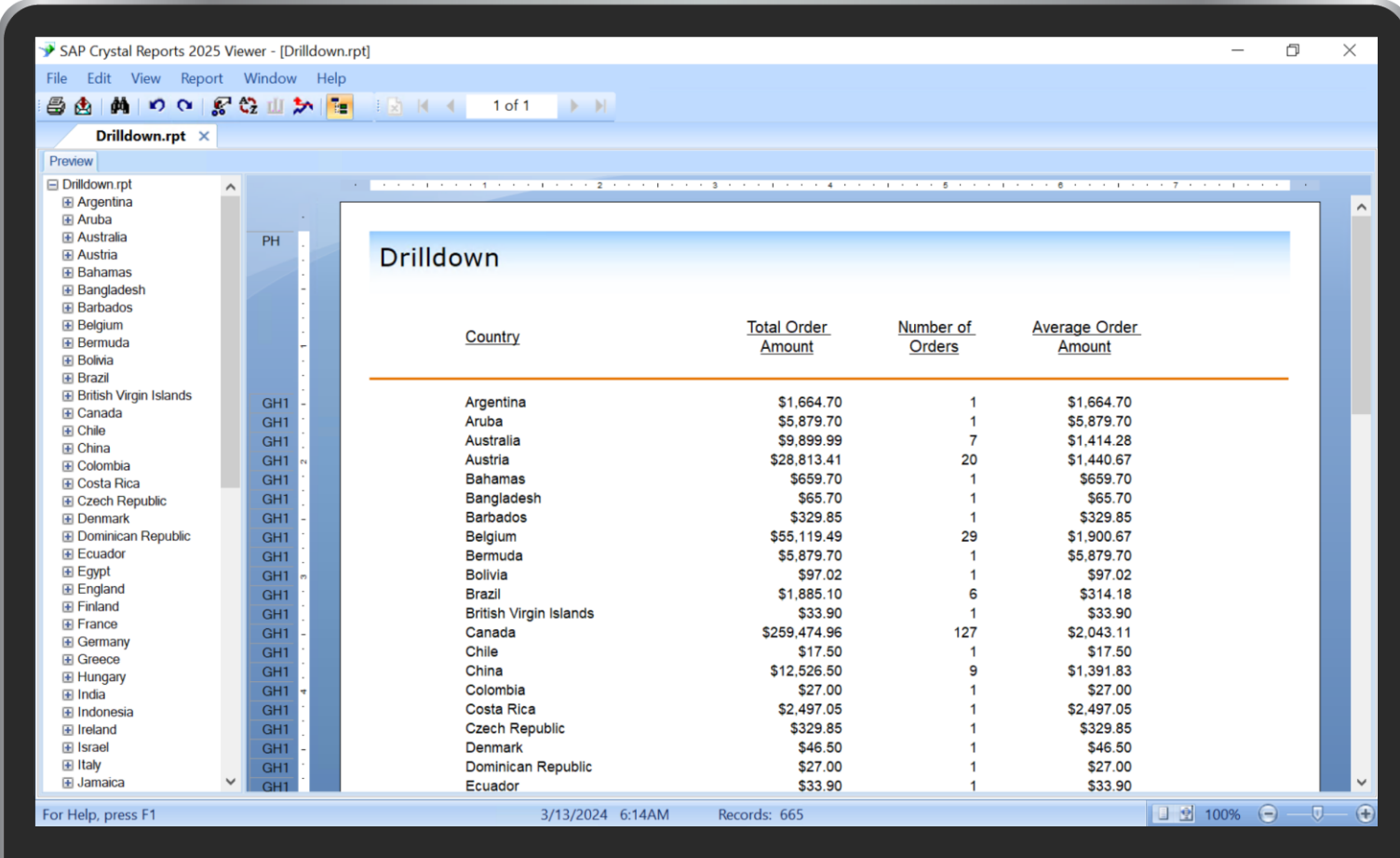
SAP BusinessObjects BI 2025 Crystal Reports

REACH MORE CASUAL USERS WITH BETTER DESKTOP VIEWER PERFORMANCE

- Better support of Crystal Reports 2025 reports, using the same report engine
- Access all data, interactivities, charts, and layouts even when disconnected
- Faster and reliable

INCREASE POWER USERS' PRODUCTIVITY WITH RESTFUL SDK

- Many improvements to the Crystal Reports 2025 RESTful SDK



The screenshot displays the SAP Crystal Reports 2025 Viewer interface. The window title is "SAP Crystal Reports 2025 Viewer - [Drilldown.rpt]". The menu bar includes File, Edit, View, Report, Window, and Help. The toolbar shows various navigation and printing icons. The report is titled "Drilldown.rpt" and is in "Preview" mode. The left pane shows a tree view of the report structure, including a list of countries and a "PH" field. The main area displays a table with the following data:

<u>Country</u>	<u>Total Order Amount</u>	<u>Number of Orders</u>	<u>Average Order Amount</u>
Argentina	\$1,664.70	1	\$1,664.70
Aruba	\$5,879.70	1	\$5,879.70
Australia	\$9,899.99	7	\$1,414.28
Austria	\$28,813.41	20	\$1,440.67
Bahamas	\$659.70	1	\$659.70
Bangladesh	\$65.70	1	\$65.70
Barbados	\$329.85	1	\$329.85
Belgium	\$55,119.49	29	\$1,900.67
Bermuda	\$5,879.70	1	\$5,879.70
Bolivia	\$97.02	1	\$97.02
Brazil	\$1,885.10	6	\$314.18
British Virgin Islands	\$33.90	1	\$33.90
Canada	\$259,474.96	127	\$2,043.11
Chile	\$17.50	1	\$17.50
China	\$12,526.50	9	\$1,391.83
Colombia	\$27.00	1	\$27.00
Costa Rica	\$2,497.05	1	\$2,497.05
Czech Republic	\$329.85	1	\$329.85
Denmark	\$46.50	1	\$46.50
Dominican Republic	\$27.00	1	\$27.00
Ecuador	\$33.90	1	\$33.90

The status bar at the bottom shows "For Help, press F1", the date and time "3/13/2024 6:14AM", the number of records "Records: 665", and the zoom level "100%".

Product direction - Crystal Reports

Recently delivered*

User Experience

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

Increase Productivity

- Mark Favorite within Fiori Viewer

Extend Possibility

- Create Crystal Reports 2020 report on relational UNX
- View / schedule / publish Crystal Reports 2020 UNX reports in BOE
- 64bit Crystal Reports add-on for Business Suite (ALV Adapter)

Enhance Security

- Export password protected PDF from Fiori Viewer

Planned

Enable Move To Strategic Stack

- Crystal Reports 2025 on OLAP connection to BW via BICS
- Enhance CR2025 on relational Unx connection

Reach More Casual Users

- Desktop Viewer for Crystal Reports 2025 (Windows)

Increase Power Users' Productivity

- Crystal Reports 2025 RESTful SDK

Future

Further enhance CR SDKs

Further strengthen connectivity capabilities

Simplify move from CR4E to CR202x

Improve CR202x Designer usability

* Up to SAP BusinessObjects BI 4.3 SP04, more exist

BusinessObjects 2025 - Olympic Relay

Your Ultimate Guide to Win with BI 2025 & Beyond



Gary Bernstein
Understanding the Business Objects Roadmap – BI 2025 and Beyond

Passing the baton to:



Alan Golden
Key Steps to Win the Race to BI 2025 - 25 Minutes



Michael Trickey & Dallas Marks
Enhance, Improve & Extend the Value of Web Intelligence Reporting - 25 Minutes

Q & A/Discussion Session – 20 Minutes



Thank you.

Contact information:

Gary Bernstein

Email: GaryB@datasensesolutions.com

Phone: 781-487-2625 x202



Alan Golding
Solution Consulting Manager
APOS

The Road Ahead for SAP BusinessObjects





SAP BI 2025
Q4 2024

BusinessObjects 4.3
Service Pack 04
Q4 2023

SAP BI 2027

BusinessObjects 4.3
Service Pack 5
Mid - 2025

SAP
BUSINESS
OBJECTS

Getting to BI 2025

Winning the Race to BI 2025

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



Winning the Race to BI 2025

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.

Establish 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



Winning the Race to BI 2025

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.



Winning the Race to BI 2025

SAP BusinessObjects portfolio

Not delivered from BI 2025 on

Component	Go to solution	Blog
Lumira Discovery	SAP Analytics Cloud	Accelerate your move from SAP Lumira Designer to SAP Analytics Cloud
Crystal Reports for Enterprise	Web Intelligence or Crystal Reports	Moving from Crystal Reports for Enterprise to Crystal Reports
Analysis for OLAP	SAP Analytics Cloud	SAP-BusinessObjects Analysis Edition For Olap Alternatives
Live Office	SAP Analysis for Microsoft Office Web Intelligence Document OData Access (4.3 SP2)	SAP BusinessObjects Live Office Alternatives
SAP BusinessObjects Mobile	Web browser on mobile devices	SAP BusinessObjects Mobile alternatives
Universe Design Tool (and .unv)	Information Design Tool (and .unx)	Unv is dead long live-unx
Multi-source universes and associated connectivity	Data blending in Web Intelligence or at the DB level	BusinessObjects Multi source Universes Alternatives

Supported platforms

- We will stop the support of AIX and Solaris platform after BI 4.3
- Preferred OS are Windows and Linux
- Crystal Reports 2020 services are supported on Windows only from version BI 4.3 SP2 on

Winning the Race to BI 2025

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



Winning the Race to BI 2025

Upgrade platform to Version 4.3

Some 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



Winning the Race to BI 2025

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

Winning the Race to BI 2025

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

Winning the Race to BI 2025

How can APOS help?



Preparing for BI 2025:

UNV Deprecation

Upgrade Challenge: **UNV Deprecation**

Across BusinessObjects deployments, the UNV universe is the most common and prevalent universe format in use.

- UNV format universe introduced in early 1990s
- UNX format universe introduced in 2011 (BI 4.0) but significant percentage of deployments continued fully with UNV, or only partial use of UNX
- Vast amounts of Web Intelligence reports rely on UNV universes
- BI 2025 will not support UNV, so all relevant content must be migrated to UNX format

Solution Requirement: **Upgrade Content**

Relevant content for upgrade to UNX format includes:

- All UNV universes must be upgraded to UNX format
- All Web Intelligence reports that connects to those universes must have their connection changed from the old UNV universe to the new UNX universe

Solution Barrier: **Heavy Manual Process**

Manual update of all universes and individual reports is very time consuming, so many organizations have avoided starting the project of UNX adoption due to:

- Project budget restrictions
- Limited team resources, higher priority projects
- Challenge of coordination with BI User departments
- Risk avoidance

Solution Results: **Automate UNX Adoption Steps**

Automate the process of:

- Manual conversion of universes from UNV to UNX format
- Publish new UNX universe
- Manual repointing of Web Intelligence report to new UNX format universe
- Verify and validate the repointed Web Intelligence report results
- Publish the repointed Web Intelligence report

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

UNX Universe Adoption Considerations

Example Manual Upgrade Estimate

- 50 universes
- 5000 Web Intelligence reports
 - @ 7 minutes/universe
 - @ 20 - 27 minutes/report
 - = ~1700 - 2250 hours (212 – 281 days)
- 100 universes
- 75000 Web Intelligence reports
 - = ~25700 - 34450 hours (3213 – 4306 days)

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.

UNV Reports



UNX Reports

Web Intelligence Repointing Step 1 – Select

The screenshot shows the APOS Web Intelligence Migrator application. The interface includes a menu bar (File, Edit, Action, View, Help) and two tabs: BI Search and Insight Search. The search criteria are set to 'Location - Exact' with the value '6275'. A dropdown menu for 'Object Type' is open, showing options like Name, Location, Object Ids, Location - Hierarchy, Location - Exact (selected), and Owner. Below the search criteria is a table of results with columns for Object Type, Owner Ids, Location, Revision, and Owner.

Object Type	Owner Ids	Location	Revision	Owner
Webi	Webi by Universe Name Webi by Universe Id	isting b... /Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Pending Orders By Su...	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Pending Orders By Pro...	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Pending Orders By Em...	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Orders by Product Cla...	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Orders by Product	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Orders by Country	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Order Information	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Last Year's Sales by C...	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Employee Listing	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme Customer List by Country	/Freds Sample Webi Reports/...		Administrator
Webi	Xtreme and Adv Works Orders	/Freds Sample Webi Reports/...		Administrator



Web Intelligence Repointing Step 2 – Process

The screenshot displays the APOS Web Intelligence Migrator interface. The main window shows a list of Webi objects with columns for Webi Name, ID, Processed, Committed, Last Status, *Data Type, *Value, *Advanced, and *Errors. A context menu is open over the list, showing options like Commit..., Export to CSV..., and Process... The Process... option is highlighted, and a sub-menu is visible with options: With Specific Universe and With Universe Conversion Matrix.

APOS Web Intelligence Migrator

File Edit Action View Help

BI Search Insight Search

Search By: Location - Exact 6275

Object Type: Name Location Object Ids Location - Hierarchy Location - Exact Owner Owner Ids Webi by Universe Name Webi by Universe Id

Object Type: Xtreme Pending Orders By Su Xtreme Pending Orders By Pr Xtreme Pending Orders By Er Xtreme Orders by Product Cla Xtreme Orders by Product Xtreme Orders by Country Xtreme Order Information Xtreme Last Year's Sales by C Xtreme Employee Listing Xtreme Customer List by Cour Xtreme and Adv Works Order

Project - Sales&Marketing.aposproj

Result Filters

Unmodified Successful Needs Manual Refresh Unsuccessful Skipped Committed Submitted

Webi Name	ID	Processed	Committed	Last Status	*Data Type	*Value	*Advanced	*Errors
** Xtreme and Adv Wo					?	?	?	0
** Xtreme Customer Li					?	?	?	0
** Xtreme Employee Li					?	?	?	0
** Xtreme Last Year's					?	?	?	0
** Xtreme Order Inform					?	?	?	0
** Xtreme Orders by C					?	?	?	0
** Xtreme Orders by P					?	?	?	0
** Xtreme Orders by P					?	?	?	0
** Xtreme Pending Ord					?	?	?	0
** Xtreme Pending Ord					?	?	?	0
** Xtreme Pending Ord					?	?	?	0
** Xtreme Product Cla					?	?	?	0

Commit...
Export to CSV...
Export Conversion Errors to CSV...
High Availability Options...
Process...
Reload Webi Information
Refresh Universe Info on Webi
Retrieve Universe Information from Insight
Remove from Project...
Reprocess...

With Specific Universe
With Universe Conversion Matrix

Web Intelligence Repointing Step 3 – Validate

The screenshot displays the APOS Web Intelligence Migrator interface. The main window shows a search results table with columns for 'Webi Name', 'ID', and 'Processed'. A context menu is open over the table, with 'Process...' selected. The 'Webi Validation Options' dialog box is overlaid on the right, showing configuration options for validation.

APOS Web Intelligence Migrator

File Edit Action View Help

BI Search Insight Search

Search By: Location - Exact 6275

Object Type: Name, Location, Object Ids, Location - Hierarchy, Location - Exact, Owner, Owner Ids, Webi by Universe Name, Webi by Universe Id

Object Type	Owner Ids
Webi	Xtreme Pending Orders By Su...
Webi	Xtreme Pending Orders By Pr...
Webi	Xtreme Pending Orders By Er...
Webi	Xtreme Orders by Product Cla...
Webi	Xtreme Orders by Product
Webi	Xtreme Orders by Country
Webi	Xtreme Order Information
Webi	Xtreme Last Year's Sales by C...
Webi	Xtreme Employee Listing
Webi	Xtreme Customer List by Cour...
Webi	Xtreme and Adv Works Order...

Project - 2023-3-7

Result Filters: Unmodified Successful Needs Manual Refresh

Webi Name	ID	Processed
** Xtreme and Adv Works Order...	5071891	<input checked="" type="checkbox"/>
** Xtreme Customer List by Cour...	5071896	<input checked="" type="checkbox"/>
** Xtreme Employee Listing	5071857	<input checked="" type="checkbox"/>
** Xtreme Last Year's Sales by C...	5071855	<input checked="" type="checkbox"/>
** Xtreme Order Information	5071859	<input checked="" type="checkbox"/>
** Xtreme Orders by Country	5071847	<input checked="" type="checkbox"/>
** Xtreme Orders by Product Cla...	5071845	<input checked="" type="checkbox"/>
** Xtreme Orders by Product	5071915	<input checked="" type="checkbox"/>
** Xtreme Orders by Product	5071875	<input checked="" type="checkbox"/>
** Xtreme Pending Orders By Su...	5071877	<input checked="" type="checkbox"/>
** Xtreme Pending Orders By Pr...	5071869	<input checked="" type="checkbox"/>
** Xtreme Pending Orders By Er...	5071903	<input checked="" type="checkbox"/>
** Xtreme Product Classification		

Context Menu:

- Commit...
- Export to CSV...
- Export Conversion Errors to CSV...
- High Availability Options...
- Process...
- Reload Webi Information
- Refresh Universe Info on Webi
- Retrieve Universe Information from...
- Remove from Project...
- Reprocess...

Webi Validation Options

Specify Webi Validation Options

Source Document

Webi Document Latest Instance Latest Recurring Instance

Validate As

Current User (administrator) Report Owner Specific User: Felix

⚠ This feature requires that BI impersonation and trusted authentication be enabled

Basic Validation Options

Validate Data Types Validate Values

Count Errors Sort Result Set Before Validating

Advanced Validation Options (Requires both basic validations be performed)

Maximum number of simultaneous validations: 5

Restrict validation to

First 1 KB Last 1 KB Ignore invisible characters

Specified columns: Skip first 1 rows

Example: A, C-E, G will validate columns A, C, D, E, G.

Warning: When using both the First KB and the Skip first rows options, if the value of the First KB option isn't large enough to contain more rows than the value of the Skip first rows option, the validation will always be considered as successful, as there will be no rows eligible to validate

Discard results of previous validations

Validate Cancel

Web Intelligence Repointing Step 4 – Commit

The screenshot shows the APOS Web Intelligence Migration tool interface. The main window displays a search results table with columns for Object Type and Name. A search filter is applied for 'Location - Exact'. A 'Webi Commit Options' dialog box is open, allowing the user to specify commit options for the selected Webi document.

Webi Commit Options

Specify Webi Commit Options

- Backup original Webi document before committing
- Include Security
- Commit Webi document to previously designated Webi Target Path
Selecting this option will result in a new Webi document located in your designated Webi Target Path
- Delete original Webi document
- Commit Webi document to original Webi document's location
Selecting this option will cause the original Webi document to be updated with the new universe information.
- Maintain original submitter for recurring instances

Buttons: Commit, Cancel

Discard results of previous validations

Buttons: Validate, Cancel

Preparing for BI 2025:

Streamline System Content

Upgrade Challenge: **Unnecessary System Content**

Over time, most BusinessObjects deployment have significant growth in the amount of report content and other system content within the BusinessObjects system.

- It is very common for this content to become outdated, unused, and no longer relevant.
- Many organizations are left with a proliferation of content that does not need to exist in the system, and this 'technical debt' leads to unnecessary cycles, workloads and inefficiencies during an upgrade process.
- Content migration, management, storage, security and testing are all executed needlessly on this system content.

Solution Requirement: **Streamline System Content**

In order to simplify the migration process, the excess and unnecessary content needs to be removed from the system. By removing from the system, it is removed from all of the upgrade and migration processes, and is no longer technical debt for the system.

Solution Barrier: **Poor Visibility + Manual Actions**

While the concept of streamlining the system and removing unnecessary content is simple in concept, challenges exist in executing this efficiently and effectively:

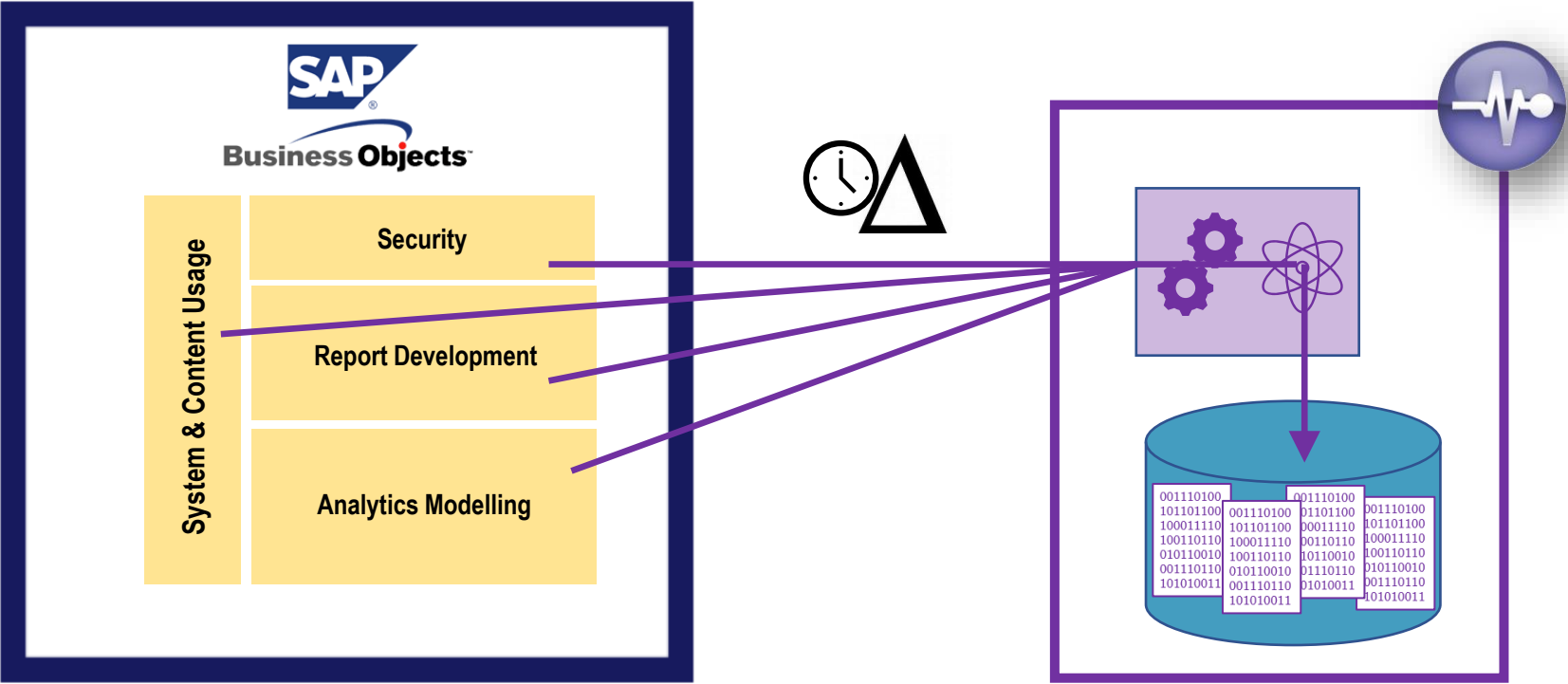
- Finding unused content accurately
- Prioritize content for retention or deletion
- Removing content with granular control
- Retaining BI assets for potential future use or compliance

Solution Results: **Automated System Clean Up**

Automate the process of:

- Isolating unnecessary and unused reports
- Archive the BI asset in an offline repository for future access when needed
- Delete the unnecessary report from the main BusinessObjects system
- Repeat the automated steps in an ongoing manner

System Metadata

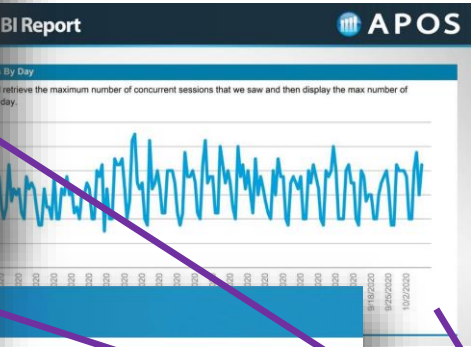


System Analysis

APOS Insight

List Objects by Type for System: PRODUCTION

Object Type	Number of Objects	Object Type	Folder	SI Name
ClientAction	468	AdminConsole	\\jpos\insight\6400\Application Folder\Root Folder 99	61 Administration Console
View	126	AdminTool	\\jpos\insight\6400\Application Folder\Administrative Tools	606 Security Query Export
Report	84	AdminTool	\\jpos\insight\6400\Application Folder\Administrative Tools	622 Update Authentication Group Membership
ClientAction	68	AdminTool	\\jpos\insight\6400\Application Folder\Administrative Tools	631 Update Authentication Group Membership and User Names
MON ManageEntityStatus	28	AdminTool	\\jpos\insight\6400\Application Folder\Administrative Tools	4853 Principal File Import
CCSI DataConnection	15	AlertingApp	\\jpos\insight\6400\Application Folder\Root Folder 99	534 Alerting
PlatformScreenContentEvo	11	AD Plugin	\\jpos\insight\6400\Application Folder\Root Folder 99	4360 Analysis Office
TextTemplate	9	AppJavation	\\jpos\insight\6400\Application Folder\Root Folder 99	4408 BI Workspaces
MON Probe	8	AutomationFramework	\\jpos\insight\6400\Application Folder\Root Folder 99	4451 Automation Framework
DLL MetadataFile	6	BEX BE/Winb	\\jpos\insight\6400\Application Folder\Root Folder 99	4362 BEX BE/Winb
PlatformScreenContent	5	BECommentaryApplication	\\jpos\insight\6400\Application Folder\Root Folder 99	4919 Commentary Application
WorkflowTemplate	7	Event	\\jpos\insight\6400\Application Folder\Root Folder 99	4303 BI Administration Cockpit
LCHab	6			
PlatformScreenContent	5			
FavoriteFolder	4			



APOS Insight

Schedules - Inactive Report

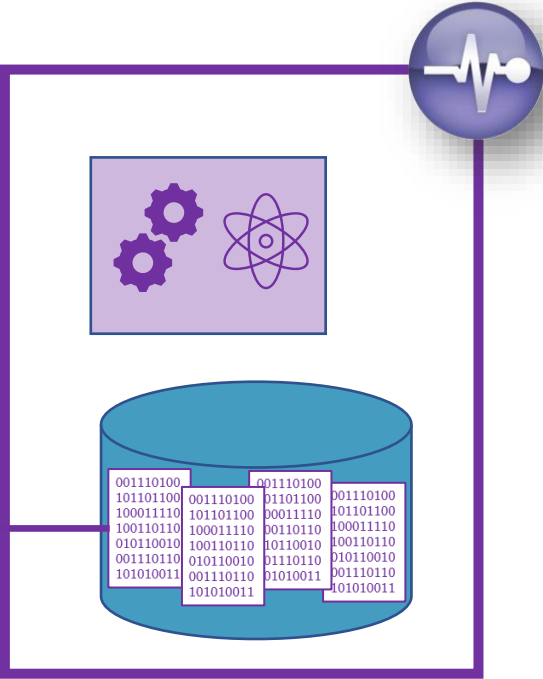
877 Reports not scheduled in the last 365 days

As of latest scan date: 2015-02-11 07:57:54

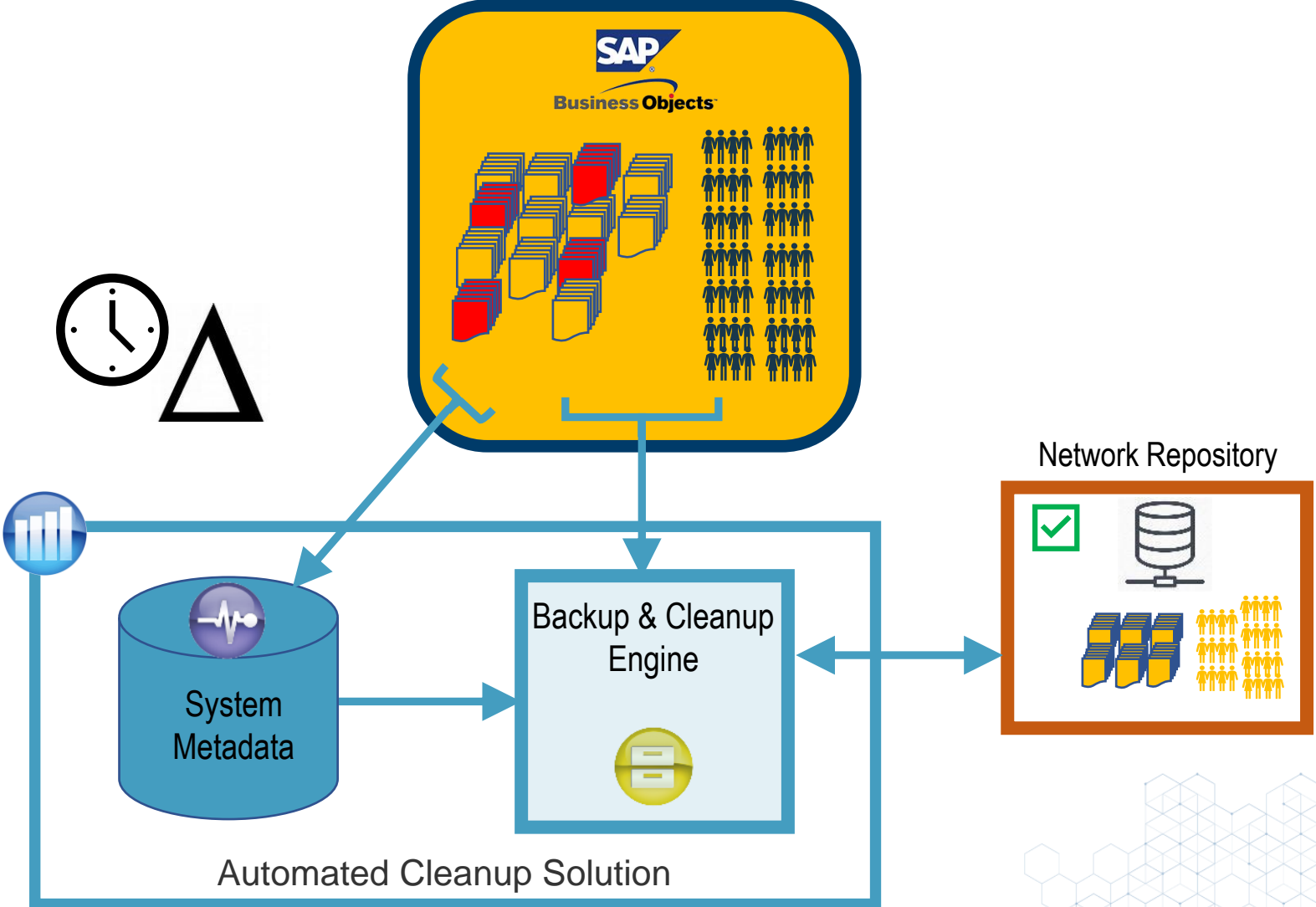
Report Name	Type	Create Date	Owner	Data Source	Last Updated
Manufacturing Report 1	Report	2014-12-17 20:58:46	Administrator	Original: \\jpos\insight\6400\Application Folder\Root Folder 99	2014-12-18 13:21:48
Manufacturing Report 1	Report	2014-12-17 20:58:51	Administrator	Original: \\jpos\insight\6400\Application Folder\Root Folder 99	2014-12-18 13:21:48
Manufacturing Report 1	Report	2014-12-17 20:58:54	Administrator	Original: \\jpos\insight\6400\Application Folder\Root Folder 99	2014-12-18 13:21:48
Manufacturing Report 1	Report	2014-12-17 20:58:57	Administrator	Original: \\jpos\insight\6400\Application Folder\Root Folder 99	2014-12-18 13:21:48
Manufacturing Report 1	Report	2014-12-17 20:59:00	Administrator	Original: \\jpos\insight\6400\Application Folder\Root Folder 99	2014-12-18 13:21:48

Universes/APOS insight\insight64 - SQL Server

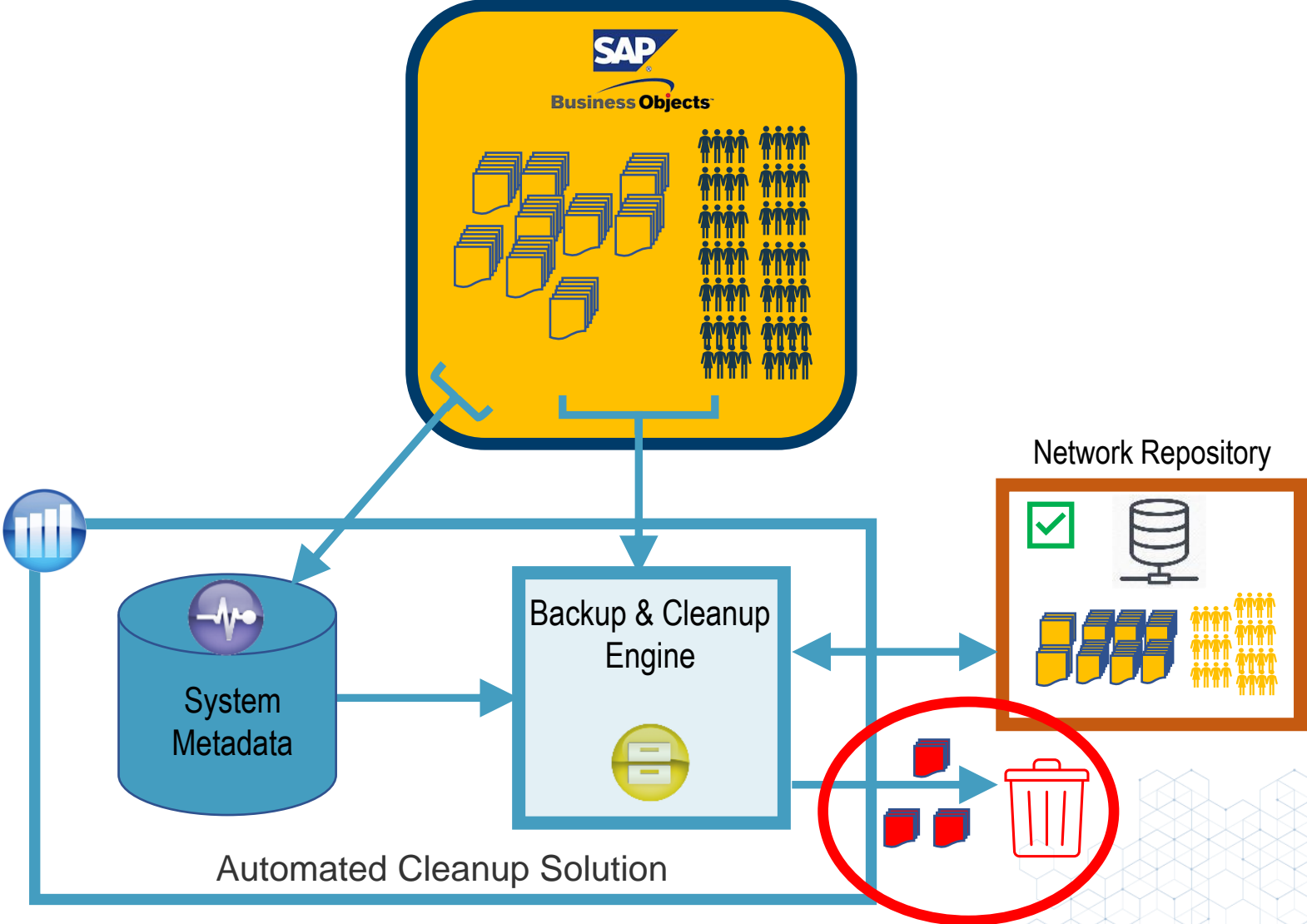
Report Folder / Location	Report Name	Report Owner	Report File Size
\\jpos\insight\6400\Report	Audit - All Report Activity	Administrator	1251
\\jpos\insight\6400\Report	Audit - Objects Scheduled by User	Administrator	102515
\\jpos\insight\6400\Report	Audit - Reports Refreshed by User	Administrator	104473
\\jpos\insight\6400\Report	Audit - Unused Objects in Date Range	Administrator	88026
\\jpos\insight\6400\Report	Audit - User Login Activity	Administrator	94653
\\jpos\insight\6400\Report	Audit - User Logout Activity	Administrator	191620
\\jpos\insight\6400\Report	Crystal - Search for Fields Used in Reports	Administrator	100000
\\jpos\insight\6400\Report	Crystal - Search for Tables Used in Reports	Administrator	100012
\\jpos\insight\6400\Report	Crystal - Structure	Administrator	100005
\\jpos\insight\6400\Report	Crystal - Summary	Administrator	144085
\\jpos\insight\6400\Report	Instance - Detail	Administrator	100061
\\jpos\insight\6400\Report	Instance - Historical	Administrator	107184
\\jpos\insight\6400\Report	Instance - Status	Administrator	88286
\\jpos\insight\6400\Report	Object Listing - Content Types and Folders	Administrator	81423



Automated System Clean-Up



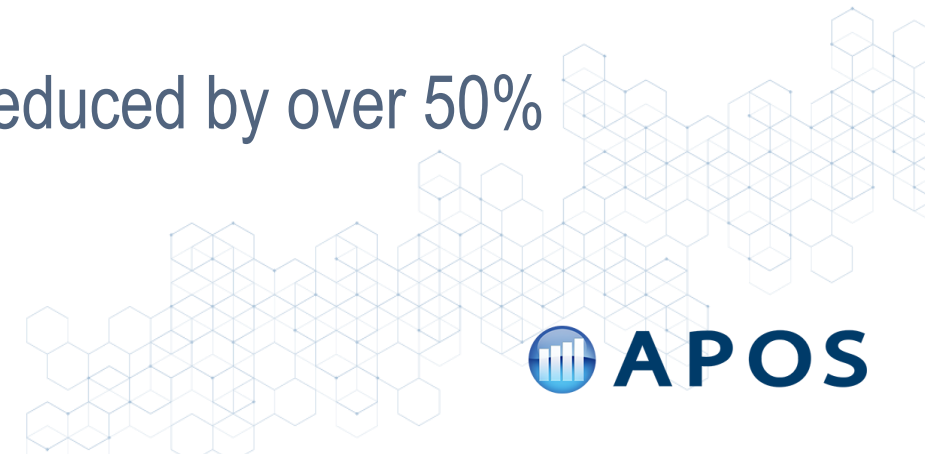
Automated System Clean-Up



Reduce - Content & Users

Before	After
Reports = 1200	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%



Preparing for BI 2025:

Automate Upgrade Steps

Upgrade Challenge: **Time Consuming Upgrade Steps**

Even with simplified upgrades and migrations, certain steps within the BusinessObjects migration process are time intensive. These time intensive and repetitive manual steps are problematic due to:

- Upgrade project timeline pressures
- Limited BI team resources & competing priorities
- Human error - oversights and execution mistakes

Solution Requirement: **Reduce Execution Time of Steps**

By simplifying the platform migration execution steps and reducing the associated time required, BI team resources can complete the upgrade project in significantly improved and condensed schedules. In addition to lowering project risk, this allows the BI team resources to move on to fulfill other higher value activities.

Solution Barrier: Execution Step Obligations

While repetitive and time consuming, many of the migration execution steps cannot be compromised and are fully necessary to ensure:

- System functionality
- System performance
- System accuracy
- User trust
- Process governance

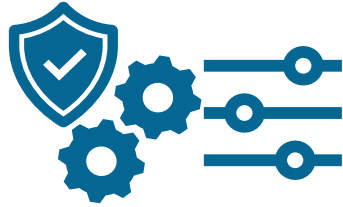
Solution Results: Automate Execution Steps

Automate the challenging & time consuming manual steps:

- Rebuild and manage system security, preferences, settings
- Rebuild and manage system schedules
- Granular content promotion
- Report testing and validation
- Process validation

Migration Execution

Augment SAP tools for granular controls & focused needs in Target system



Rebuild and manage system security, settings, preferences

Utilize automation and high-volume management controls for system set up and configuration – object settings, preferences, security



Rebuild and manage system schedules

Utilize automation and high-volume management controls for migration, creation and edits of report schedules – both legacy and new schedules and publications



Upload and manage deltas of reports

Incremental migration of new system content (reports, instances) produced during transition from source system to target system



Ongoing audit of source and target systems

Assess synchronization and deltas between source and target systems for specific actions throughout the migration process

Content Validation

Confidence and assurance that the migration has been successful



Complete Target System Inventory

Perform full content audit of the upgraded system with automated processes to ensure that all report objects, report instances, and schedules were moved successfully to target system



Validate Report Data

Ensure that reports on target system are producing data results consistent with source system with automated report testing processes which fully execute and compare the data results produced by reports running on both systems



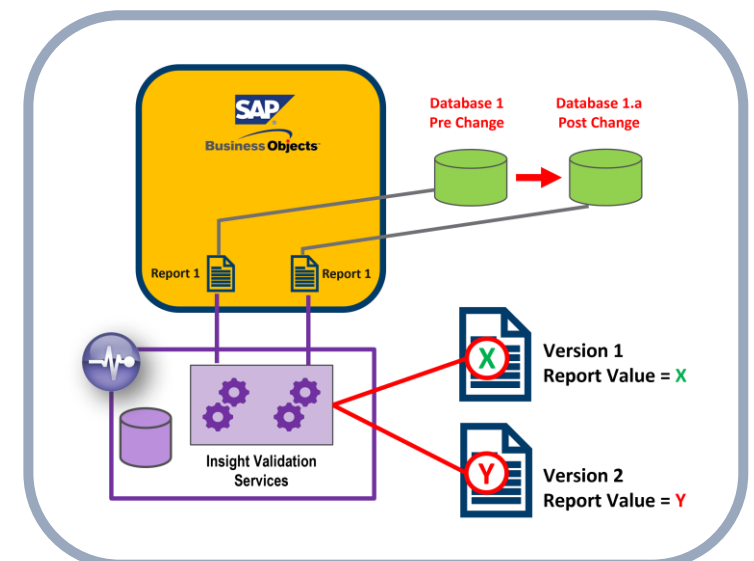
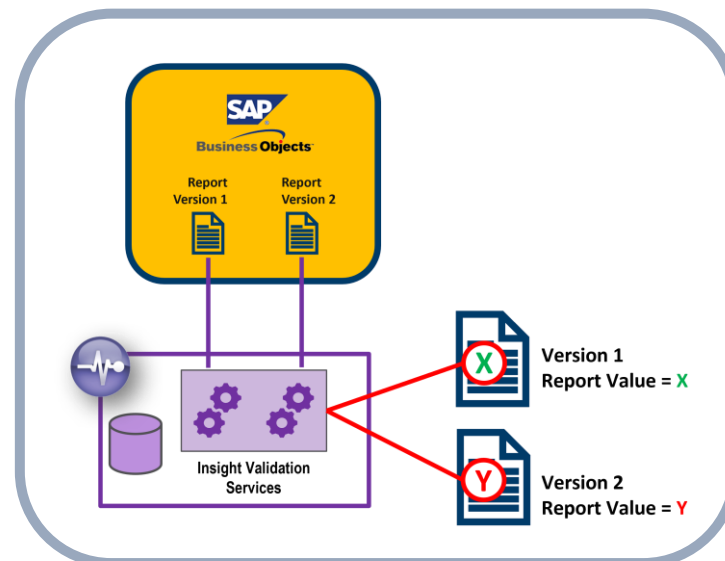
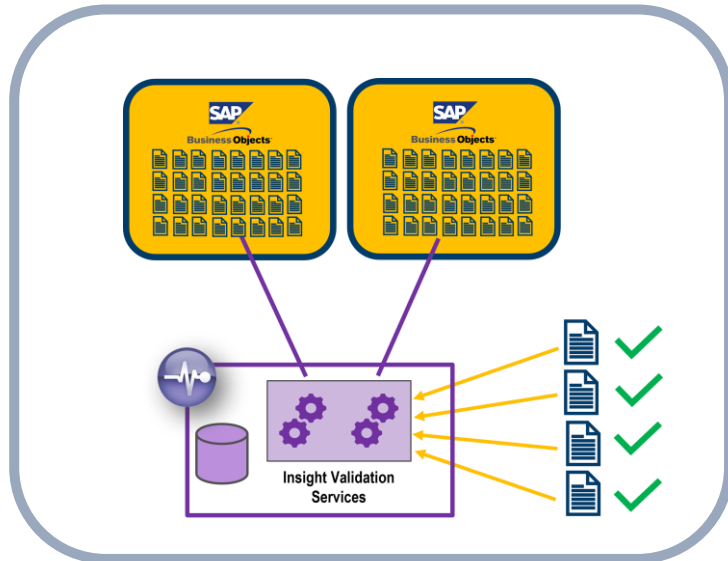
Ensure Report Performance

Validate systematically that report processing and rendering speeds are acceptable and within measured tolerance levels, with alerting to poor performance

APOS automated report testing solution utilizes a project-based, highly controlled environment for comparison testing of the accuracy and performance of reports between versions and environments of SAP BusinessObjects.

- Simplified project setup and management
- Automated testing
 - Regression Testing
 - Upgrade/Migration Testing
 - Validation of Report Data
 - Report Performance Testing
- Actionable results

- Save business resource time and opportunity costs
- Save IT resource time and opportunity costs
- Expand breadth of testing
- Expand depth of testing
- Reduce risk
- Improved controls and governance
- Speed migrations, upgrades, technology updates



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

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.

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



APOS Solutions for SAP Analytics Cloud



APOS Publisher for Cloud

- Automated broadcasting and distribution of personalized SAC reports to target user groups
- Distribute reports to the right people, right time, right location, right format



APOS Data Gateway

- Live connectivity from SAC to wide range of data sources
- Import data from wide range of sources into SAC
- Extract and Export data from SAC

Need4Viz

Experts
data analysis
visualization
distribution
SAP BO environment

SAP®

Partner

N4V

a solution

Fast & 4YOU

Add-On

SAP WEBI

NO CODE

Plug N'PLAY

60+
widgets

Dataviz

Cartography

Data Analysis

Export HTML

R.O.I.

quickwin

Save
time

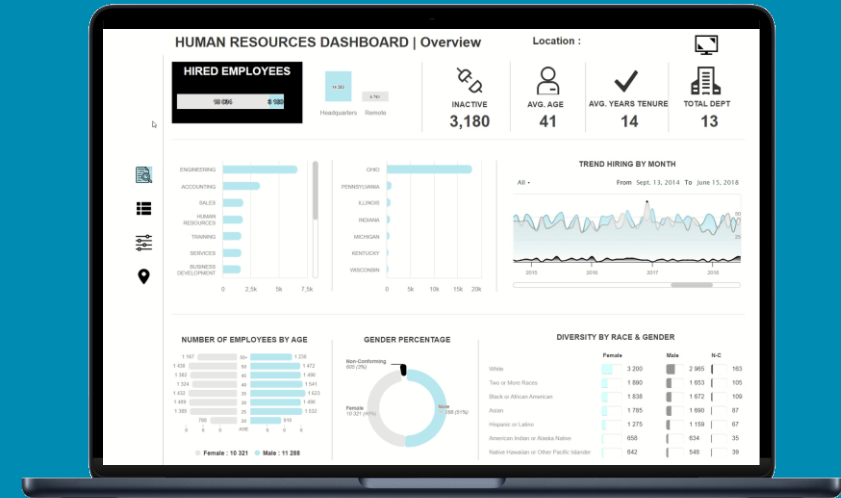
Saves costs

licences, infrastructures, training

Digital sustainability

Add *more*
Power to BO!

The **add-on** that revolutionizes the use of Webi
 ▶ Analyze ▶ Visualize ▶ Distribute



Four in One Solution



DataViz, Interactive Graphics
& Direct navigation



Online & Offline mapping for
unlimited representation



Data Analysis



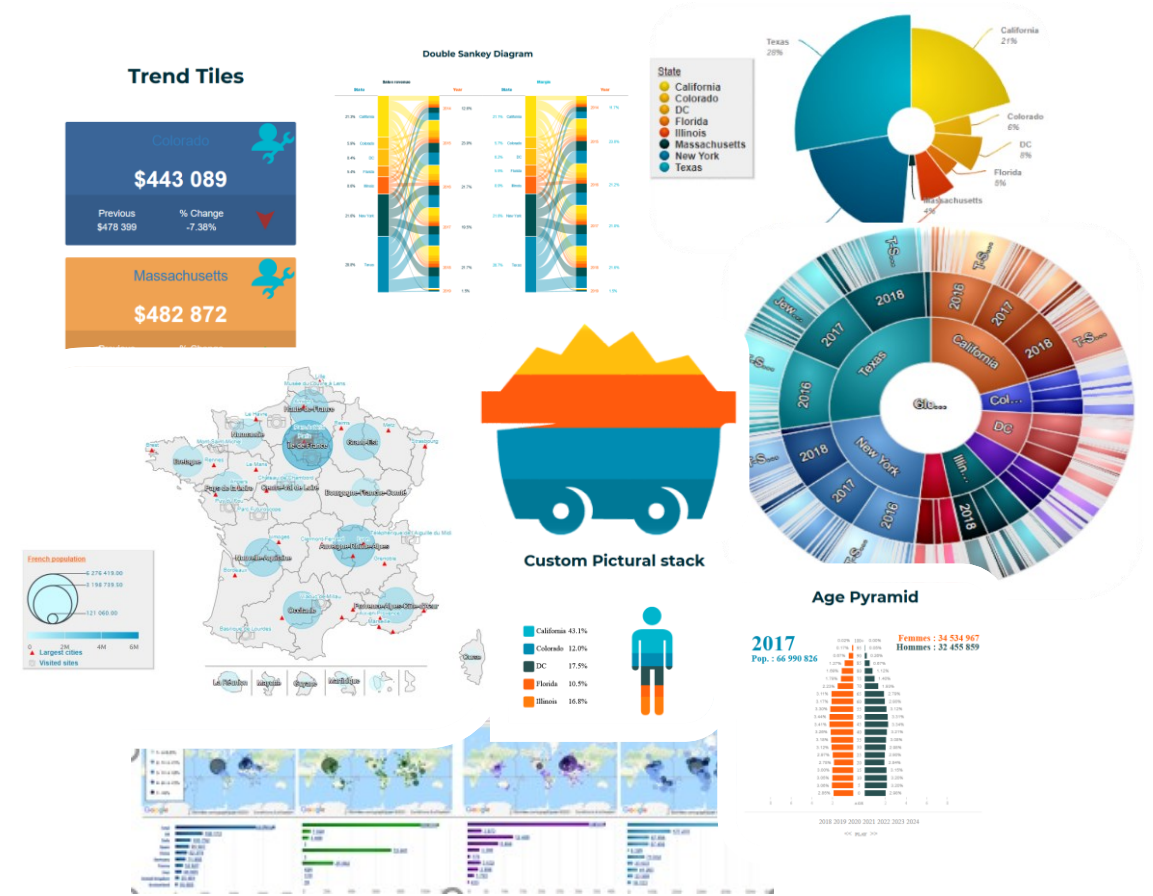
Dynamic sharing of Webi
reports

N4V → increases WEBI experience

WEBI

BOBJ

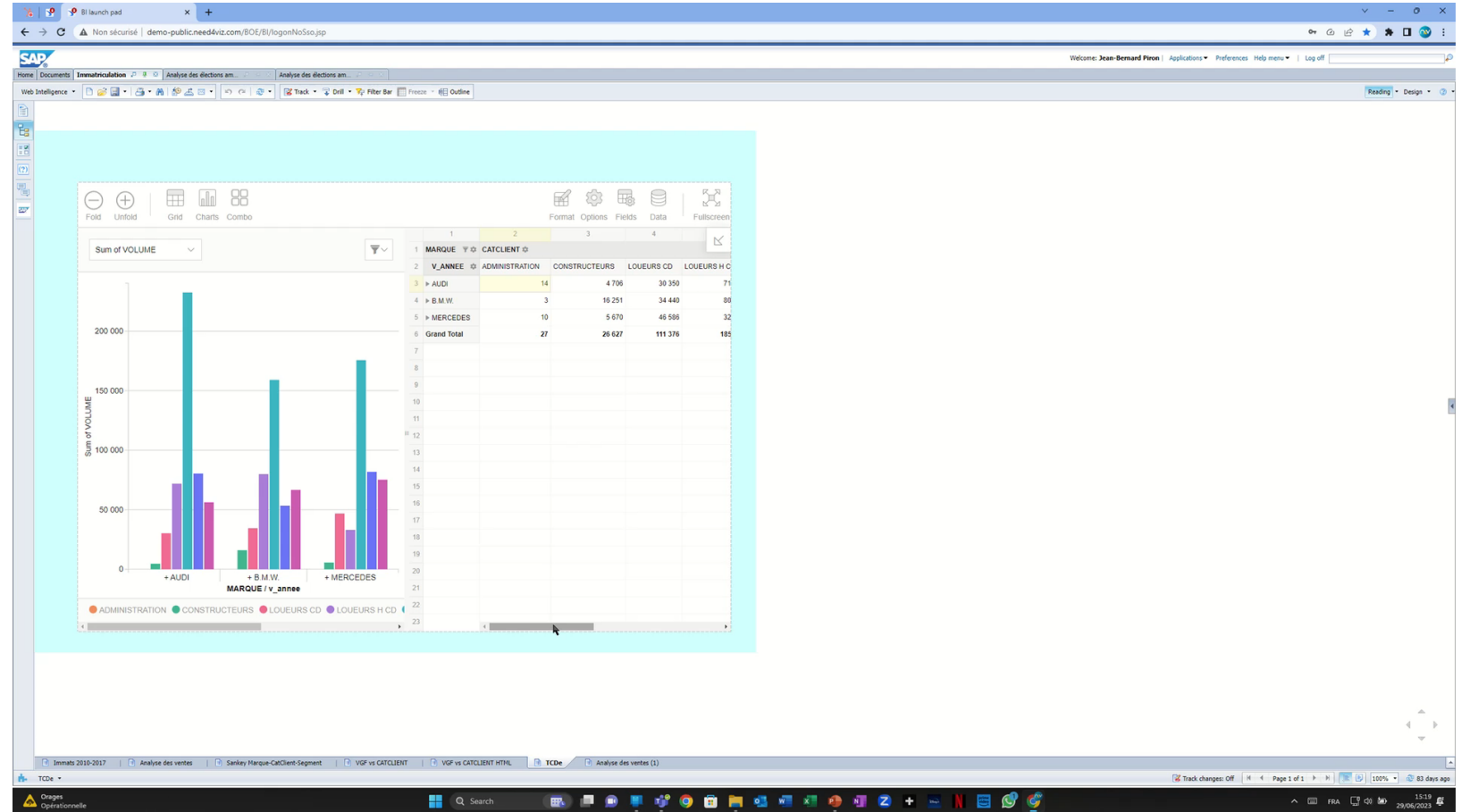
Server	Good
Security Model	Good
Reporting	Good
Connectivity	Good
Planning and publications	Good
Data Analysis	
Dashboarding	
Interaction and Exploration	
Navigation	
Geo mapping	
HTML Export	



N4V → increases WEBI experience

WEBI + N4V

Server	Good
Security Model	Good
Reporting	Good
Connectivity	Good
Planning and publications	Good
Data Analysis	Good
Dashboarding	
Interaction and Exploration	
Navigation	
Geo mapping	
HTML Export	

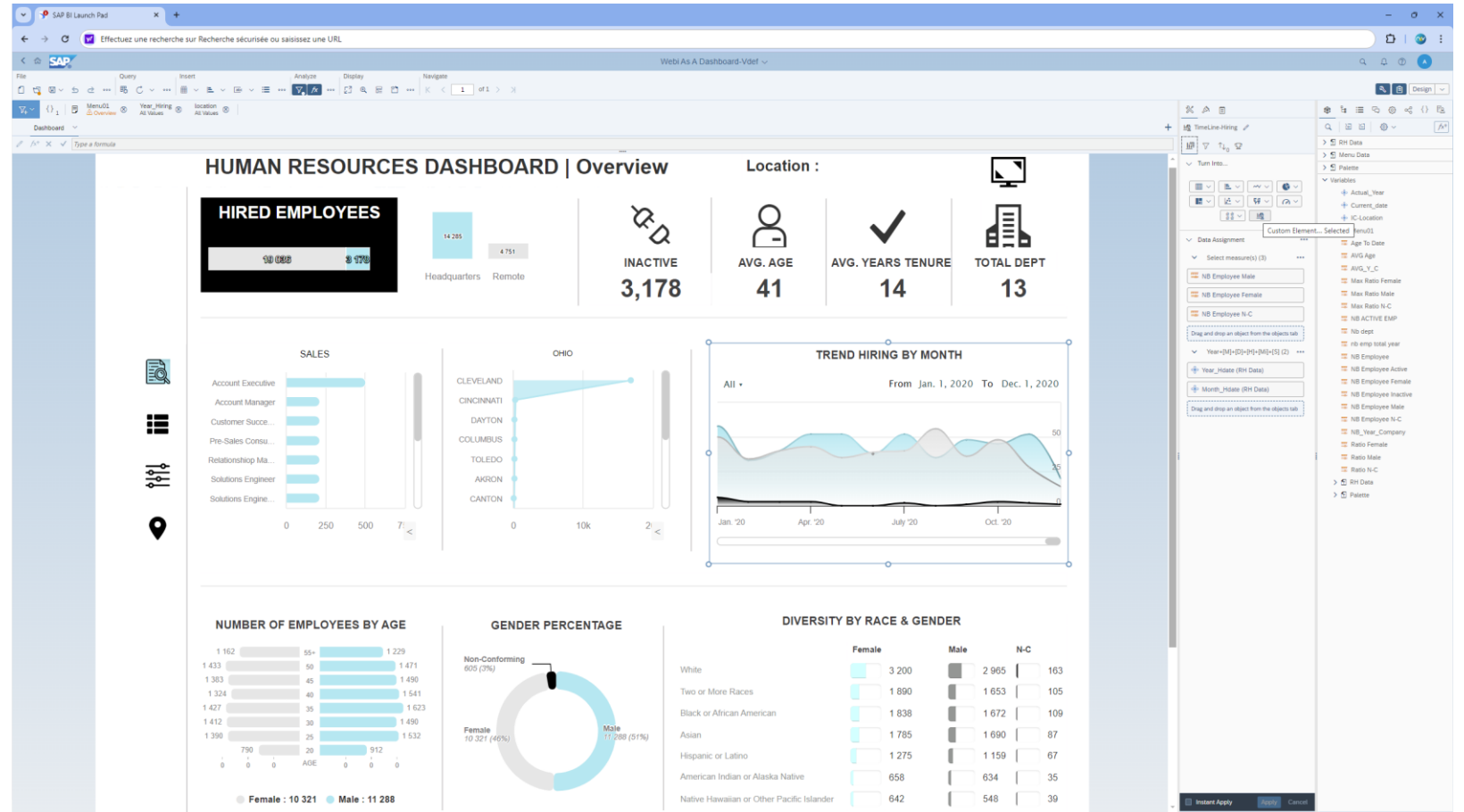


N4V FOR WEBI

N4V → increases WEBI experience

WEBI + N4V

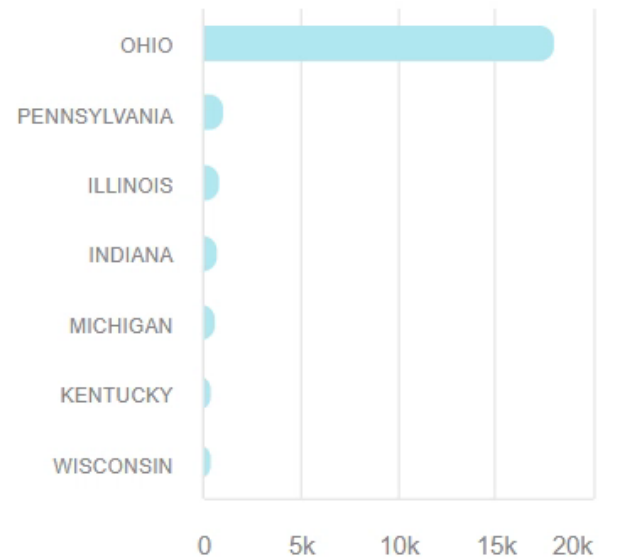
Server	Good
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Planning and publications	Good
Data Analysis	Good
Dashboarding	Good
Interaction and Exploration	
Navigation	
Geo mapping	
HTML Export	



N4V FOR WEBI

N4V → increases WEBI experience

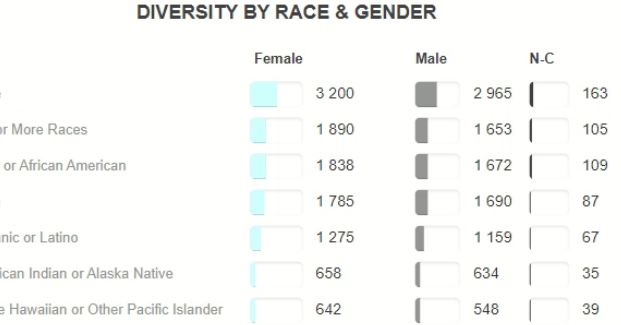
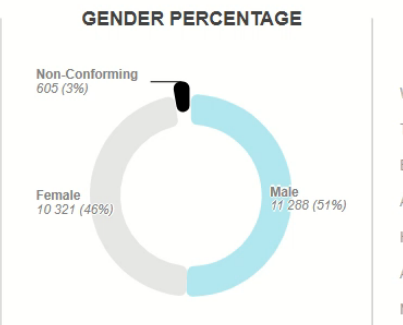
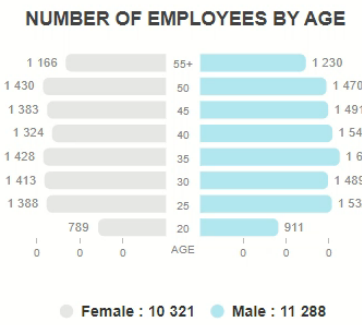
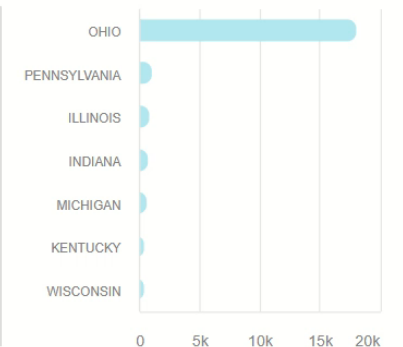
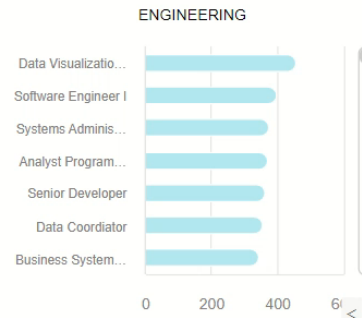
WEBI + N4V	
Server	Good
Security Model	Good
Reporting	Good
Connectivity	Good
Planning and publications	Good
Data Analysis	Good
Dashboarding	Good
Interaction and Exploration	Good
Navigation	
Geo mapping	
HTML Export	



N4V FOR WEBI

N4V → increases WEBI experience

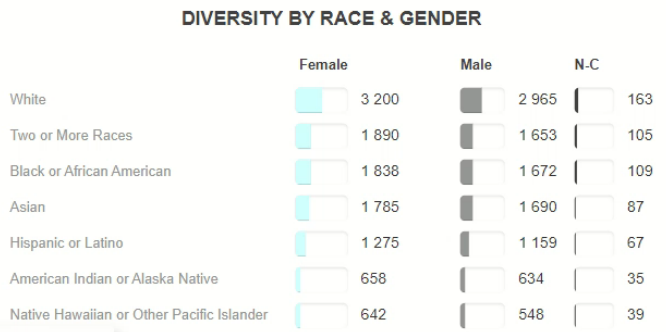
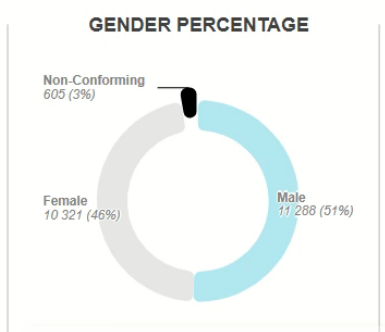
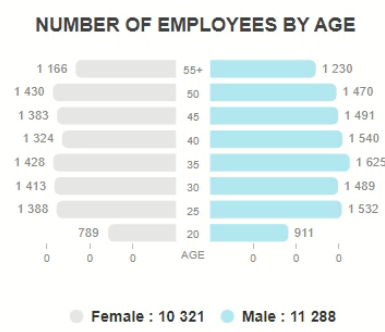
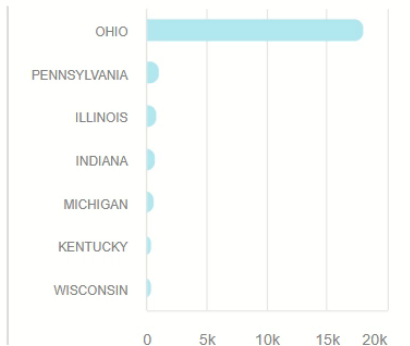
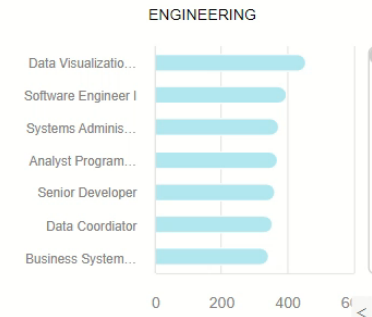
WEBI + N4V	
Server	Good
Security Model	Good
Reporting	Good
Connectivity	Good
Planning and publications	Good
Data Analysis	Good
Dashboarding	Good
Interaction and Exploration	Good
Navigation	Good
Geo mapping	
HTML Export	



N4V FOR WEBI

N4V → increases WEBI experience

WEBI + N4V	
Server	Good
Security Model	Good
Reporting	Good
Connectivity	Good
Planning and publications	Good
Data Analysis	Good
Dashboarding	Good
Interaction and Exploration	Good
Navigation	Good
Geo mapping	Good
HTML Export	



N4V FOR WEBI

N4V → increases **WEBI experience** outside WEBI!

WEBI + N4V	
Server	Good
Security Model	Good
Reporting	Good
Connectivity	Good
Planning and publications	Good
Data Analysis	Good
Dashboarding	Good
Interaction and Exploration	Good
Navigation	Good
Geo mapping	Good
HTML Export	Good



N4V FOR WEBI

N4V → increases WEBI experience with N4V

WEBI + N4V

BOBJ

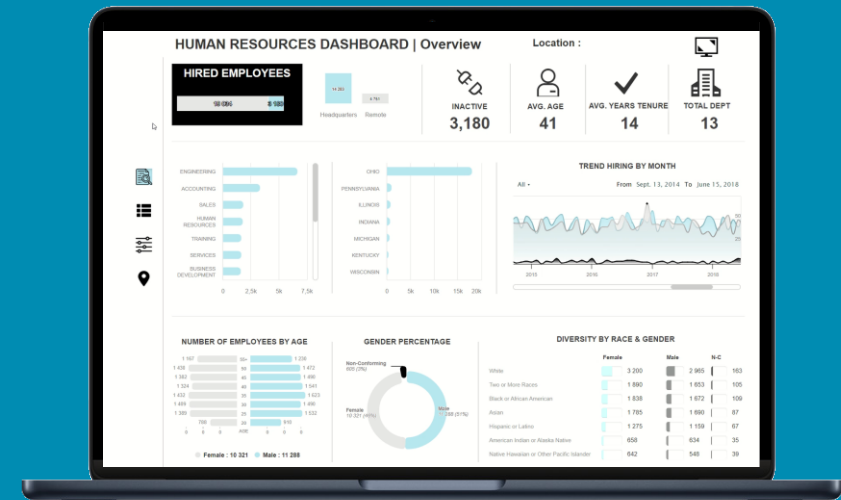
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Data Analysis	Good
Dashboarding	Good
Interaction and Exploration	Good
Navigation	Good
Geo mapping	Good
HTML Export	Good

N4V FOR WEBI



Power BO

by Need4Viz



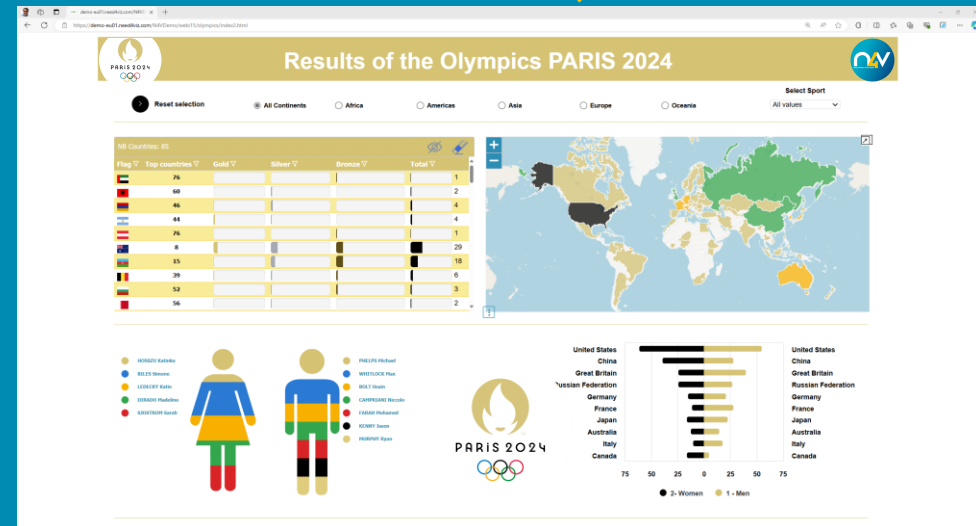
Demo

With N4V FOR WEBI, follow the race for medals at the Olympics Games Paris 2024

<https://demo-eu01.need4viz.com/N4VDemo/olympics/>

WEBI + N4V

N4V HTML EXPORT

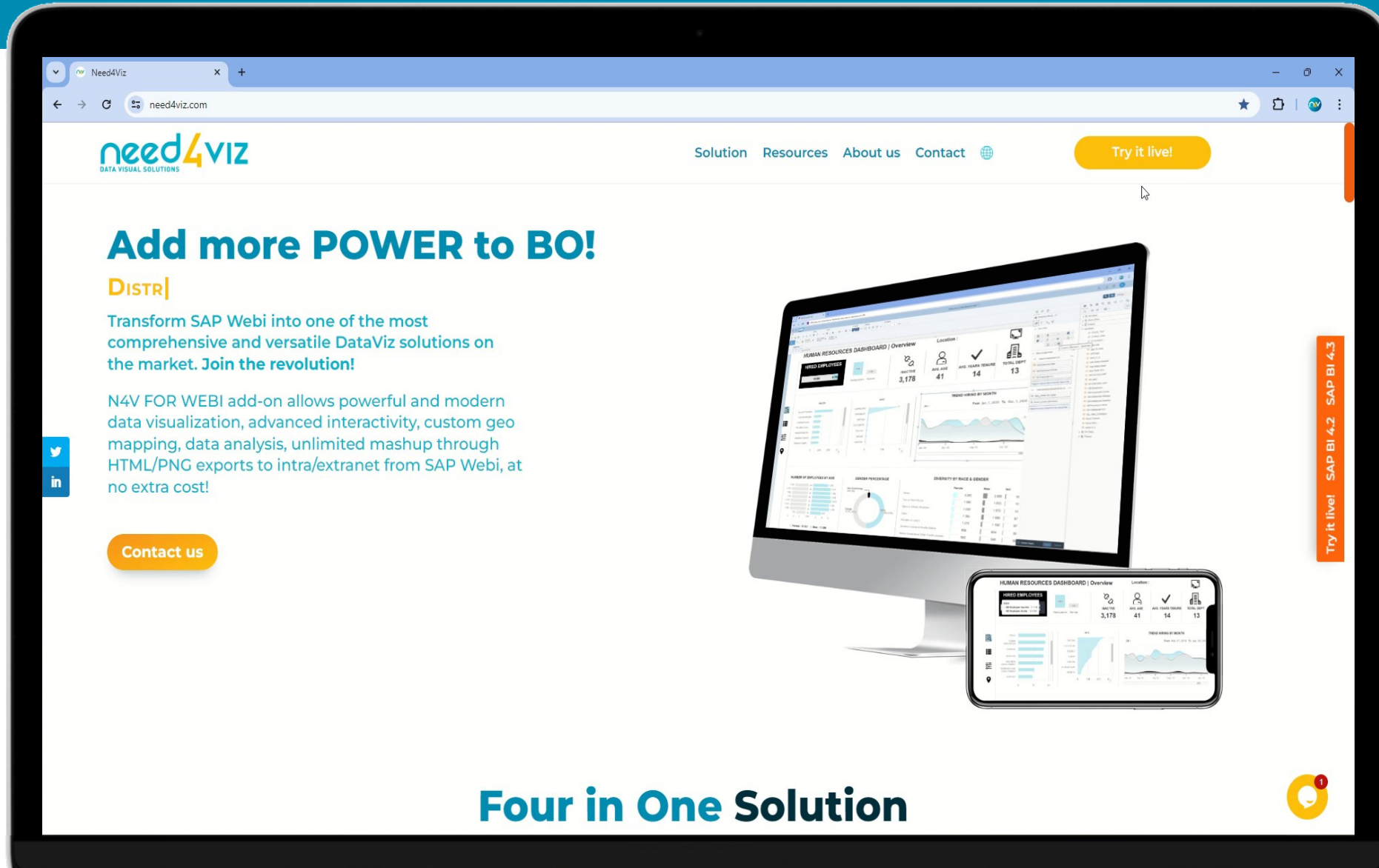


N4V → full demo at [need4viz.com](https://www.need4viz.com)

From www.need4viz.com, you have access to the demo mode of all N4V components.

Try it live!

This is the easiest way to discover the possibilities of our solution (in 4.2 or 4.3).

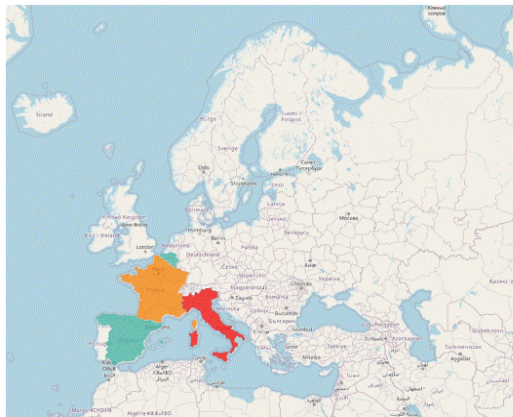


4 releases

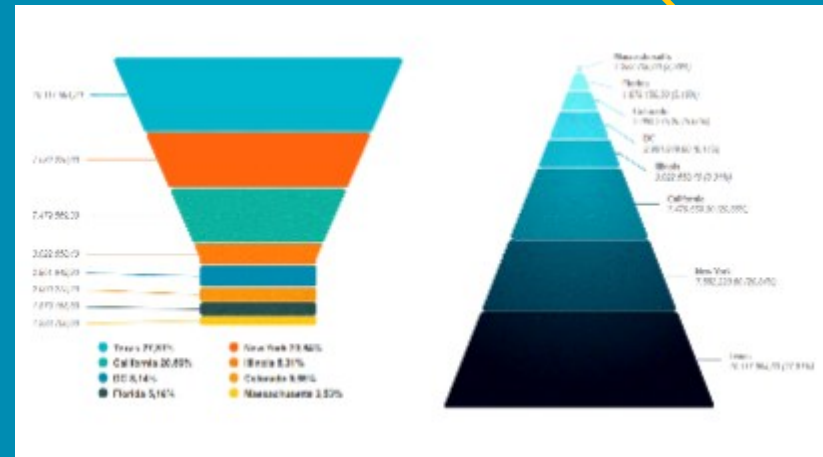
per year

with new components

WebMapline



Funnels & Pop-Up filters



Why choose N4V widgets?

60+ Widgets

Data Analyzer

Customization
and options

A true
architecture to
process widgets

Approved by
customers

4 releases / year

Full No Code

Unlimited
custom
maps/plans

New component
on demand*

Exports in
HTML, PNG, CSV**

*on quotation

**soon

Why choose HTML export with N4V FOR WEBI?

Speed	Fluidity	Portability	Flexibility (mash-up)	Lightweight
File optimization	Customizing N4V elements	PPT and Word integration	Unlimited distribution	Performance
HTML5 responsive	Mastered and widespread technology	« In Memory »	Only Useful data	Open Techno black box

Power BO

by Need4Viz

