Implementing EVM on a HHS BARDA Contract

Jessica Coral, BDO

Kim Runkel, Integrated Management Concepts

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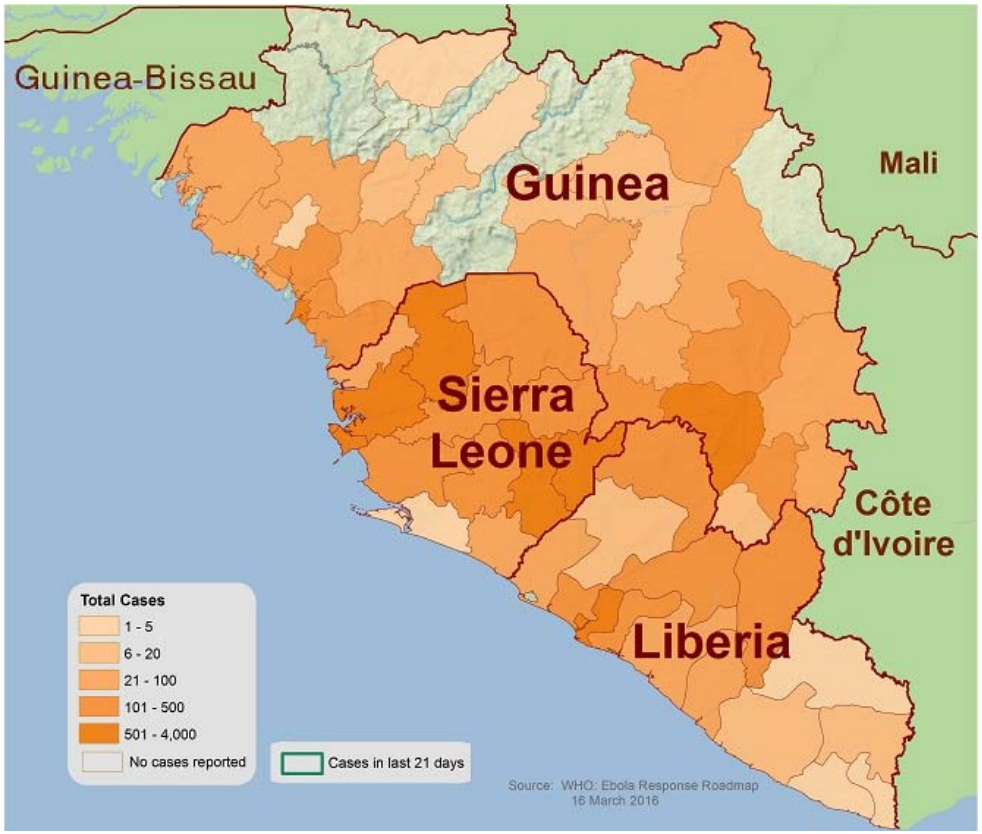
History

World Health Organization

"A total of 28,616 confirmed, probable and suspected cases have been reported in Guinea, Liberia and Sierra Leone, with 11,310 deaths."

June 2016, Situation Report

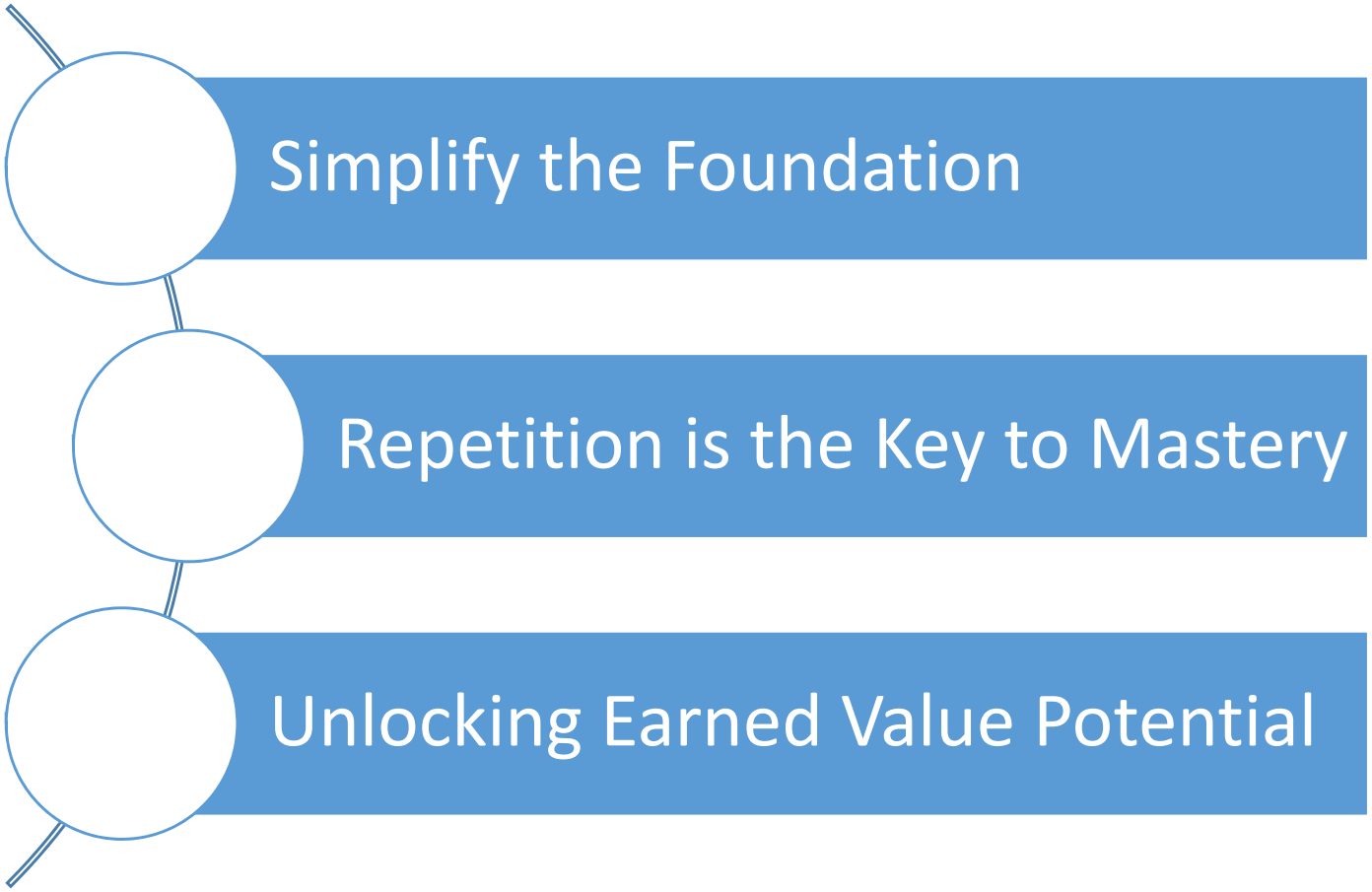


Citation: https://en.wikipedia.org/wiki/West_African_Ebola_virus_epidemic

Contract Overview

- Customer
  - US Department of Health and Human Services (HHS)
  - Office of the Assistant Secretary for Preparedness and Response
  - Biomedical Advanced Research and Development Authority (BARDA)
- Scope of Work
- BDO Team

Learning Objectives



Planning

Simplify the Foundation

DecisionEdge

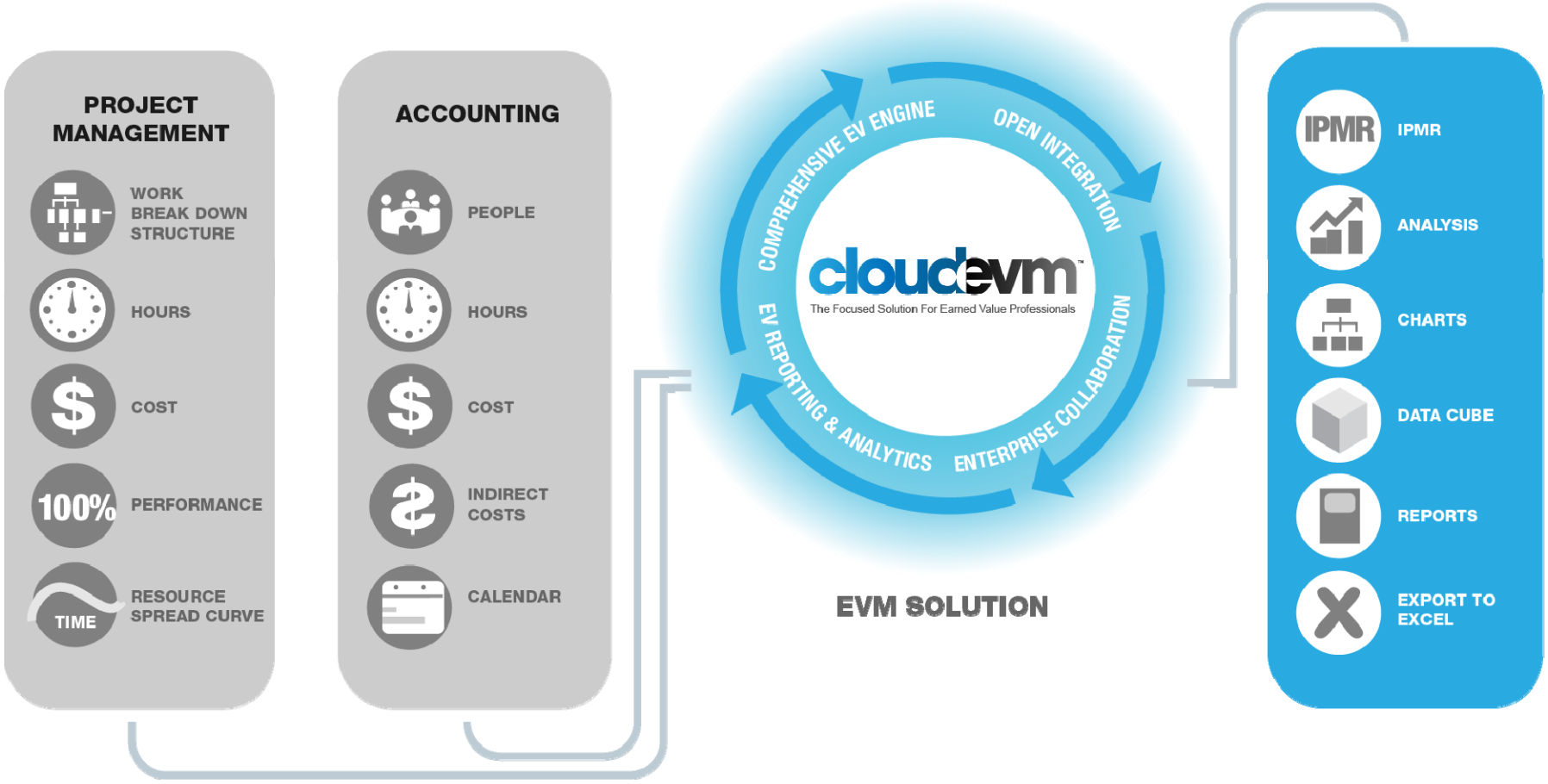
cloudevm

The Focused Solution For Earned Value Professionals

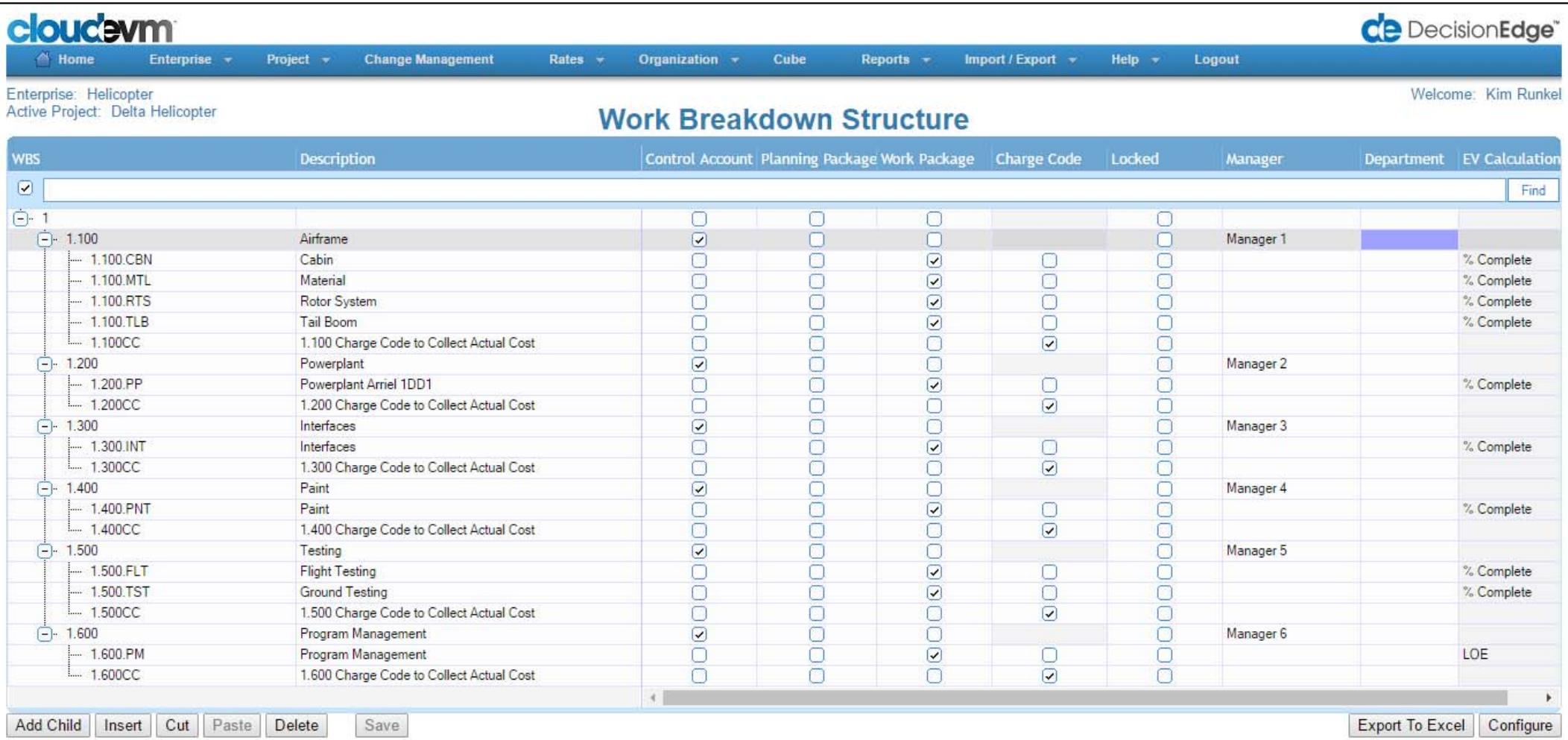
What “Cloud” Means in CloudEVM

- Intuitive User Interface
- Zero Footprint
- Quick Deployment
- Cost Efficient
- Scalable
- Functionally Rich EV Business Solution
- Secure, Enterprise Ready

How CloudEVM Works

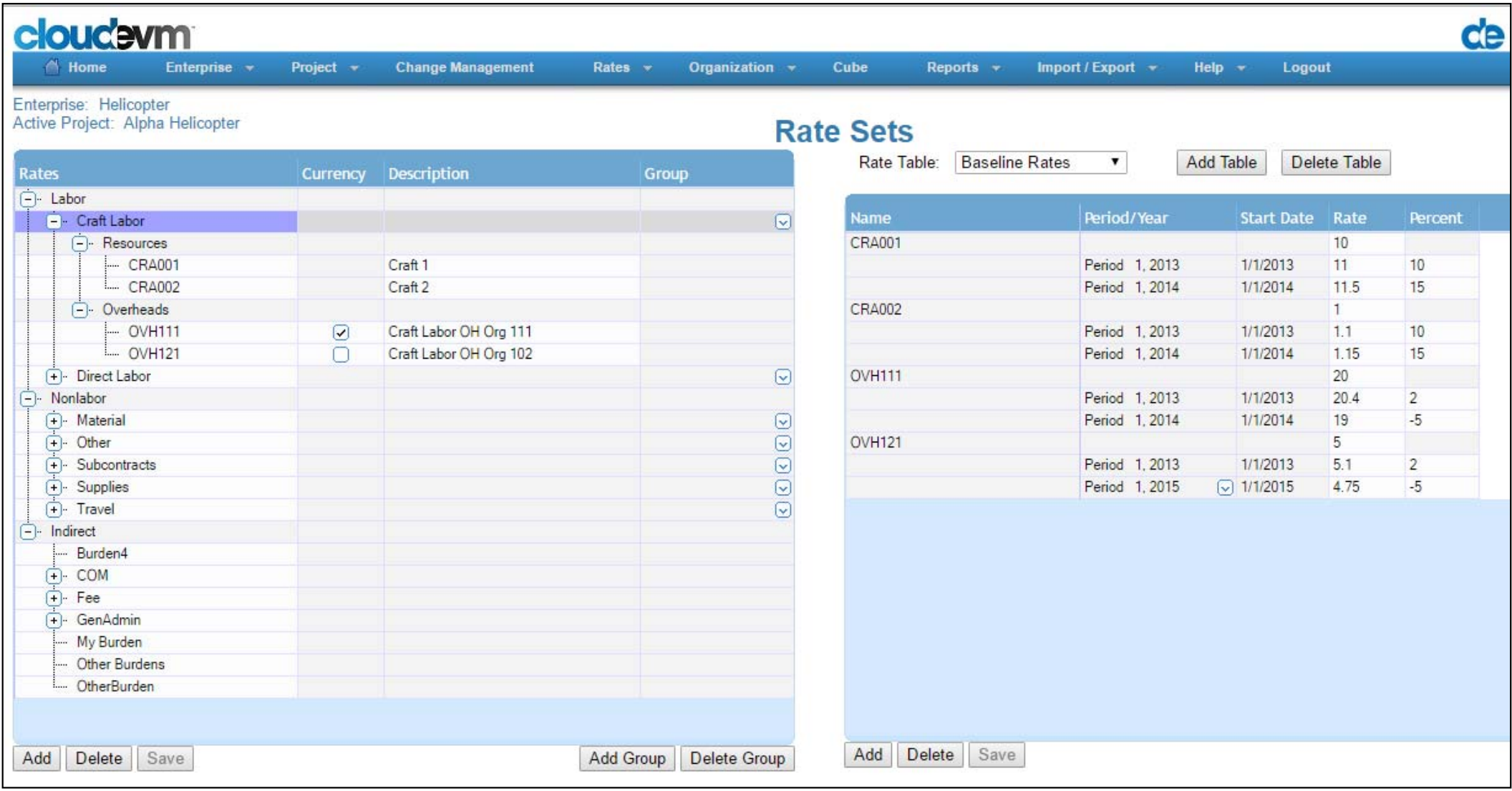


Work Breakdown Structure

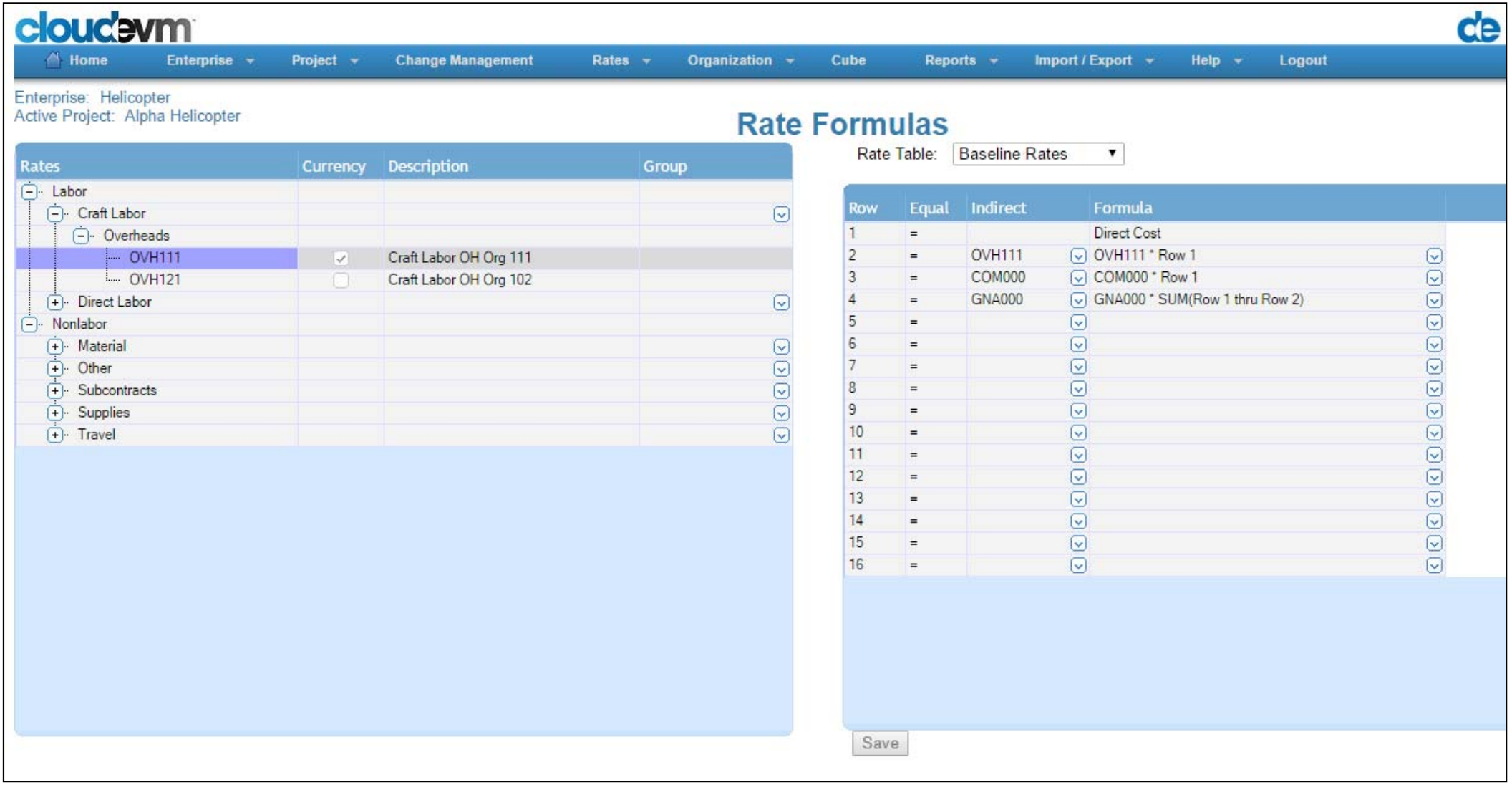


WBS	Description	Control Account	Planning Package	Work Package	Charge Code	Locked	Manager	Department	EV Calculation
1		☐	☐	☐		☐			
1.100	Airframe	☑	☐	☐		☐	Manager 1		
1.100.CBN	Cabin	☐	☐	☑	☐	☐			% Complete
1.100.MTL	Material	☐	☐	☑	☐	☐			% Complete
1.100.RTS	Rotor System	☐	☐	☑	☐	☐			% Complete
1.100.TLB	Tail Boom	☐	☐	☑	☐	☐			% Complete
1.100CC	1.100 Charge Code to Collect Actual Cost	☐	☐	☐	☑	☐			
1.200	Powerplant	☑	☐	☐		☐	Manager 2		
1.200.PP	Powerplant Arriel 1DD1	☐	☐	☑	☐	☐			% Complete
1.200CC	1.200 Charge Code to Collect Actual Cost	☐	☐	☐	☑	☐			
1.300	Interfaces	☑	☐	☐		☐	Manager 3		
1.300.INT	Interfaces	☐	☐	☑	☐	☐			% Complete
1.300CC	1.300 Charge Code to Collect Actual Cost	☐	☐	☐	☑	☐			
1.400	Paint	☑	☐	☐		☐	Manager 4		
1.400.PNT	Paint	☐	☐	☑	☐	☐			% Complete
1.400CC	1.400 Charge Code to Collect Actual Cost	☐	☐	☐	☑	☐			
1.500	Testing	☑	☐	☐		☐	Manager 5		
1.500.FLT	Flight Testing	☐	☐	☑	☐	☐			% Complete
1.500.TST	Ground Testing	☐	☐	☑	☐	☐			% Complete
1.500CC	1.500 Charge Code to Collect Actual Cost	☐	☐	☐	☑	☐			
1.600	Program Management	☑	☐	☐		☐	Manager 6		
1.600.PM	Program Management	☐	☐	☑	☐	☐			LOE
1.600CC	1.600 Charge Code to Collect Actual Cost	☐	☐	☐	☑	☐			

Rate Sets


cloudevm
Home
Enterprise
Project
Change Management
Rates
Organization
Cube
Reports
Import / Export
Help
Logout
Enterprise: Helicopter
Active Project: Alpha Helicopter
Rate Sets
Rate Table: Baseline Rates
Add Table
Delete Table
Rates
Currency
Description
Group
Labor
Craft Labor
Resources
CRA001
Craft 1
CRA002
Craft 2
Overheads
OVH111
Craft Labor OH Org 111
OVH121
Craft Labor OH Org 102
Direct Labor
Nonlabor
Material
Other
Subcontracts
Supplies
Travel
Indirect
Burden4
COM
Fee
GenAdmin
My Burden
Other Burdens
OtherBurden
Add
Delete
Save
Add Group
Delete Group
Name
Period/Year
Start Date
Rate
Percent
CRA001
10
Period 1, 2013
1/1/2013
11
10
Period 1, 2014
1/1/2014
11.5
15
CRA002
1
Period 1, 2013
1/1/2013
1.1
10
Period 1, 2014
1/1/2014
1.15
15
OVH111
20
Period 1, 2013
1/1/2013
20.4
2
Period 1, 2014
1/1/2014
19
-5
OVH121
5
Period 1, 2013
1/1/2013
5.1
2
Period 1, 2015
1/1/2015
4.75
-5
Add
Delete
Save

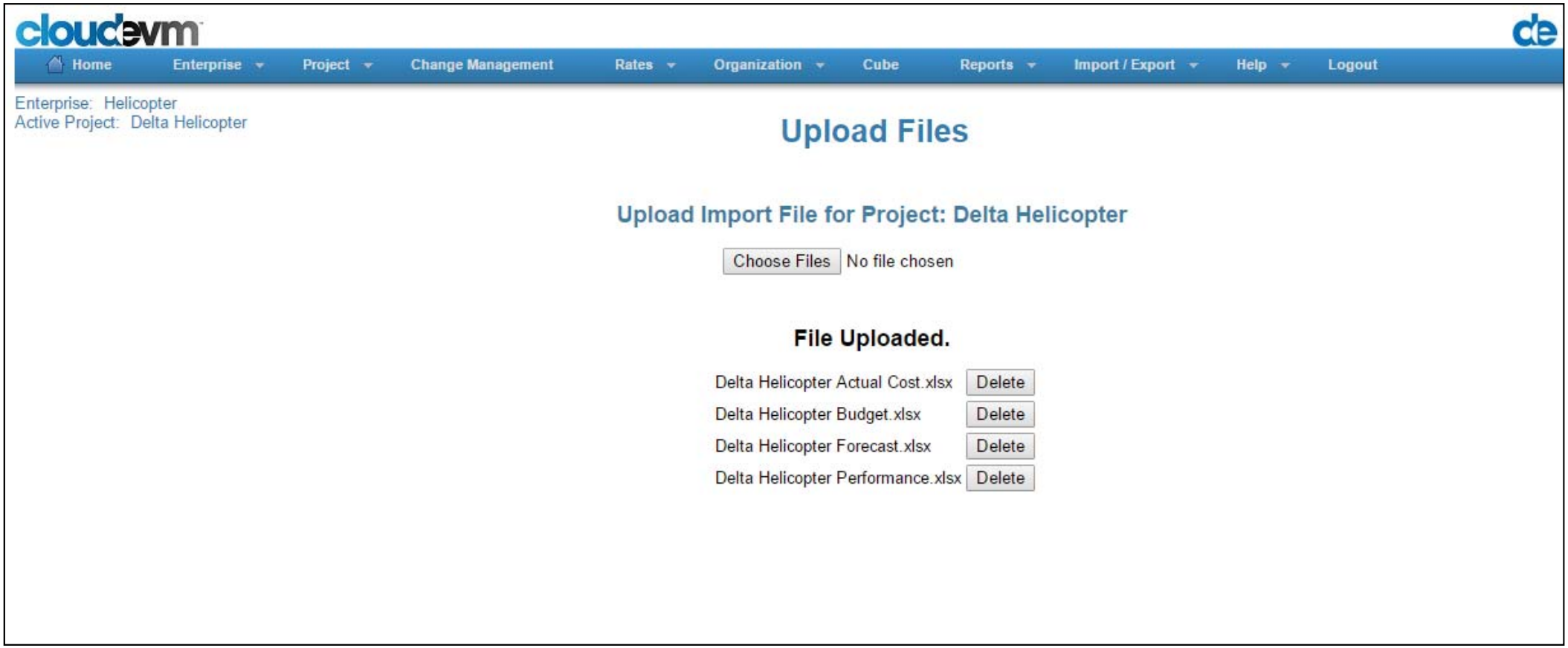
Rate Formula



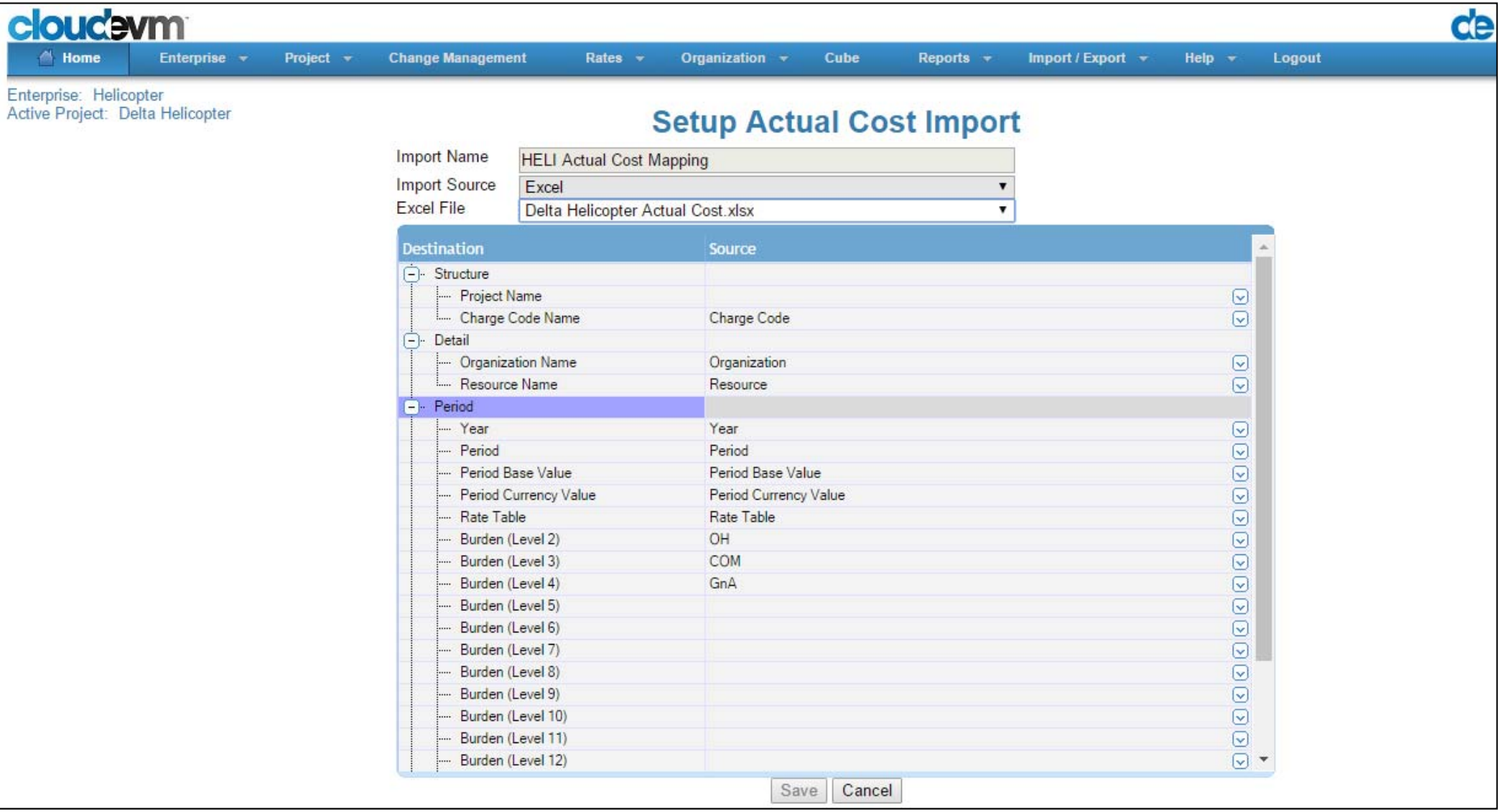
Monitoring & Execution

Repetition is the Key to Mastery

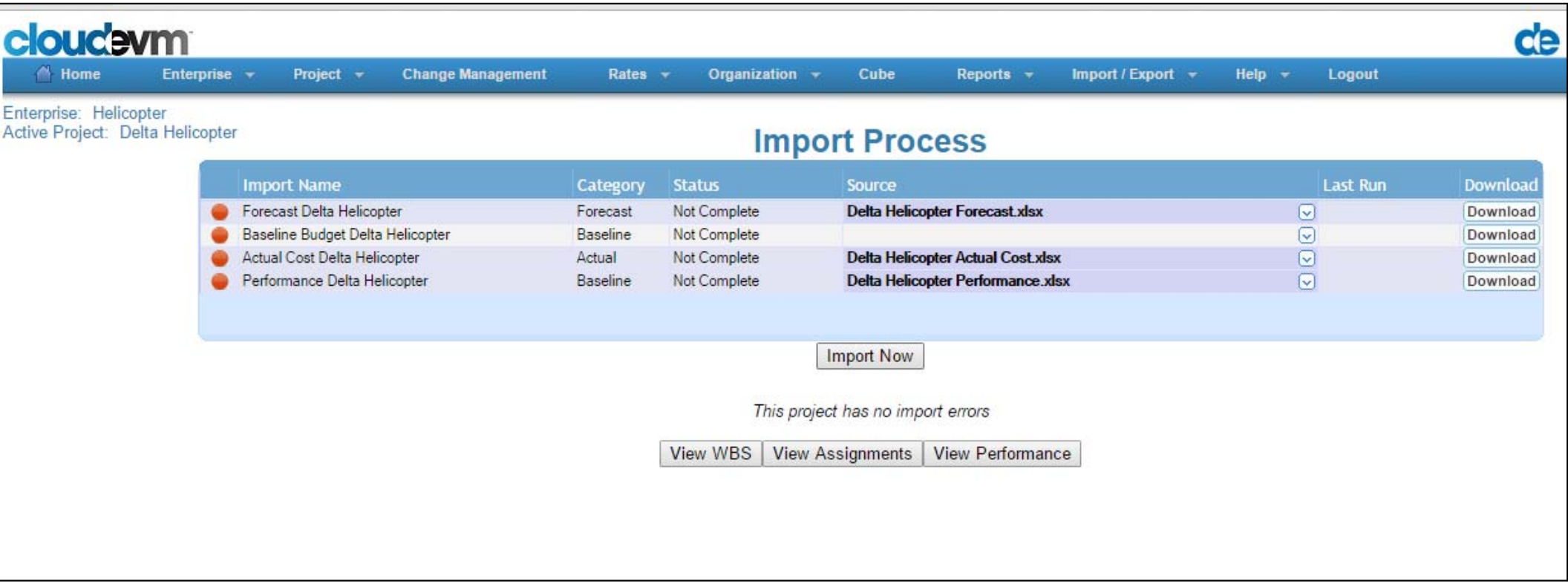
Uploading Data to the Cloud



Mapping


cloudevm
Home
Enterprise
Project
Change Management
Rates
Organization
Cube
Reports
Import / Export
Help
Logout
Enterprise: Helicopter
Active Project: Delta Helicopter
Setup Actual Cost Import
Import Name
HELI Actual Cost Mapping
Import Source
Excel
Excel File
Delta Helicopter Actual Cost.xlsx
Destination
Source
Structure
Project Name
Charge Code Name
Charge Code
Detail
Organization Name
Organization
Resource Name
Resource
Period
Year
Year
Period
Period
Period Base Value
Period Base Value
Period Currency Value
Period Currency Value
Rate Table
Rate Table
Burden (Level 2)
OH
Burden (Level 3)
COM
Burden (Level 4)
GnA
Burden (Level 5)
Burden (Level 6)
Burden (Level 7)
Burden (Level 8)
Burden (Level 9)
Burden (Level 10)
Burden (Level 11)
Burden (Level 12)
Save
Cancel

Importing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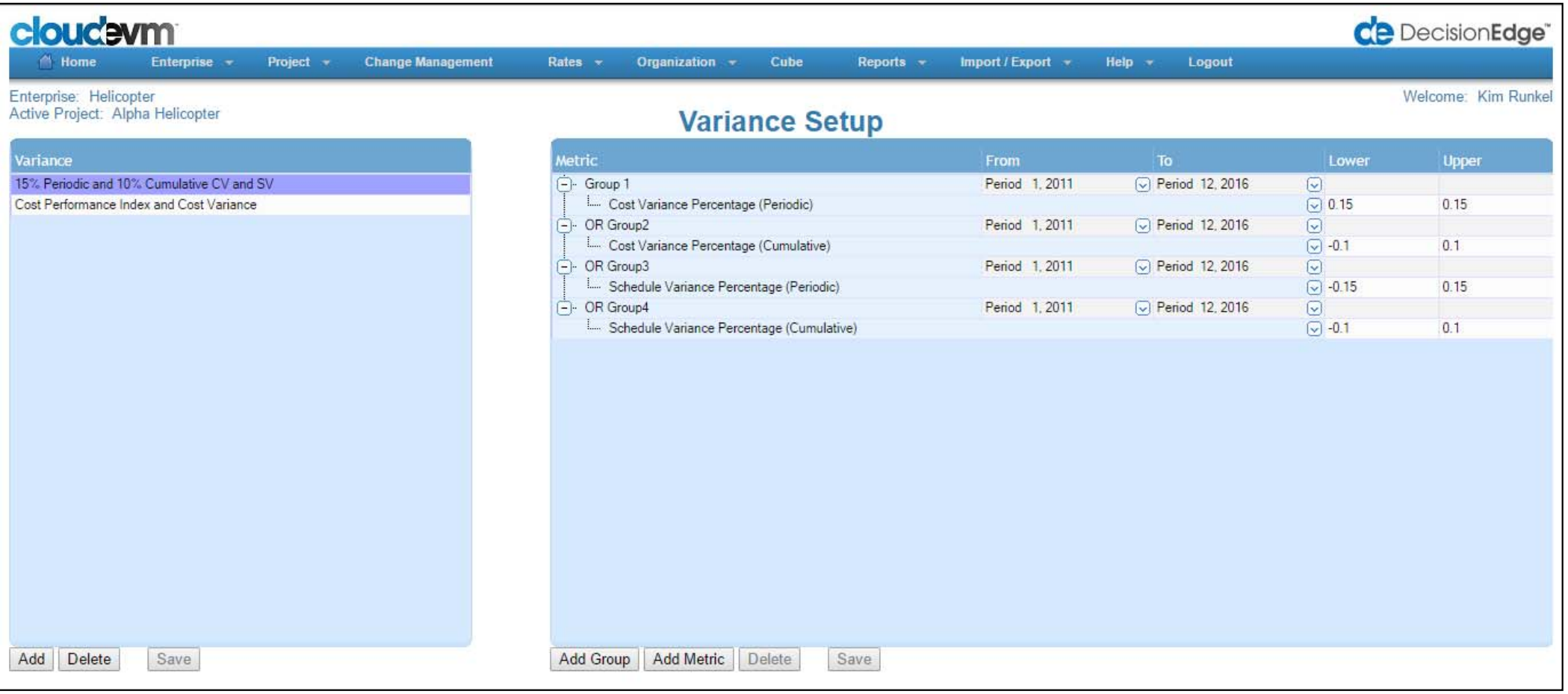
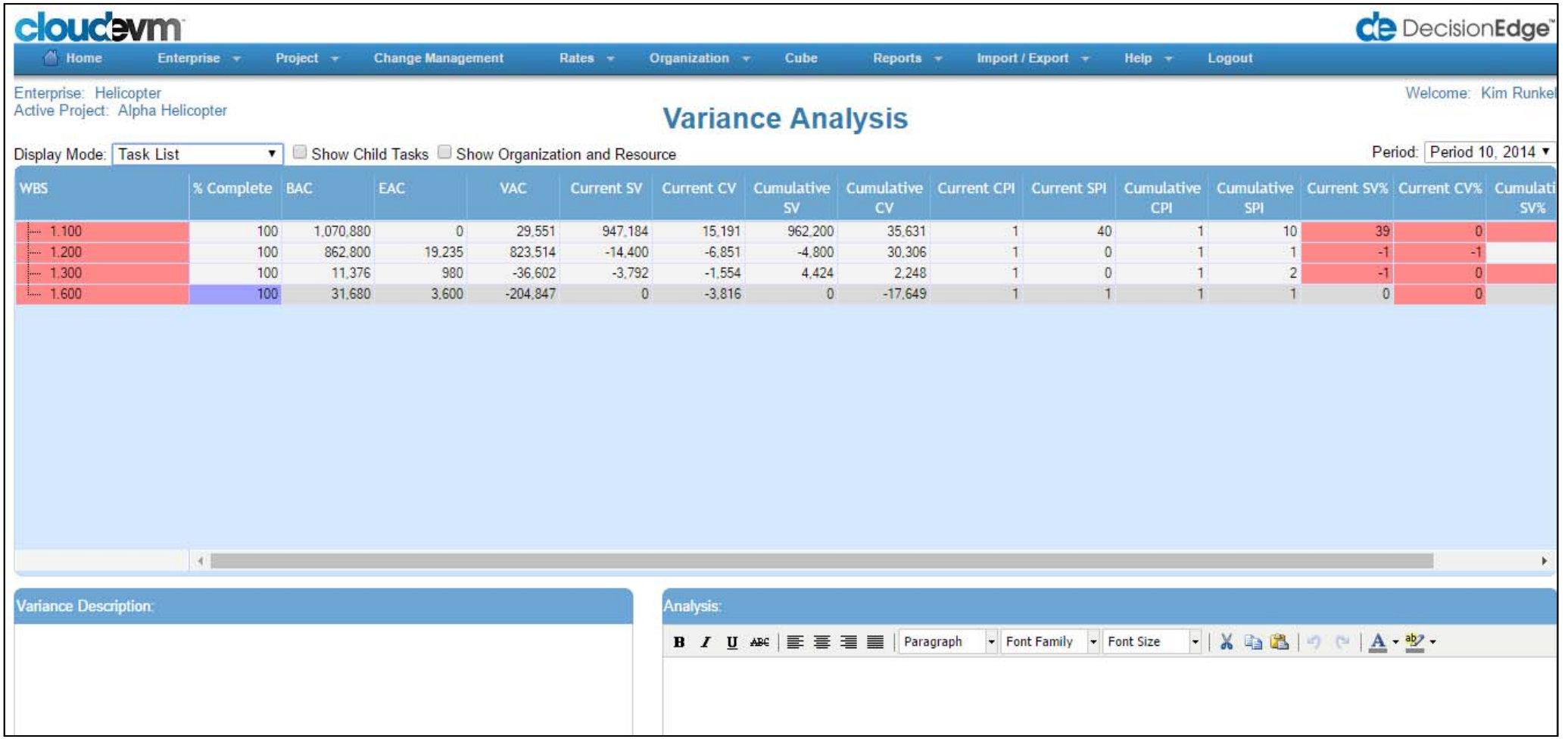
Reports
Import / Export
Help
Logout
Enterprise: Helicopter
Active Project: Delta Helicopter
Import Process
Import Name
Category
Status
Source
Last Run
Download
Forecast Delta Helicopter
Forecast
Not Complete
Delta Helicopter Forecast.xlsx
Download
Baseline Budget Delta Helicopter
Baseline
Not Complete
Download
Actual Cost Delta Helicopter
Actual
Not Complete
Delta Helicopter Actual Cost.xlsx
Download
Performance Delta Helicopter
Baseline
Not Complete
Delta Helicopter Performance.xlsx
Download
Import Now
This project has no import errors
View WBS
View Assignments
View Performance

Variance Setup

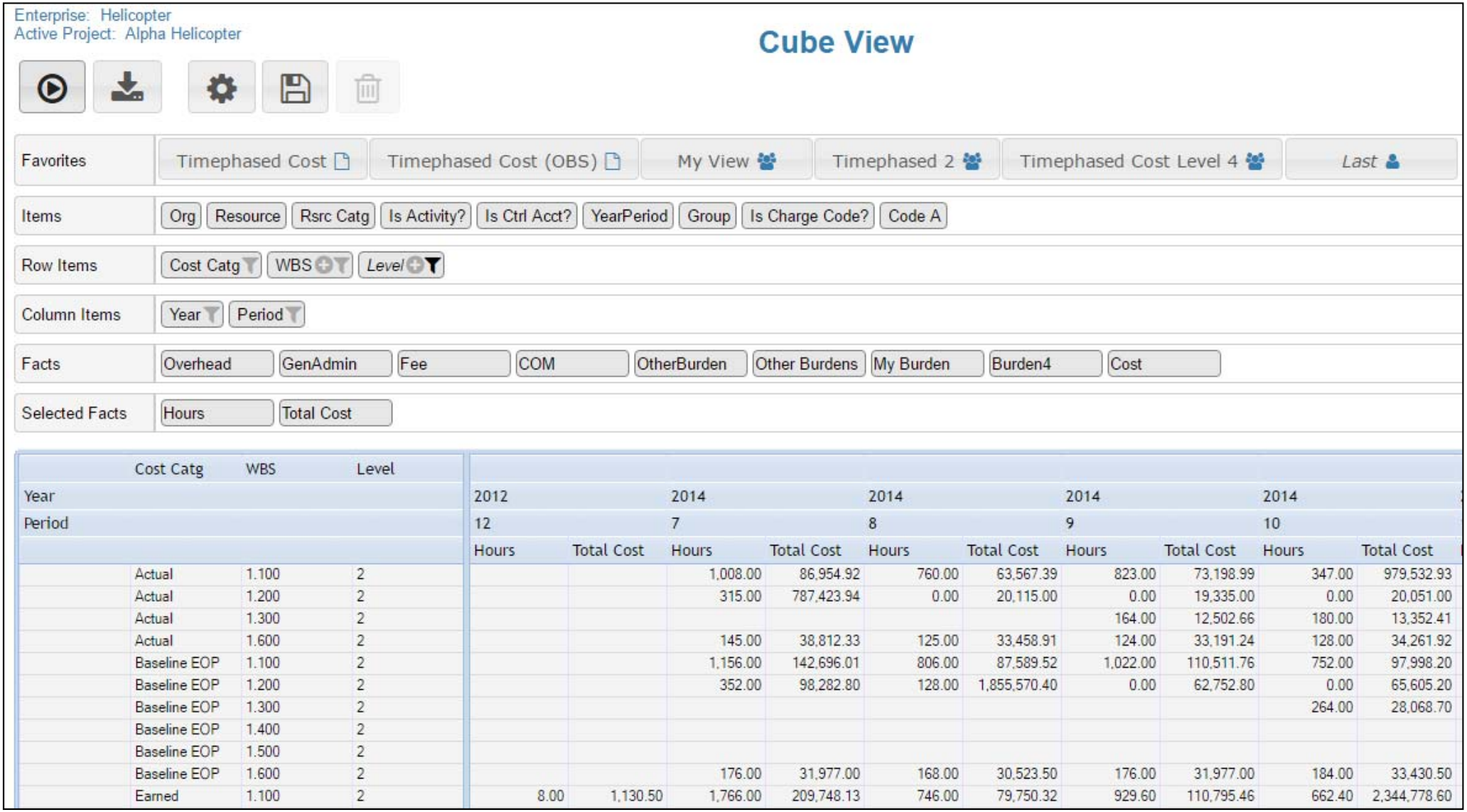


Variance Analysis



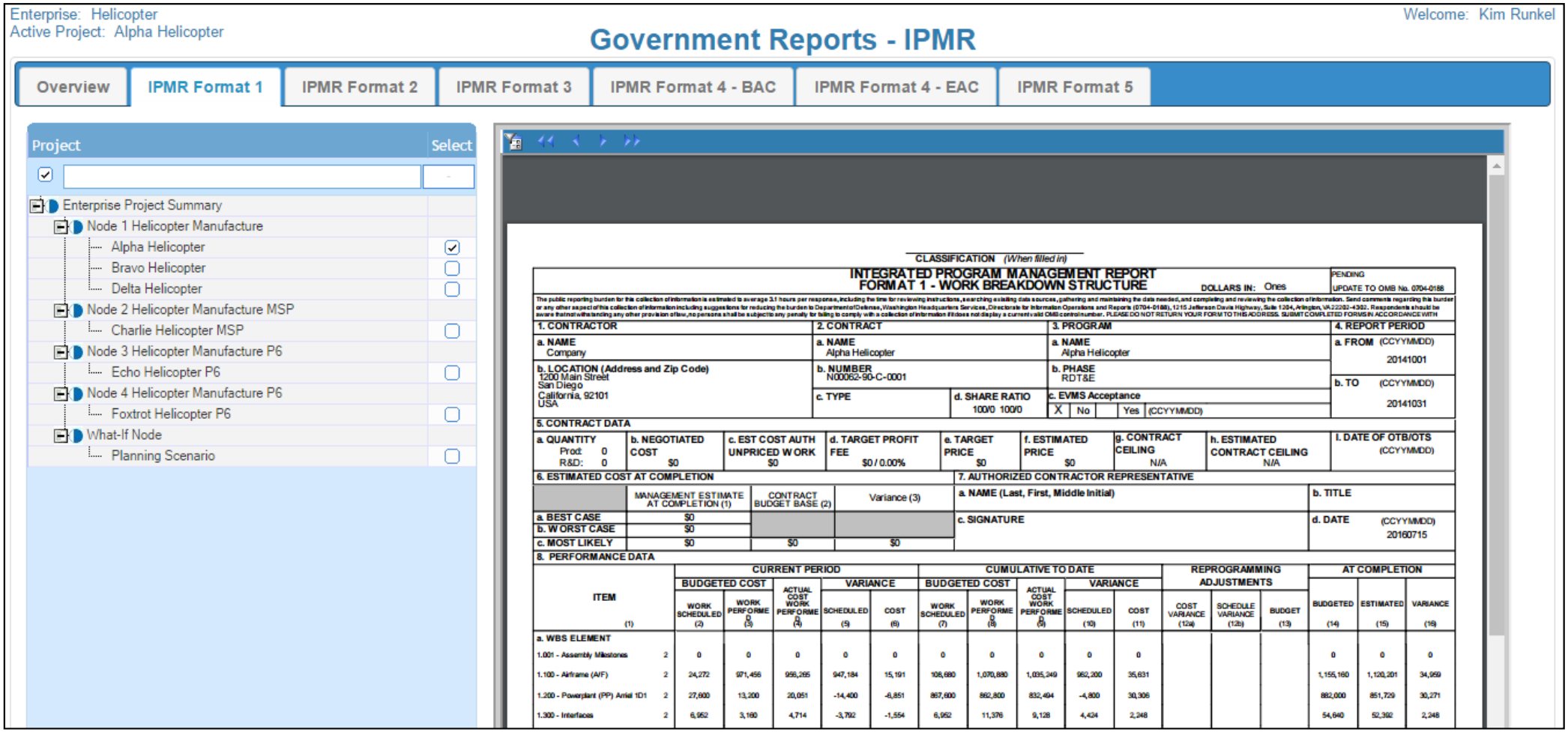
WBS	% Complete	BAC	EAC	VAC	Current SV	Current CV	Cumulative SV	Cumulative CV	Current CPI	Current SPI	Cumulative CPI	Cumulative SPI	Current SV%	Current CV%	Cumulati SV%
1.100	100	1,070,880	0	29,551	947,184	15,191	962,200	35,631	1	40	1	10	39	0	
1.200	100	862,800	19,235	823,514	-14,400	-6,851	-4,800	30,306	1	0	1	1	-1	-1	
1.300	100	11,376	980	-36,602	-3,792	-1,554	4,424	2,248	1	0	1	2	-1	0	
1.600	100	31,680	3,600	-204,847	0	-3,816	0	-17,649	1	1	1	1	0	0	

Cube (Pivot Table)



	Cost Catg	WBS	Level									
Year				2012		2014		2014		2014		2014	
Period				12		7		8		9		10	
				Hours	Total Cost	Hours	Total Cost	Hours	Total Cost	Hours	Total Cost	Hours	Total Cost
	Actual	1.100	2			1,008.00	86,954.92	760.00	63,567.39	823.00	73,198.99	347.00	979,532.93
	Actual	1.200	2			315.00	787,423.94	0.00	20,115.00	0.00	19,335.00	0.00	20,051.00
	Actual	1.300	2							164.00	12,502.66	180.00	13,352.41
	Actual	1.600	2			145.00	38,812.33	125.00	33,458.91	124.00	33,191.24	128.00	34,261.92
	Baseline EOP	1.100	2			1,156.00	142,696.01	806.00	87,589.52	1,022.00	110,511.76	752.00	97,998.20
	Baseline EOP	1.200	2			352.00	98,282.80	128.00	1,855,570.40	0.00	62,752.80	0.00	65,605.20
	Baseline EOP	1.300	2									264.00	28,068.70
	Baseline EOP	1.400	2										
	Baseline EOP	1.500	2										
	Baseline EOP	1.600	2			176.00	31,977.00	168.00	30,523.50	176.00	31,977.00	184.00	33,430.50
	Earned	1.100	2	8.00	1,130.50	1,766.00	209,748.13	746.00	79,750.32	929.60	110,795.46	662.40	2,344,778.60

Government Format Reports



Growing a Repeatable and Proven System

Unlocking Earned Value Potential

Future of BDO and Earned Value

- Built an internal EV team
- Acquired CloudEVM licenses
- Implemented EV on two additional contracts
  - Using different EV methods
  - Planning and collecting cost at a detailed level for better variance analysis

Lessons Learned

- Consider outsourcing EV work
- Keep it simple, but detailed enough to obtain meaningful EV data
- It’s ok to use a manual approach to update a tool