



Project Controls EXPO

Project Controls Expo – 16th Nov 2016
Emirates Stadium, London

**Project Controls Best Practices
with EcoSys**

EcoSys 

 INTERGRAPH®



**Project Controls
EXPO**

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About the Team



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About The Company

Market Leader



- 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
- Acquired by Intergraph in 2015

Loyal & Growing Customer Base



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

Representative customers

Engineering & Construction



Oil, Gas & Chemicals



Utilities



Government Contractors / A&D



Transportation



Mining



About The Platform

Leading, End-to-End Solution for Enterprise Project Controls

EcoSys EPC delivers the complete spectrum of project controls functionality in a single unified platform



Leading Project Controls and Planning Solution

- Enterprise Project Controls
 - Budgeting and Forecasting
 - Change Management
 - Contract Management
 - Progress Measurement
 - Performance and Earned Value Management (EVM)
- Capital Planning
- Project Portfolio Management
- Workforce Planning



Comprehensive Integration Technology

- Seamlessly integrates with:
 - ERP systems
 - General Ledger systems
 - Document Management systems
 - Scheduling systems
 - Timesheet systems
 - Human Resources systems
 - Microsoft Excel



Unique Reporting and Analytics Functionality

Combines full-lifecycle, comprehensive functionality with a powerful built-in reporting and analytics engine and Excel-like ease-of-use

Project Controls Challenges



Project Controls Challenges

- Poor Planning
- Rigid systems and processes
- Information silos / Lack of integration
- Manual processes
- Poor visibility and reporting
- Poor communication
- Inability to act on information
- Insufficient Project Controls resources and knowledge



Project Controls Challenges



- Who approved this budget?
- Who approved this Change?
- Where is this project going?



- Where are my resources?
- What does my cash-flow look like?
- When are procured items due?
- Can you run me that Project budget report?



- How is this forecast calculated?
- How is this progress being measured?
- How does Project A compare to Project B ?

Impact of challenges

61%

of major projects
miss their budget ¹

80%

average cost
increase ²

98%

of large scale
capital OO projects
face cost overruns
or delays ²

-11%

impact on share
price if project
deadline or budget
missed ³

1: Source: "Utilities Capital Projects: Will They Deliver?", Accenture 2013

2: Source: "Owner Operators Study", McKinsey n.d.

3: Source: "Capital Projects: Is Your Board Doing Enough?", PWC, 2013

Takeaways for today

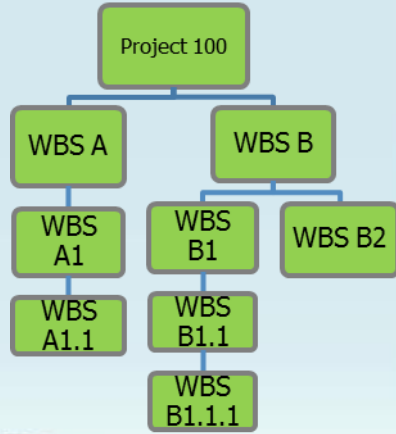
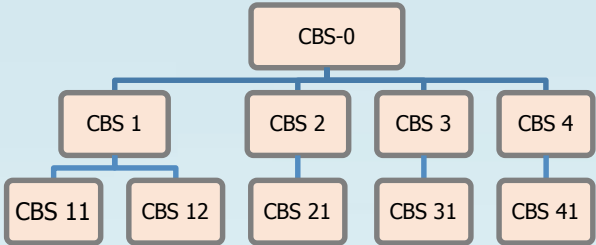


Takeaway 1:



Remove your dependency on inefficient tools that currently manage project controls data

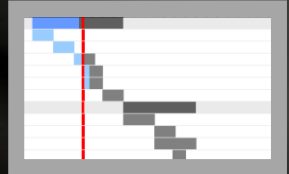
Inefficient tools



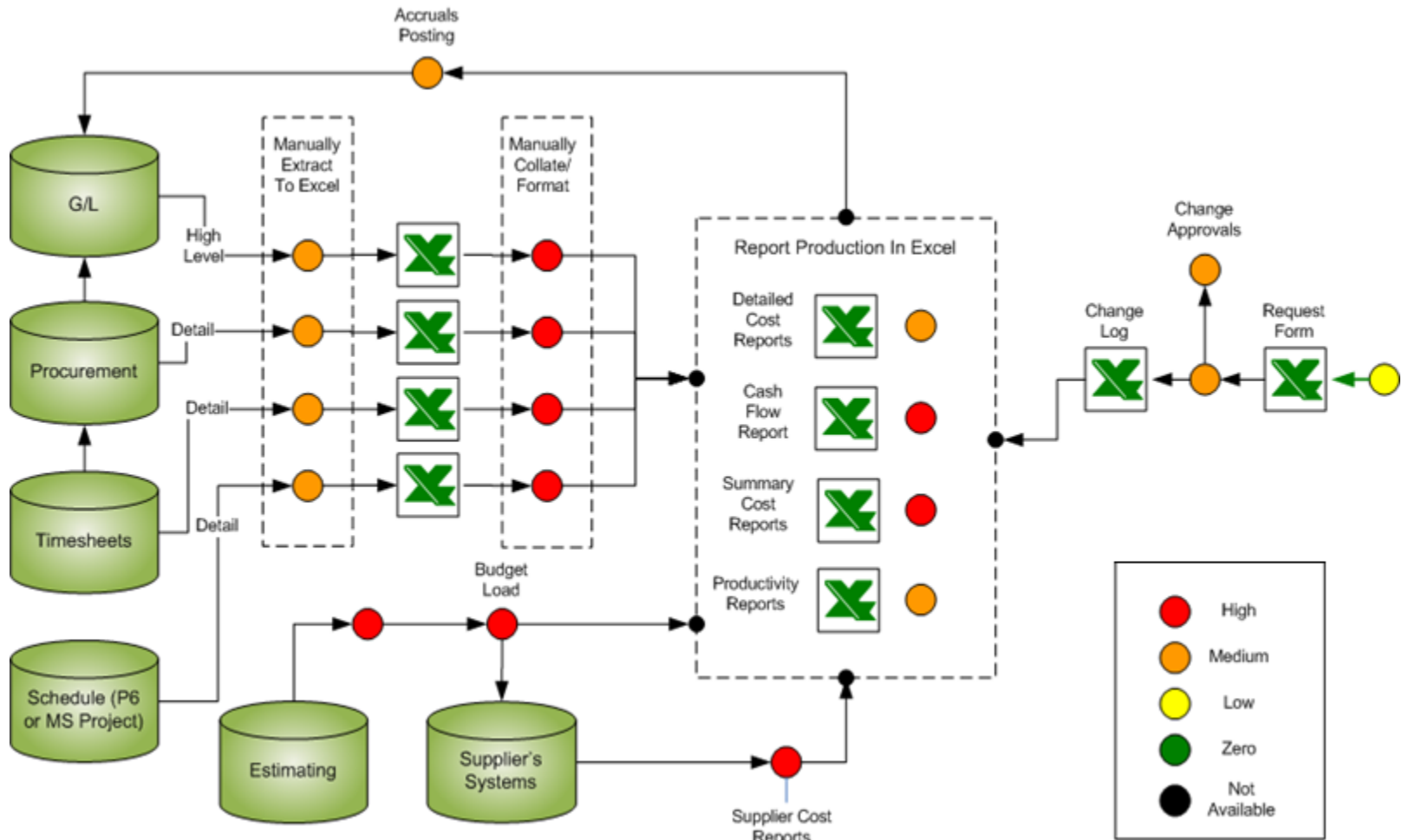
ERP



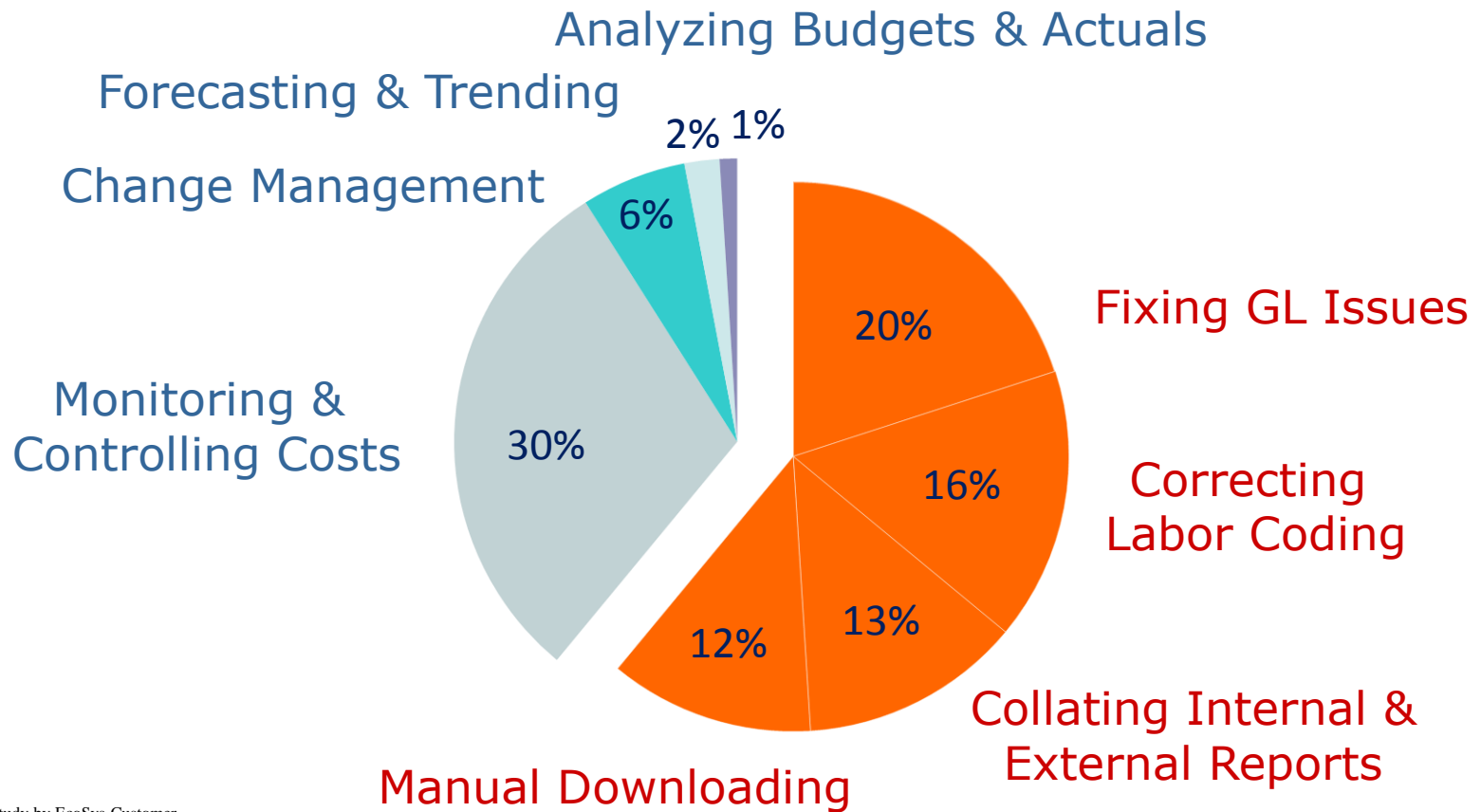
Schedule



Inefficient tools



61% of cost analysts' time was "Wasteful"



Source: Internal Study by EcoSys Customer

Simple Best Practice Solutions

* Project: PRJ-000008 - New Construction Project

Project Budget Status

Sheet Edit Display Rows

Path ID	Name	Original Baseline	Pending Changes	Approved Changes	Current Budget	Target Budget	Commitments	Actuals	Accru
PRJ-000008	New Construction Project	8,232,288	343,075	839,000	9,121,288	9,464,363	3,089,825	2,216,867	
PRJ-000008.01	Engineering	1,183,437	0	175,000	1,408,437	1,408,437	685,000	929,244	
PRJ-000008.01.01	Site Investigation	353,437	0	0	403,437	403,437	0	16,000	
PRJ-000008.01.02	Engineering Design	510,000	0	175,000	685,000	685,000	685,000	833,000	
PRJ-000008.01.03	Resident Engineering	320,000	0	0	320,000	320,000	0	80,244	
PRJ-000008.02	Construction	3,661,971	343,075	664,000	4,325,971	4,669,046	1,904,825	782,938	
PRJ-000008.02.01	Facilities	0	303,700	0	0	303,700	0	102,999	
PRJ-000008.02.01.01	Buildings	0	303,700	0	0	303,700	0	102,999	
PRJ-000008.02.01.02	Building Services	0	0	0	0	0	0	0	
PRJ-000008.02.02	Site Work	3,661,971	39,375	0	3,661,971	3,701,346	1,904,825	679,939	
PRJ-000008.02.02.01	Existing Conditions	0	0	0	0	0	0	0	
PRJ-000008.02.02.02	Earthwork	3,661,971	39,375	0	3,661,971	3,701,346	1,904,825	679,939	
PRJ-000008.02.02.02.01	Dewatering	447,415	9,200	0	447,415	456,615	450,000	524,389	
PRJ-000008.02.02.02.02	Grading Earth	66,418	25,000	0	66,418	91,418	100,000	60,000	
PRJ-000008.02.02.02.03	Earth Excavation	152,653	5,175	0	152,653	157,828	200,000	67,500	
PRJ-000008.02.02.02.04	Embankment Construction	595,441	0	0	595,441	595,441	679,995	8,500	
PRJ-000008.02.02.02.05	Erosion Control	123,448	0	0	123,448	123,448	0	0	
PRJ-000008.02.02.02.06	Sub-grade Preparation	398,715	0	0	398,715	398,715	0	0	
PRJ-000008.02.02.02.07	Structural Excavation	246,507	0	0	246,507	246,507	0	0	

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Simple Best Practice Solutions

* Project: PRJ-000008 - New Construction Project

Project Budget Status

Commitments

* WBS: PRJ-000008 - New Construction Project

Sheet Edit Display Rows

GC	WBS Path ID	Cost Account ID	Line ID	Description	Quantity	UOM	Hours	Cost	Currency	Cost in Project Currency	Date	Vendor ID	
							8,400.0	3,089,825.00		3,089,825.00			
	PO-000001 - Engineering Design						4,900.0	685,000.00			685,000.00		
	PRJ-000008.01.02	LAB	1	Drawings IFR	50.0	EA	1,800.0	195,000.00	USD	195,000.00	04/07/2015		
	PRJ-000008.01.02	LAB	2	Calculations	45.0	EA	1,100.0	195,000.00	USD	195,000.00	09/18/2015		
	PRJ-000008.01.02	LAB	3	Drawing IFC	50.0	EA	2,000.0	295,000.00	USD	295,000.00	09/18/2015		
	PO-001 - Dewatering						3,500.0	450,000.00			450,000.00		
	PRJ-000008.02.02.02.01	LAB	1	Labor	0.0		3,500.0	450,000.00	USD	450,000.00	04/07/2015		
	PO-002 - Grading & Excavation						0.0	300,000.00			300,000.00		
	PRJ-000008.02.02.02.02	LAB	1.0	Grading Earth	0.0		0.0	100,000.00	USD	100,000.00	04/07/2015		
	PRJ-000008.02.02.02.03	LAB	2.0	Excavation	0.0		0.0	200,000.00	USD	200,000.00	04/07/2015		
	PO-003 - Embankment						0.0	679,995.00			679,995.00		
	PRJ-000008.02.02.02.04	LAB	1.0	Embankment	0.0		0.0	679,995.00	USD	679,995.00	04/07/2015		
	PO-004 - Stabilization						0.0	349,830.00			349,830.00		
	PRJ-000008.02.02.02.09	LAB	1.0	Rock Stabilization	0.0		0.0	260,820.00	USD	260,820.00	04/07/2015		
	PRJ-000008.02.02.02.10	LAB	2.0	Soil Stabilization	0.0		0.0	89,010.00	USD	89,010.00	04/07/2015		
	PO-005 - Shoring						0.0	125,000.00			125,000.00		
	PRJ-000008.02.02.02.12	LAB	1.0	Driver & Vehicle	0.0		0.0	125,000.00	USD	125,000.00	04/07/2015		
	PO-006 - Project Controls						0.0	500,000.00			500,000.00		

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Simple Best Practice Solutions

* Project: PRJ-000008 - New Construction Project

Project Budget Status

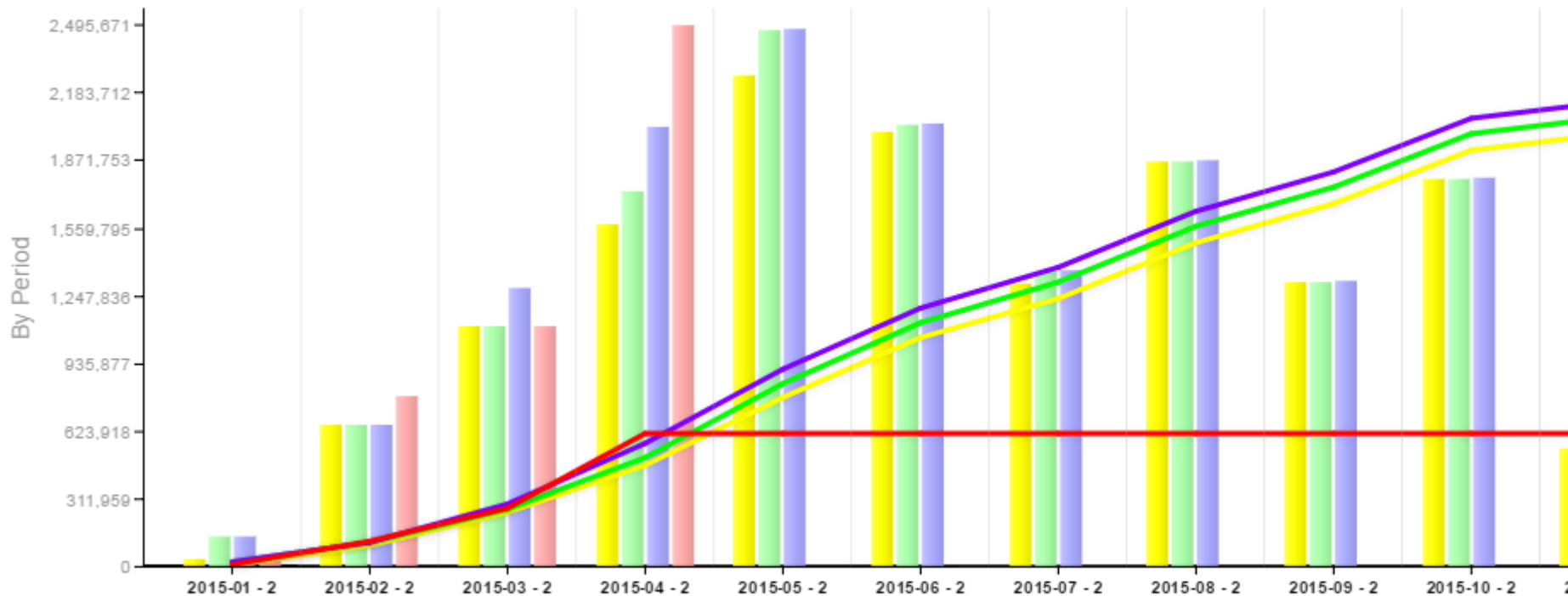
Project Budget Status Chart

* WBS: PRJ-000008 - New Construction Project

* Start Period: 2015-01

* End Period: 2016-02

Project Budget Status

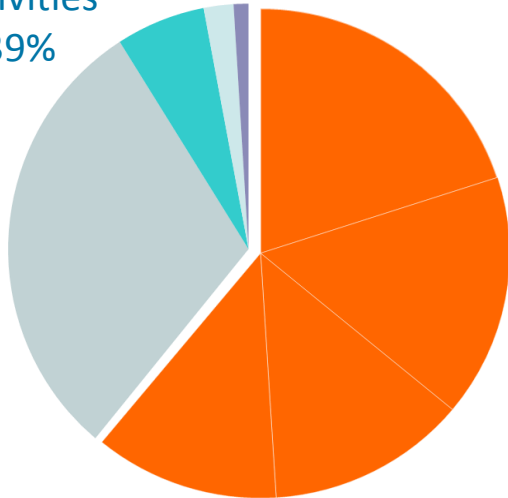


	2015-01 - 2	2015-02 - 2	2015-03 - 2	2015-04 - 2	2015-05 - 2	2015-06 - 2	2015-07 - 2	2015-08 - 2	2015-09 - 2	2015-10 - 2	2016-01 - 2
Original Budget	32,093	652,534	1,108,107	1,578,630	2,266,957	2,005,981	1,303,560	1,868,838	1,311,473	1,788,203	1,788,203
Current Budget	136,093	652,534	1,108,107	1,731,357	2,475,584	2,038,590	1,359,597	1,868,838	1,311,473	1,788,203	1,788,203
Actuals	42,824	784,640	1,107,569	2,498,700	-	-	-	-	-	-	-
Current Forecast	136,093	652,534	1,284,556	2,029,122	2,481,869	2,044,673	1,365,883	1,875,123	1,317,556	1,794,489	1,794,489

Greater value-add for cost analysts



Value-add
Activities
39%



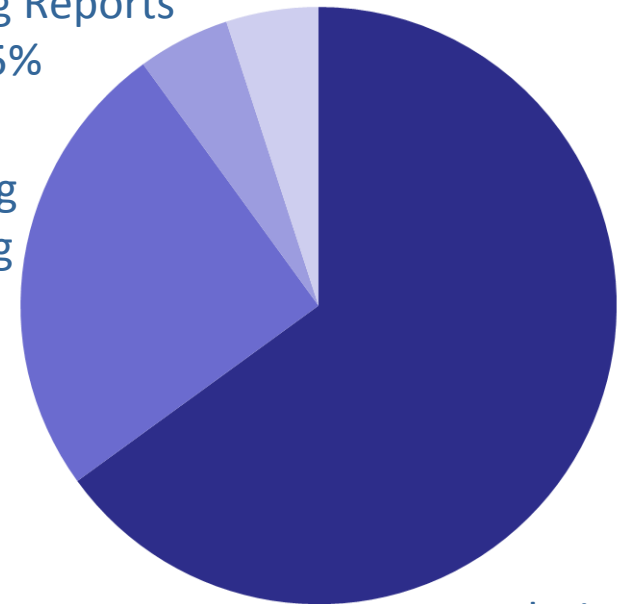
"Wasteful" Activities
61%



Forecasting
& Trending
25%

Running Reports
5%

Troubleshooting
5%



Analyzing Data
65%

Source: Internal Study by EcoSys Customer

Takeaway 2:



Reduce the total cost of effort
to adopt efficient tools

How?



Implement fewer but more strategic tools

Adapt the tool as the business evolves



Increase user adoption rates



Increase adoption of product capability



Reduce total cost of ownership



Increase % ownership of expensive tasks

Key system considerations



Standardization/
Best Practices



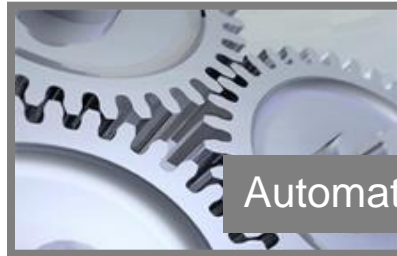
Adoption



Visibility



Controlled
Flexibility



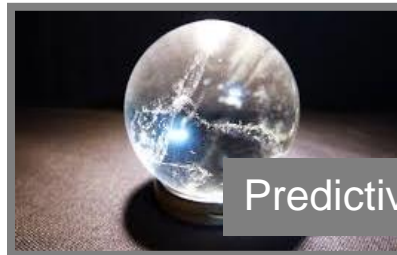
Automation



Integration



Scalability



Predictive



Full Lifecycle

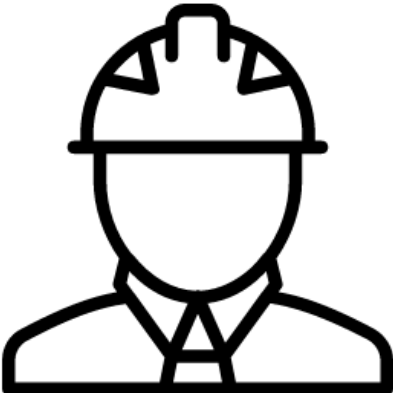


Takeaway 3:

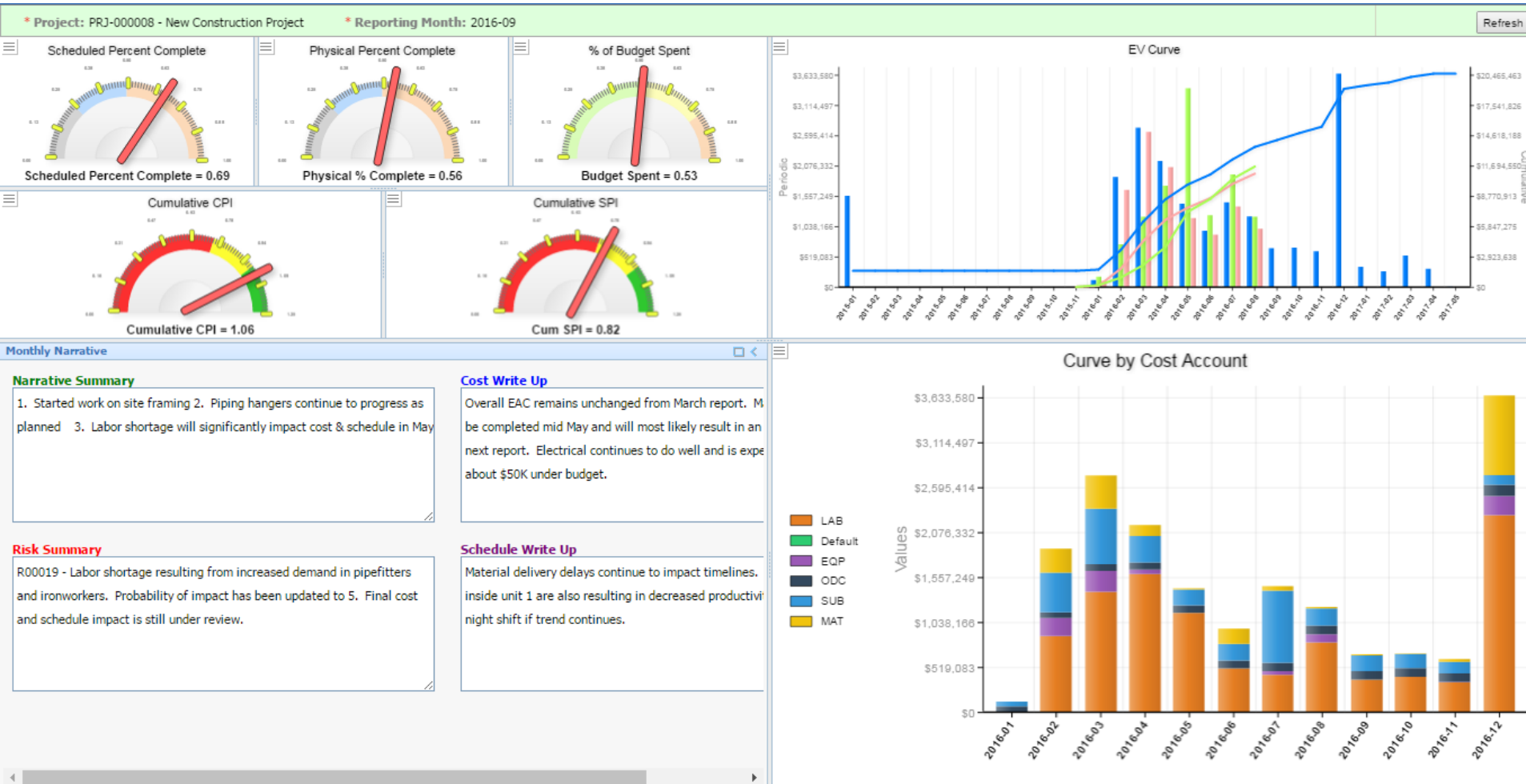


Strive for DIY

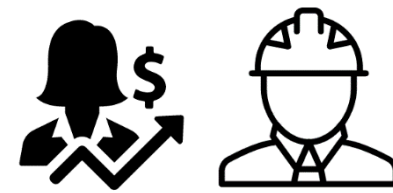
DIY Project Planning and Monitoring



DIY Data – Client Reports

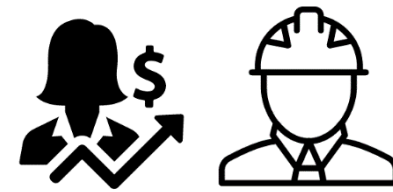


Internal/External Stakeholders



Details		Time-Phasing											
* WBS: PRJ-000008 - New Construction Project ...													
Sheet	Edit	Display	Rows										
WBS Path ID	Cost Account ID	Start Date	End Date	Curve	Quantity	UOM	Hours	Cost	Currency	Cost in Project Currency	Budget		
							64,040.8	18,078,774.58		18,078,774.58			
PRJ-000008.01.01	SUB	01/01/2016	12/30/2016	Bell Curve	0.0		0.0	1,183,437.29	USD	1,183,437.29	BGT-000001		
PRJ-000008.01.02	LAB	04/07/2016	08/31/2016	Front Loaded	0.0		6,356.3	953,437.29	USD	953,437.29	BGT-000001		
PRJ-000008.01.03	LAB	03/16/2016	04/29/2016	Back Loaded	0.0		0.0	890,000.00	USD	890,000.00	BGT-000001		
PRJ-000008.02.02.02.01	LAB	10/23/2016	11/17/2016	Bell Curve	1,000.0	EA	1,000.0	20,000.00	USD	20,000.00	BGT-000002		
PRJ-000008.02.02.02.01	MAT	10/23/2016	11/17/2016	Bell Curve	1,000.0	EA	1,000.0	20,000.00	USD	20,000.00	BGT-000002		
PRJ-000008.02.02.02.01	SUB	10/23/2016	11/17/2016	Bell Curve	2,000.0	EA	1,000.0	20,000.00	USD	20,000.00	BGT-000002		
PRJ-000008.02.02.02.02	LAB	11/17/2016	11/27/2016	Manual	0.0		4,429.9	447,415.00	USD	447,415.00	BGT-000001		
PRJ-000008.02.02.02.03	MAT	02/15/2016	10/10/2016	Linear	0.0		0.0	66,418.00	USD	66,418.00	BGT-000001		
PRJ-000008.02.02.02.04	EQP	02/15/2016	03/31/2016	Front Loaded	0.0		0.0	152,653.00	USD	152,653.00	BGT-000001		
PRJ-000008.02.02.02.07	LAB	05/09/2016	05/19/2016	Linear	0.0		2,658.1	398,715.00	USD	398,715.00	BGT-000001		
PRJ-000008.02.02.02.08	LAB	05/19/2016	06/02/2016	Linear	0.0		1,826.0	246,507.00	USD	246,507.00	BGT-000001		
PRJ-000008.02.02.02.09	MAT	06/02/2016	06/23/2016	Linear	0.0		0.0	120,305.00	USD	120,305.00	BGT-000001		
PRJ-000008.02.02.02.10	MAT	06/23/2016	07/07/2016	Linear	0.0		0.0	78,917.00	USD	78,917.00	BGT-000001		
PRJ-000008.02.02.02.11	SUB	07/07/2016	07/25/2016	Linear	0.0		0.0	628,486.00	USD	628,486.00	BGT-000001		
PRJ-000008.02.02.02.12	EQP	07/25/2016	08/16/2016	Linear	0.0		0.0	133,594.00	USD	133,594.00	BGT-000001		
PRJ-000008.02.03.02	MAT	11/27/2016	12/18/2016	Back Loaded	0.0		0.0	950,000.00	USD	950,000.00	BGT-000001		
PRJ-000008.02.03.02	EQP	11/27/2016	12/18/2016	Back Loaded	0.0		0.0	230,000.00	USD	230,000.00	BGT-000001		
PRJ-000008.02.03.02	LAB	11/27/2016	12/18/2016	Back Loaded	0.0		12,000.0	2,109,900.00	USD	2,109,900.00	BGT-000001		
PRJ-000008.02.03.02	ODC	11/27/2016	12/18/2016	Back Loaded	0.0		0.0	34,000.00	USD	34,000.00	BGT-000001		
PRJ-000008.02.03.03	LAB	02/15/2016	04/29/2016	Front Loaded	0.0		15,098.0	2,309,000.00	USD	2,309,000.00	BGT-000001		

Internal/External Stakeholders



* Project: PRJ-000008 - New Construction Project * Project Period: 2016-01

Project Forecast Summary											
Path ID	Name	Forecast Method	Manual EAC	Manual ETC	Manual Factor	Preview EAC	Working Forecast	Current Budget	Open Commitment	Actuals	Current Forecast
PRJ-000008	New Construction Project						15,242,349	20,579,003	0	105,387	19,794,320
PRJ-000008.01	Engineering						3,997,524	4,017,103	0	56,969	4,097,524
PRJ-000008.01.01	Site Investigation	Manual EAC	1,000,005	0	0.00	1,000,005	1,000,000	1,183,437	0	56,969	1,100,000
PRJ-000008.01.02	Engineering Design	Current CPI	0	0	0.00	1,600,016	1,600,016	1,600,016	0	0	1,600,016
PRJ-000008.01.03	Resident Engineering	Current CPI	0	0	0.00	1,397,508	1,397,508	1,233,649	0	0	1,397,508
PRJ-000008.02	Construction						8,297,601	11,625,800	0	0	11,115,472
PRJ-000008.02.01	Facilities						0	10,000	0	0	10,000
PRJ-000008.02.01.01	Buildings	Current Budget	0	0	0.00	10,000	0	10,000	0	0	10,000
PRJ-000008.02.01.02	Building Services						0	0	0	0	0
PRJ-000008.02.02	Site Work						1,857,625	3,833,010	0	0	4,002,252
PRJ-000008.02.02.01	Existing Conditions						0	0	0	0	0
PRJ-000008.02.02.02	Earthwork						1,857,625	3,533,010	0	0	3,702,252
PRJ-000008.02.02.02.1	Dewatering	Current Budget	0	0	0.00	160,000	0	160,000	0	0	160,000
PRJ-000008.02.02.02.1	Grading Earth	Manual ETC	0	200,000	0.00	200,000	200,000	547,415	0	0	650,326
PRJ-000008.02.02.02.1	Earth Excavation	Current Budget	0	0	0.00	166,418	66,418	166,418	0	0	166,418
PRJ-000008.02.02.02.1	Embankment Construction	AC+Open Commitment	0	0	0.00	0	158,666	252,653	0	0	254,426
PRJ-000008.02.02.02.1	Erosion Control	Current Budget	0	0	0.00	100,000	0	100,000	0	0	100,000
PRJ-000008.02.02.02.1	Sub-grade Preparation	Current Budget	0	0	0.00	100,000	0	100,000	0	0	100,000
PRJ-000008.02.02.02.1	Structural Excavation	AC+Open Commitment	0	0	0.00	0	199,358	498,715	0	0	399,036
PRJ-000008.02.02.02.1	Structural Backfill	AC+Open Commitment	0	0	0.00	0	164,522	346,507	0	0	305,515



Using tools that can produce apps more rapidly is crucial for enterprises to help bridge the gap between mobile app demand and supply.

Gartner

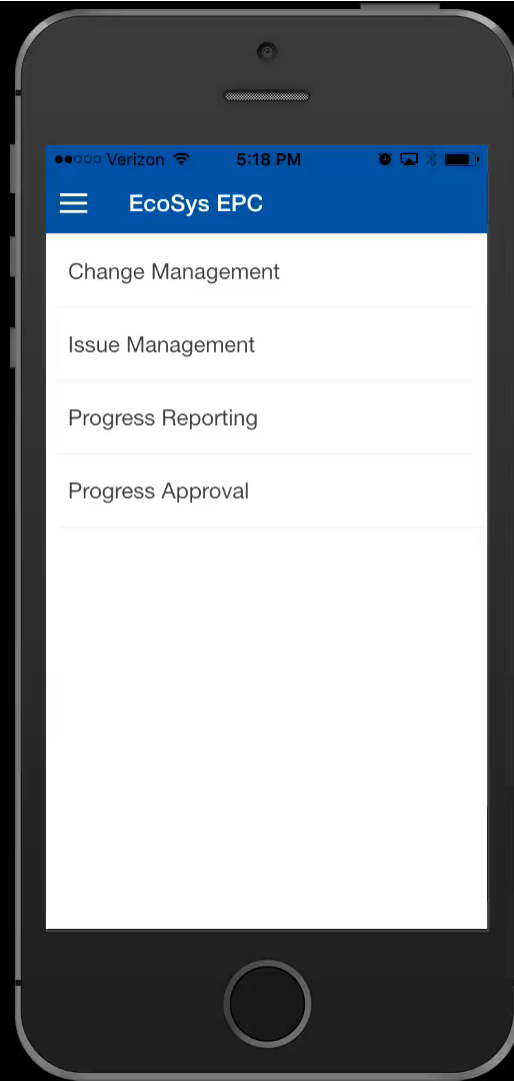
Why Mobile?

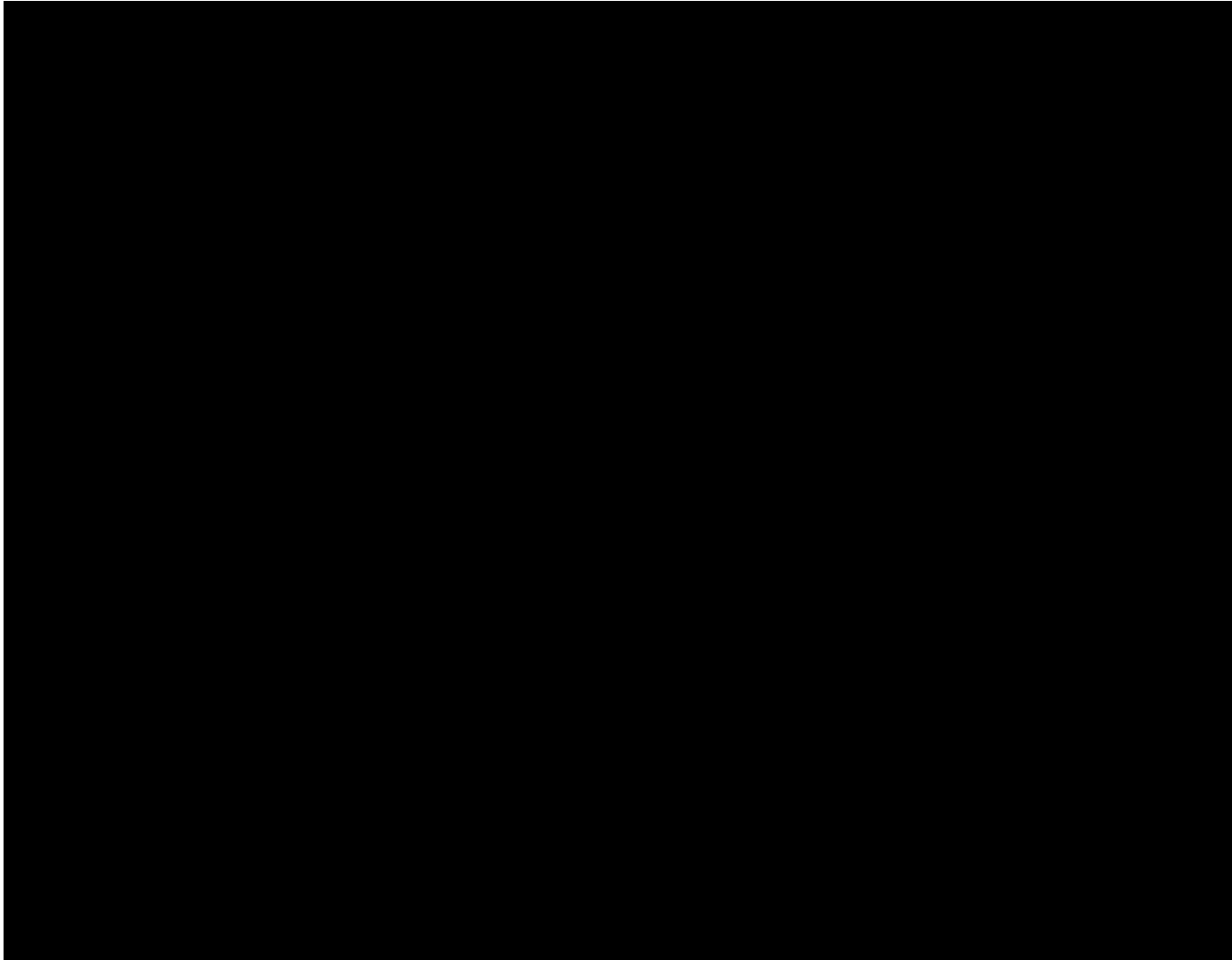
Connect departmental silos

Provide access to up-to-date information

Replace cumbersome paper-based and manual processes for field workers

Offer simple tools with no training needs





Takeaways for today

The background of the slide features two white, square-shaped paper takeout containers with metal wire handles. They are placed on a table with a floral patterned tablecloth. The background is softly blurred, showing what appears to be an indoor setting with warm lighting and some blue light sources.

- 1. Remove dependency on inefficient tools**
- 2. Reduce cost of effort to adopt efficient tools**
- 3. Strive for DIY**

Product strategy initiatives

Out of the box best practice content for project controls and contract management

Extended integration capability (SAP, Primavera, Intergraph, Web Services, Flat Files)

The bigger picture (Hexagon augmented reality, multi-dimensional building modeling)



PROJECT MANAGERS



COST ANALYSTS



EXECUTIVES

A large, yellow, curved shape resembling a question mark is centered on a dark blue background. The shape is irregular and appears to be made of a textured material, possibly paper or fabric, with some dark spots and a jagged edge. The background is a solid, dark blue color with a slight gradient.

Where to next?

Where to next?



Meet Iain, Darren, Federico or Mervyn now
or later at the EcoSys booth

Talk to us about platform capability and
feasibility

Schedule a product demo

Visit www.EcoSys.net