Tellius 4.1

Better Decision-Making through Improved Context and Collaboration



Hardik ChhedaChief Product Officer



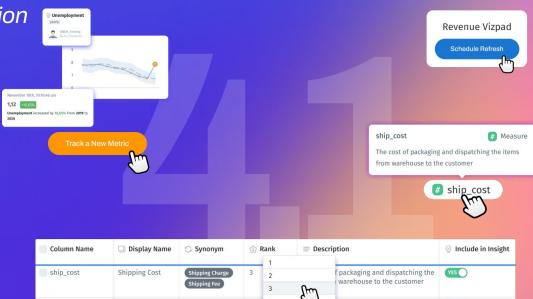
Shaily SaigalProduct Manager



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Yogender Chhibber Sr Product Manager



LIVE WEBINAR

Thursday Feb 16, 2023 11am ET | 8am PT

Agenda

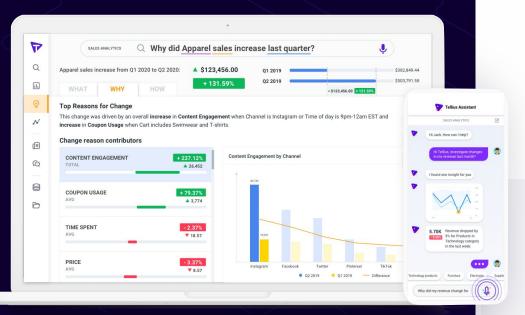
February 2023

- → Intro to Tellius
- → Tellius 4.1 Product Themes
- → Innovations in 4.1
 - Key Features
 - Demo
- → Q & A



What Is Tellius?

Faster decisions
with better understanding of the 'what' and 'why'
from your business data using
Al-Powered Insights



Trusted by Innovative Global Brands



Partners

















Recognition from the industry & analysts

Market Validation and Customer Growth

Tellius named a VISIONARY

Gartner 2022 Analytics & BI Platform Magic Quadrant



FORRESTER®

Now Tech: Augmented BI Platforms 2021



"[Tellius]'s automated detection of key business metrics and anomalies has really started to sizzle"



BI & Decisioning Software Solutions 2021

INNOVATOR

Gartner

COOL **VENDOR** 2019



Connect

to your data

Cloud Apps On-prem Files

Augment

+ expedite analysis



What happened?

NLQ Search Autoviz & Vizpads

Anomaly Detection

Why did it happen?

Key Drivers Trend Changes

Cohort Comparison

How to proceed next?

Segments

What-if

Predictions

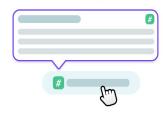
Decide & Act on insights

In Tellius

Analytics ecosystem

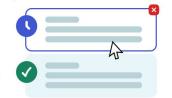
APIs

Tellius 4.1 Key Themes



Context

Establish context for every dataset with contextual metadata



Transparency

Provide visibility on scheduled jobs via periodic alerts

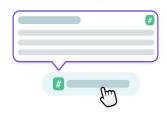


Collaboration

Boost cross-team collaboration via multi-user subscription to Feed



Tellius 4.1 Key Themes



Context

- ① Metadata for Columns
- ② <u>Data Dictionary for Columns</u>
- 3 Include/Exclude Columns for Insights/Predict
- Rank Columns for Live Insights



Transparency

- **5** Metadata for Notifications
- 6 Scheduled Jobs View and Subscribe
- Processing Queries on Sample Data



Collaboration

8 Feed Subscription





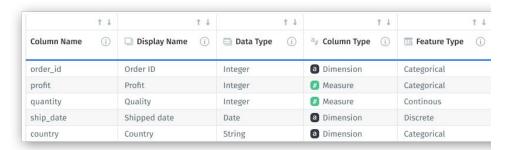
Major: Metadata for Columns

Understand the context of data

Why

- Easier and faster to view and edit metadata
- Provides context data dictionary, user preferences (rank, include/exclude columns, index)
- Enables context driven analysis

- Provides optimal view of all the information about data in one place
- Easily **edit** and **sort** columns
- Apply changes in bulk
- Values reflected across Tellius



feature Type (i)	1.1	ABC Data Format (i)	↑ ↓ Synonym ①	↑↓ ☆ Rank ①
	∑ Aggregation ①			
Categorical	N/A	N/A	Order number × ID ×	5
Categorical	Avg	Number	Revenue ×	1
Continous	Sum	Decimal	Click to add	2
Discrete	N/A	N/A	Dispatch Date ×	4
Categorical	N/A	N/A	Click to add	3





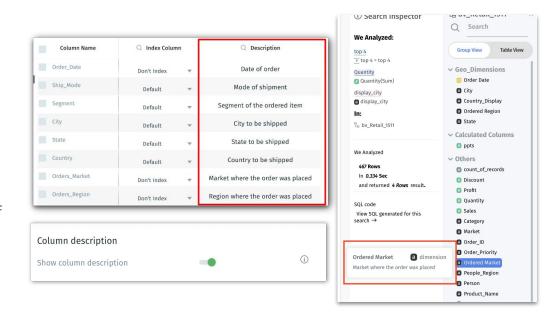
Major: Data Dictionary for Columns

Understand the context of each column

Why

- Informs and educates the users with data context
- Column description, definition/calculation, lineage, source, and business context can be presented across the platform
- Promotes context driven analysis

- Data dictionary to help understand the context of each column
- **Contextual tooltip** across the platform
- Set up data descriptions in the Metadata view with flexibility to enable/disable descriptions in Settings







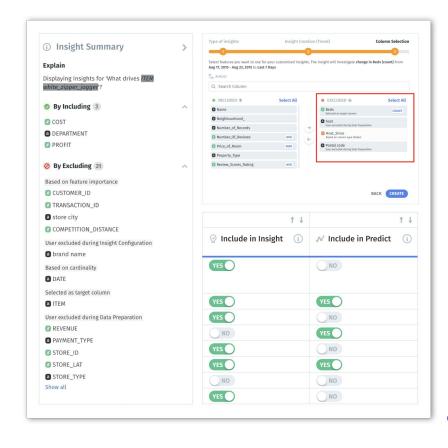
Major: Include/Exclude Columns for Insights and Predict

Easily select columns for analysis

Why

- Generate meaningful Insights
- Provide context on why certain columns are excluded
- Reduced time spent on repeated column selection for analysis across Insights

- Select columns to be included for Insights and Predict in Metadata view
- **Flexibility to override** selections during Insights configuration
- Insights configuration and summary displays exclusion reasons







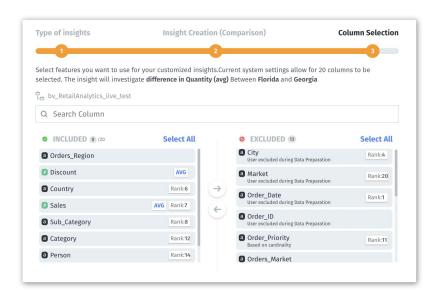
Major: Rank Columns for Live Insights

Prioritize columns for Live Insights

Why

- Removes randomness in column selection for live insights
- Allows **prioritization of columns** for Live Insights
- Future: Will power search, recommendations etc. in subsequent releases

- Rank columns (1-20) to be picked for Live
 Insights in Metadata view
- Ranked columns can still be excluded from Insights
- Available only for Live Data sources







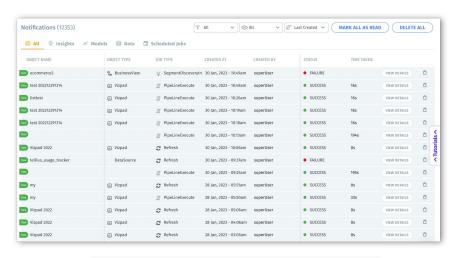
Major: Metadata for Notifications

Improved Notifications module

Why

- Improves transparency by providing additional context on the job metadata and failed jobs
- Improves visibility and enables the user to correlate the executed job with an actual object

- Provides additional metadata for each job executed
- Added object name and object type in the Notifications module
- Job details shown for each job executed
- Ability to re-run specific failed jobs









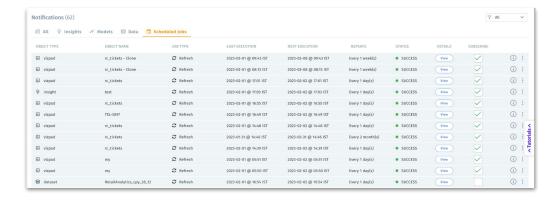
Major: Scheduled Jobs View and Subscribe

Subscription to scheduled jobs

Why

- Improves transparency by providing visibility of scheduled jobs on shared objects
- Users can subscribe to the required jobs to receive regular email notifications on job runs

- New tab in Notifications module to display and track all scheduled jobs
- Ability to **subscribe** to scheduled job and receive email notifications
- Helps users to stay informed about **status** of scheduled jobs on shared objects





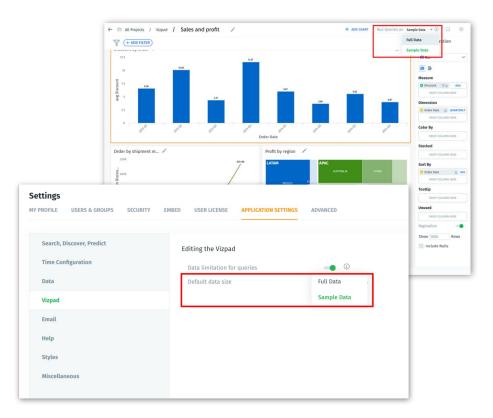
Major: Processing Queries on Sample Data

Improved user-experience

Why

- Saves time for the creator persona by making
 Vizpad building process more efficient
- Especially helpful for live connections and/or large datasets

- Run queries on sample data while building Vizpad
- Provides ability for Admins to determine the default behaviour in **Settings** (Full data vs. Sample data)
- Once the Vizpad is saved, results shown on full data







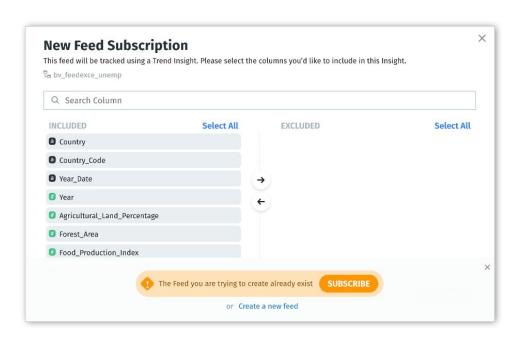
Major: Feed Subscription

Multi-user subscription to Feed

Why

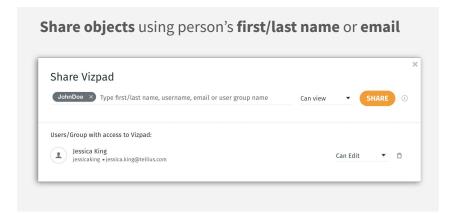
- Allow multiple users to access the same feed **hence eliminating** creation of **duplicate** Feeds
- Foster collaboration with multiple users getting visibility and access to the same feed
- Frees up resources previously clogged due to duplicate jobs

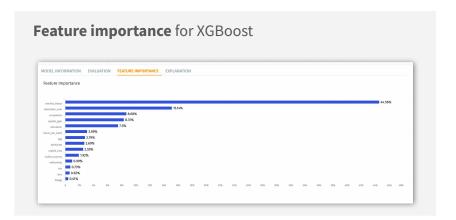
- Multiple users can subscribe to same Feed and receive regular email alerts
- New Feed will be created after **checking for any** similar Feed
- User can subscribe to existing Feed or create a new Feed



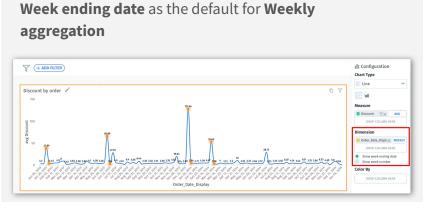


Minor: Features in 4.1





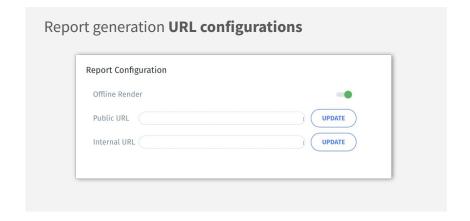
Display columns in Search and Tellius Assistant Tool Soles by Ordered Market Tool Soles by Ord

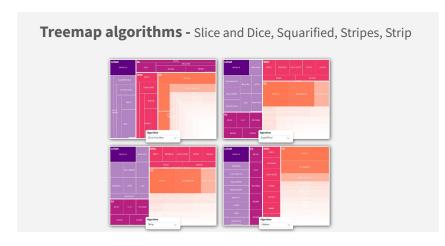


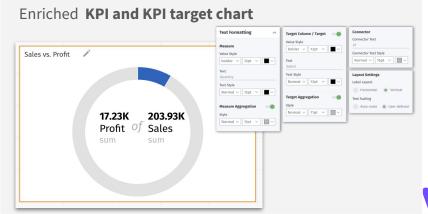


Minor: Features in 4.1

clusters now available as Dimensions for Analysis 1 to all T of T J 1 of T a Bill State Bill ZIP Website a label predic... CA <a href="http:/.....1 94,583 CA 94,583 <a href="http:/... 1 WI 53,201 <a href="http:/... 3 DE 19,898 <a href="http:/... 1 DE 19,898 <a href="http:/... 1 NY 10,166 <a href="http:/... 3 <a href="http:/... 3 NY 10,166 <a href="http:/... 3 NY <a href="http:/... 3 10,166









Minor: Features in 4.1

Minor Improvements

- Kerberos based authentication for Spark SQL
- Proxy support for Salesforce and Google Analytics
- Seamless switching between different tabs in a Vizpad
- Increased timeout limit for the generation of multiple reports on Vizpad
- Added additional Python libraries to forbidden list
- 0 will not be plotted for null values
- Date format in csv download of Vizpad



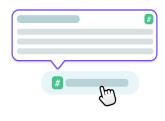
Minor: Fixes in 4.1

Fixes

- Vizpad rendering, loading, and performance issues
- Default aggregation for measures
- Visibility of data labels for the waterfall charts
- Filtering of high cardinality columns using a Vizpad list filter
- Conditional formatting and number formatting for KPI charts
- Sanitize HTML tags entered in the Search queries
- Block special characters in names
- Dataset renaming issues with fusion and data load

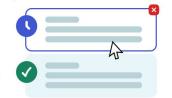


Summary of 4.1



Context

Establish context for every dataset with contextual metadata



Transparency

Provide visibility on scheduled jobs via periodic alerts



Collaboration

Boost cross-team collaboration via multi-user subscription to Feed





Questions? Feedback?

product@tellius.com

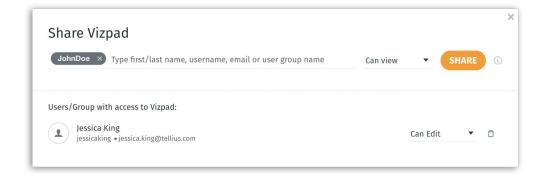
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Appendix

Minor: Share Objects Using Name

Share objects using person's name

- Ability to share objects using person's first name or last name or email
- Now search using first name/last name or email or username while sharing objects
- Available across Tellius Data, Explore,
 Discover, and Predict

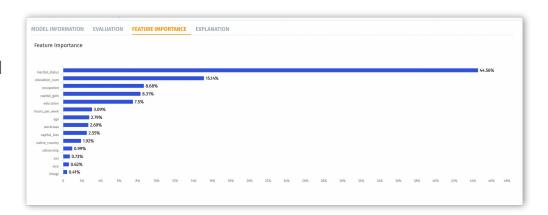




Major: Feature Importance for XGBoost

Display the feature importance for each column

- For models created using XGBoost algorithm, feature importance for each column will be displayed
- New tab called **Feature Importance** added to display the values





Major: Search Panel Updates

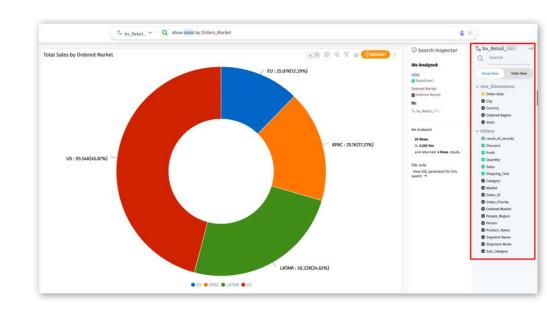
Display columns in a BV in Search and Tellius Assistant

Search

- When a search query is being typed,
 BV panel is always open unless the user collapses it
- On successful search, BV panel is pinned right next to the Search Inspector

• Tellius Assistant

- When a BV is selected, BV panel shows list of columns available
- Option to show/hide columns in Business View



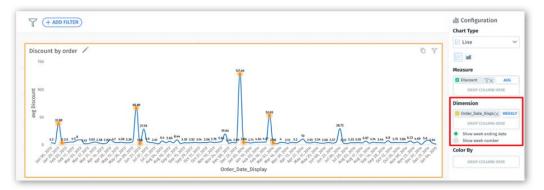
Enhances Search experience



Major: Weekly Aggregations Enhancements

Change default from week number to week ending date

- For date columns with weekly aggregation in charts, default configuration will be week ending date
- Provides ability for Admins to determine the default behaviour (week ending date vs week number)
- Flexibility to toggle between week ending date and week numbers

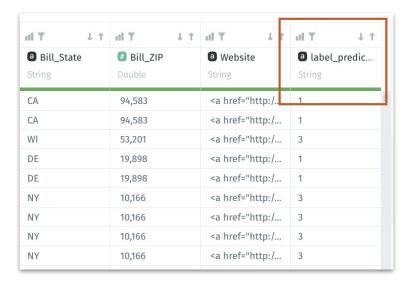




Major: Data Type of Cluster Labels

Change clustering labels to dimensions

- Change the cluster labels to dimensions (string) instead of measures (numeric)
- Enable users to easily understand the output and use it





Major: Vizpad Generation on Intranet

Report generation URL configurations

- Open Vizpads seamlessly from scheduled emails when connected to an on-premise network
- **Configure** required **URLs** in **Settings** to support the rendering of Vizpads
- Improves **adoption** of Vizpads

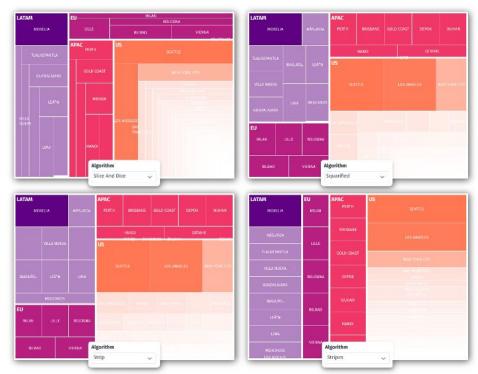




Major: Additional Treemap Algorithms

Improvements to Treemap chart

- Users can change the Treemap algorithm to represent hierarchical data
- Tellius now supports all four Treemap algorithms by Highcharts:
 - Slice and Dice (default)
 - Squarified
 - Stripes
 - Strip
- Option available in Configuration panel

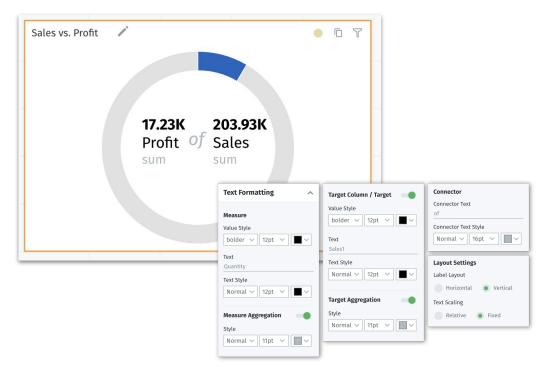




Major: Enriched KPI Chart

Improvements to KPI chart formatting

- Flexibility to easily customize and format (text size, colour, style, layout) the measure, target and connector text
- Ability to customize the font size:
 - User Defined Font size set by users
 - Auto Scale Responsive sizing based on the chart size





Minor: Kerberos Based Authentication

Kerberos based authentication for Spark SQL

- Spark SQL connector supports Kerberos based authentication
- After getting authenticated, the user can access tables (list and load)



Minor: Remove Python Libraries

Add Python Libraries to Forbidden List

- The following libraries have been removed and cannot be imported in Python during data preparation
 - shlex
 - sh
 - plumbum
 - pexpect
 - fabric
 - envoy
 - commands
 - OS
 - subprocess
 - requests

