

EcoSys™



INTERGRAPH

- About EcoSys
- The Current State of Project Controls
- Enterprise Project Controls
- EcoSys EPC
- Questions

About EcoSys

Market Leadership



- EcoSys founders were the original developers of Primavera P6
- First to market and industry leader in enterprise project controls
- Deep portfolio & project management expertise

Business Momentum



- Largest user adoption in project controls industry
- Global presence – users in 20+ countries
- An Intergraph Company since 2015

Loyal & Growing Customer Base

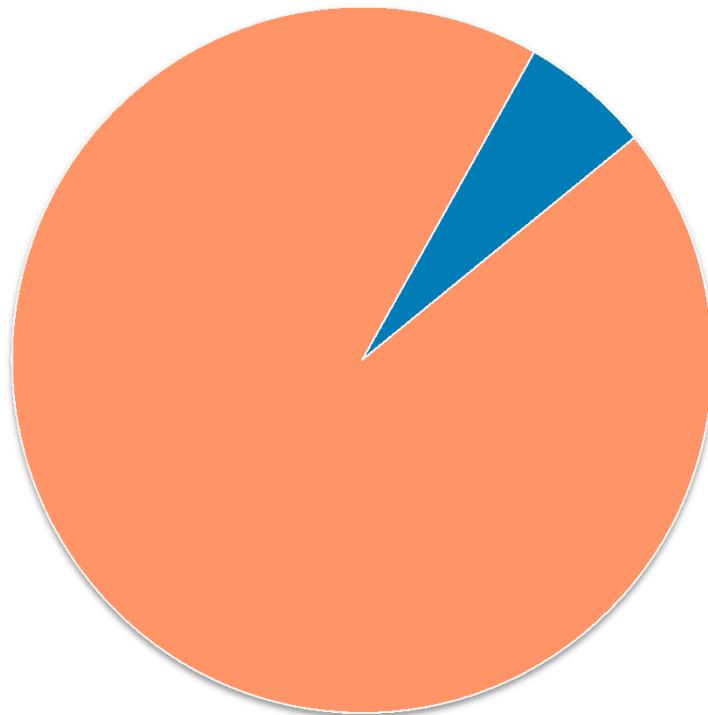


- 500+ clients globally
- Strong partnerships: SAP, Oracle, SAP, Microsoft, Accenture, IBM, and more



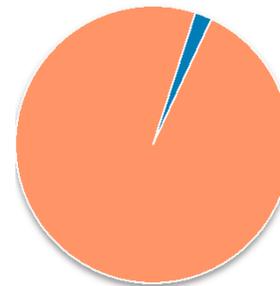
The Current State of Project Controls

Projects out of Control



< 6%

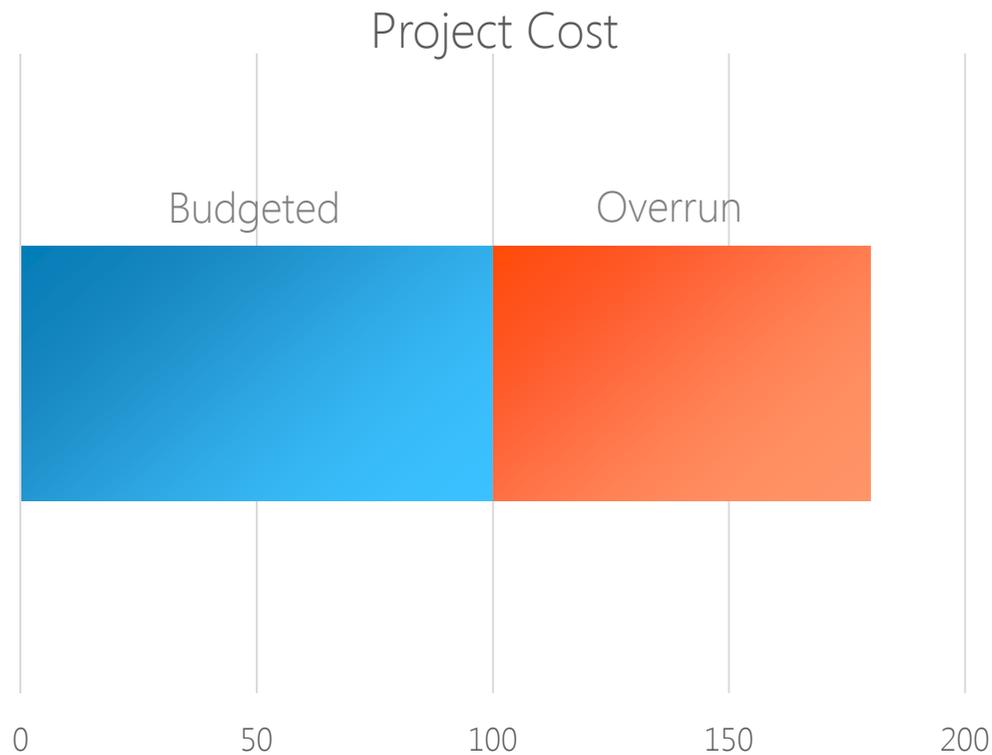
of projects deliver planned financial returns



98%

of megaprojects see cost overruns greater than 30 percent

Projects out of Control



Average megaproject cost overrun:

80%

Average megaproject schedule
slippage:

20 months

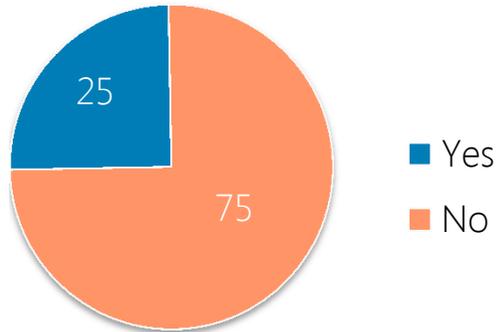
“ Firms tend to use multiple software platforms that are manually monitored and disconnected, which severely compromises their effectiveness. ”

Geno Armstrong

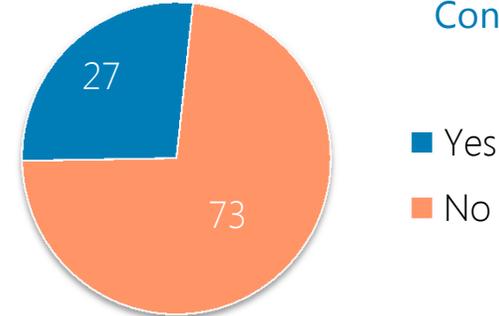
International Sector Leader,
Engineering and Construction
KPMG

Access to Real-time Project Data?

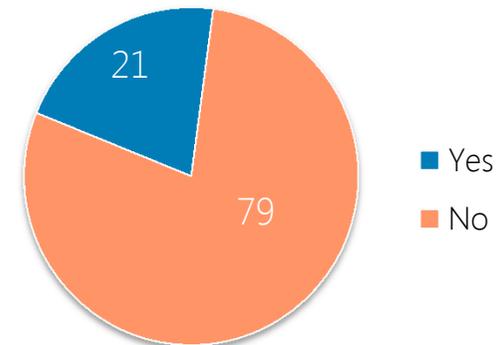
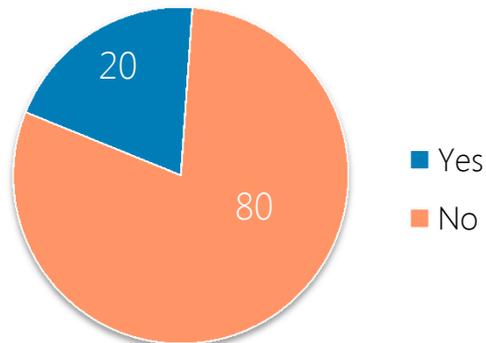
Owners



Contractors



Fully Integrated Project Controls System?



Disconnected Systems & Manual Processes



Departmental
Budgets



Project
Budgets



Project
Forecasts



Design &
Engineering

Tedious Labor

Mistakes

Version Control



AFEs
/Funding



Procurement

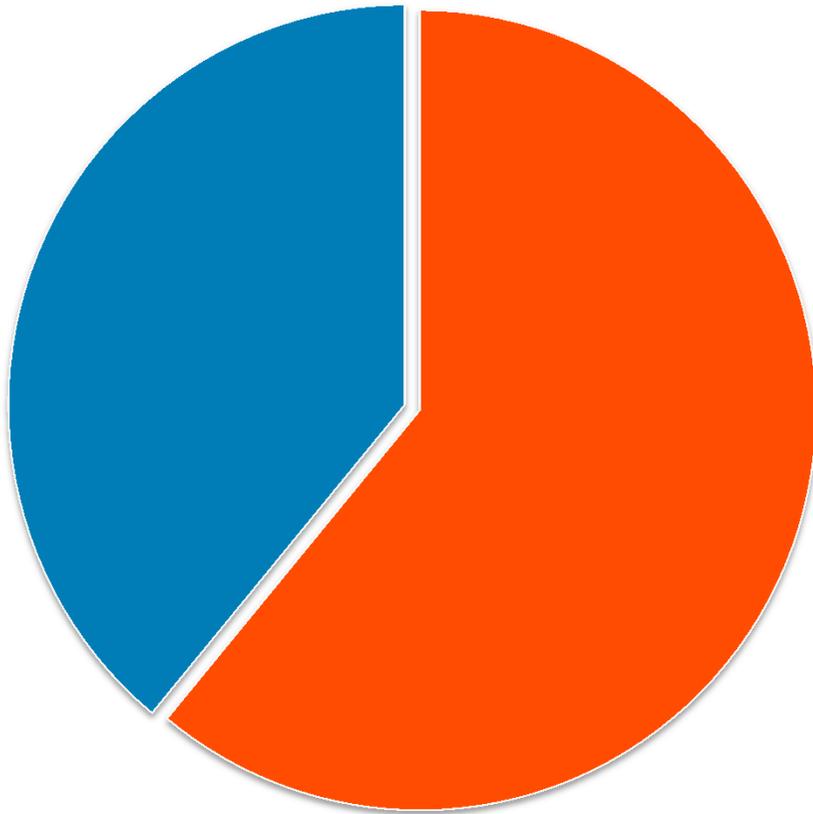


Construction



Finance





Relying on Manual Processes:

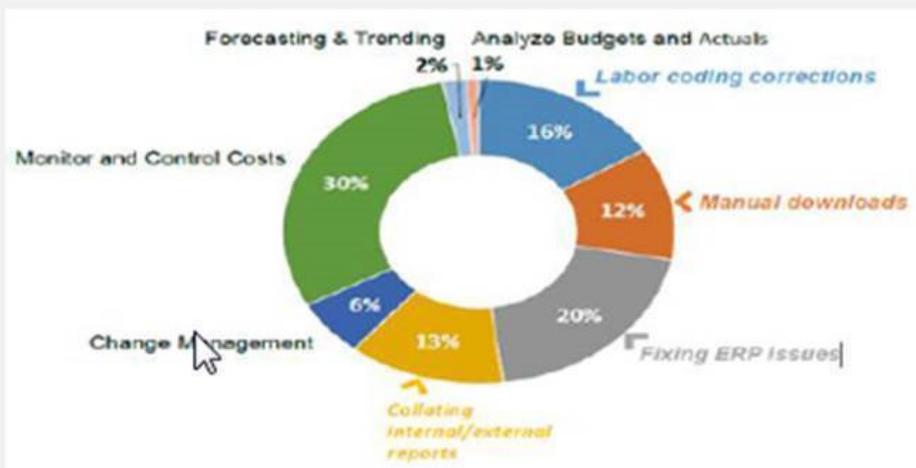
61% Of time utilization

- Fixing ERP issues and Labor coding
- Downloading files and collating

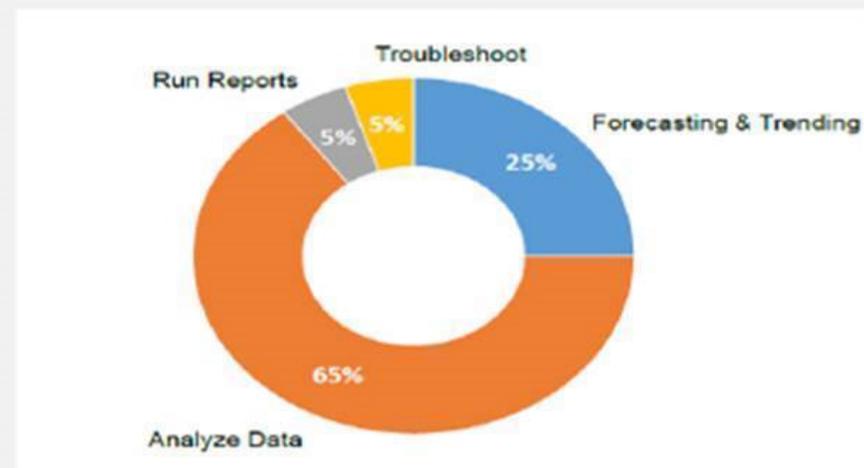
Internal study done by EcoSys client prior to implementation

EcoSys project objectives

Before EcoSys EPC



After EcoSys EPC



EcoSys Cost Improvements

- 13% Collating internal / external reports
- 12% Manual Downloads
- 15% Monitor and Control Costs (half of the 30%)
- 4% Labour Coding Corrections (quarter of the 16%)
- 15% Fixing ERP Issues (three quarters of the 20%)

- ✓ Man-hour effort reduced by 59%
- ✓ Existing resources can manage increase in workload

Disconnected Systems = Disconnected People

Visibility Challenges

Sche

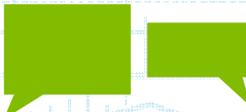


What do we expect our final costs to be?

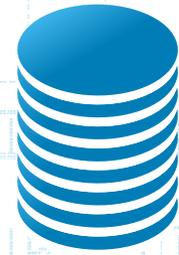
Who approved this change and why?

Which projects are underperforming and why?

Communications, Changes



Cost Data



Disconnected People & Systems

Can't identify issues



Can't make adjustments



Can't anticipate needs



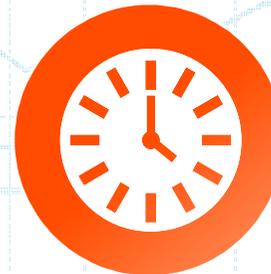
Can't plan effectively



Projects Cost More

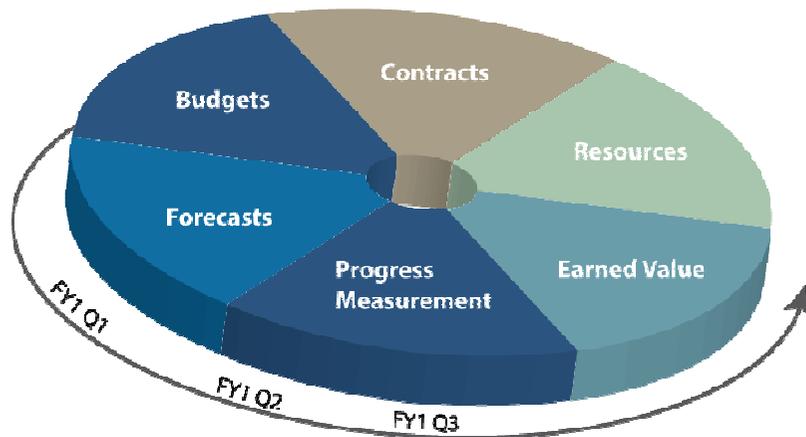


Projects Take Longer

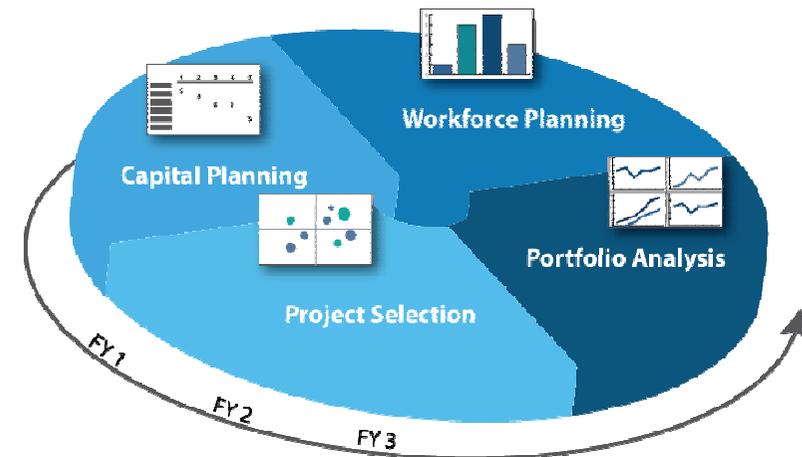


Enterprise Project Controls

What is Enterprise Project Controls?

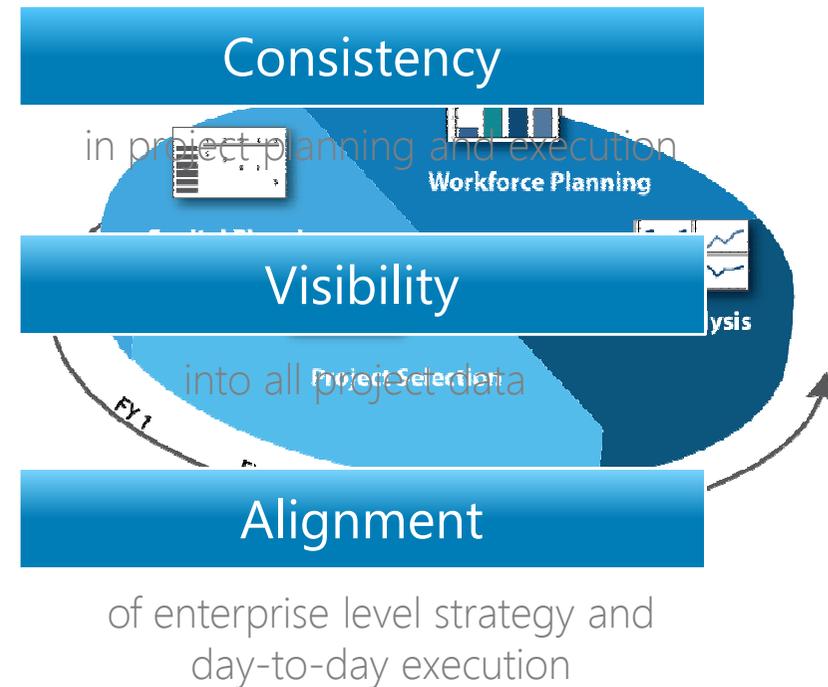
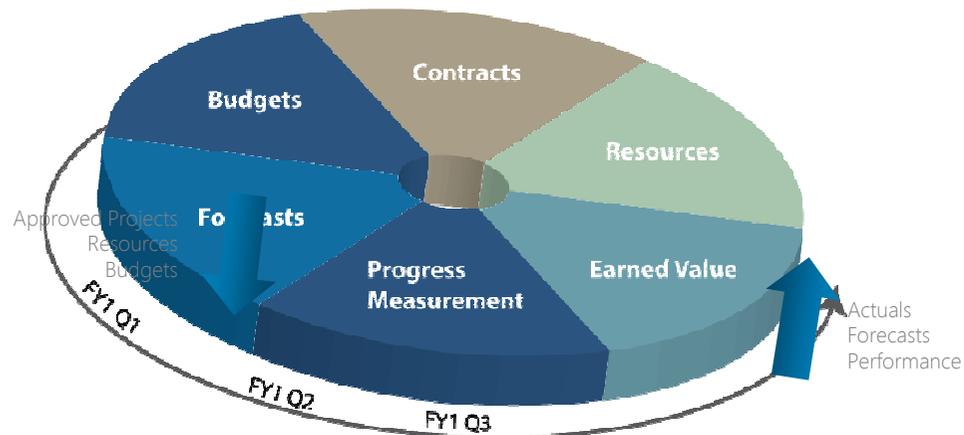


Comprehensive tools and processes for effective tactical project execution



Controls for strategic planning and portfolio optimization

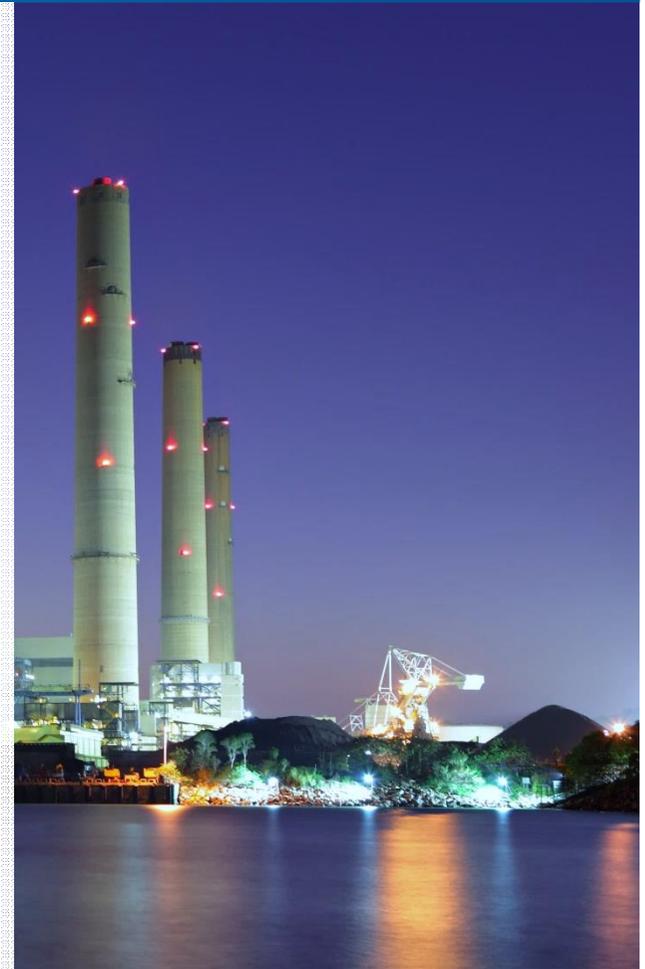
What is Enterprise Project Controls?

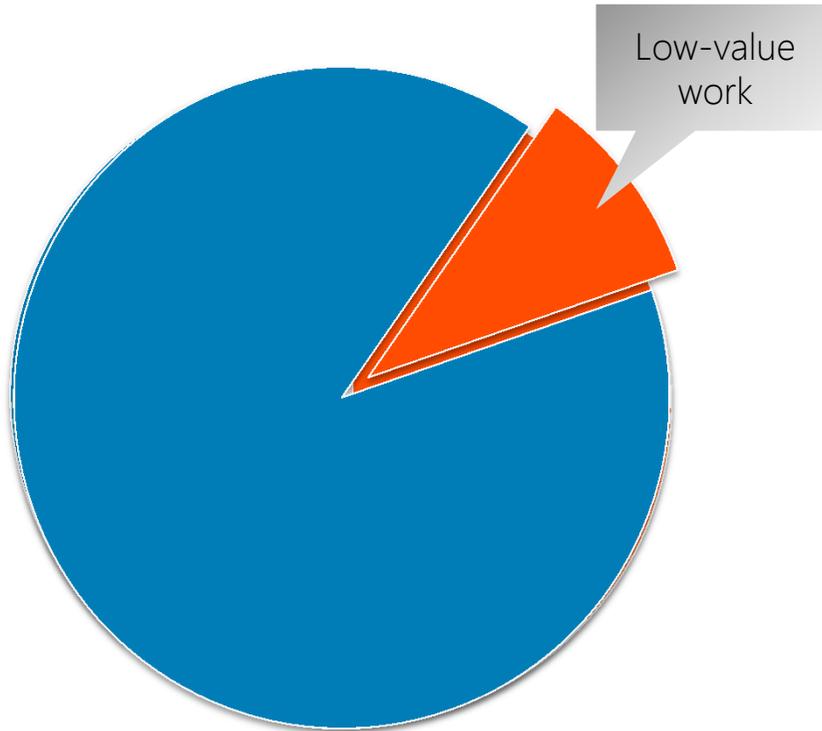


The Impact of Enterprise Project Controls

Increased Efficiency

Improved Cost Performance



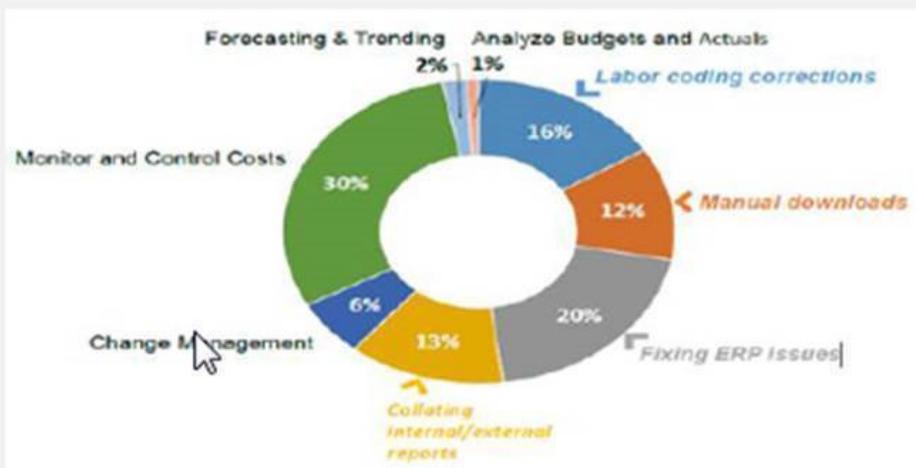


A Single Source of Integrated Data
Automated Reporting and Alerts
Right-sized Processes
Templates

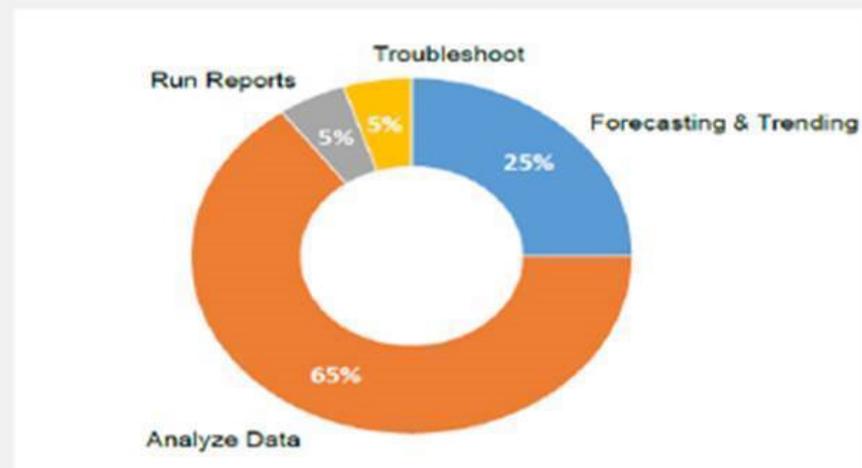
70% – 80%
increase in productivity

EcoSys project objectives

Before EcoSys EPC



After EcoSys EPC



EcoSys Cost Improvements

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- ✓ Man-hour effort reduced by 59%
- ✓ Existing resources can manage increase in workload

Improved Cost Performance



Portfolio Optimization

Contract Management

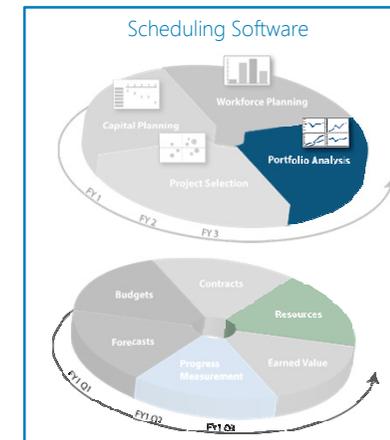
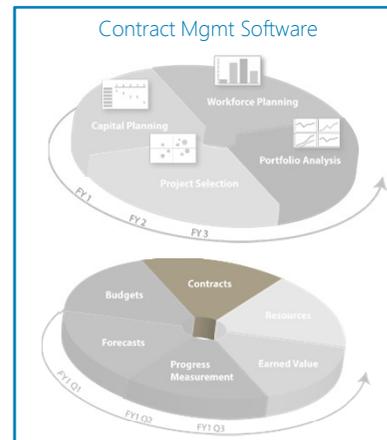
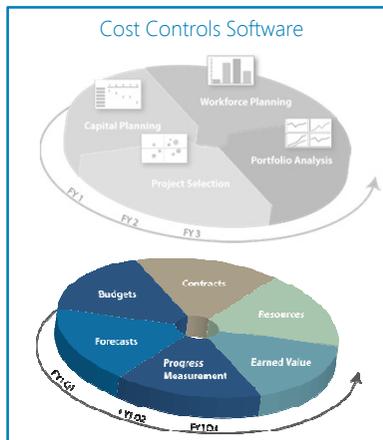
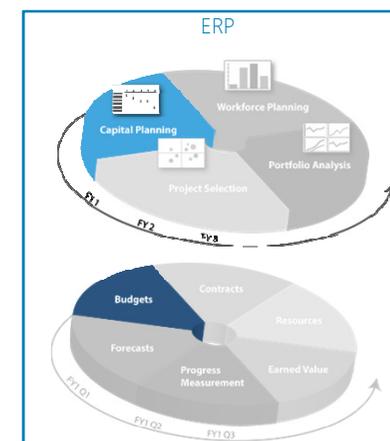
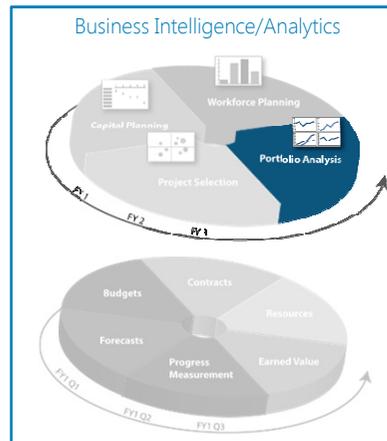
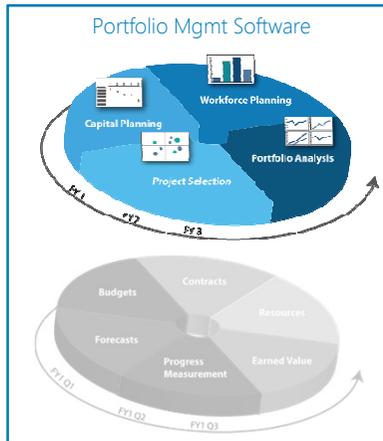
Change Management

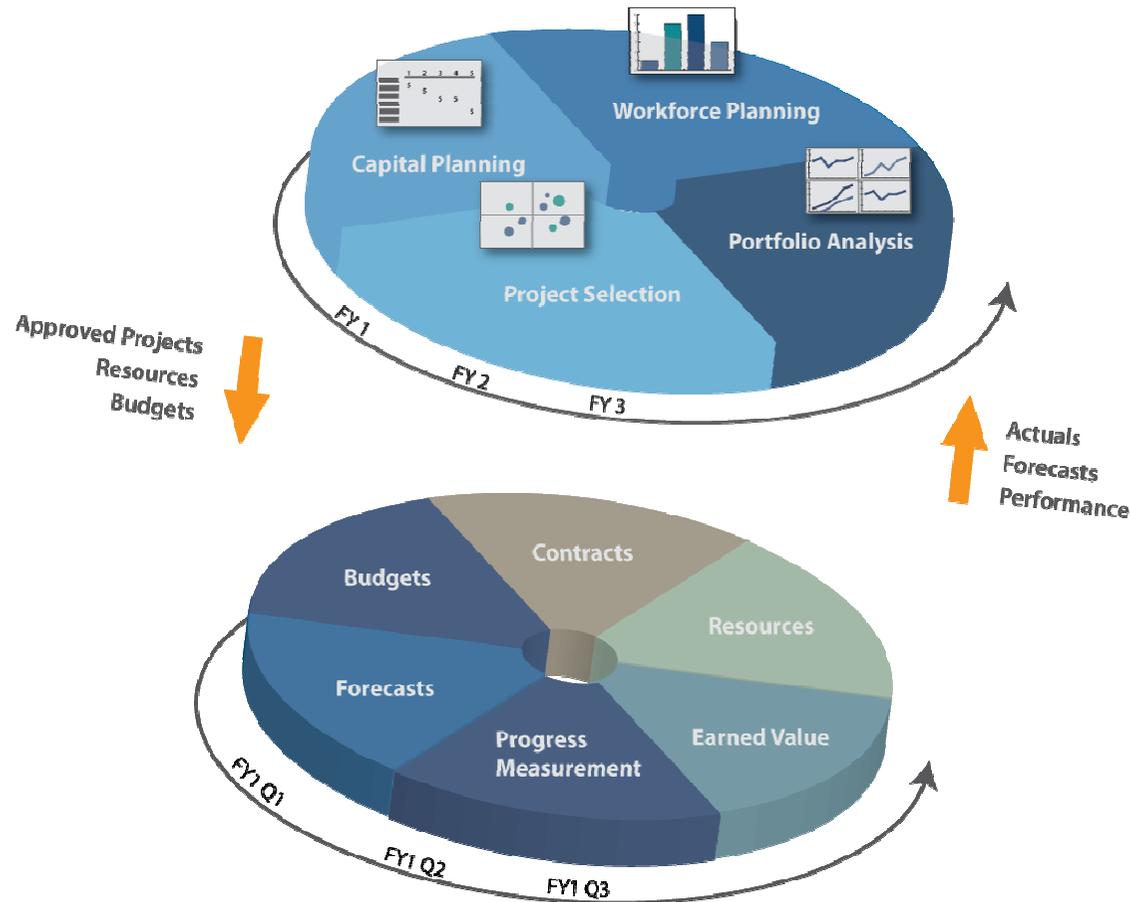
With high use of change management, average cost growth is 10.2 %
With high use of change management, average cost growth is 7.4 %
With high use of change management, average cost growth is 1.2 %

- Construction Industry Association of Cost Practices
State Financial Budget Report 2012

Achieving Enterprise Project Controls

Traditional Commercial Solutions



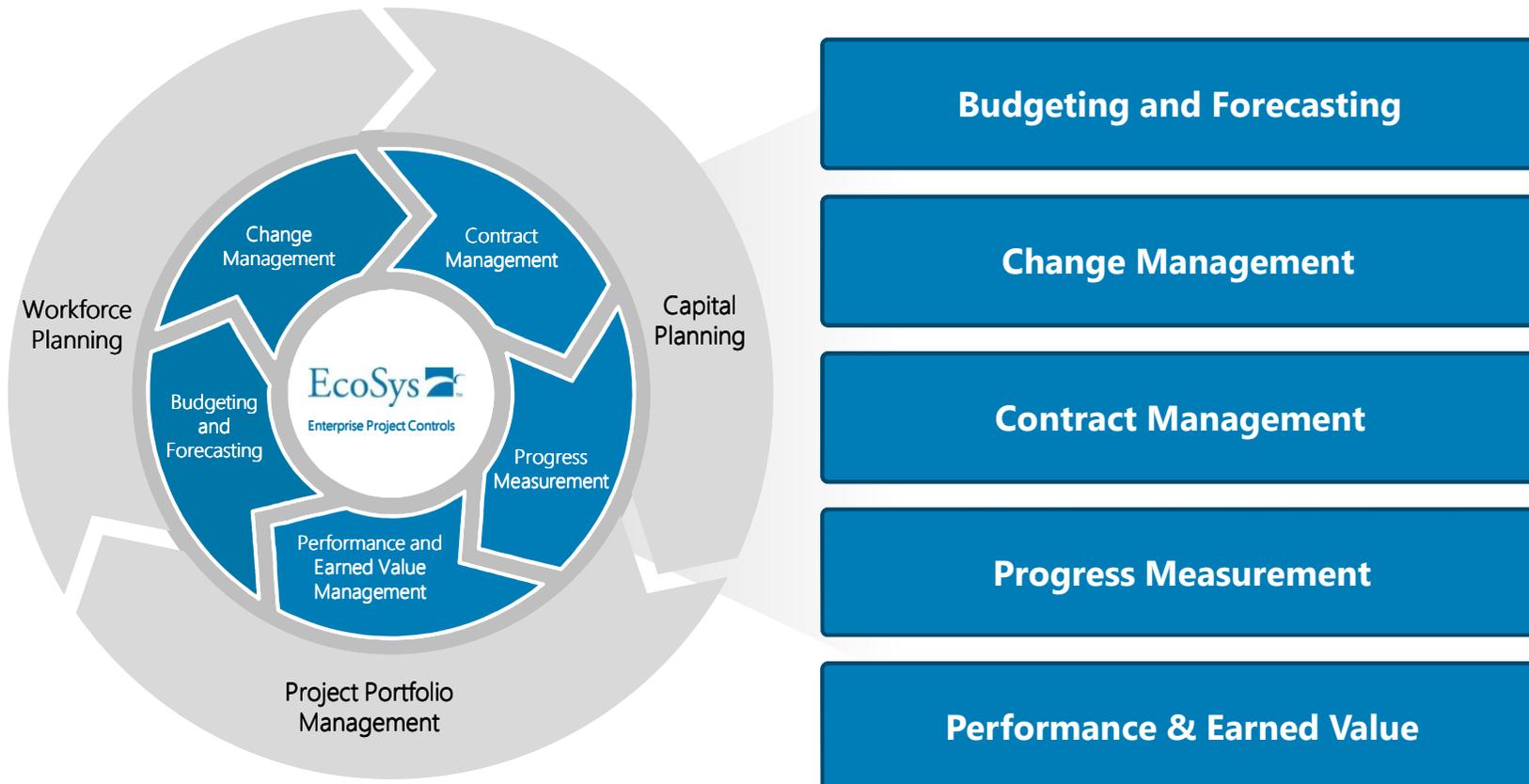


Tactical Project Controls

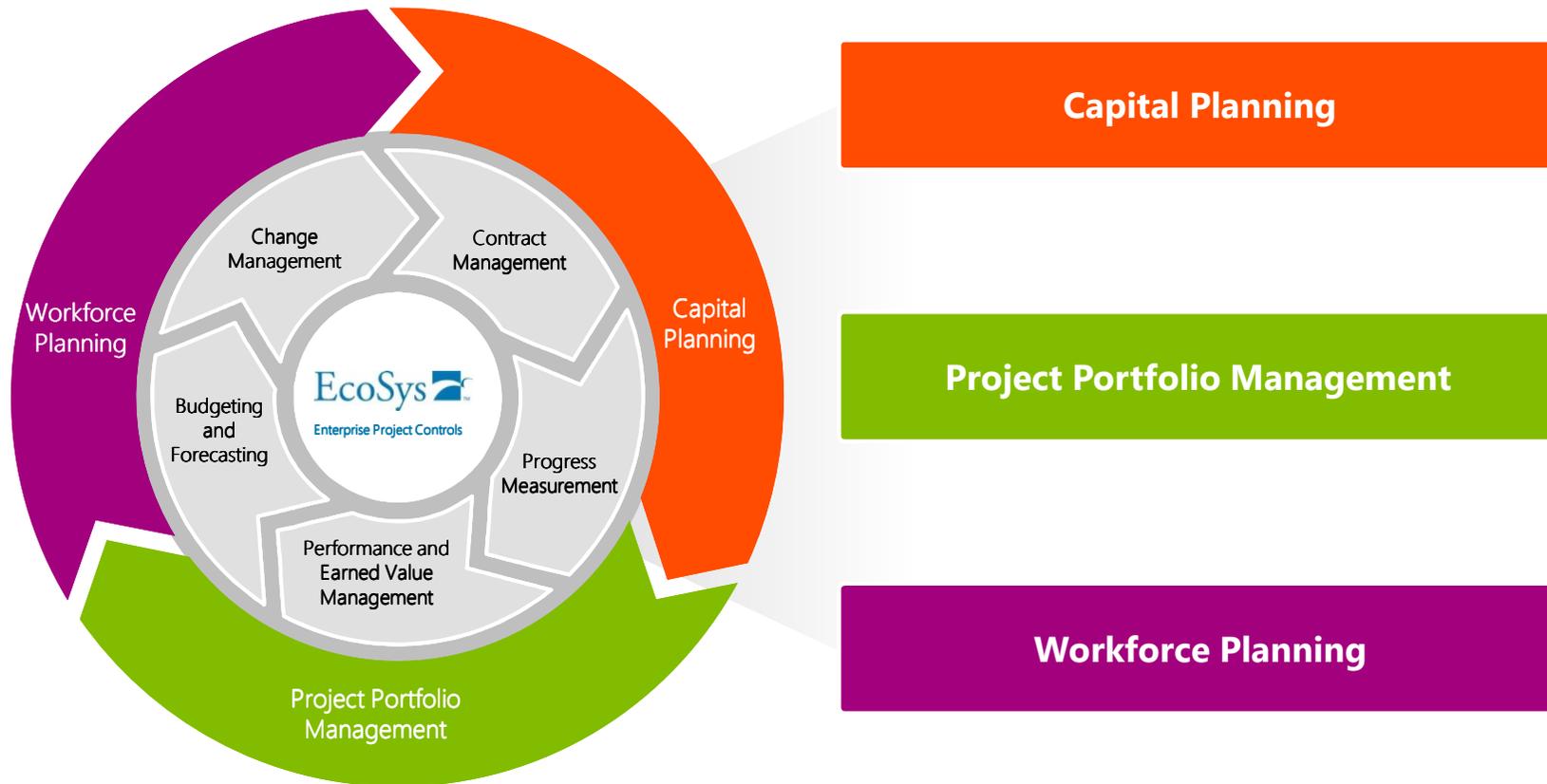
Strategic Enterprise-wide Planning

State-of-the-art Analytics

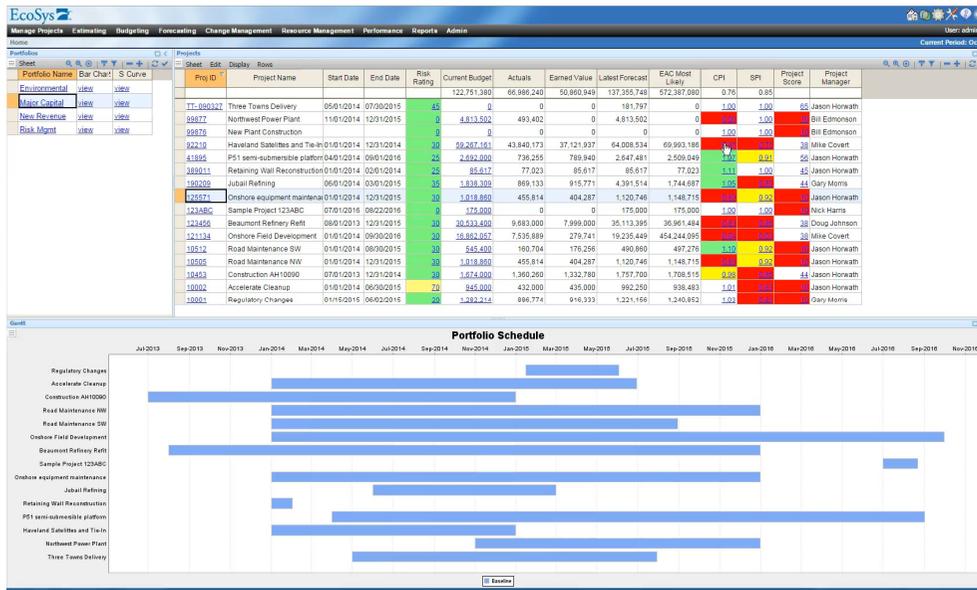
Tactical Project Controls



Strategic Enterprise-wide Planning



State of the Art Analytics



Off-the Shelf, Configurable

Graphical Charts & Dashboards

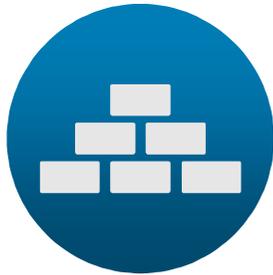
Dynamic Business Intelligence

Drill-Down to Any Level of Detail

Output to Multiple Formats (PDF, Excel, Word, XML)

Automated and User-Initiated Reporting

How is EcoSys EPC Different?



True Enterprise
Capabilities



Powerful
Business
Intelligence



Extraordinary
Flexibility



Comprehensive
Functionality

Best of Both Worlds

EcoSys 

EcoSys 
EPC

Excel-like Usability



Power of an Enterprise System



Easy to Learn/Use

Very Flexible

Powerful Analytics

Standardization

Enterprise Scalability

Role-based Security

EcoSys - Applies to all industries.



Engineering & Construction



Oil, Gas & Chemicals



Utilities



Aerospace & Defense



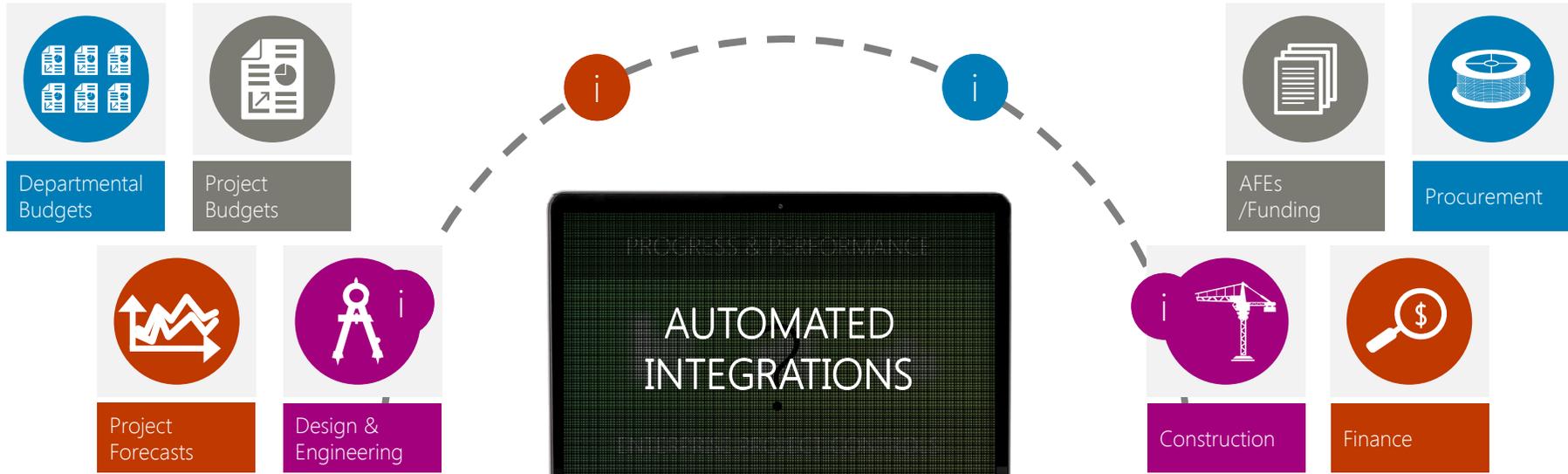
Transportation



Mining



Fully Integrated Project Data



REAL-TIME VISUALIZATION

Business-Friendly Design



Role-based dashboards, information, and permissions for simplicity and security

State-of-the-art, built-in analytics operating from any data/dimension; configurable by end-users

Easy-to-use Excel-like environment

Drill down and roll up to any level

Accessible from anywhere

Business Friendly Design



Construction
Manager

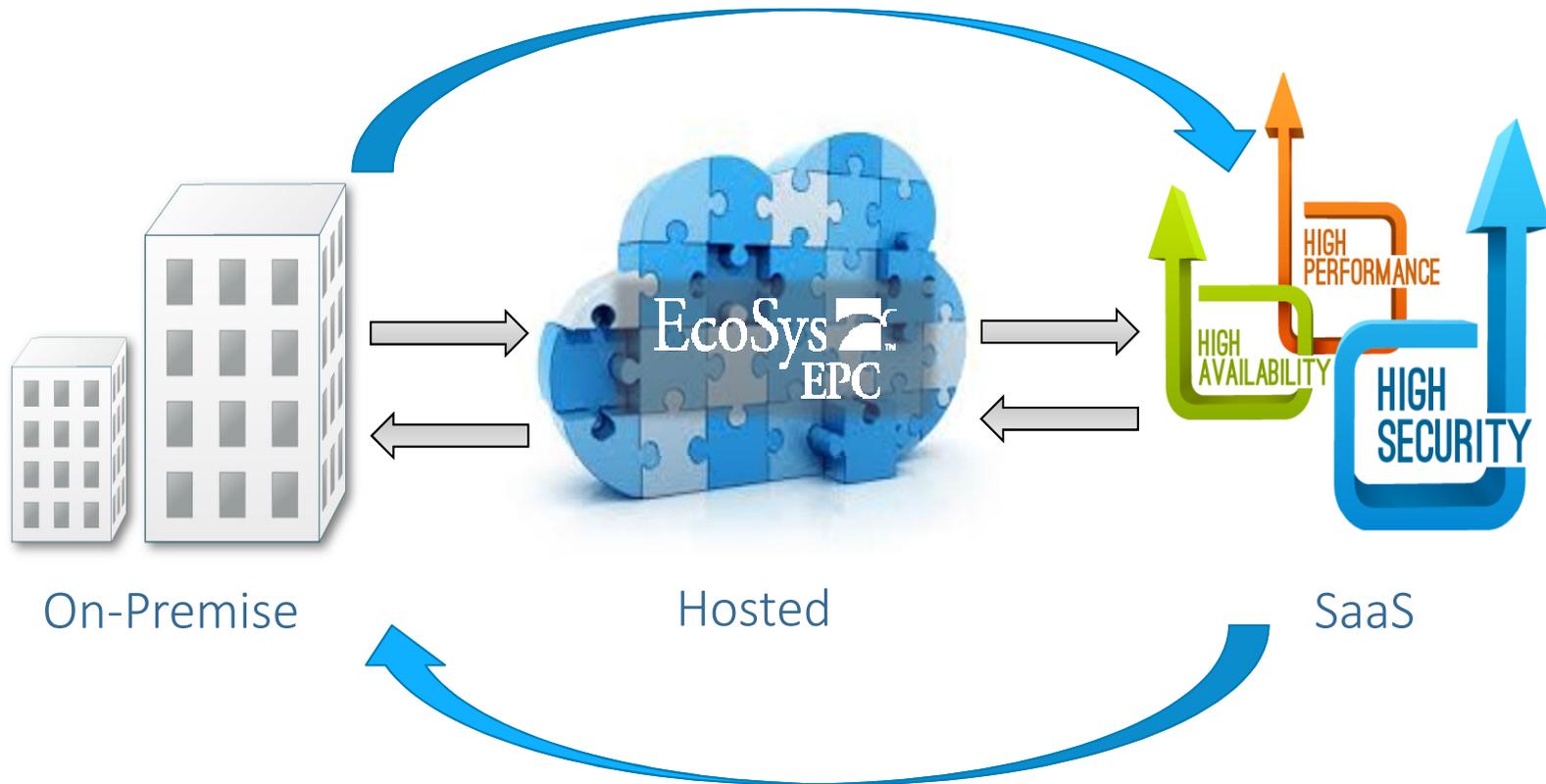


Tailored User Experience

Collaboration

Filtered Information

Flexible Software Deployment Methods



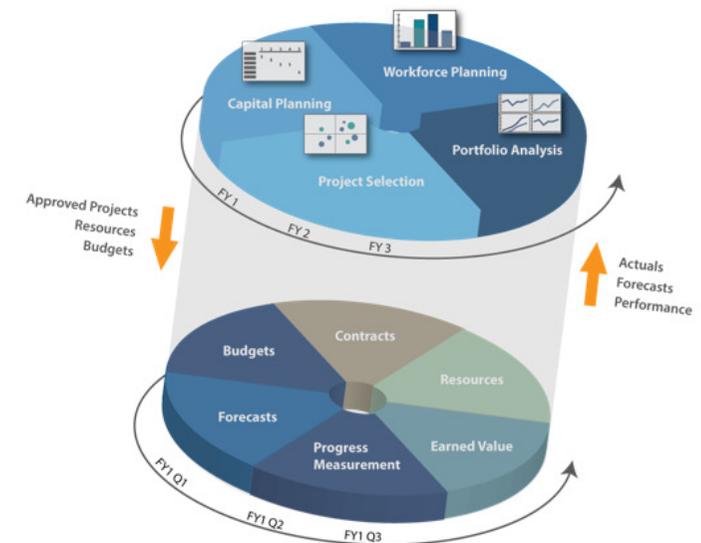
Successful enterprise project controls systems

- Centralized repository for all projects
- Standardized data structures with project-specific flexibility
- Single integrated process and system
 - Portfolio Management
 - Capital Planning
 - Budgeting and Forecasting
 - Change Control
 - Contract Management
 - Progress Measurement
 - Performance Management
- Easy-to-use software
 - Optimized for each role
 - Tailored for the organization's processes
 - Interactive drilldowns



Successful enterprise project controls systems

- Scalable for large enterprises and capital programs
- Robust, flexible reporting
- Go beyond tracking actual costs and perform forecasting based on past performance
- Maintain visibility into costs by WBS/Work Package and any number of alternate structures, like CBS, OBS, RBS, JV, Client, Discipline & more.
- Standardize project performance measures
 - Earned Value
 - KPIs
 - Milestones
- Dynamically re-plan and analyze from different perspectives



Questions?

Thank You

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