RIVERWARE

Center for Advanced Decision Support for Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

New Features:
Model Comparison Tool
Workspace Enhancements
Online Help Delivery

2019 RiverWare User Group Meeting

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Model Comparison & Version Control

Complex Models

Evolve in time + Collaborative

Challenges

- Behavior attribution
- Parallel development
- Tandem models

- Reproducibility
- Recovery
- Change tracking

Solutions

- Understand differences between versions
- Retain history of all model file versions

Model Comparison Tool

Displays differences for two versions of a model

Development History

- 7.0: RPL Set Comparison Tool initial release

- 7.4: Model Comparison Tool initial release

- 7.5: Model Comparison Tool enhancements

Configuring the Comparison
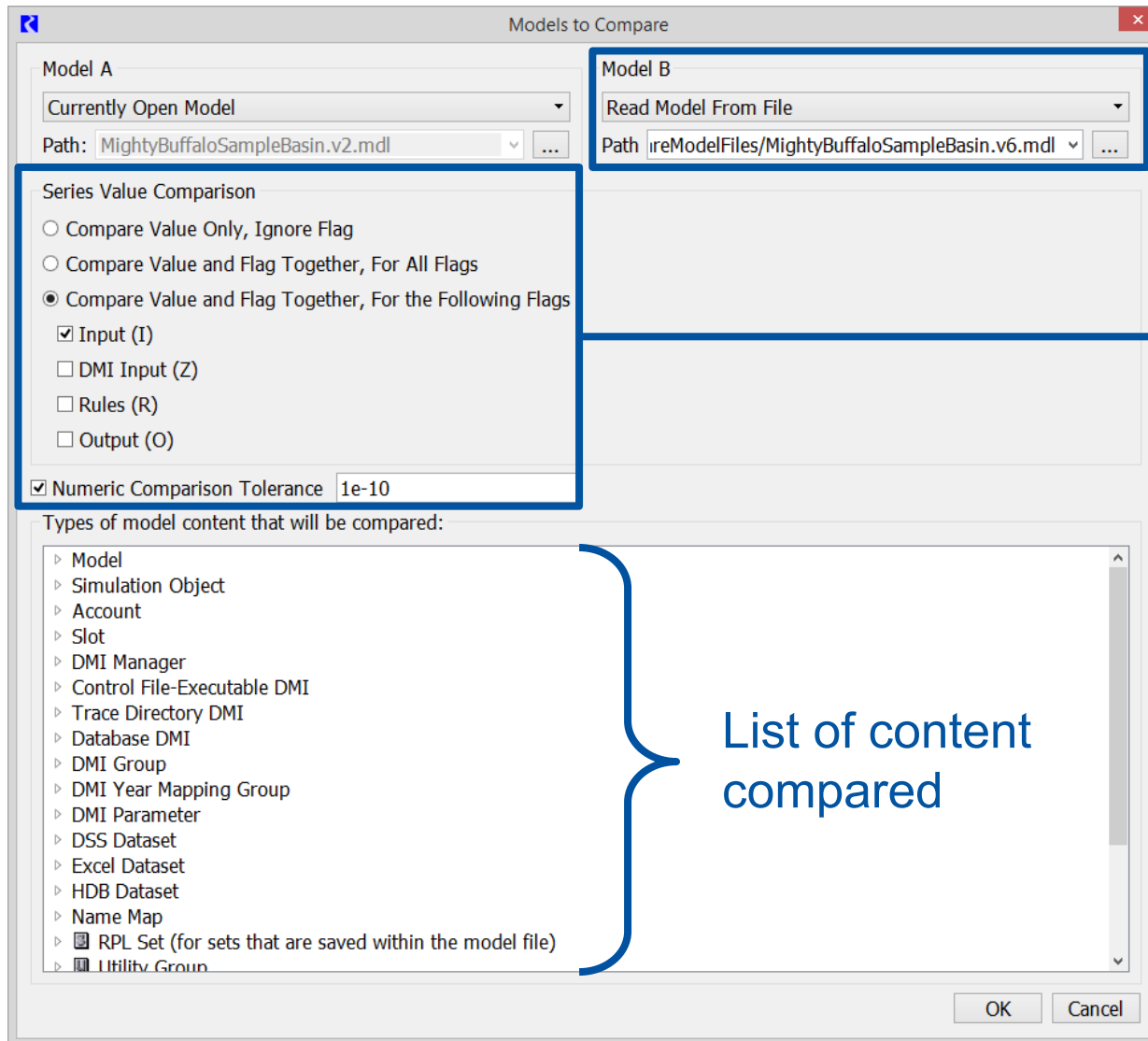
Select a model to compare

Options for how to compare data

List of content compared

Displace Selected Difference

Results panel lists items with differences

Item

Property (selected)

Displayed difference

Search and Filter Controls

Data Differences:
Graphical and Tabular View

Compares Embedded RPL Sets

# Possible Model Comparison Tool Future Enhancements

- Extend comparison content
  - MRM configurations
  - Model parameters
  - Scripts
- Synchronized scrolling of property difference panels
- Additional usability features

Windowing Challenges
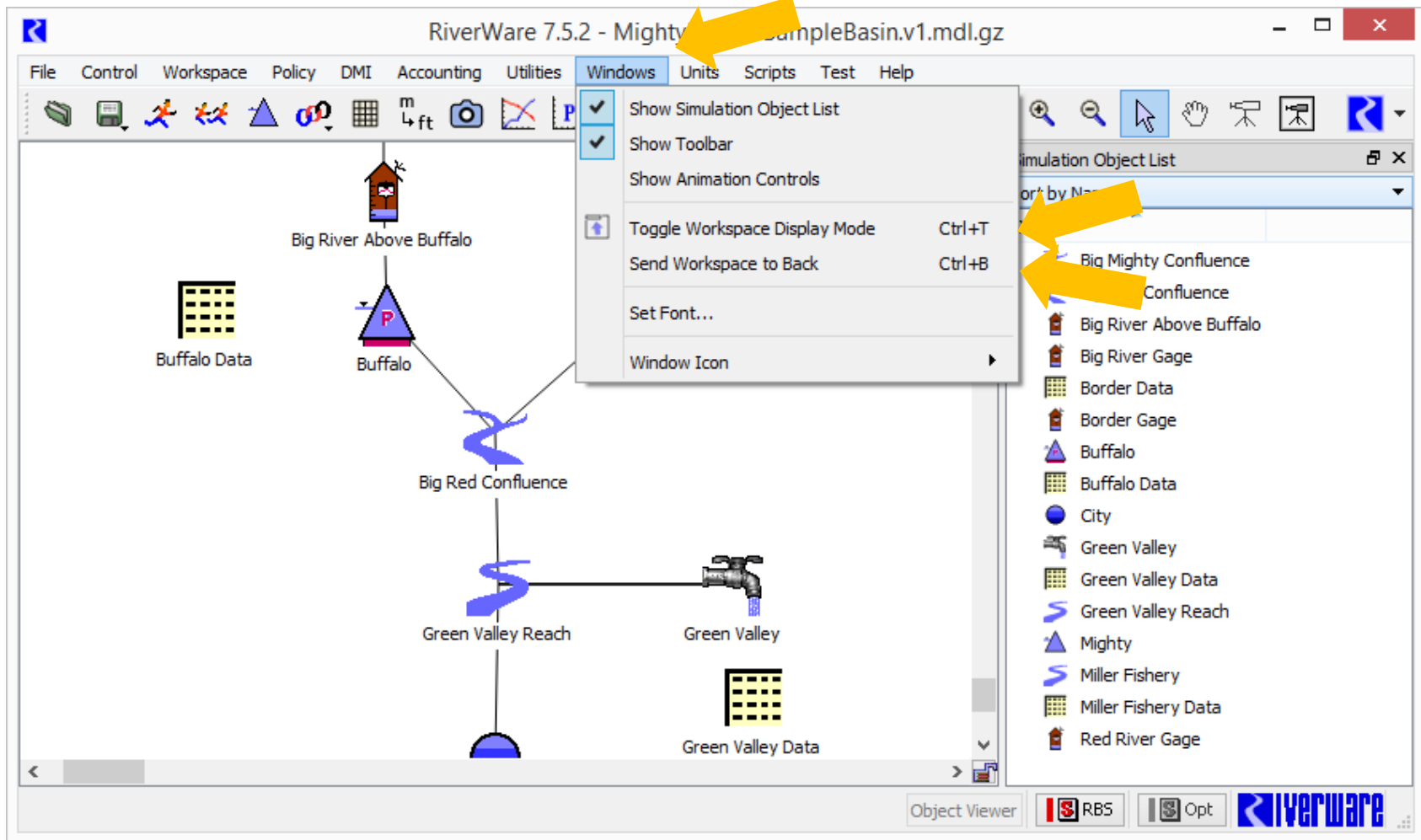# for Multi-window Applications

- Window overlap: workspace obscures other windows

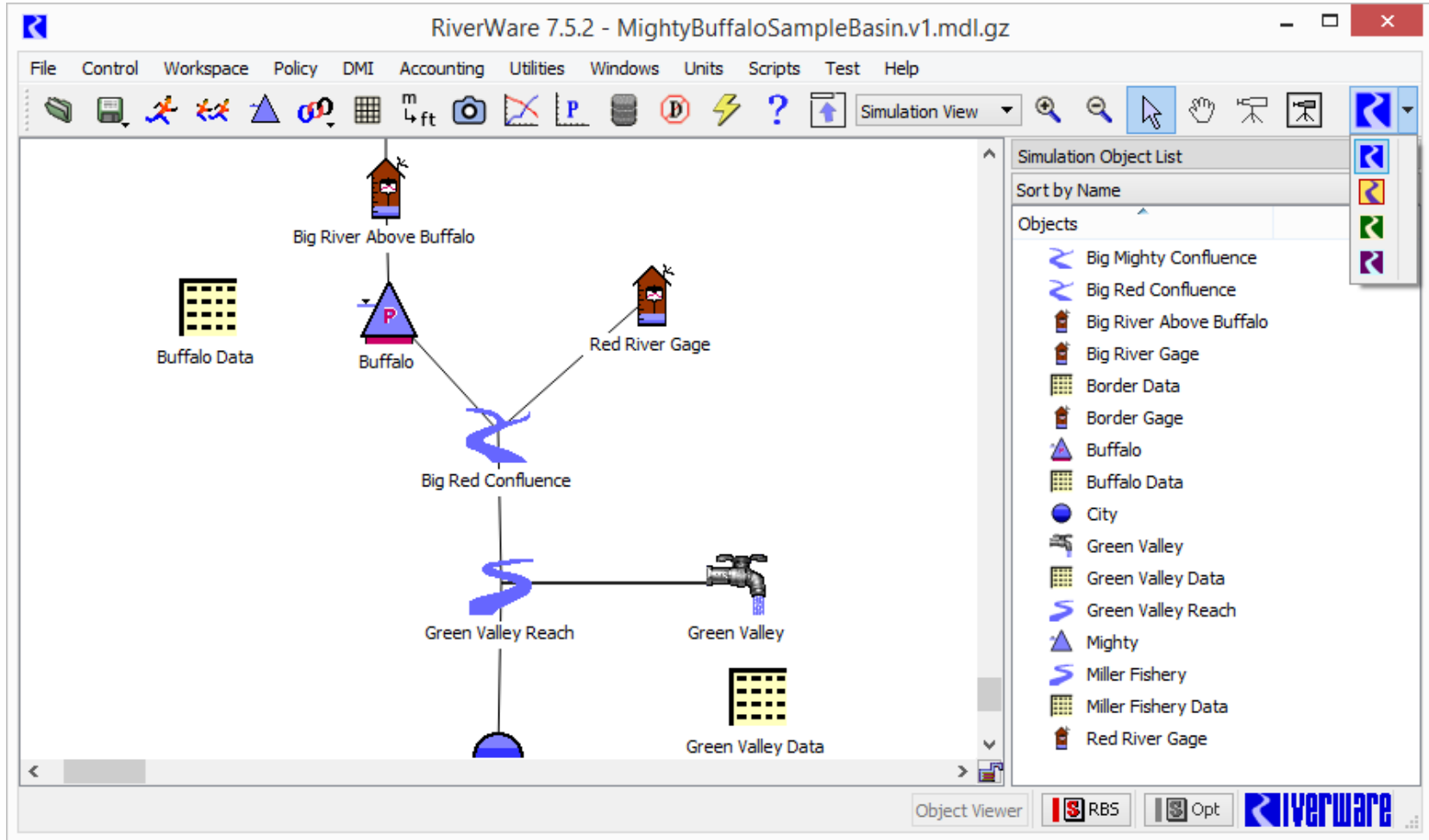- Window identification: which model is this Object Viewer for?
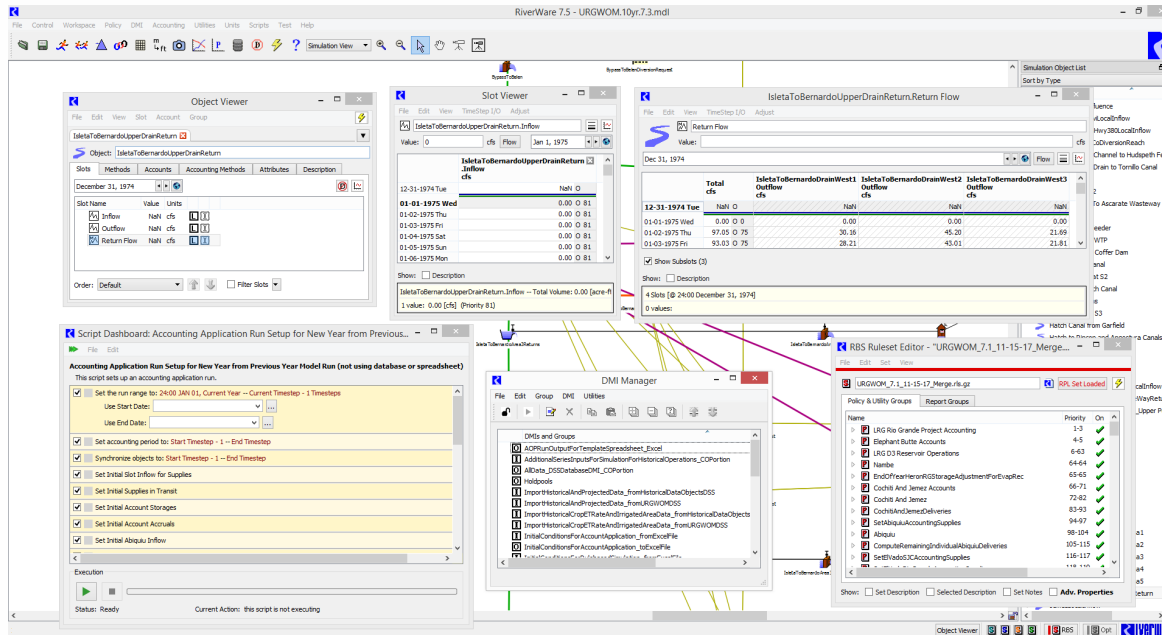
Enhancements

- Moved Workspace Windows menu
- Send Workspace to Back
- Workspace Display Mode
- Icon Color toolbar menu button
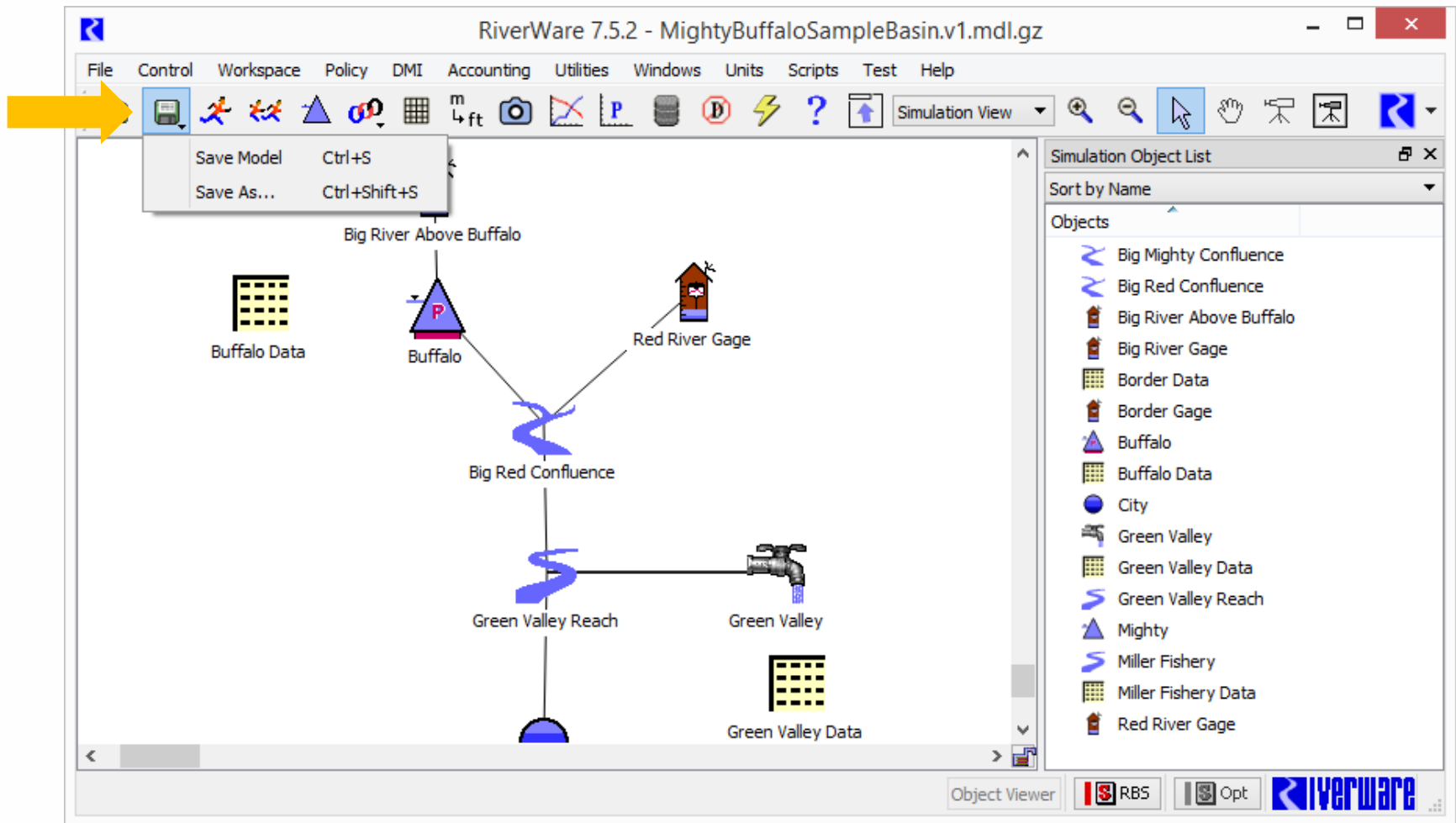- Save Model toolbar menu button
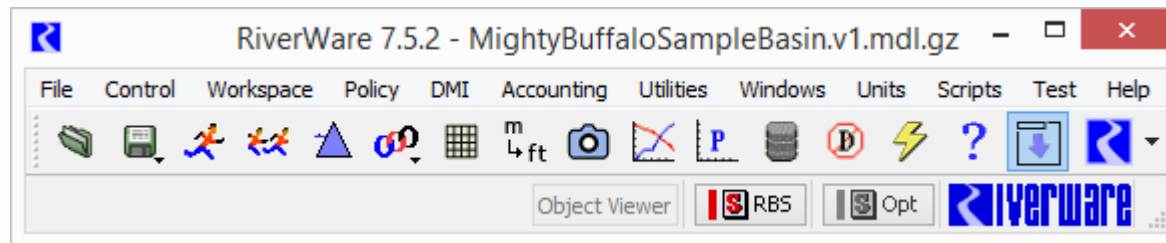- Per-Process taskbar button grouping

Top-Level Windows Menu
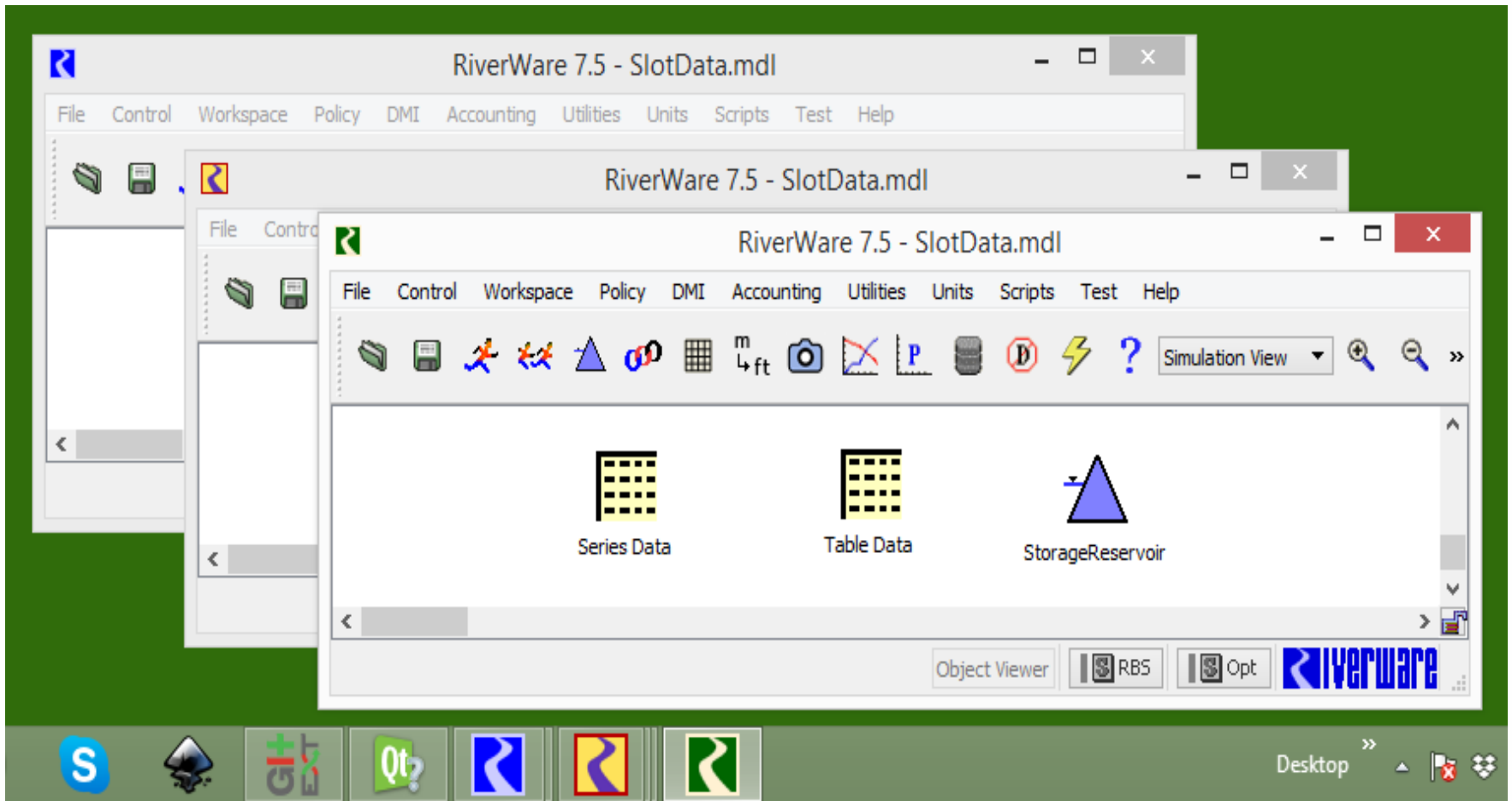
Icon Color Toolbar Menu Button

Save Model Toolbar Menu Button

Workspace Compact Display Mode

Per-Process Taskbar Icon Grouping

Additional Suggestions

- Configure Windows Layout
- User Preferences Manager
- Docking in workspace for additional windows
- Model Name menu button for main windows

Online Help: Browser-based