

Smart Data Webinar

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webinar using #SmartData.*



Banks Face Demanding Environment

- **Rapid changes**
- **Tighter regulation**
- **More complexity**
- **Increased demands for information**



More demands combined with today's powerful technology means trouble

Many Loan Processes Are Conceptually Straightforward

- **General reserve**
- **Impairment**
- **Stress testing**
- **Non-accrual**

 Conceptually simple, but operationally hard. Why?

Data!



- **27** of 28 surveyed last year said they were not satisfied with data and data management
- **23** of 24 surveyed this year said they were not satisfied with data and data management
- February 2015 RMA Journal survey
 - Majority of U.S. institutions surveyed disagree with statement that risk data is “clean, comprehensive, accessible and timely”
 - Highest level of concern about “difficult integration among systems”
 - High level of concern about “lack of integrated risk and finance reporting”



Despite heavy investment, data remain a challenge nearly everywhere

Symptoms of Data Challenges that Need to be Addressed:

- Inability to do desired analysis because data architecture does not support it
- Many sources for reports – inconsistent answers depending on whom you ask
- Emailing, phone calls or other manual movement of data from one function or process to another
- Multiple sources for the same data elements require significant reconciliation efforts or cause inconsistencies
- Calculations require data from unwieldy number of sources
- Making data “application-ready” happens in many places
- Etc...



Data challenges lead to inefficiency, lack of ability to do desired tasks, lack of control

Handy Guide to Troubled Data Projects

1 Never-ending

- Two years into a scheduled two-year project with little benefit and 18 months remaining to finish

2 Non-adoption

- Project is done but no processes actually use it

3 Attic

- Data are all in one place but processes use different data for the same thing



Having a successful data project requires addressing root cause of challenges

Data Challenge is Foundational with Multi-Faceted Issues

Data challenge starts at the front end of all processes (sourcing)

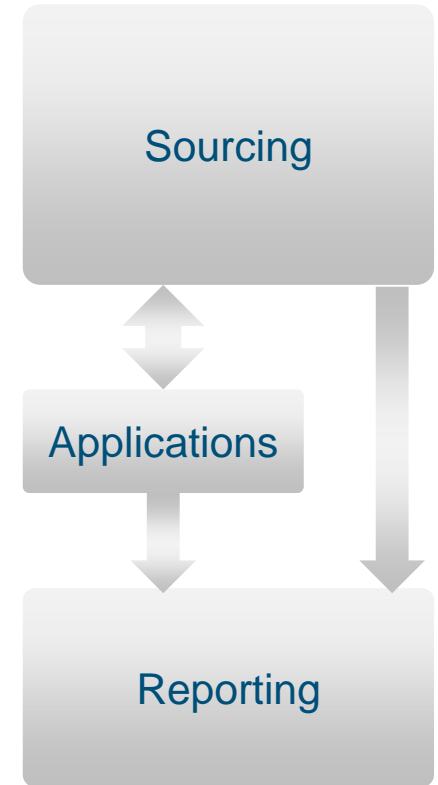
- Reconciliation, timing differences, “bad” data, etc...
- Identification and segregation important parts of process

Data and applications must be synchronized

- “Application-ready” data must be accessible to applications
- All applications must link to reporting data mart in native way

Back end reporting also a data challenge

- Aggregation
- Multiple views and ad hoc analysis need to be supported

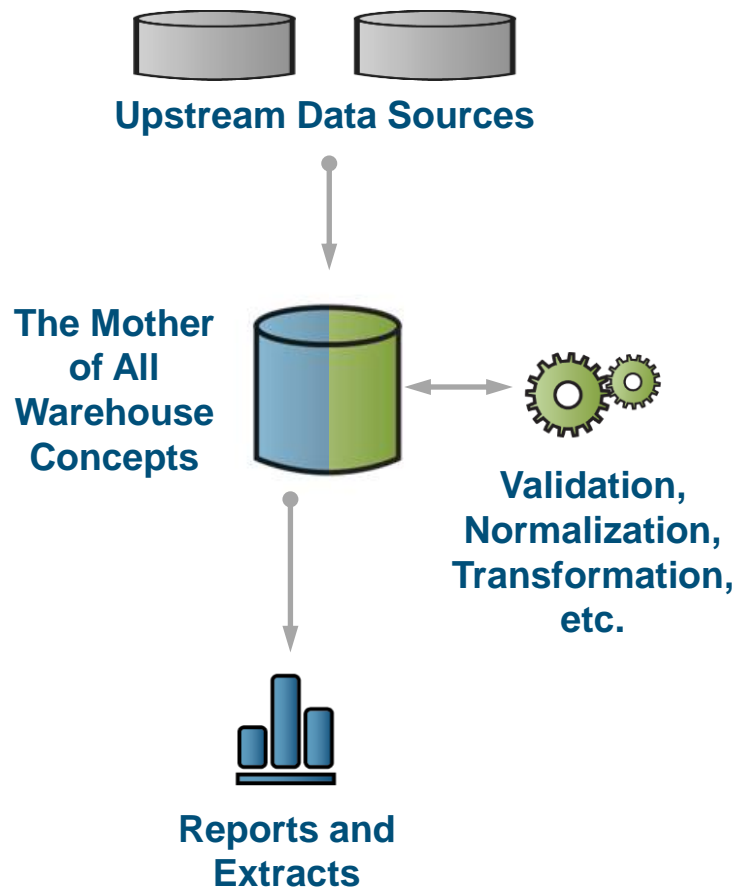


! Addressing the data challenge successfully requires addressing sourcing, applications, and back-end reporting holistically

Elements of a Comprehensive Data Architecture

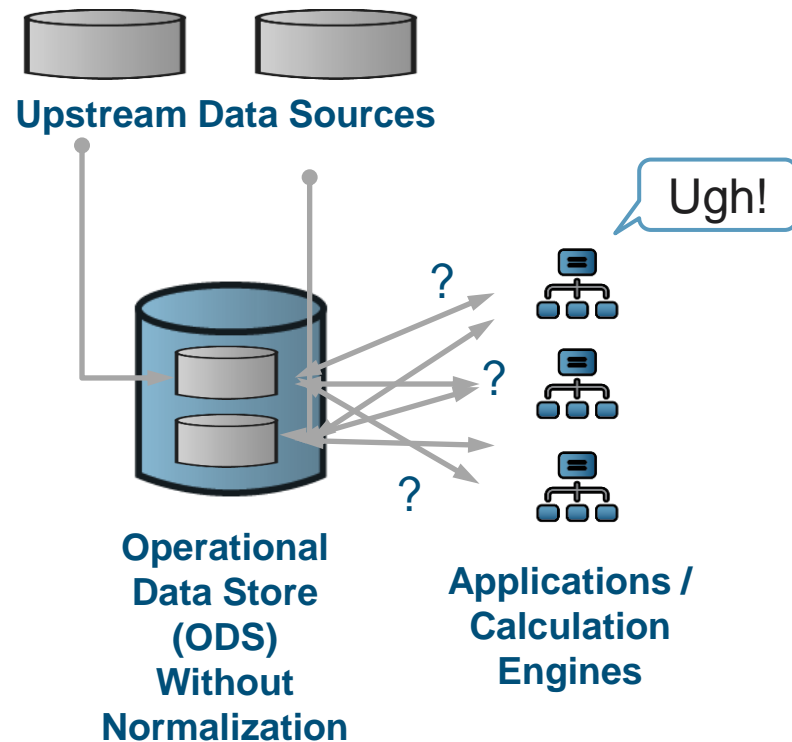
- 1 Integration of multiple upstream data sources
- 2 Integration of human data
- 3 Data validation, normalization, enrichment, and population identification
- 4 Integration with Calculation Engines
- 5 Warehouse Design and Population
- 6 Reports, Analytics, and Extracts

Pitfall #1: Conflating Operational Data with Reporting Warehouses



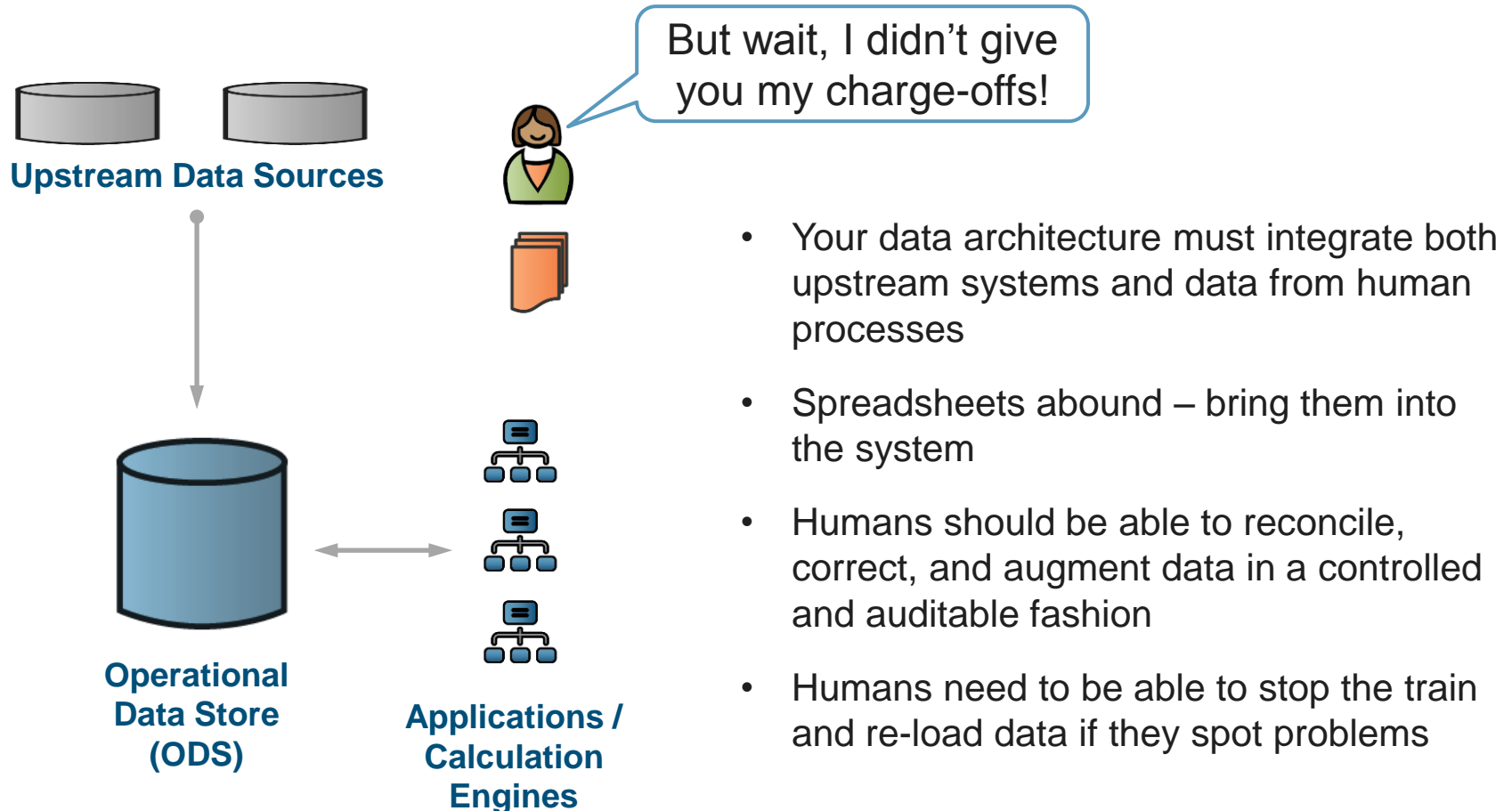
- Operational Data Store (ODS) design is completely different than a Reporting Warehouse design
 - An ODS will have multiple data sources and multiple applications integrated
 - A modern reporting warehouse is designed and optimized for read-only reports
 - The warehouse should not have to share resources with an active ODS
- For the best dining experience, cook your data in the kitchen (Operational Data Store) and eat it in the dining room (Reporting Warehouse)

Pitfall #2: Failing to Normalize

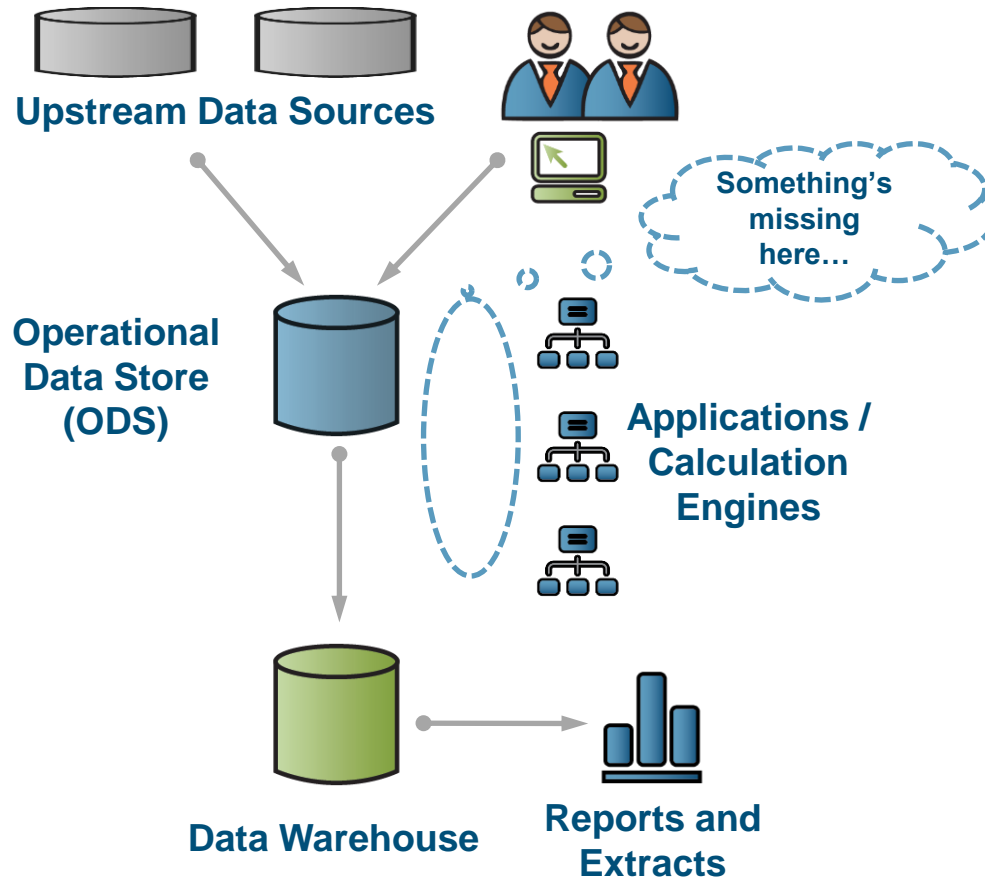


- Bringing upstream data into an ODS without normalizing means the applications will never see a consistent view of the data across sources
- Applications and calculation engines should not have to deal with multiple data formats
- Reporting across data sources becomes extremely difficult if not impossible
- Your ODS should not be a dumping ground for disparate formats
- A loan is a loan is a loan – represent it that way no matter where it's from

Pitfall #3: Don't Forget the Humans!

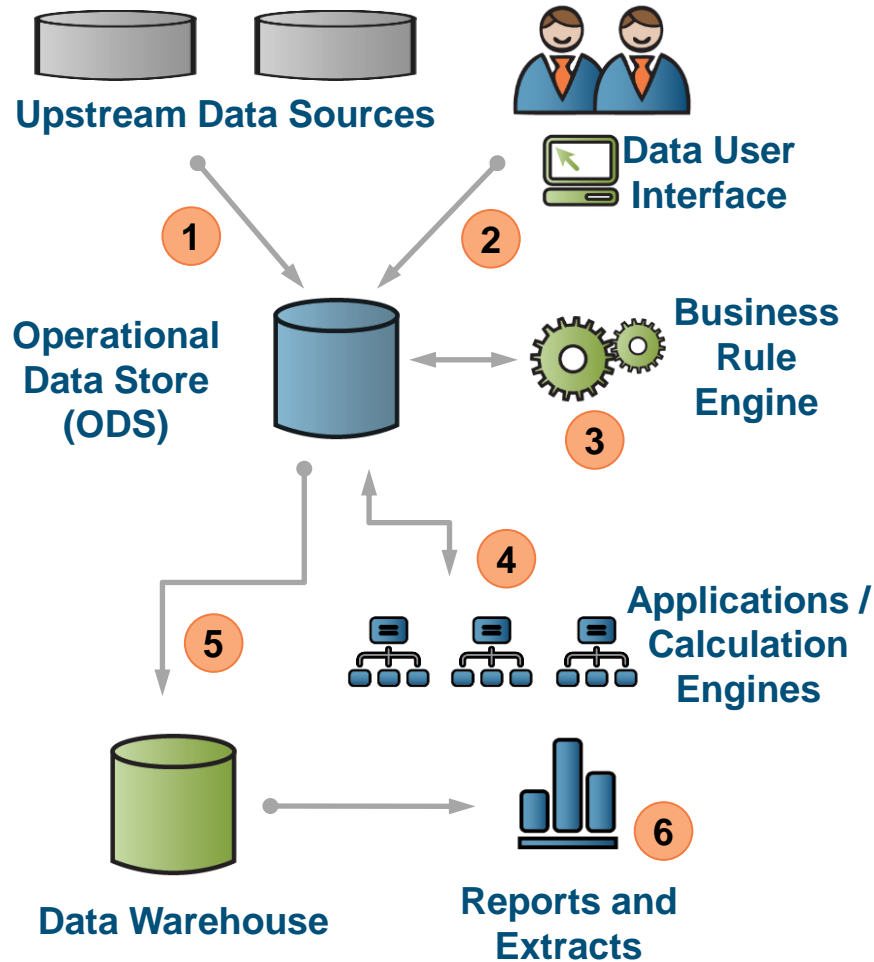


Pitfall #4: If You Build It, They Will Come

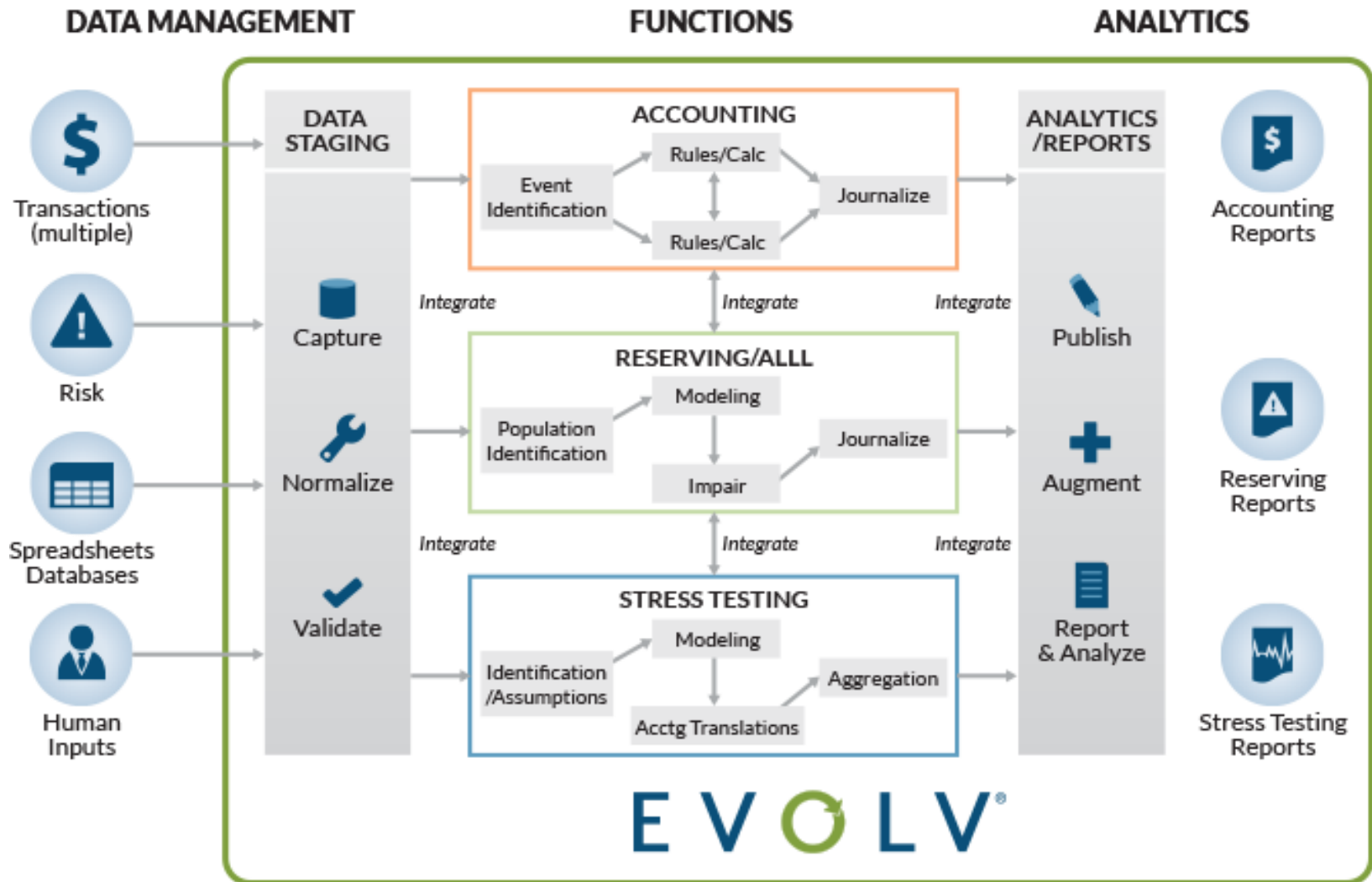


- Very nice architecture for consolidating and reporting, but no applications integrated!
- Applications left to fend for themselves
 - Input to each application needs to be copied from somewhere else and transformed
 - Reconciliation nightmare
 - Applications have to provide their own reporting of outputs
- Can happen when IT throws a data warehousing party and doesn't invite the business

Putting it All Together: Smart Data Architecture



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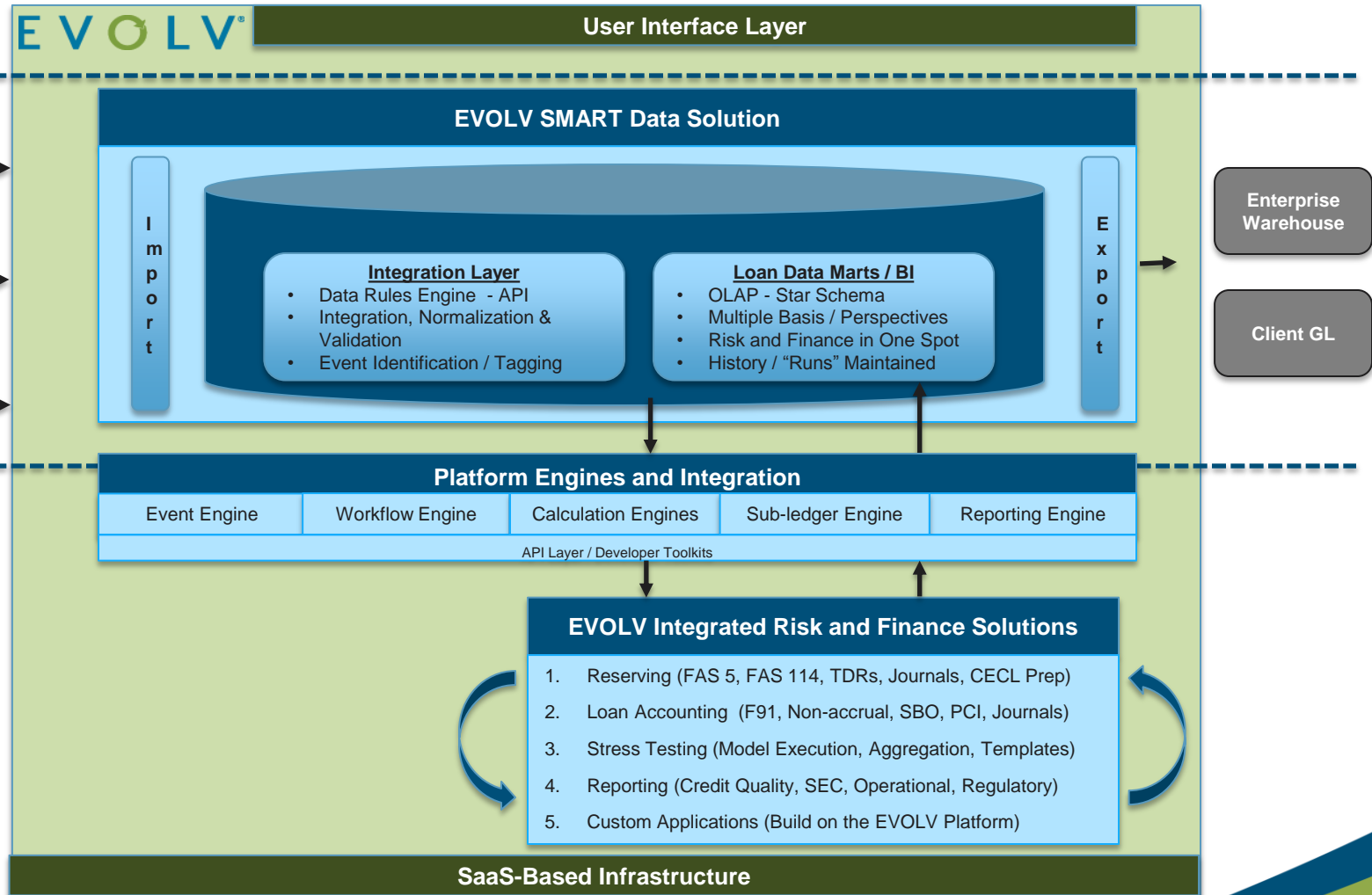
“The EVOLV’d State”



End User

Loan Data

Risk and Finance Functions



One Platform

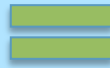
Unified Source Data



Integrated Reporting Data Mart



Integrated Applications



The EVOLV Difference

Q&A Session

Contact Us

If you would like to hear more,
please reach out to us!

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