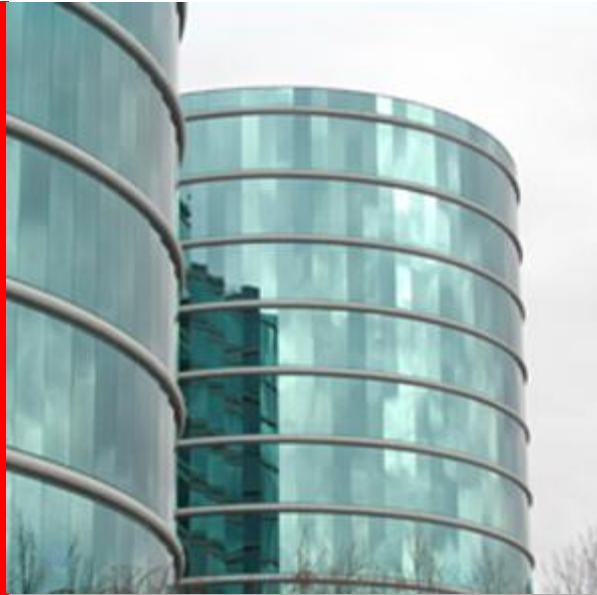


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Introduction to Hyperion Essbase Visual Explorer

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Disclaimer

The following is intended to outline our general product direction.

It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Agenda

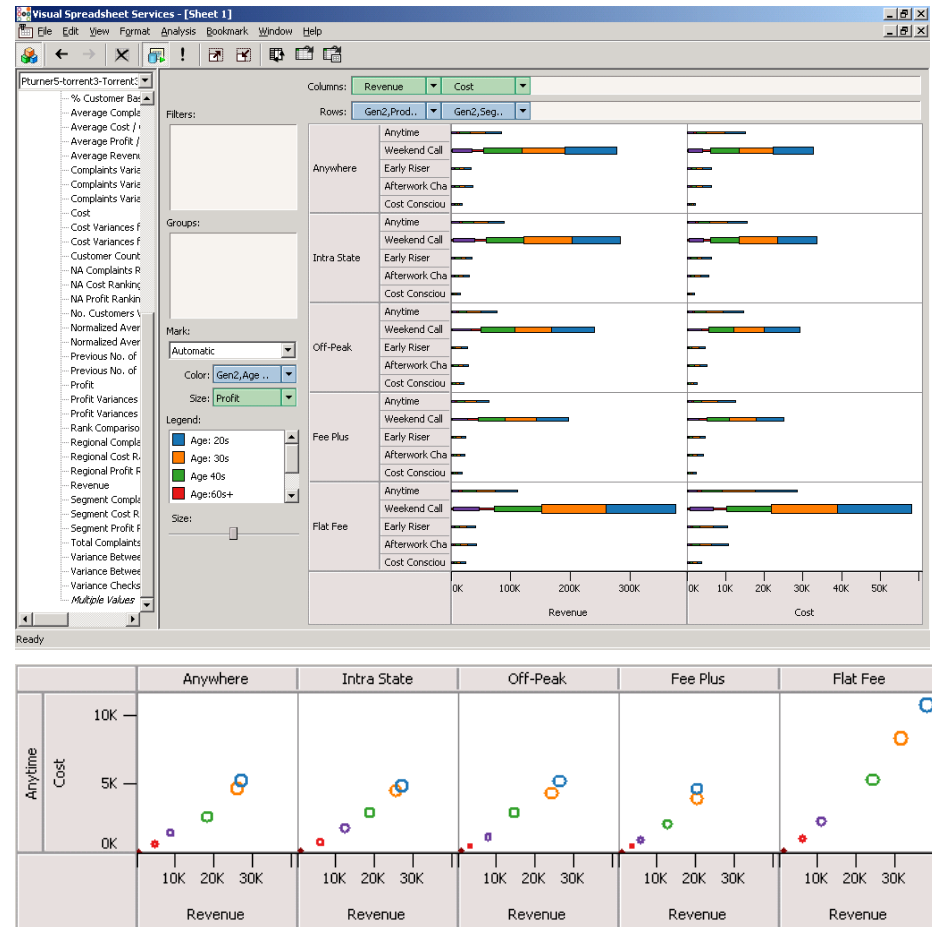
- Hyperion Visual Explorer Overview
 - General capabilities
 - Advanced visualization techniques
 - New Features
 - Upcoming functionality
- Applying Hyperion Visual Explorer at HBOS
 - Analyzing the HBOS requirement
 - General architecture
 - Visual Explorer process

Visual Explorer



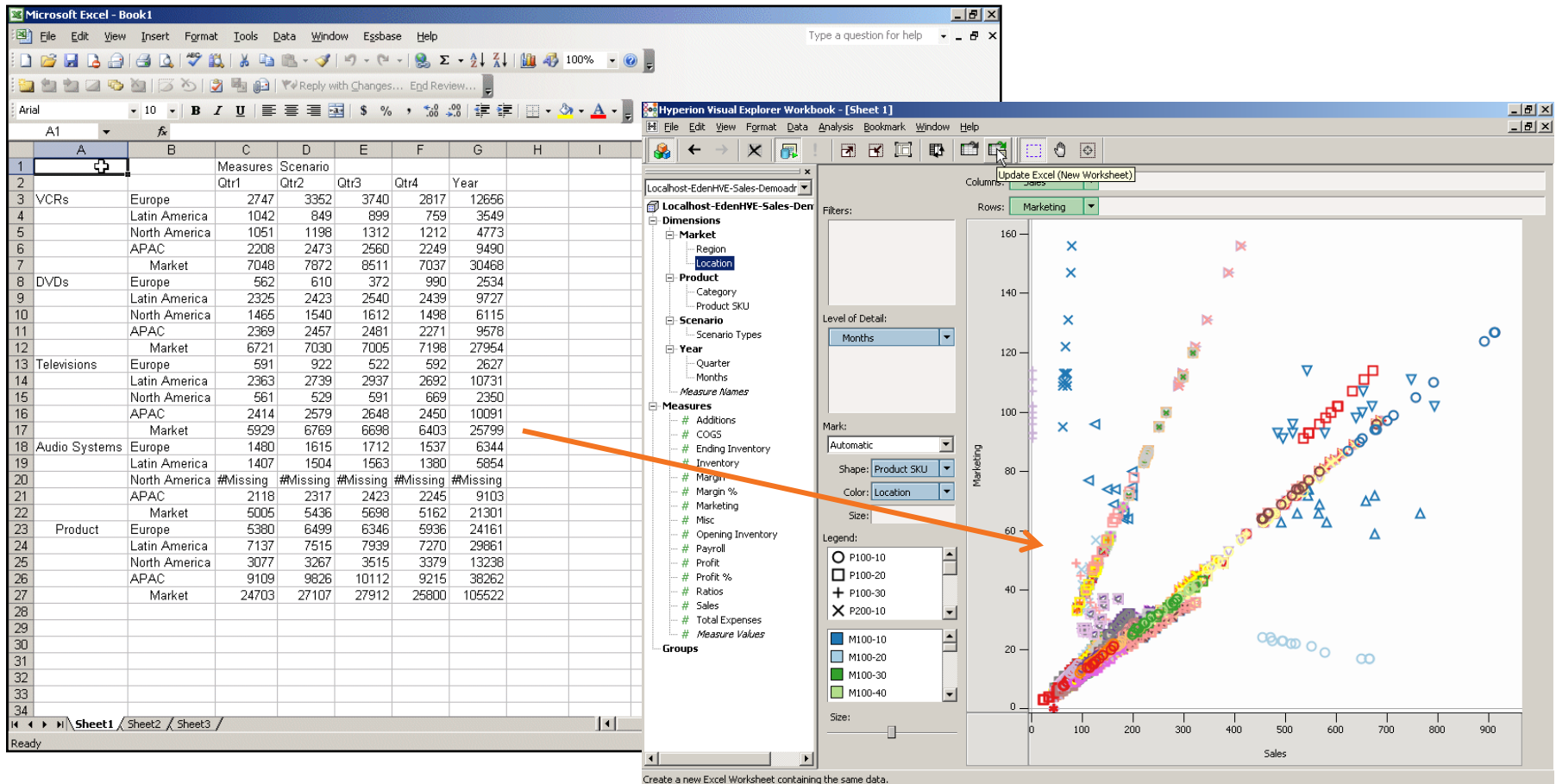
Visual Exploration - Best in Class

- Dynamic, adaptive visualization
- Advanced insight through drag-and-drop
- Maintain insight with increasing business dimensions
- Statistical Analysis
- Dashboard Display
- Links to External Sources
- Customizable UI



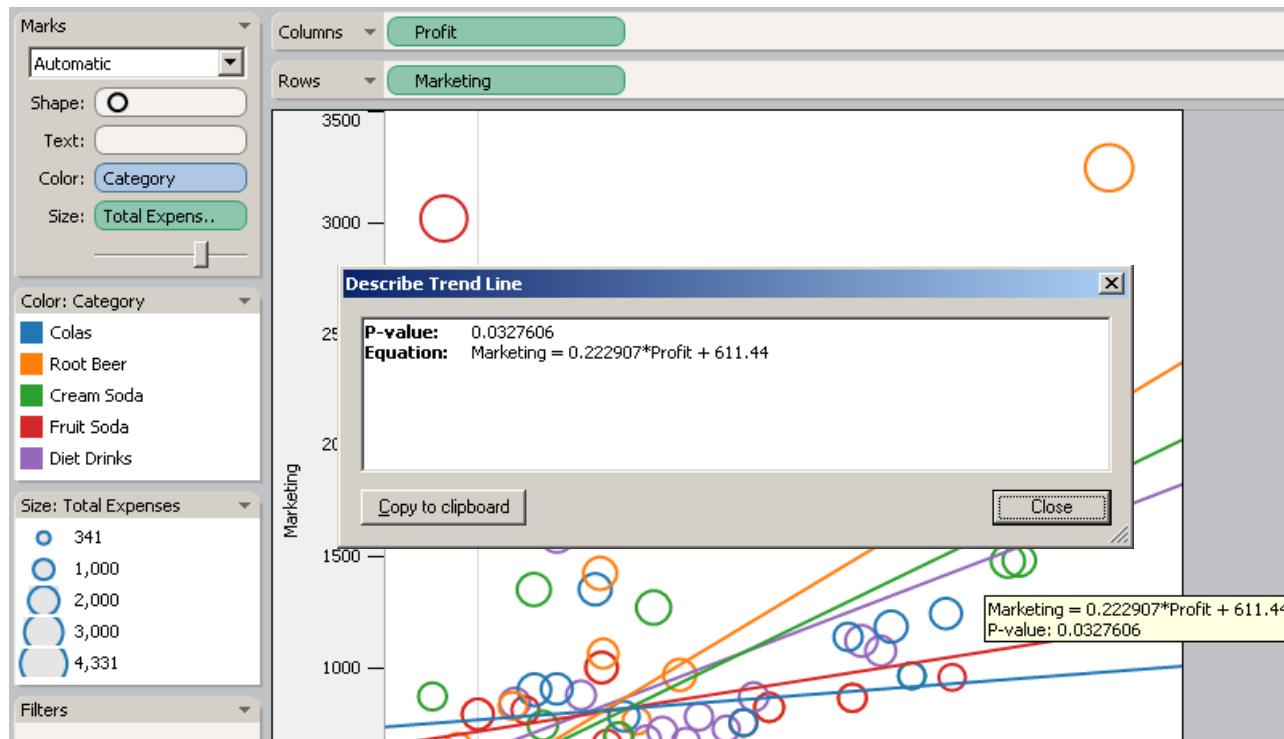
Moving from Data to Insight

In a single click see patterns that are apparent just looking at numbers:



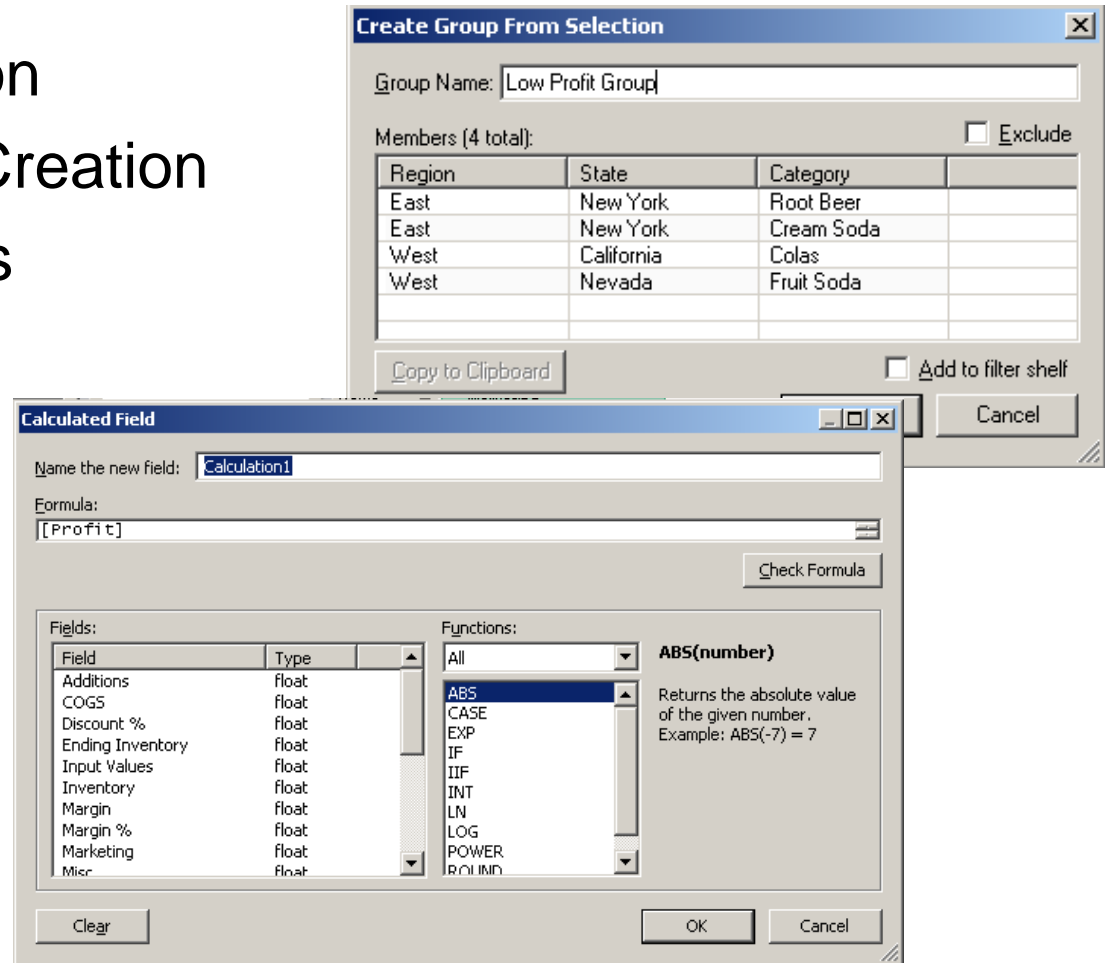
Statistical Modeling

- One-click Trending
- P-Value Analysis
- Complete Trend Description



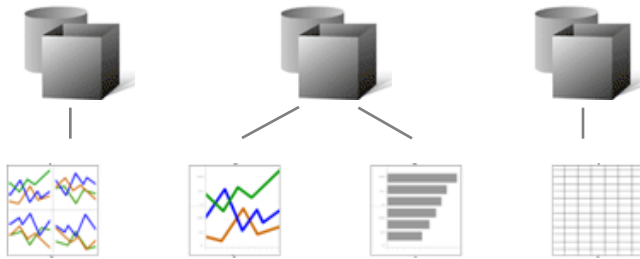
Additional Analytic Capabilities

- Named Set Creation
- Custom Measure Creation
- Calculate Members
- Totaling:
 - Sum
 - Min
 - Max
 - Avg.
 - Visual Totaling
- Table Calculations



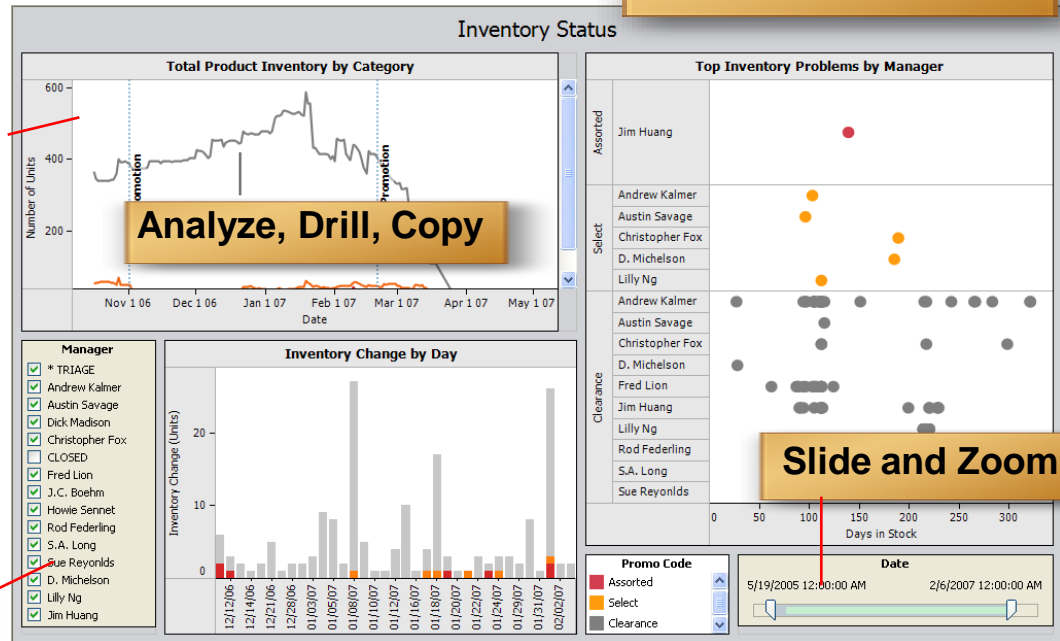
Dynamic Dashboards

- Create Multi-Faceted Visual Displays that Answer Questions
- Dashboards can be based on multiple Essbase databases
- Dashboards are Live and Interactive
- Explore and drill into information



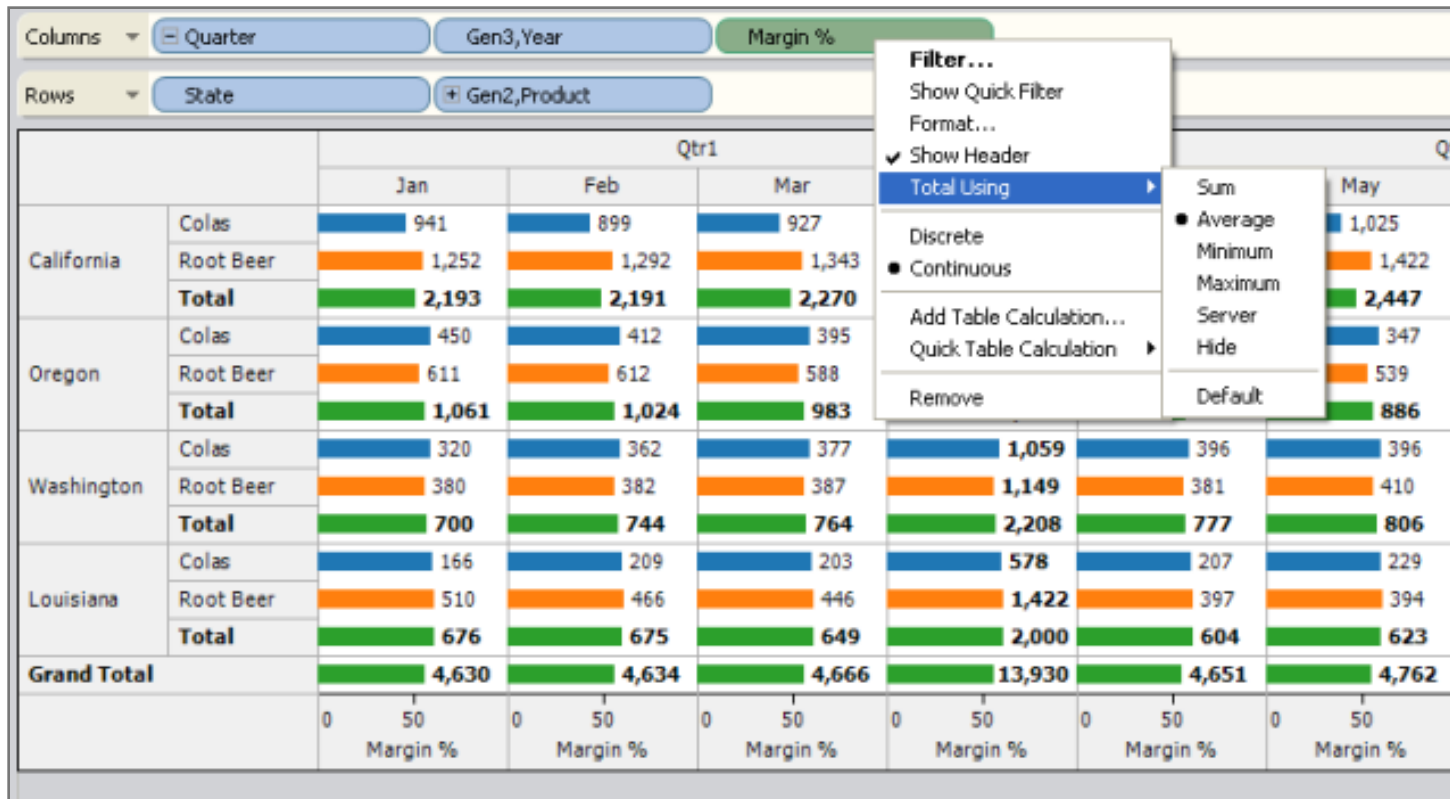
Example: Financial performance data from different Essbase cubes.

Filter or Toggle



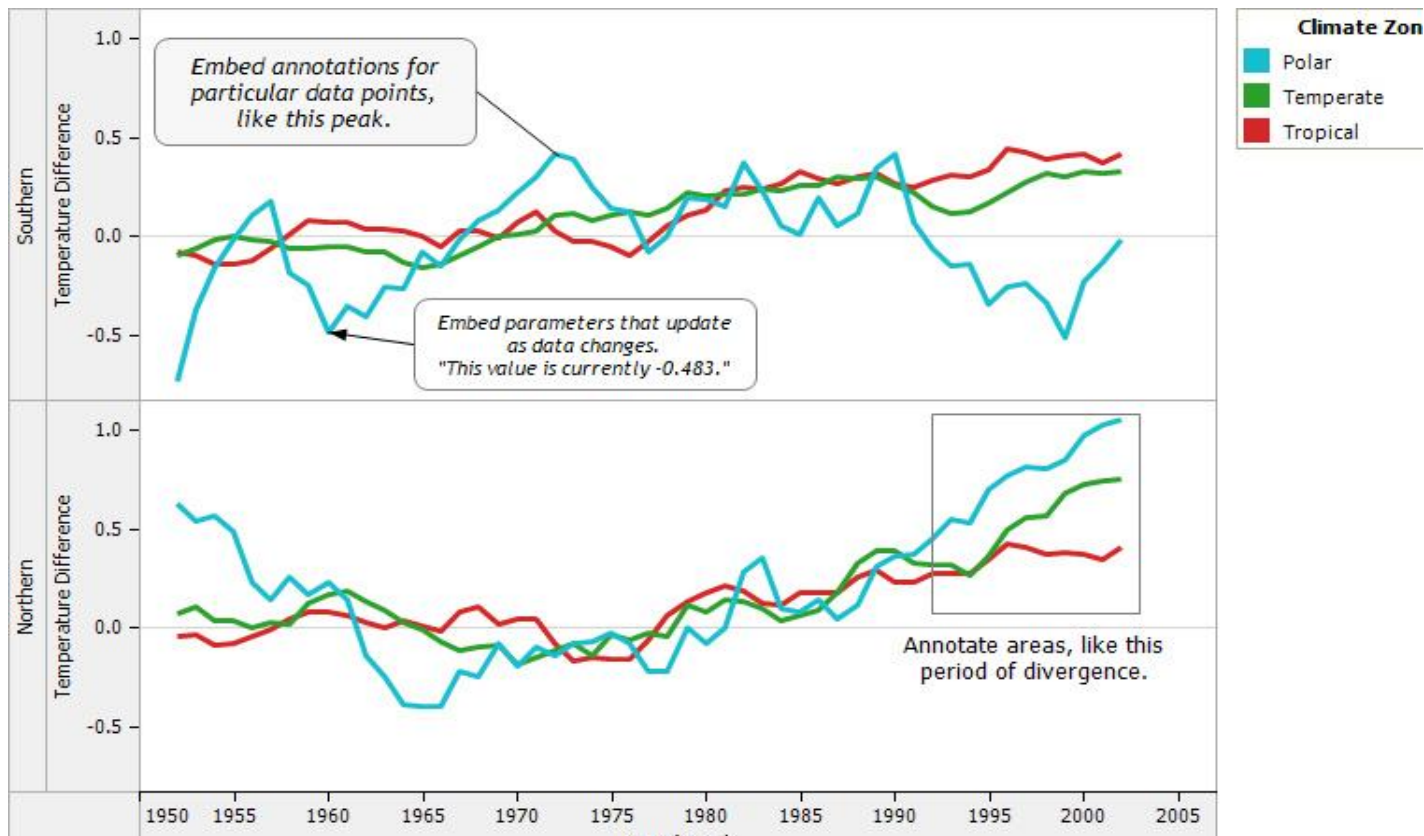
Visual Totaling

Change aggregations used in totals and grand totals on-the-fly



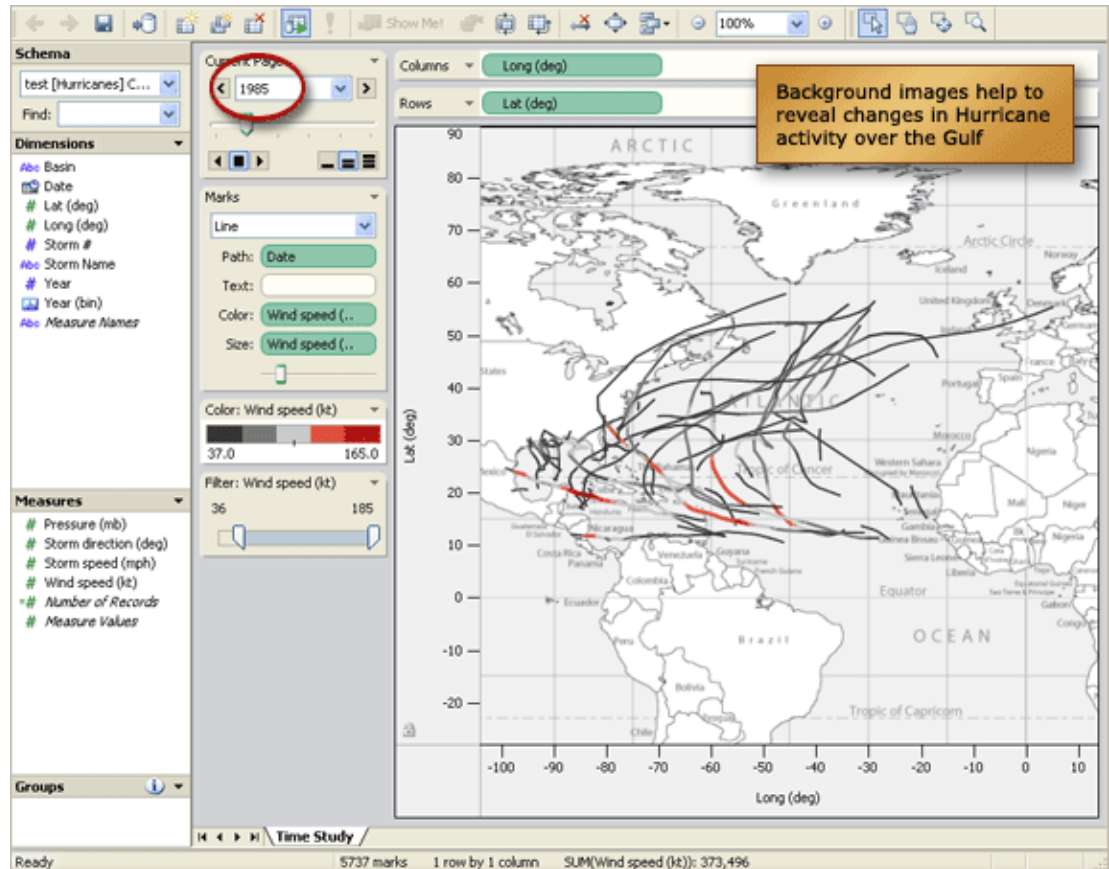
Dynamic Annotations

- Add Comments dynamically reposition
- Selectively label important data



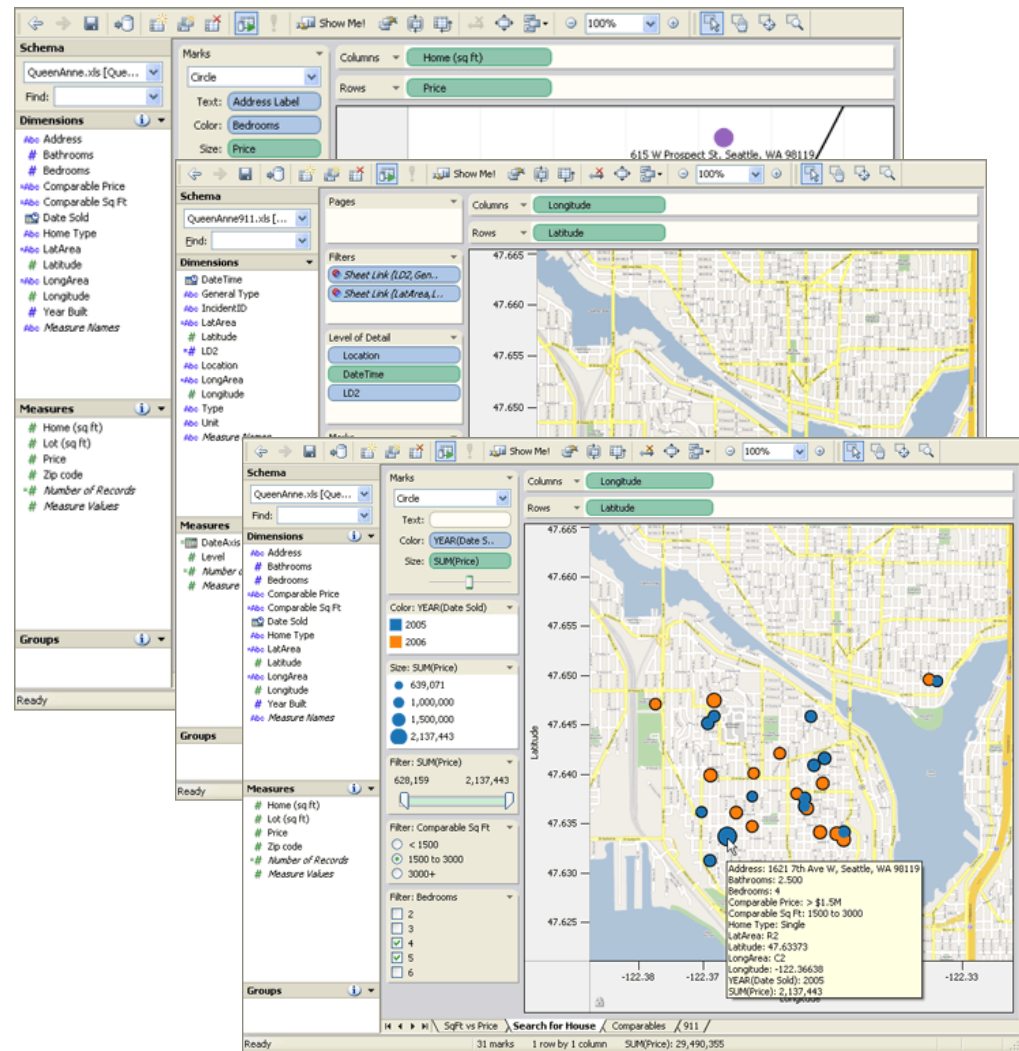
Background Images

- Layer images behind data to provide analytical context
- Fuse images with from the Web with data
- Easily insert images from URLs or files
- Popular examples employ maps



Sheet Linking

- Connect worksheets
 - Link overviews and detail
 - Integrate data from multiple data sources
- Publish guided analyses for others



Risk & Basel II



The Risk Environment

- Basel II Accord
 - Worldwide initiative to improve risk management within banks and other financial institutions
 - Aim is to protect banks against unexpected events
 - Advantages for those companies who attain “advanced status”
- Credit Risk
 - Our customers do not repay back the money they borrow
- What HBOS is doing for Basel II – the “Akimbo” system
 - Large data repository
 - Calculation engines
 - Need to satisfy Basel II “in use” test.

Analyzing vs. Reporting

The reporting process

1. Design the output format
2. Link to the data source
3. Manually analyze & make decisions

The analysis process

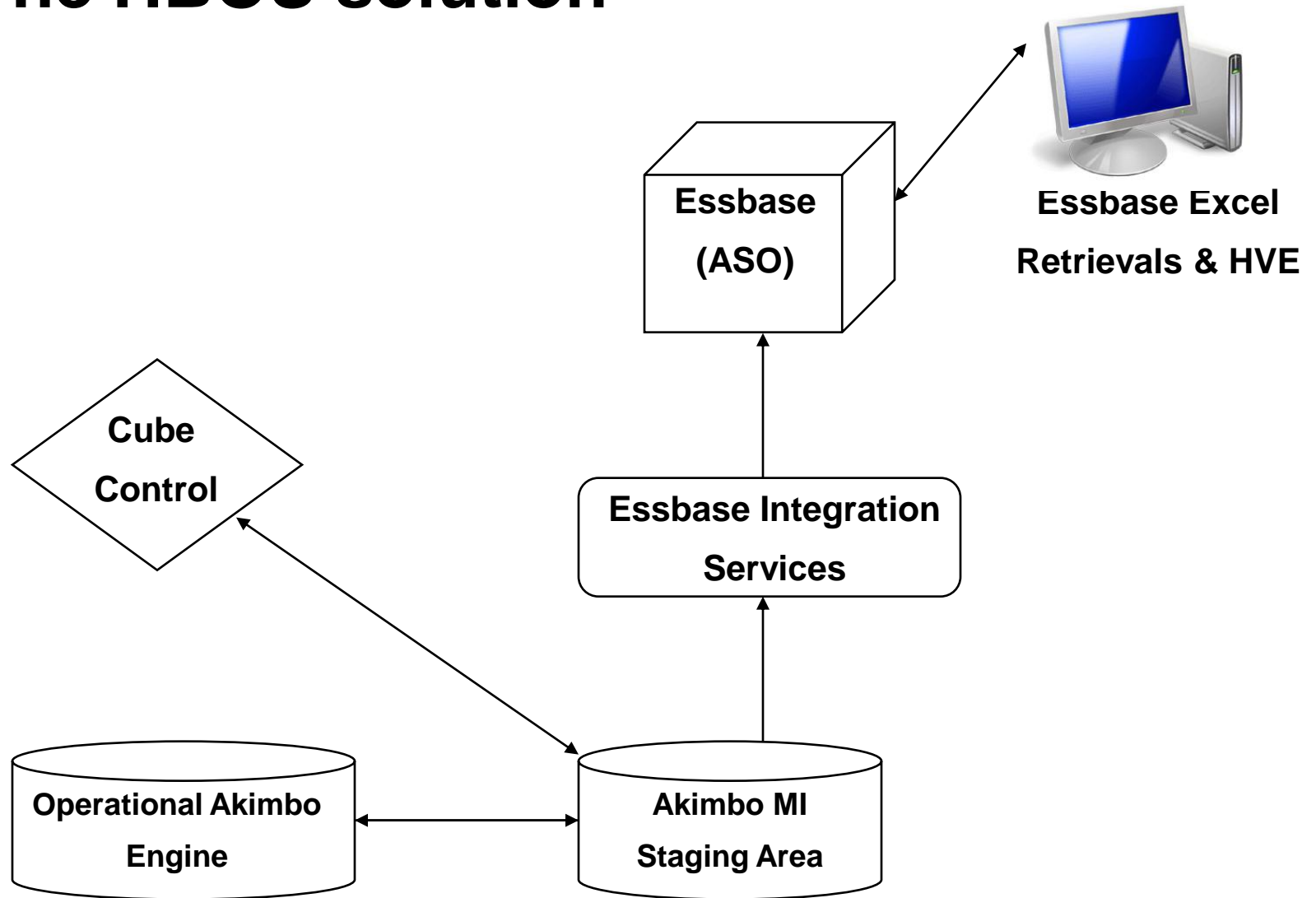
1. Start with the data
2. Create an initial graph or table extract
3. Drill around in all directions to find issues

- Reporting works where you know what issues you wish to present.
- Analysis is needed where you do not know what the issues are

Reporting vs. Analyzing

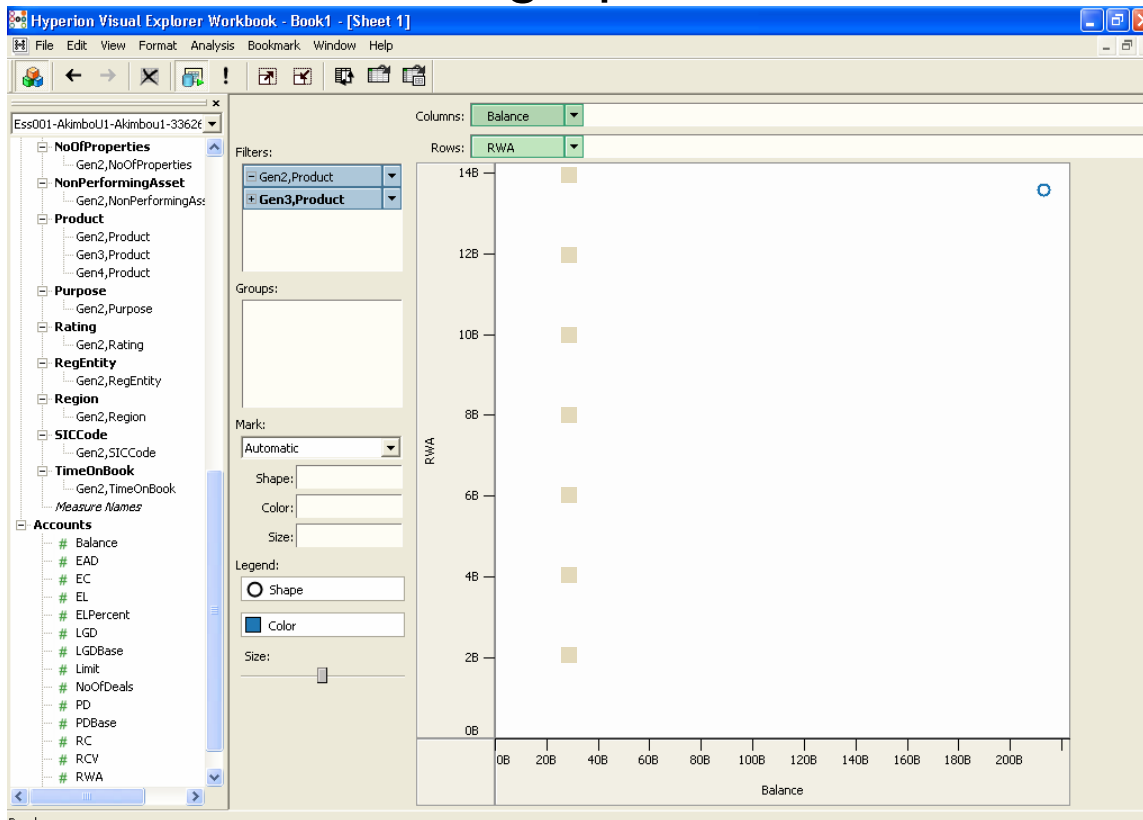
- Reporting tools need to be template based
 - Easy to make output look nice
 - Easy to reproduce output on a regular basis
- Analysis tools need to be data based
 - No restrictions on presentation, layout, design
 - Flexible editing functions
 - Dynamic (changing data)
- Essbase is an Analysis tool
 - But with HVE, we get **graphical analysis** too!

The HBOS solution



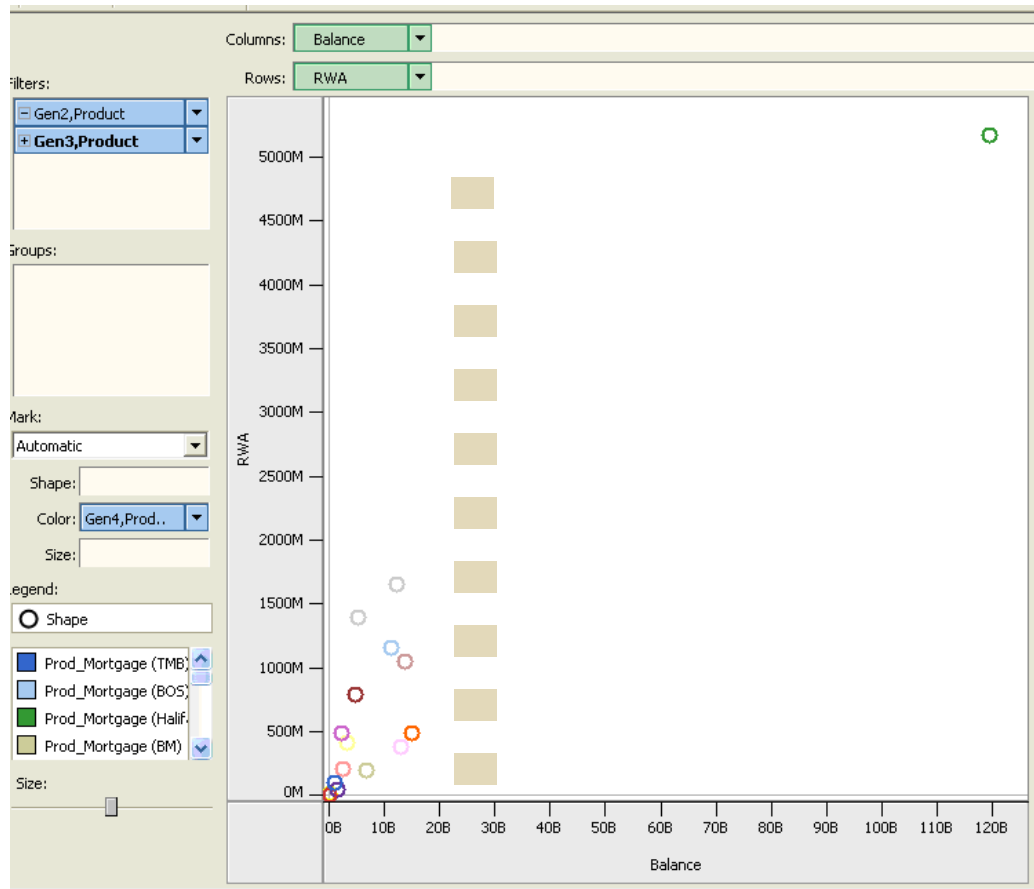
Analysis Based Problem Finding

Start with a basic graph



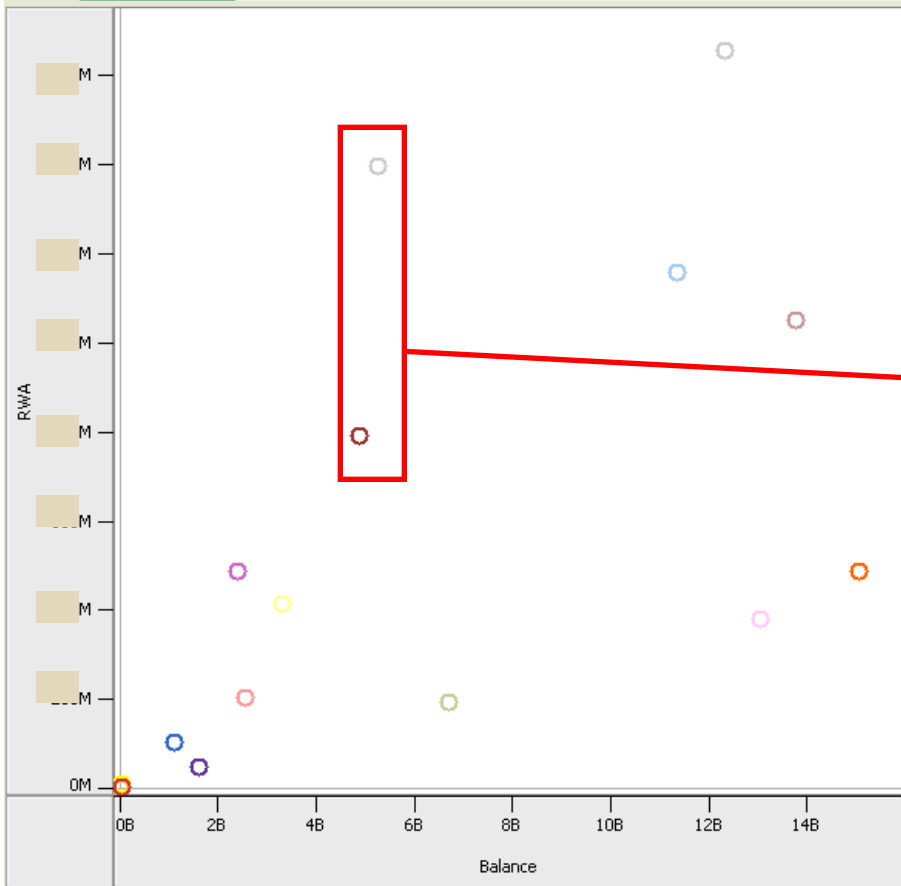
Analysis based problem finding

Then start to drill down...



Analysis based problem finding

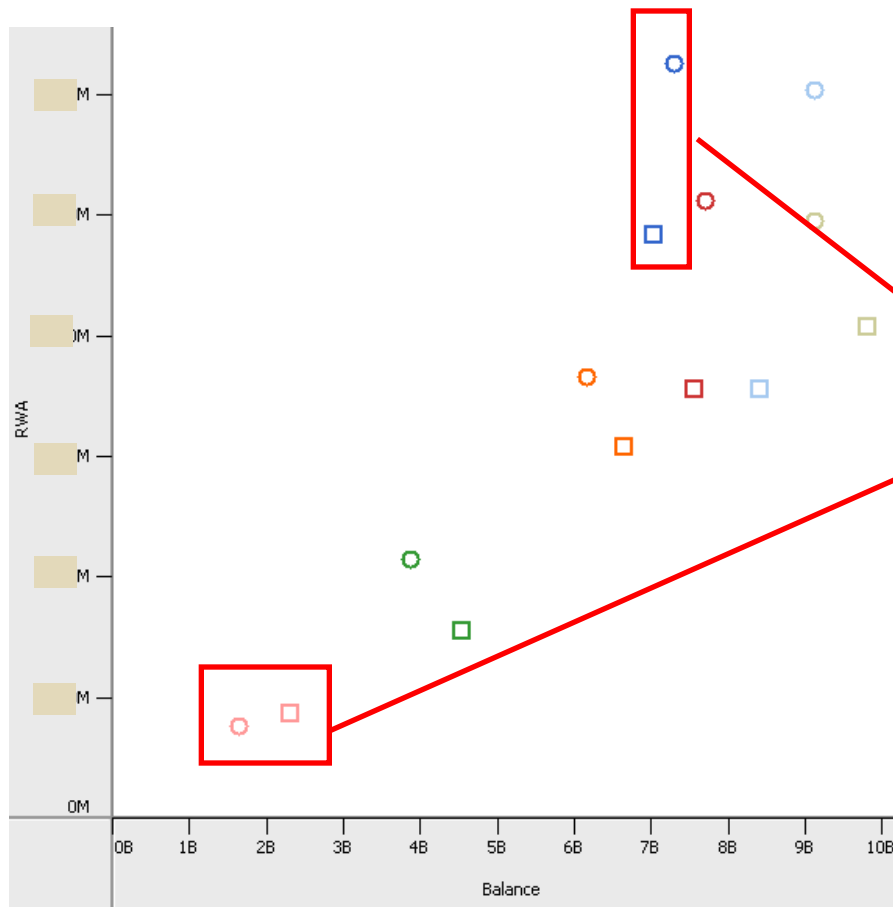
After removing a large item which might hide a problem...



Similar exposure size, but different risk... why?

Analysis based problem finding

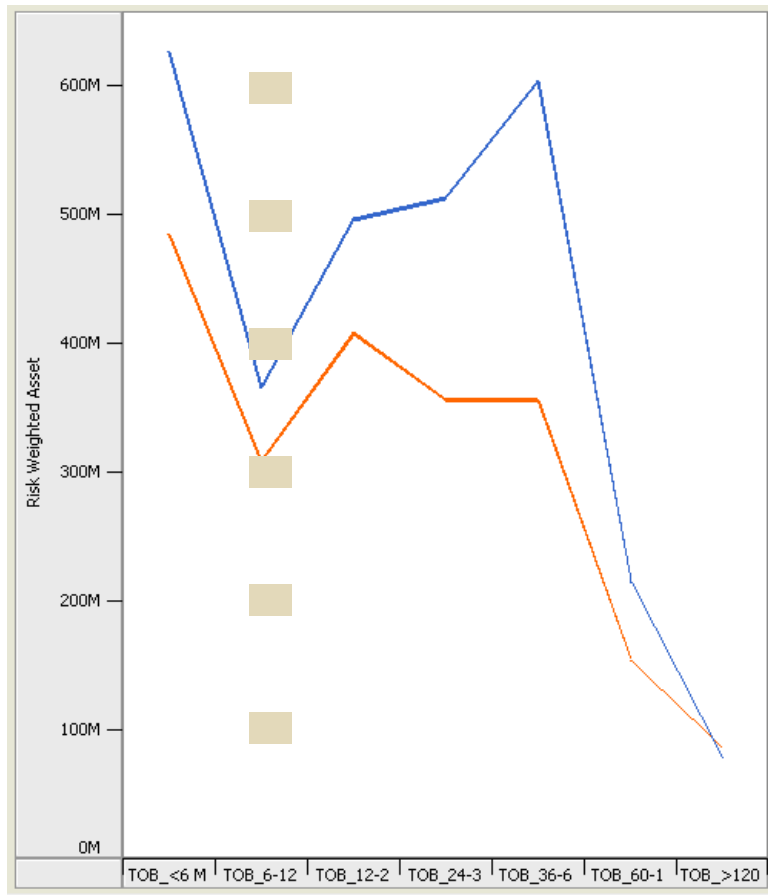
Drilling down further reveals more...



Performance is noticeably different!

Analysis based problem finding

Only now do we know what to report!



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