www.bentley.com

Dynamic Review

Hayley Brown
Industry Consultant, Bentley Plant

Bentley®
Sustaining Infrastructure

Information Challenges

Incomplete Information

- Graphics and business data are stored in separate places
- Rich information is not accessible outside native application
- Information source and change history is often unknown

Unreliable Information

- Insecure information is vulnerable to misuse
- Lack of information status compromises trust
- Inaccurate transformation eliminates precision

Irrelevant Information

- Multi-discipline information is constrained at source
- Graphics and business data are not optimized for reuse
- Review and comment workflows are disconnected

Bentley

Dynamic Collaboration Priorities

Reuse Multi-discipline Information

- Exchange rich multi-discipline information
- Rely upon secure and accurate content
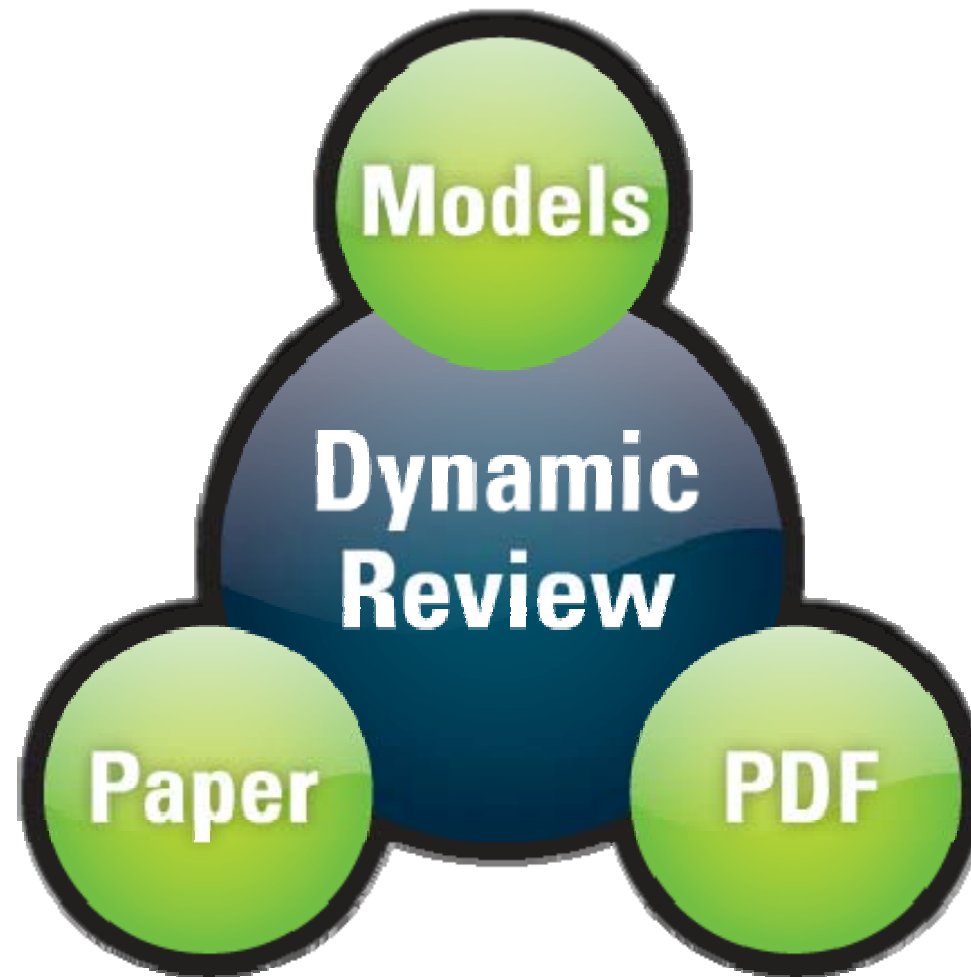- Improve the quality of decisions made
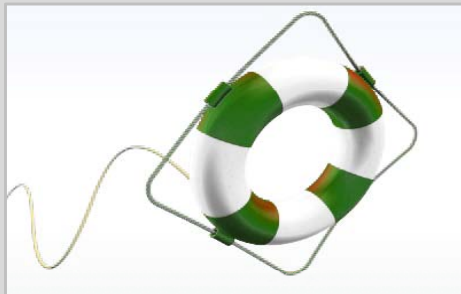
Manage Change Reliably

- Get the right information to right people fast
- Manage design development & change processes
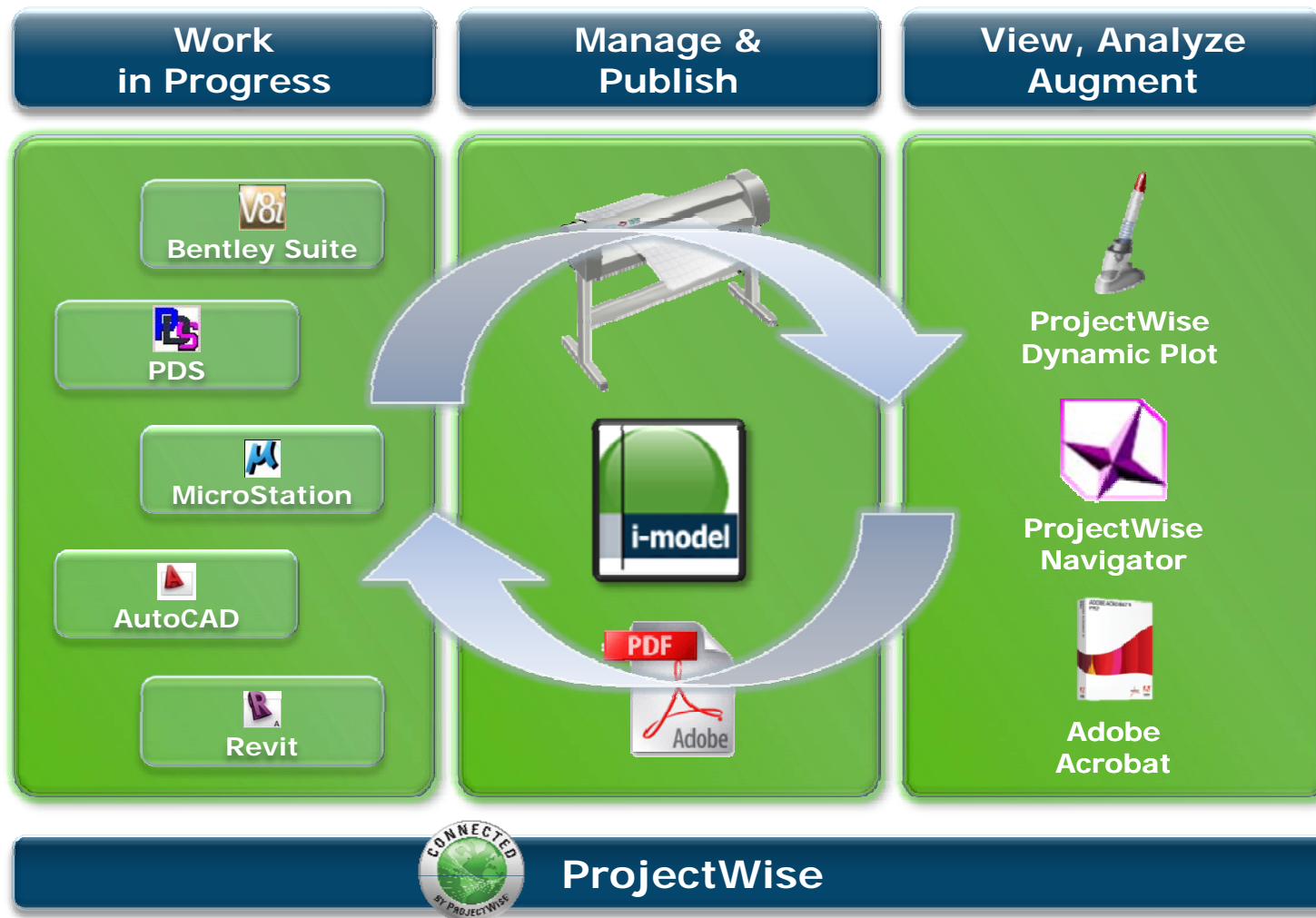- Enable "dynamic" interoperability workflow

Integrate Project Delivery

- Improve project certainty with greater insight
- Eliminate errors to reduce change orders on site
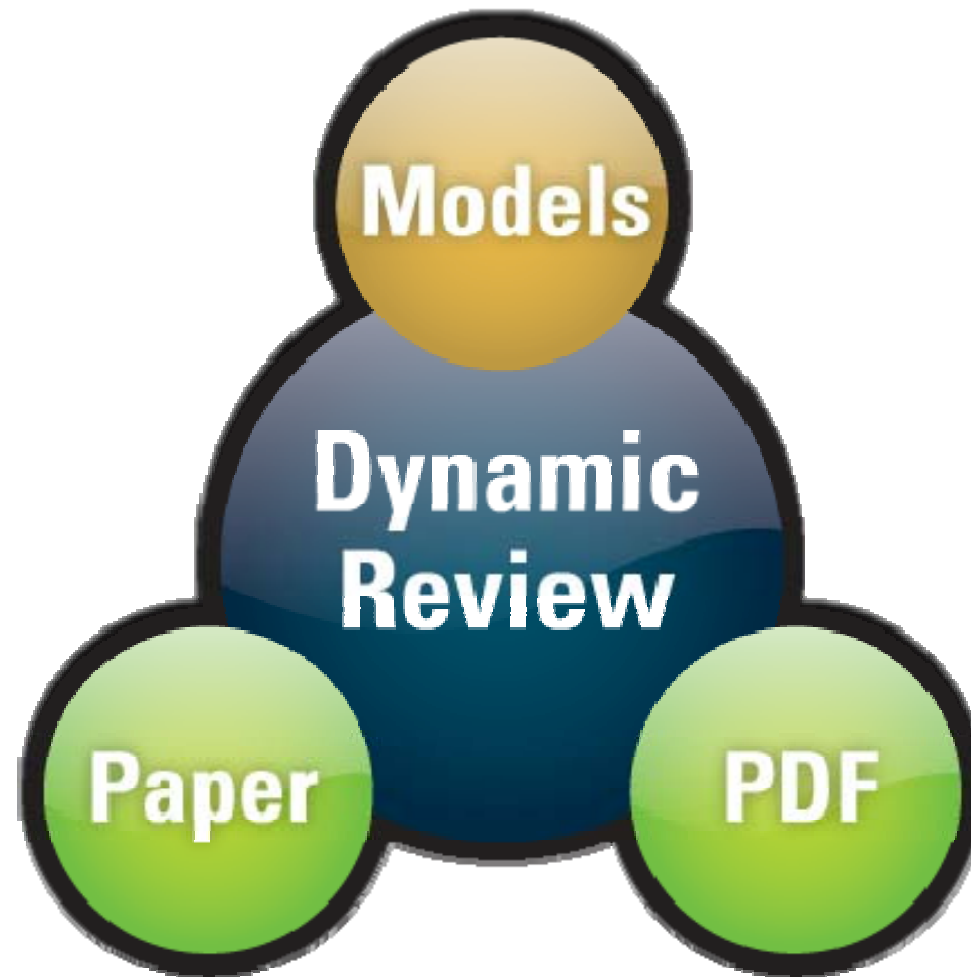- Simulate what-ifs & speed time to market
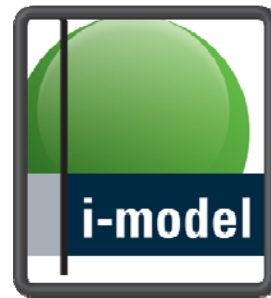
Bentley

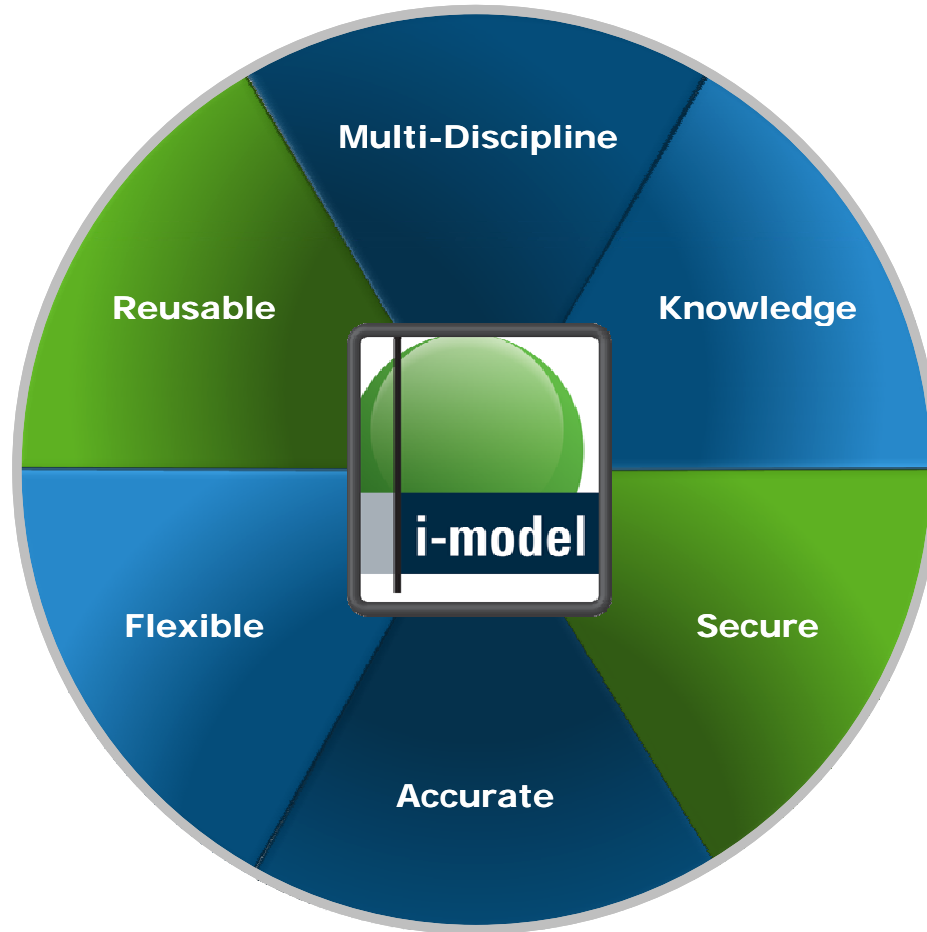# Dynamic Review Process

Dynamic Collaboration Workflows

Work in Progress	Manage & Publish	View, Analyze Augment
Bentley Suite		ProjectWise Dynamic Plot
PDS	i-model	ProjectWise Navigator
MicroStation		Adobe Acrobat
AutoCAD	PDF Adobe	
Revit		

ProjectWise

Bentley

Dynamic Review for Models

Bentley

What is an i-model?

What is an i-model?

What is an i-model?
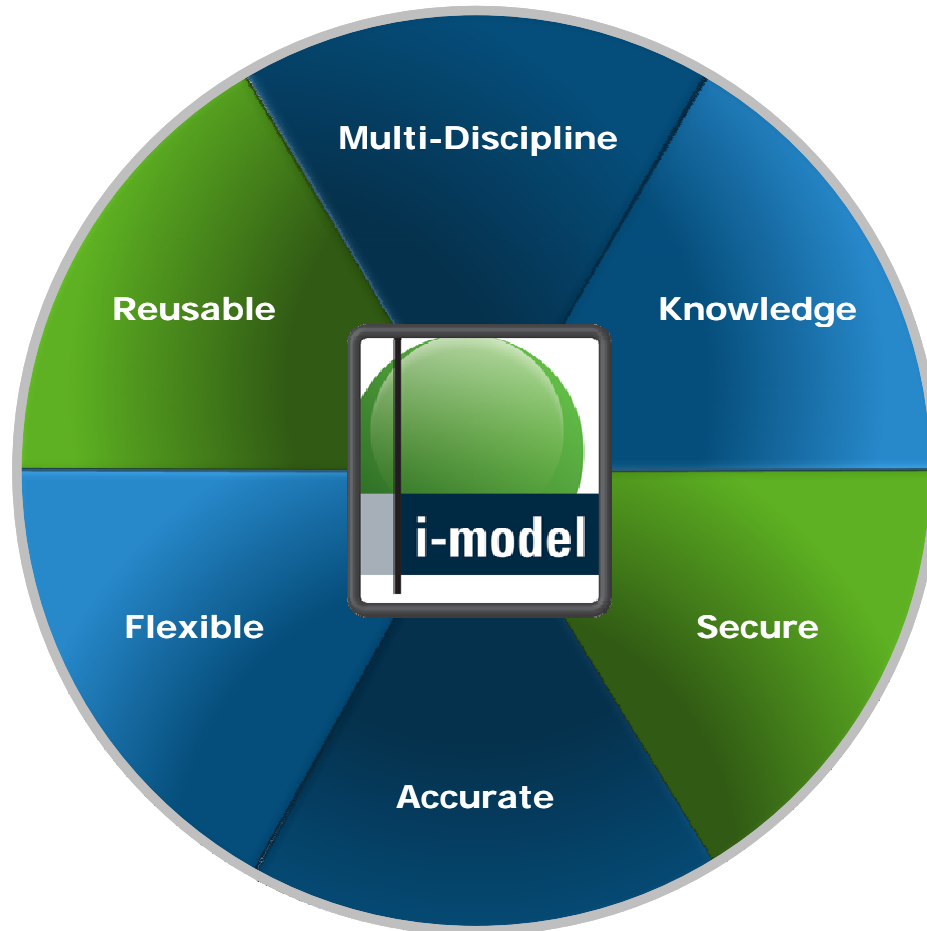
Information Rich + Reliable + Optimized for Purpose

What is an i-model?

Multi-Discipline

Information Rich

Application Logic

Multi-Discipline + Self-Describing

Bentley

Reliable

Application Logic

Multi-Discipline + Self-Describing + Secure

Bentley

Knowledgeable
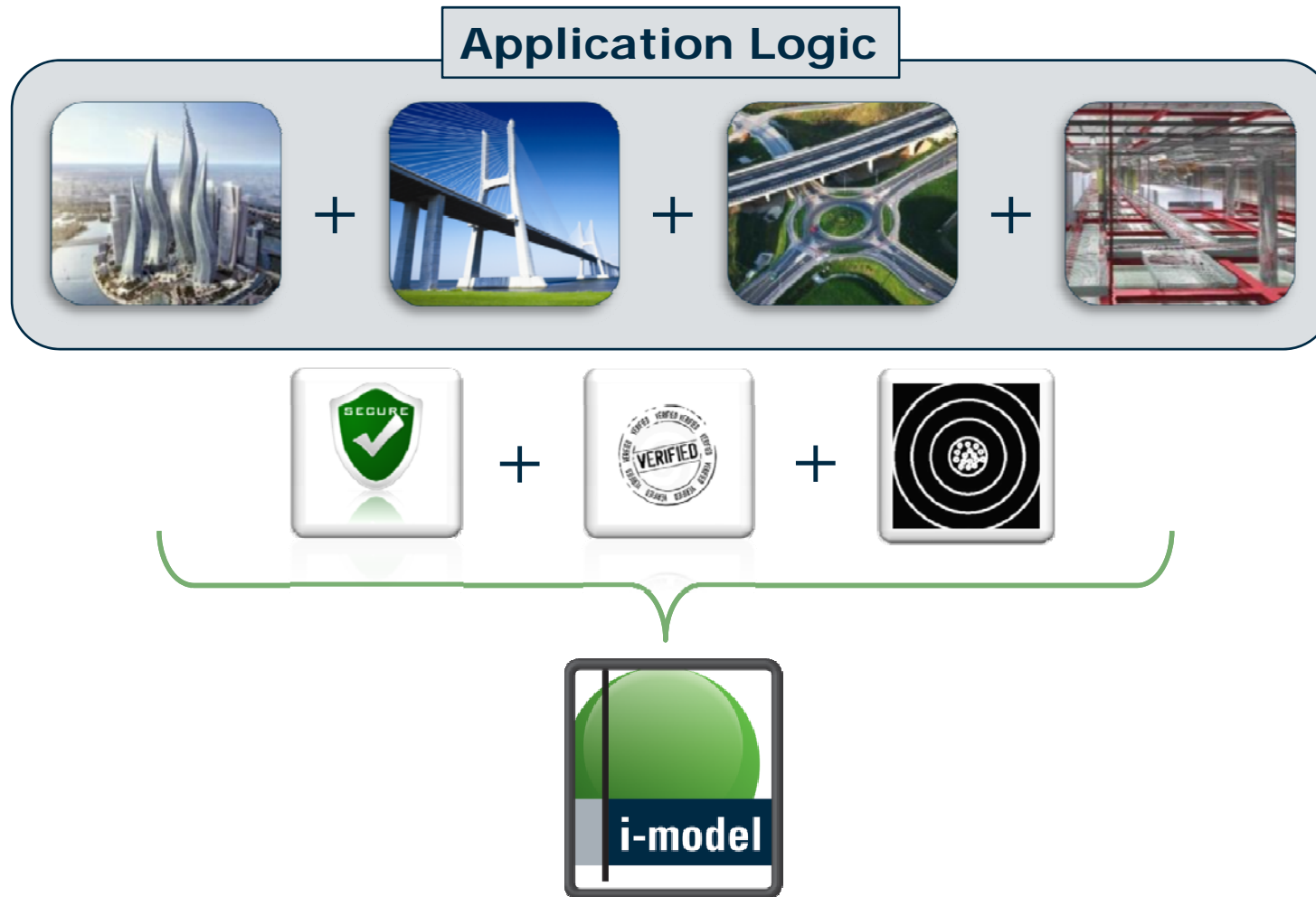
Multi-Discipline + Self-Describing + Secure + Provenance

ProjectWise Navigator

View + Analyze + Augment

Bentley
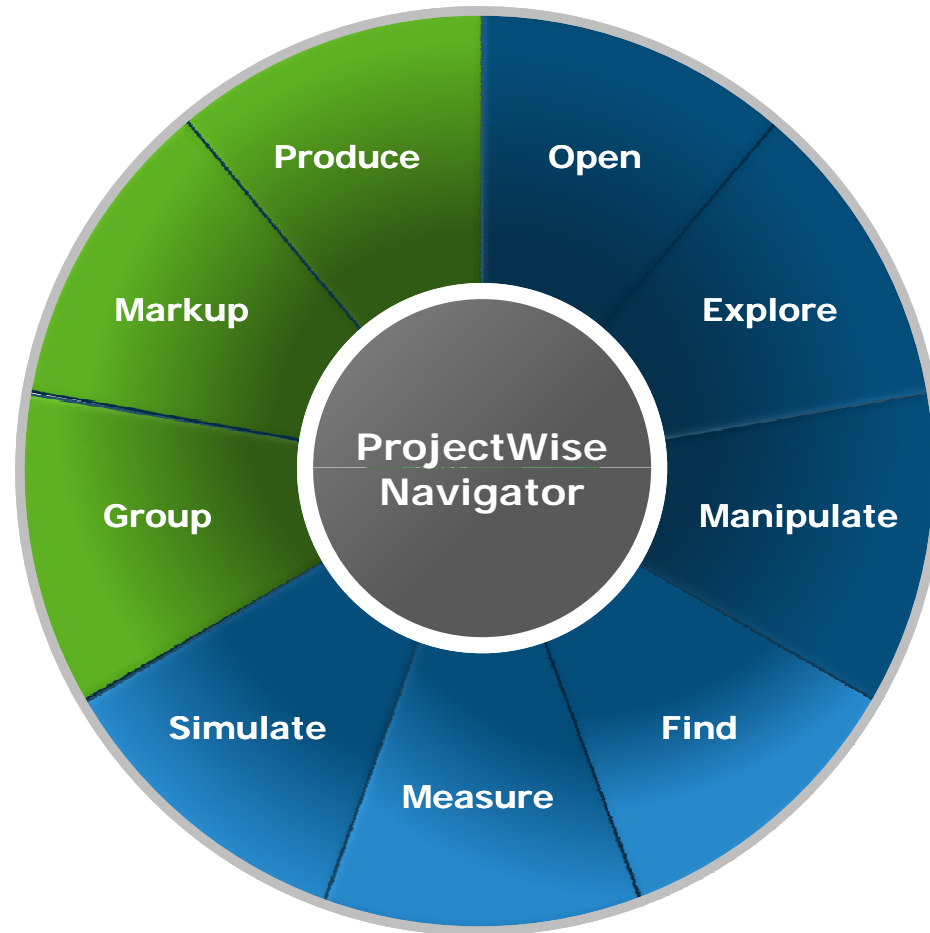
Interface

- Review specific tasks

- "Mainstream" approach to icons and menus

- Less clutter and distractions

- Easy to learn and adopt.

- Highly contextual
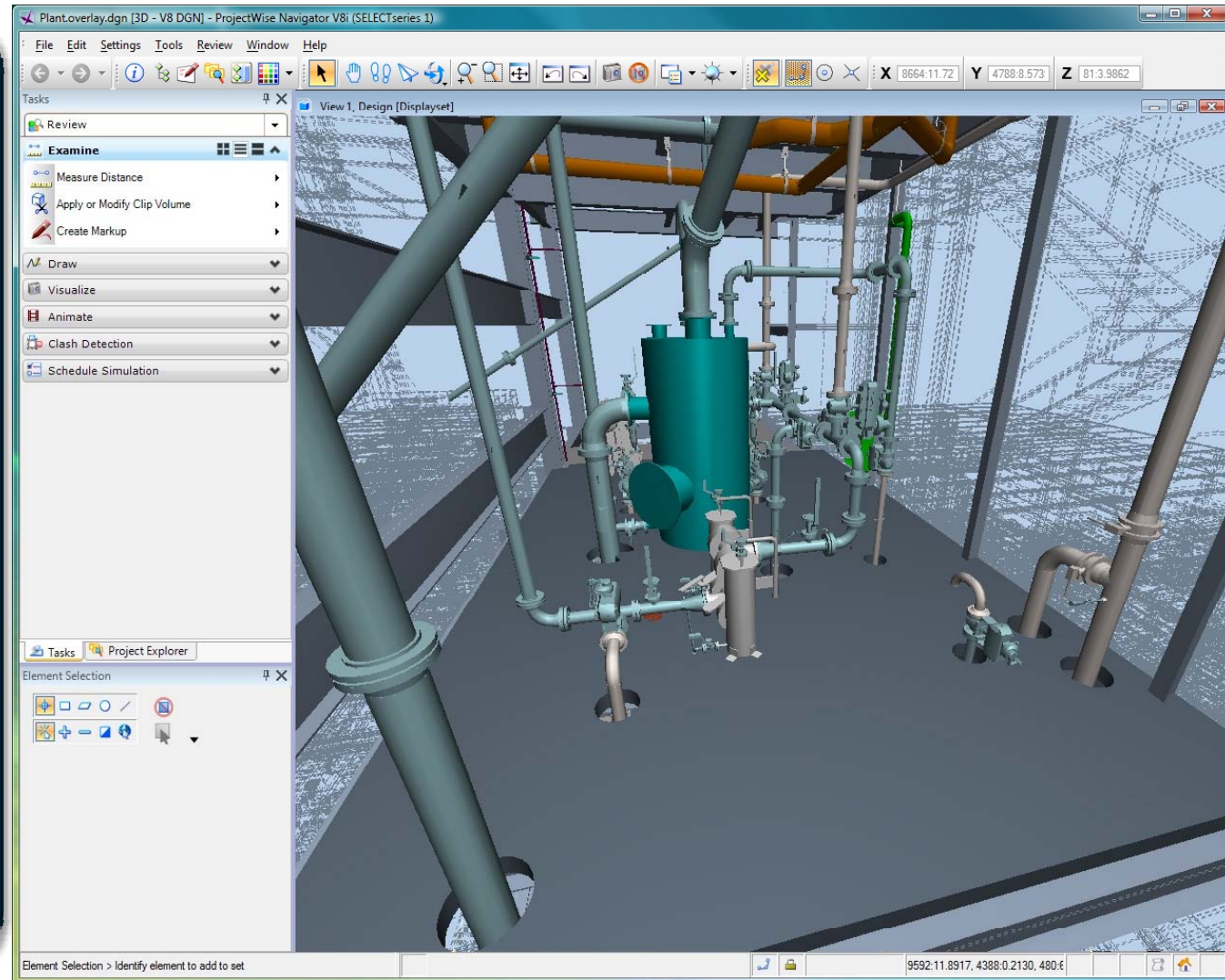
3D Navigation

- Logical choices

- Logical control

- Mouse or keyboard

- Flexibilty

Bentley
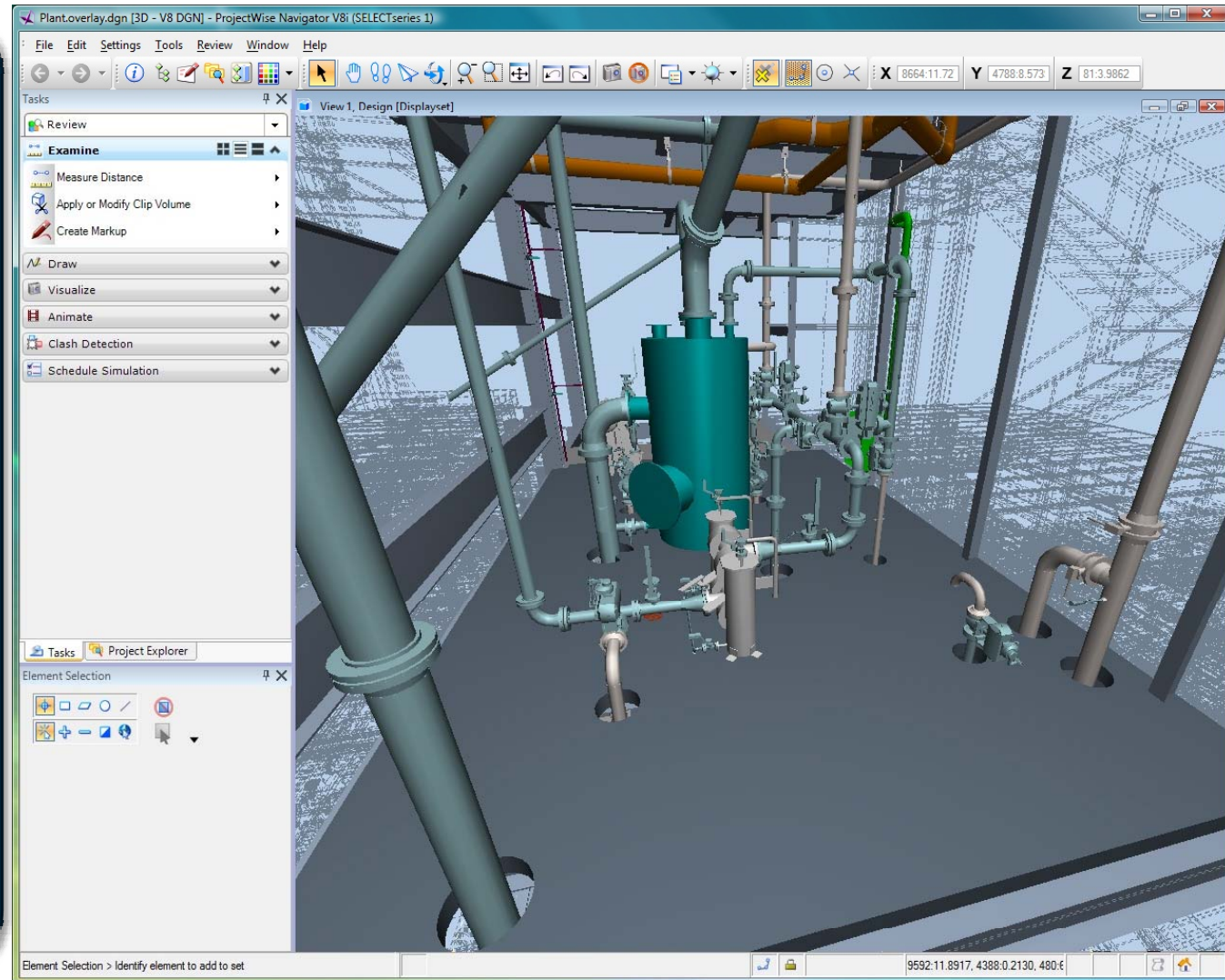
Dynamic Views / Sectioning

- Control section planes dynamically in view

- Change the display and shading of sectioned geometry

- Preserve sections views for recall

- Create markups on section views

Bentley
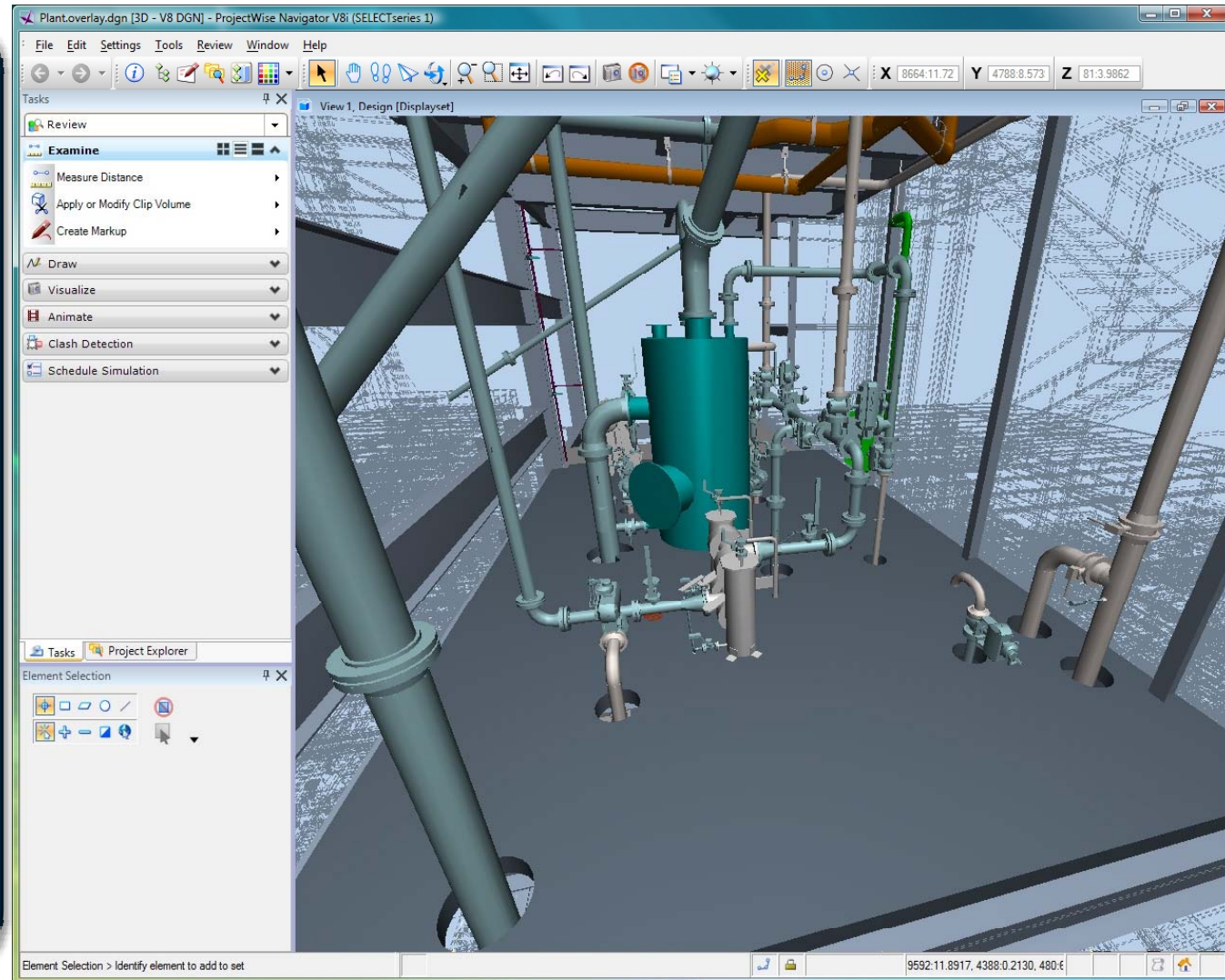
Markup

- Create markups of 2D and 3D files

- Track status and other information for each markup

- Store comment history for individual markups

- Create PDF hard copies
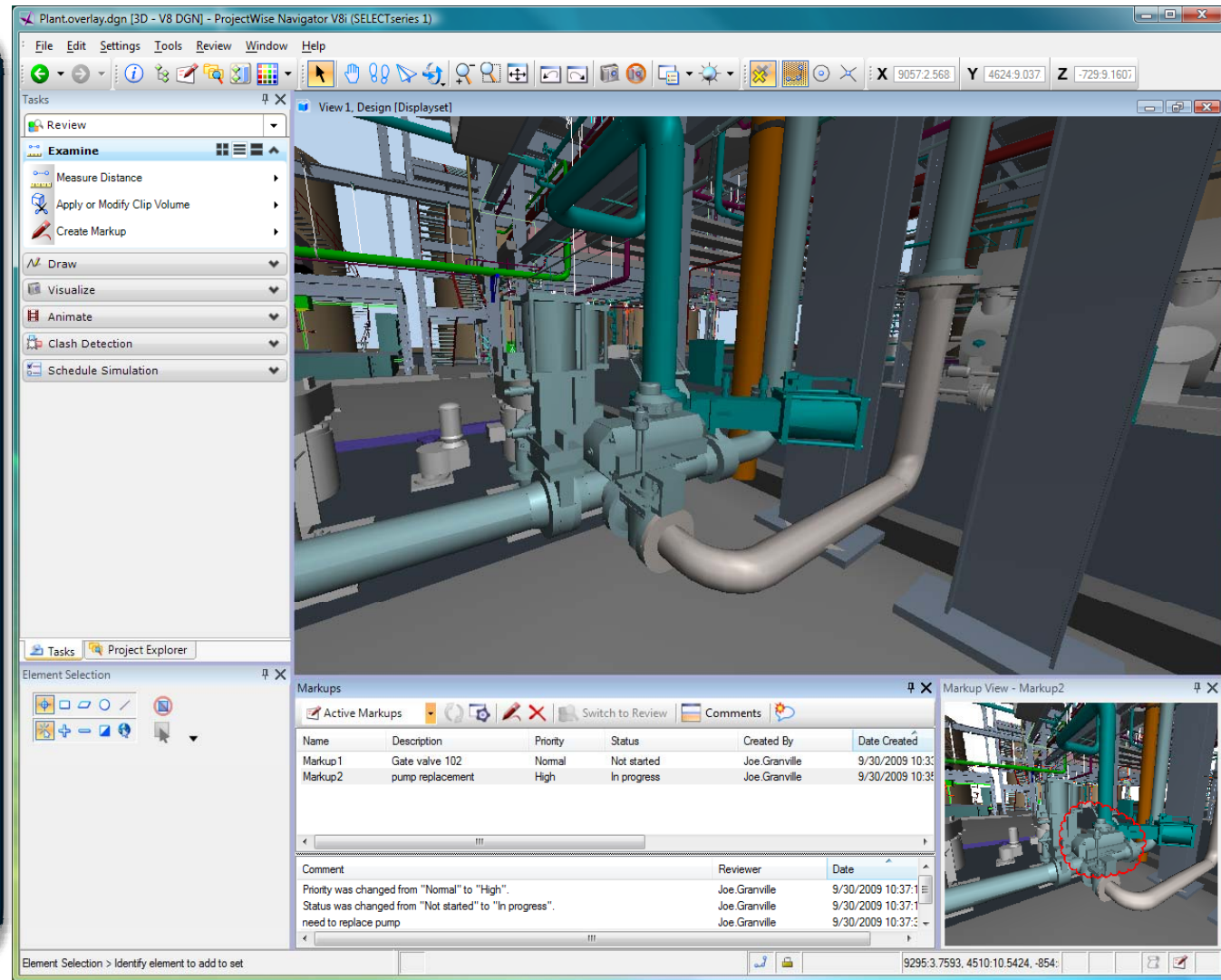
Bentley

Data Interrogation

- Browse all component information stored in the file

- Display relevant properties of individual components

- Query components

Item Sets

- Create persistent, reusable item queries

- Change color and transparencies of graphics for status visualization

- Update sets based on changes to engineering data

- Isolate and zoom to graphics
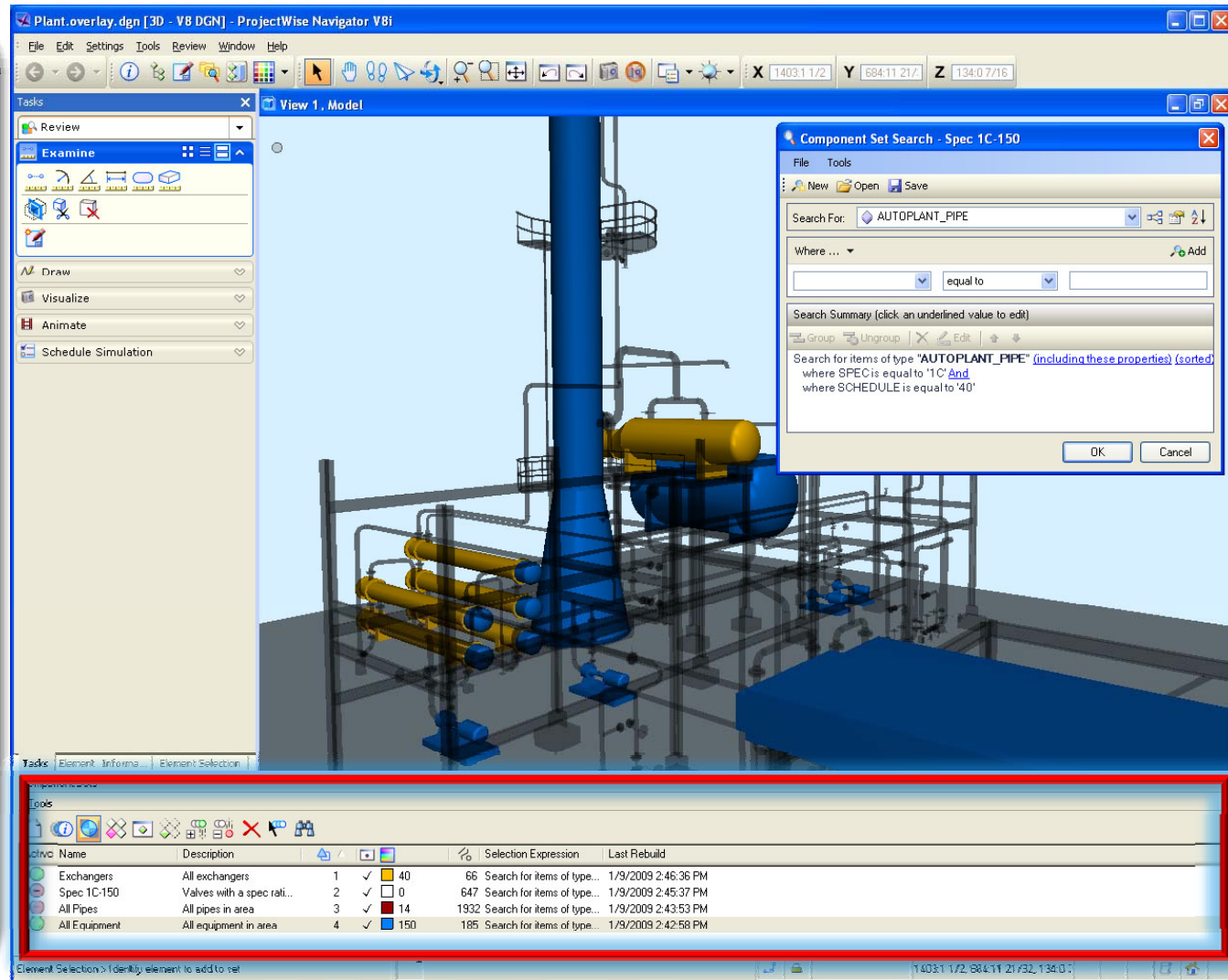
Rendering

- Photo Realistic rendering capabilities with new luxology rendering engine

- Apply materials and textures to geometry

- Add lighting for realistic shadows

- Render scenes created in MicroStation

- Save to a wide variety of image formats
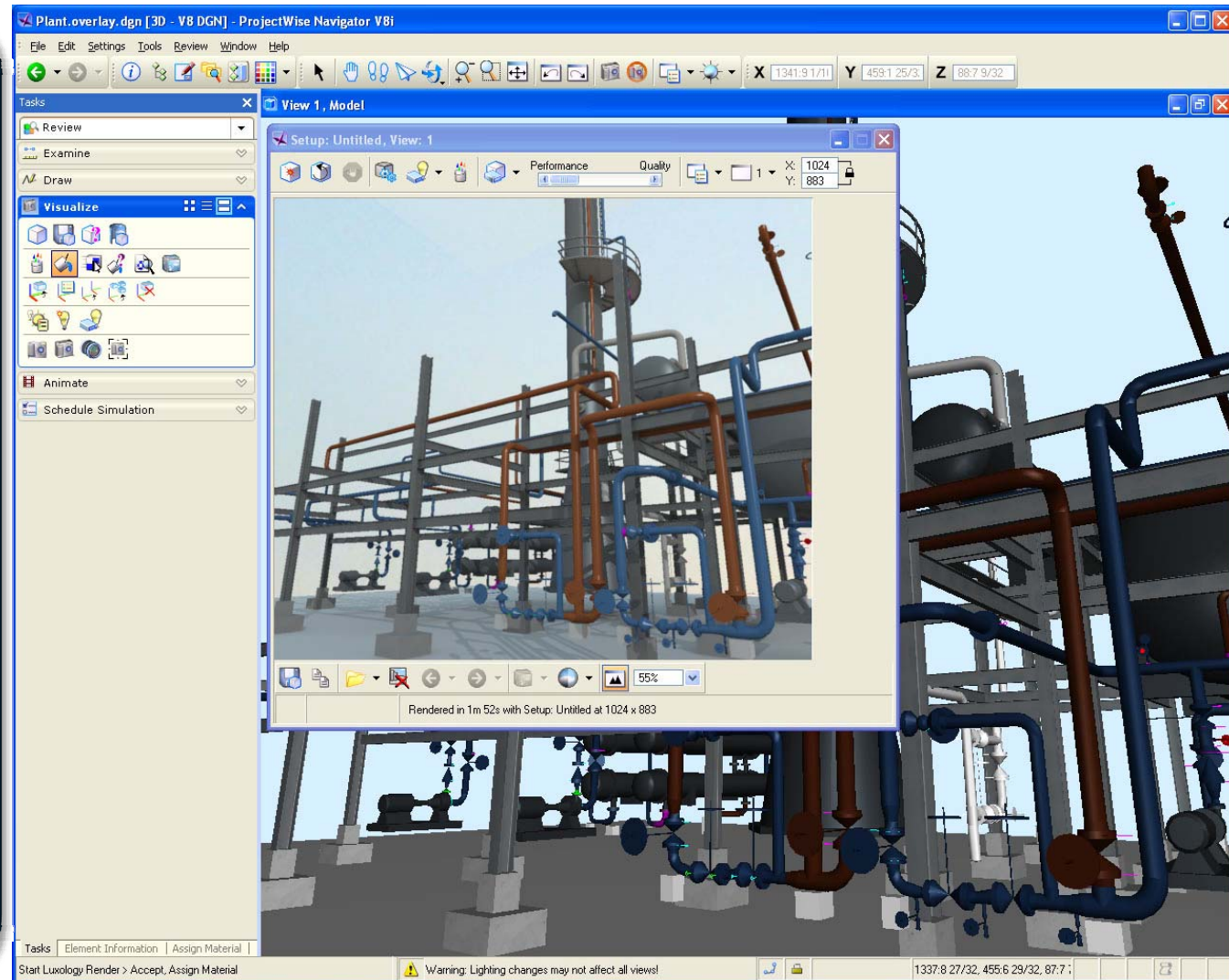
Bentley

Clash Detection

- Detect clashes across different application data

- Review results graphically

- Status tracking and commenting

- Generate Reports

- Rule suppression to reduce unwanted clashes

Schedule Simulation

- Import and export scheduling information from Microsoft Project and Primavera

- Create new schedules and tasks

- Dynamically modify tasks events

- Preview results graphically

- Generate animations

Bentley

Presentation

Bentley

ProjectWise Navigator Advantage

Customizable and Easy to Use

- Open multiple file types with single software solution
- Explore models naturally and intuitively in real-time
- Manipulate view settings to interactively change display
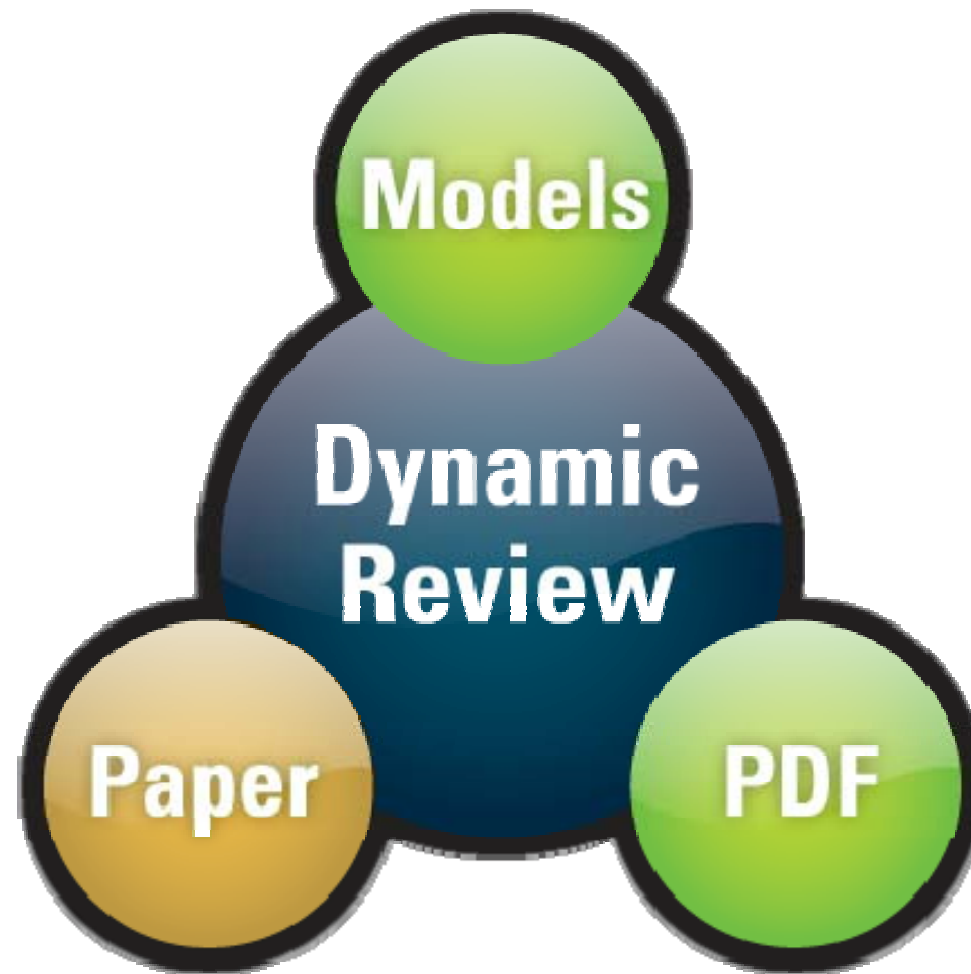
Efficient and Intelligent Analysis

- Find business intelligence behind geometry
- Measure with complete engineering precision
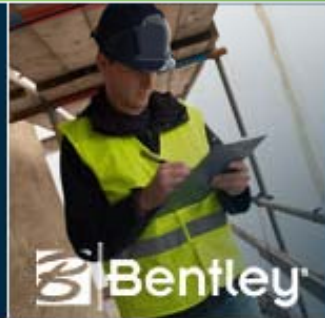- Simulate schedules and resolve clashes dynamically

Organized and Extensible

- Group and classify items to extend intelligence of content
- Markup the model, register and preserve comments
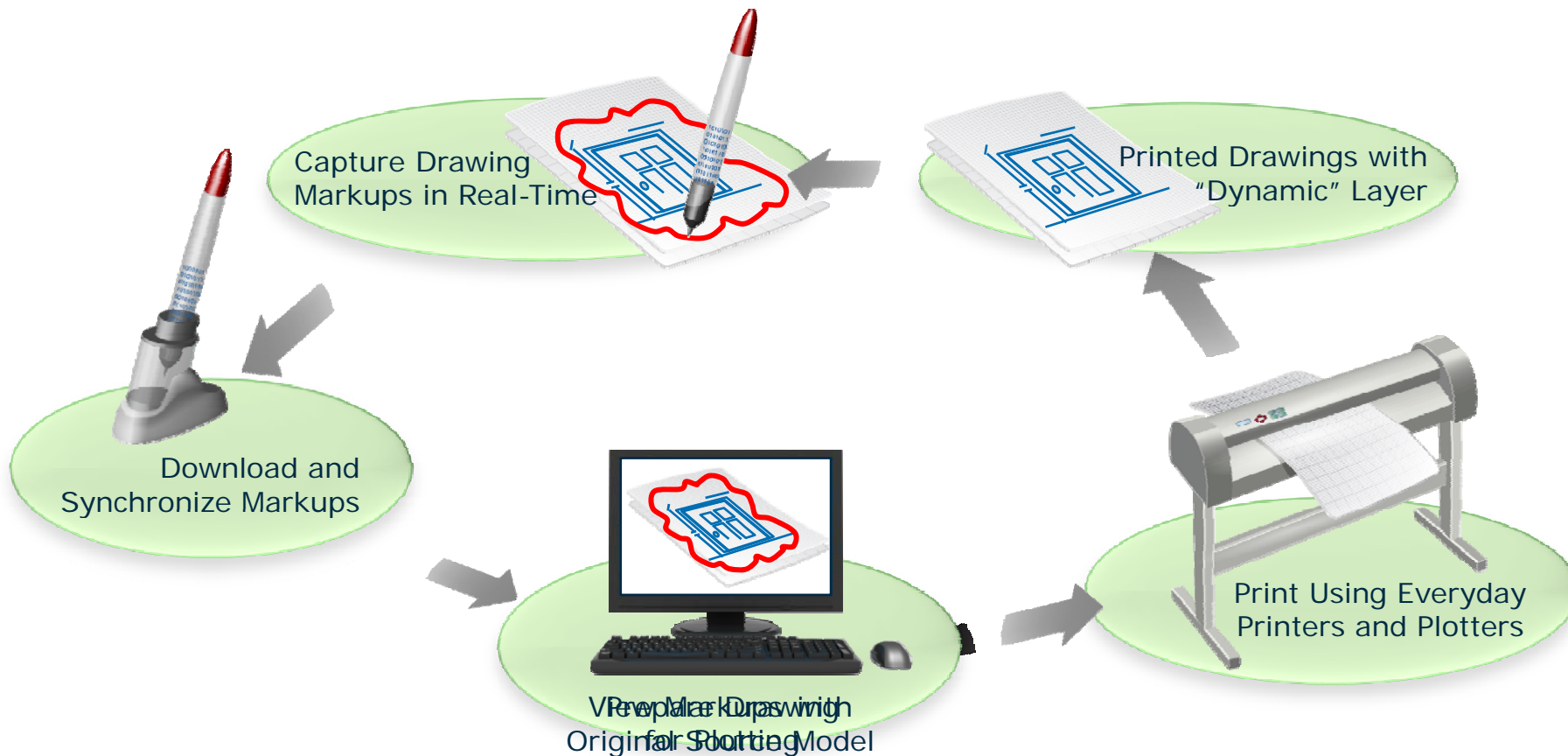- Produce images, animations, and intelligent 2D/3D PDFs

Bentley

Dynamic Review for Paper

ProjectWise Dynamic Plot
Bringing Paper into the Digital Age

Capture Drawing Markups in Real-Time

Printed Drawings with "Dynamic" Layer

Download and Synchronize Markups

Prepare Drawing with Original Source Model
View Markups with for Plotting Model

Print Using Everyday Printers and Plotters

© 2009 Bentley Systems, Incorporated

Bentley

Dynamic Review for PDF
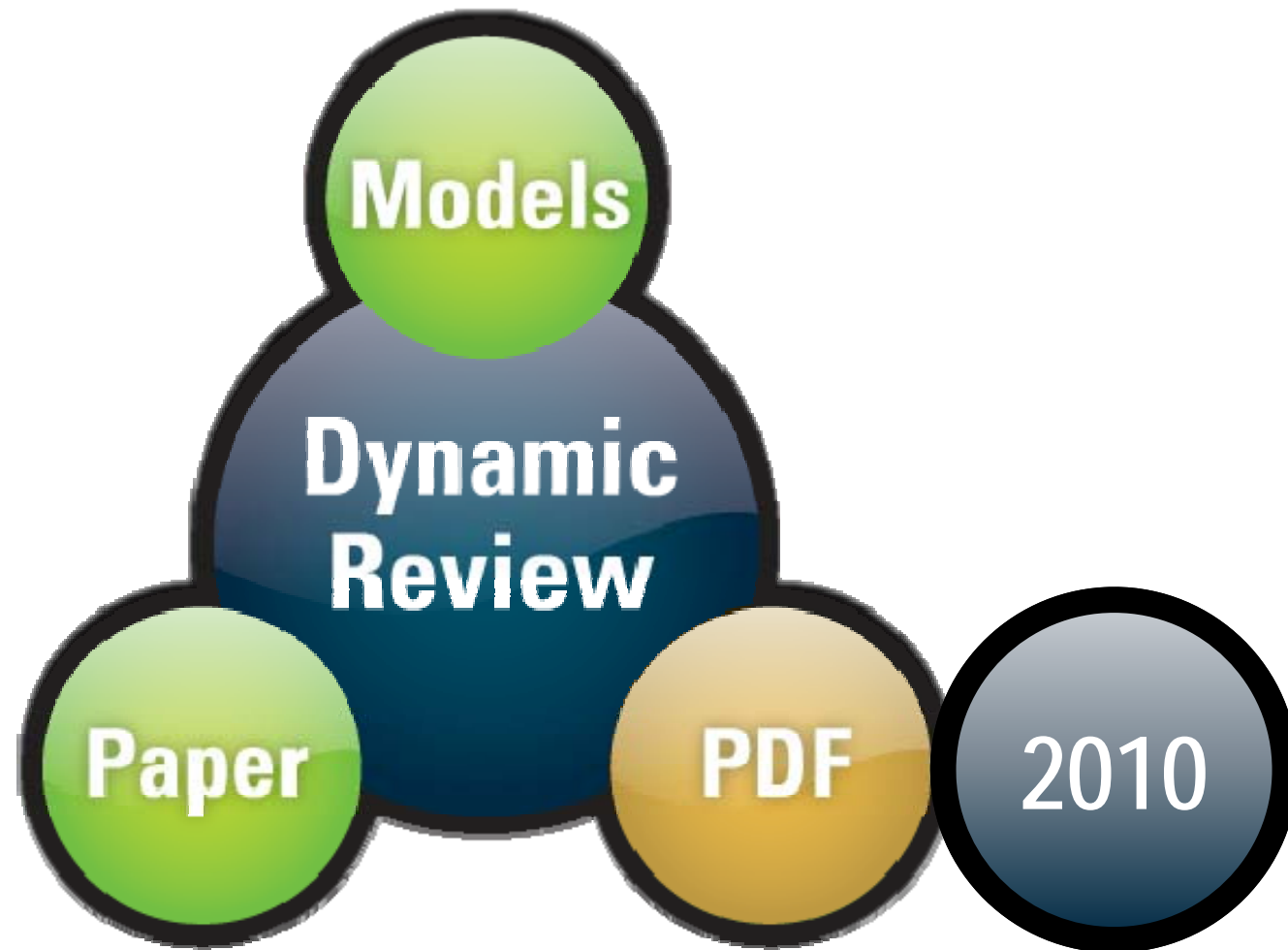
Dynamic Collaboration Advantage

Complete Reusable Information

- Information rich content from multiple sources
- Reliable status with complete engineering precision
- Optimized for purpose and schema independent for reuse
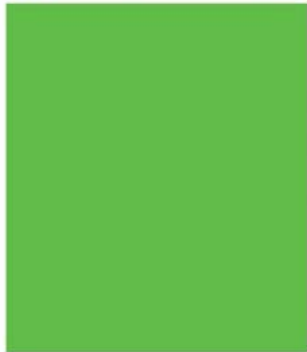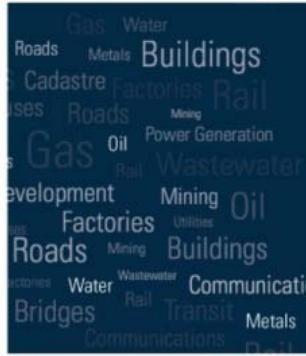
Integrated Software Offerings

- Customizable and simplified view & review software
- Intelligent and efficient way to analyze information
- Organized and Extensible way to markup files

Reliable Change Management

- Automated process for publishing project deliverables
- Managed "dynamic" review and commenting workflows
- Complete comment history record of who did what & when

Bentley

Thank-you