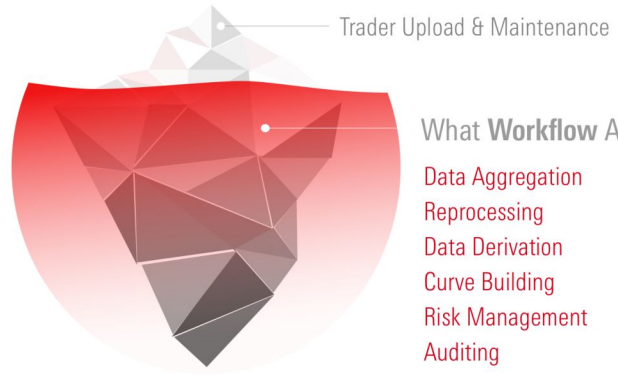


# Workflow Manager

**Workflow Manager** is an automated calculation engine serving risk managers, analysts and traders to apply their own business logic to market and proprietary data.

Building upon rapid market data availabilities in Morningstar's next generation data warehouse, flexible data uploading in Excel Add-in and desktop visualization in Markets, Workflow Manager provides a robust framework to automate data manipulation and distribution. It creates an automation process for deriving data, informing risk management, and delivering results of downstream system and uses.



## What **Workflow** Automates

- Data Aggregation
- Reprocessing
- Data Derivation
- Curve Building
- Risk Management
- Auditing

## Challenges

- Inefficient
  - Inconsistent sources and formats
  - Repetitive data and logic in multiple workbooks
  - Errors due to manual process
- Time-consuming
  - Large amount of Excel worksheets
  - Bottleneck waiting due to dependent processing
- Costly
  - High labor and various software costs

## Workflow Solutions

- Automation
  - Eliminates manual data aggregation and waiting
  - Process visualization ensures quality delivery
- Easy data derivation & curve building
- Security with SOC1 Compliance
- Cost saving
  - Reallocation of labor to value added areas

**75%**

Avg Cost Saving

**90%**

Error Reduction

**5000+**

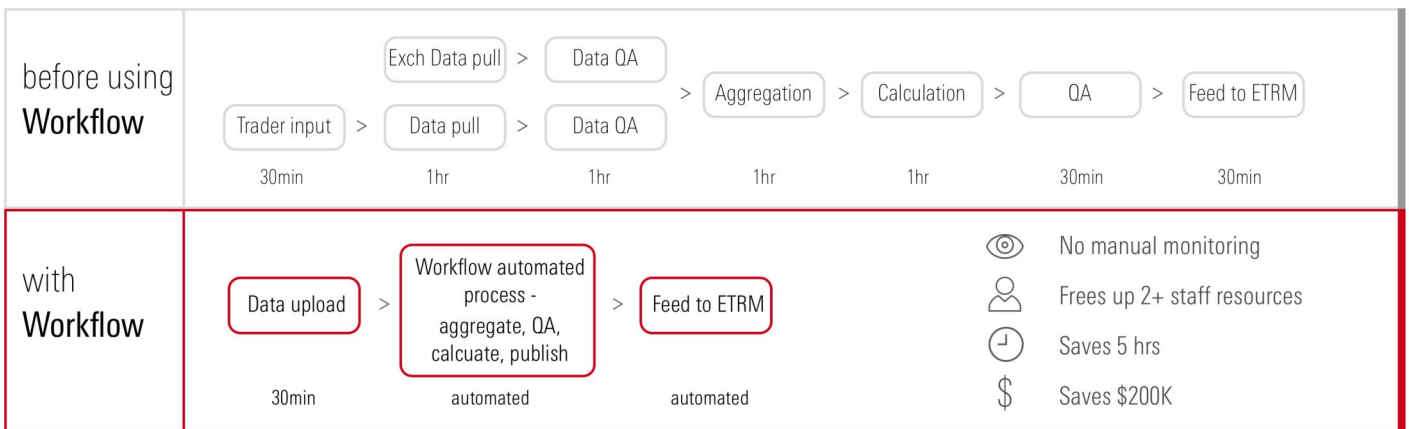
Excel Sheets Replaced

**SOC1**

Security Compliant

**24/7**

Data Support



" Professional, enterprise grade solution with low overhead " - Risk Manager from Vistra Energy