

ORACLE

Strumenti Oracle a supporto dell'analisi dei rischi di progetto

Stefano Lentini, Principal Sales Consultant

Oracle Primavera Global Business Unit

Milano, 3 Ottobre 2013

- Oracle Primavera EPPM
- Enterprise Risk Register
- Integrated Risk Analysis
- Enterprise Risk Visibility
- What's next
- Q&A



- Oracle Primavera EPPM
- Enterprise Risk Register
- Integrated Risk Analysis
- Enterprise Risk Visibility
- What's next
- Q&A



Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decision.

The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

New Primavera Footprint

ORACLE' | PRIMAVERA

Oracle Business Intelligence Analytics & Reporting

Primavera Unifier

Capital planning Cost control Change control Submittals & RFIs Facility Management Real Estate Management

Primavera P6 EPPM

Project Management Planning & Scheduling Progress and Statusing Risk Management Resource Management Portfolio Management

Standards-based Open Platform Primavera API, Web Services & Event Enablement **Risk Analysis**

Simulation Monte Carlo Cash Flow Analysis

AutoVue

Document Visualization and Collaboration

Primavera Gateway

SAP, E-Business, JDE, PeopleSoft, Fusion, UCM, UPK, EAM, Agile PLM

- Oracle Primavera EPPM
- Enterprise Risk Register
- Integrated Risk Analysis
- Enterprise Risk Visibility
- What's next
- Q&A



Primavera EPPM – Risk Management

E Dash	 *	Portfo	6	Projects	-	Resources		6				
				<u>@</u>		<u> </u>						
Workspace				ım Usage	Details	s Tools	Issues	Risks	Documents			
Risks of H	larbour Poi	nte Assiste	ed Living Cen	iter								
日 🕖 🖓	🗶 🚜 🗈	副目離	₩, - 🕞	- Y-IX	🛃 🔒) 🍓 🛄						
D 🛆	Name	Name		Туре	S	itatus	Owner		Probability	Schedule	Cost	Score
🔞 R001	Concrete s	Concrete supply constrained		Threat	Threat Active		Concrete Foundati	Concrete Foundation Subco		H (20 to 40)	L (\$45,000.00 to	28
🍘 R002	Site acces	Site access restricted for 2 weeks			C	Open	Project Managers		VH (70% or higher) M (10 to 20)	H (\$150,000.00	36
😥 R003	New roof o	oating cuts re	oof install time	Opport	unity C	Open	Roofing Subcontra	ctor	H (50% to 70%)	M (10 to 20)	VL (Up to \$45,0	14
🔞 R004	Poor grour	d conditions		Threat	C	Open	Project Managers		L (10% to 25%)	L (5 to 10)	L (\$45,000.00 t	3
🔞 R005	Failed elec	trical inspectio	n	Threat	Threat Rejected (Closed)		Electrician		VL (Up to 10%) L (5 to 10)		VL (Up to \$45,0	1
🍘 R006	Weather d	elay due to ur	nusually wet wtl	her Threat	Threat Active		Project Managers	Project Managers		M (10 to 20)	VL (Up to \$45,0	14
🎯 R007	Contractor	financial insta	ability	Threat	Pr.	Managed (Closed)	Project Managers		M (25% to 50%)	M (10 to 20)	H (\$150,000.00	20
🎯 R008	Pre-cast s	ucture out of	spec	Threat	P	roposed	Concrete Foundat	ion Subc	L (10% to 25%)	VH (40 or hig	her) M (\$90,000.00 t	24
🎯 R009	Permit dela	iy		Threat	R	Rejected (Closed)	Project Managers	Project Managers		H (20 to 40)	L (\$45,000.00 t	4
री					- ·		ш			1	1	1
Response												B
ት 🗞 🗶	🎹 🗕									Risk	🍩 R001	
Active	ID		Name				Respons	Response Type			Status	Start I
+	R001	-RP01	Spend cont	ingency fund	s to cover	r higher rates	Accept					
÷ 🔽	R001	-RP02	Contract w	ith alternativ	e supplier:	s	Reduce					

Integrated Risk Response Planning

Risk Register

- Industry standard risk identification & assessment
- Moves risk management out of Excel & into the system of record
- Single / Multiproject
- Project and Activity level
- Risk Exposure calculation

Risk Response Planning

- Create multiple response plans with detailed actions
- Link Actions to Project Activities
- Create an active risk management feedback loop

EPPM - Risk Management

- Configurable Risk Scoring Matrix, Cost, Schedule and custom thresholds (e.g. Quality, Safety,...)
- Risk Categories, User Defined Fields

Enterprise	Data									1
		Risk Scoring	g Matrices							
		804	• 🗙 🕹 🗈 🛍 🕅	s A. III - I	6- 1 1 X 8	- 🙈 🛄				
Projects			Name	Matrix Size	Probability Thre		Impact Thr	resholds	Tolerance	
Activities		Harbour	Pointe Risk Scoring Matrix	5×5	Harbour Pointe Probabilit	y Threshold Hark	our Pointe Cost Thresh	old, Harbour Pointe Sc	he Harbour Pointe Tolera	
Resources		Cordova	Risk Scoring Matrix	5×5	Cordova Probability Thre	shold Qua	lity Threshold (5 level), (Cordova Cost Thresho	ld Cordova Tolerance T	
		Tech Pro	jects Risk Scoring Matrix	3×3	Tech Projects Probability	Threshold Tecl	h Projects Cost Thresho	ld, Tech Projects Sche	ed Tech Projects Tolera	r
EL Pictures		Maintena	ance Risk Scoring Matrix	5×5	Maintenance Probability	Mair	tenance Cost Impact, M	aintenance Schedule I	m Maintenance Toleran	iC.
		New Ris	k Scoring Matrix	5×5	Maintenance Probability	Mair	ntenance Cost Impact, S	el) Maintenance Toleran	id.	
		Matrice r	ischi SLENT	5×5	Probabilità rischio	Impa	atto Costi rischio, Impatto	o Tempi rischio	Tolleranza Rischio	
Risk Thre	esholds	Dural and lite	and the second Differences							
Risk UDF	Fs	Probability	and Impact Diagram							
- Issues		♣월 ♣월								1
			Probability	Severity	1 Severity:	2 Seve	ritv 3 Seve	erity 4	Severity 5	
Issue Co		Very High		6	12	18	36	72		1
Issue UD	DFs	High		4	7	14	28	56		
Documents		Medium		3	5	10	20	40		
Docume	nt Categories	Low		2	3	6	12	24		
	nt Statuses	Very Low		1	1	2	4	8		
ability	ni olaluses									
			Impacts							
Code	Name	Rar	ት 🗙							
	Very High	>70%	ч ∧							
	High	>50%	Туре		Name	Severity 1	Severity 2	Severity 3	Severity 4	
	Medium	>25%	Schedule Impact by value	e Harbour Po	ointe Schedule Threshold	<=5	>5	>10	>20	>4
	Low	>10%	Cost Impact by value	Harbour P	ointe Cost Threshold	<=45,000.00	>45,000.00	>90,000.00	>150,000.00	>
	Very Low	<=10%	User-defined Impact	Safety Th	reshold (5 level)	Slight Injury / First A	id Minor Iniury	Maior Iniury	1 to 3 fatalities or PTDs	M
	VCI Y LOW									



EPPM - Templates

- Help establish and share best practices
- Speed-up and standardize new project or wbs creation
- Created ex-novo or from actual successful projects

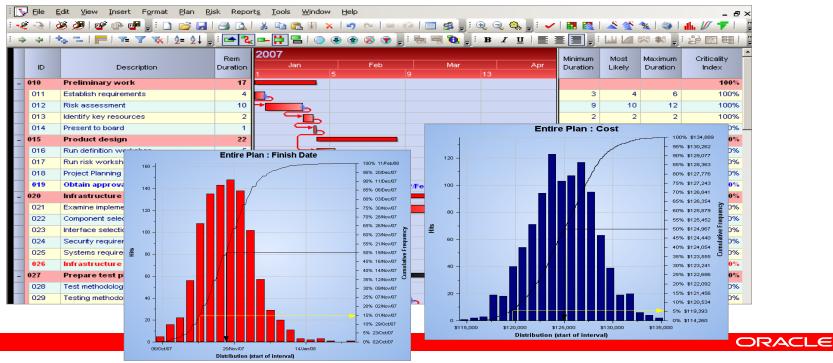
General Advanced								
Enter or select values in the required fields (*) belo for the new template, then click the Advanced tab	w. Optionally choose a project or template to use as the to choose data types to copy.	General Advanced Choose the project data to copy to the new project.						
Template ID *	NEWBUILD_01		Project & WBS Data	Include				
Template Name *	New Building Project		Documents	V				
			Funding Sources					
Description			ISSUES					
beschption			Risks	V				
			Activities	V				
EPS *	Engineering & Construction		Notebooks	V				
Responsible Manager *	E&C		WBS Milestones					
. 5		-	High Level Resource Planning Assignments	V				
Copy from existing project or template	City Center Office Building Addition	3	Reports	V				
	 Use Actual Costs and Units 		Summary Data					
	O Use Planned Costs and Units		Activity Data	Include				
* required fields			Activity Codes	V				
			Expenses	V				
			Notebooks	V				
			Relationships	V				
Help	Create	Canc	Resource and Role Assignments	V				
			Steps	V				
			Financial Period Data	V				
			∃ Baselines	Include				
© 2011 Oracle Corporation – All Rights R	eserved		No baselines exist for the selected project.					
$\otimes 2011$ Oracle Corporation – All Rights R	C3C1VCU							

- Oracle Primavera EPPM
- Enterprise Risk Register
- Integrated Risk Analysis
- Enterprise Risk Visibility
- What's next...
- Q&A



Primavera Risk Analysis Tool

- Multi-Point Activity Analysis
- Simulations using Montecarlo method
- Pre/post mitigation Analysis & Cash Flow calculation



© 2013 Oracle Corporation – All Rights Reserved

- Oracle Primavera EPPM
- Enterprise Risk Register
- Integrated Risk Analysis
- Enterprise Risk Visibility
- What's next...
- Q&A



Enterprise Risk Visibility

- Leverage P6 Analytics Business Intelligence to analyze Risk Data
- Drill-down directly into P6 EPPM for details and actions

Jountry II decision (Constraint) (Constraint	0)414	Score 119.00 42.00 24.00	\$61,563	Concrete supply constrained Poor ground conditions Site access restricted for 2 weeks Weather delay due to unusually wet weather Client / User Involvement External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay Fabrication delays	Threa Threa Threa Threa Threa Threa Threa	Status Active Open Open Active sk Exposure	Project Ris Project Ris Projec	sks <u>sks</u> sks	ا کارینی کارینی	Contemporate in the second secon	de Para Contrato supply con Site access restricte New roof coating cu Poor ground conditi Pade descrical insp Weather delay due Contractor financial Pre-cast sucture or Permit delay	Activities Team isted Living Centre Activities Team isted Living Centre Activities Team isted Living Centre ister and the set of a 2 weeks to roof instal time ons action to unusually wet withe instability	Type Threat Opportunity Threat Threat	Active Tools	Project Managers Roofing Subcontracto Project Managers Electrician Project Managers Project Managers Concrete Foundation	L (10% to 25%) VL (Up to 10%) H (50% to 70%) M (25% to 50%)	Schedule H (20 to +0)	Cost L (445,000.00 to H (4150,000.00 to V: (Up to 445,0. L (445,000.00 t. V: (Up to 445,0. H (4150,000.00 t) H (4150,000.00 t) L (445,000.00 t)	36 14 3 1 14 20 24
Dhina PRODOO)414	42.00	\$61,563	Poor ground conditions Site access restricted for 2 weeks Weather delay due to unusually wet weather Client / User Involvement External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat	Open Open Active	Project Ris Project Ris Project Ris by Location	sks <u>sks</u> sks	ا کارینی کارینی	isks of Hat ■ <t< th=""><th>Hour Pointe Ass Corarde supply cor Site access restricts New roof coating c. Poor ground conditi- Raide electrical insp Westher delay due Contractor financial Per-cast sucture on Permit delay</th><th>isted Living Cente the destination of the second d for 2 weeks ts roof instal time ons acction to unusually wet withe instability</th><th>Type Type Threat Opportunky Threat Threat Threat Threat Threat</th><th>Correlation Correlation Correl</th><th>Owner Concrete Foundation Project Managers Roofing Subcontracto Project Managers Electrician Project Managers Concrete Foundation</th><th>Probability Subco H (S0% to 70%) VH (70% or higher H (S0% to 70%) L (10% to 25%) V(Lip to 10%) H (S0% to 70%) H (S0% to 70%) M (25% to 50%) M (25% to 50%) Subc L (10% to 25%)</th><th>Schedule H (20 to 40) M (10 to 20) M (10 to 20) L (5 to 10) L (5 to 10) M (10 to 20) W (10 to 20) W (40 or higher</th><th>L (\$45,000.00 to H (\$150,000.00 to VL (Up to \$45,0. L (\$45,000.00 to VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 to M (\$90,000.00 to</th><th>28 </th></t<>	Hour Pointe Ass Corarde supply cor Site access restricts New roof coating c. Poor ground conditi- Raide electrical insp Westher delay due Contractor financial Per-cast sucture on Permit delay	isted Living Cente the destination of the second d for 2 weeks ts roof instal time ons acction to unusually wet withe instability	Type Type Threat Opportunky Threat Threat Threat Threat Threat	Correlation Correl	Owner Concrete Foundation Project Managers Roofing Subcontracto Project Managers Electrician Project Managers Concrete Foundation	Probability Subco H (S0% to 70%) VH (70% or higher H (S0% to 70%) L (10% to 25%) V(Lip to 10%) H (S0% to 70%) H (S0% to 70%) M (25% to 50%) M (25% to 50%) Subc L (10% to 25%)	Schedule H (20 to 40) M (10 to 20) M (10 to 20) L (5 to 10) L (5 to 10) M (10 to 20) W (10 to 20) W (40 or higher	L (\$45,000.00 to H (\$150,000.00 to VL (Up to \$45,0. L (\$45,000.00 to VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 to M (\$90,000.00 to	28
pain MFG007				Site access restricted for 2 weeks Weather delay due to unusually wet weather Client / User Involvement External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat	Open Active	Project Ris	<u>sks</u>	ا کارینی کارینی	Contemporate in the second secon	de Para Contrato supply con Site access restricte New roof coating cu Poor ground conditi Pade descrical insp Weather delay due Contractor financial Pre-cast sucture or Permit delay	A A, I III - IIII - IIIII - IIIIII	Type Threat Opportunity Threat Threat Threat Threat Threat Threat Threat Threat Threat	Status Active Open Open Rejected (Closed) Active Managed (Closed) Proposed	Concrete Foundation Project Managers Roofing Subcontracto Project Managers Electrician Project Managers Concrete Foundation	Subcol. H (50% to 70%) VH (70% or higher H (50% to 70%) L (10% to 25%) VL (Up to 10%) H (50% to 70%) M (25% to 50%) Subcom L (10% to 25%)	H (20 to 40) r) M (10 to 20) M (10 to 20) L (5 to 10) L (5 to 10) M (10 to 20) M (10 to 20) M (10 to 20) M (10 to 20) W (40 or higher	L (\$45,000.00 to H (\$150,000.00 to VL (Up to \$45,0. L (\$45,000.00 to VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 to M (\$90,000.00 to	28
pain MFG007				Weather delay due to unusually wet weather Client / User Involvement External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat Threat	Active	Project Ris	sks		D A R001 R002 R003 R004 R005 R005 R006 R007 R008 R009 R009 R009	Name Contracte supply con Site access restricts New roof coaling c. Poor ground conditi Failed electrical ingo Weather delay due Contractor financial Pre-cast stucture of Permit delay	strained d for 2 weeks ts roof install time ons ection to unusually wet wthe instability	Threat Threat Opportunity Threat Threat Threat Threat Threat	Status Active Open Open Rejected (Closed) Active Managed (Closed) Proposed	Concrete Foundation Project Managers Roofing Subcontracto Project Managers Electrician Project Managers Concrete Foundation	Subcol. H (50% to 70%) VH (70% or higher H (50% to 70%) L (10% to 25%) VL (Up to 10%) H (50% to 70%) M (25% to 50%) Subcom L (10% to 25%)	H (20 to 40) r) M (10 to 20) M (10 to 20) L (5 to 10) L (5 to 10) M (10 to 20) M (10 to 20) M (10 to 20) M (10 to 20) W (40 or higher	L (\$45,000.00 to H (\$150,000.00 to VL (Up to \$45,0. L (\$45,000.00 to VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 to M (\$90,000.00 to	28
pain MFG007				weather Client / User Involvement External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Three Ri Three Three Three Three Three Three Three Three		by Location			R002 R003 R004 R004 R005 R006 R007 R008 R008 R009 R009 R009 R009	Site access restricts New roof coating c. Poor ground conditi Failed electrical insp Weather delay due Contractor financial Pre-cest stucture or Permit delay	d for 2 weeks ts roof install time ons ection to unusually wet withe instability	Threat Threat Opportunity Threat Threat Threat Threat Threat	Open Open Open Rejected (Closed) Active Managed (Closed) Proposed	Project Managers Roofing Subcontracto Project Managers Electrician Project Managers Project Managers Concrete Foundation	VH (70% or higher H (50% to 70%) L (10% to 25%) VL (Up to 10%) H (50% to 70%) M (25% to 50%) Subc L (10% to 25%)	r) M (10 to 20) M (10 to 20) L (5 to 10) L (5 to 10) M (10 to 20) M (10 to 20) VH (40 or higher	H (\$150,000.00 VL (Up to \$45,0. L (\$45,000.00 t. VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 t) M (\$90,000.00 t)	36 14 3 1 14 20 24
pain MFG007				Client / User Involvement External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threa Threa Threa Threa Threa Threa Threa	sk Exposure				R003 R004 R004 R005 R006 R007 R008 R009 R009 R009 R009	New roof coating cu Poor ground conditi Failed electrical insp Weather delay due Contractor financial Pre-cast structure or Permit delay	ts roof install time ons ection to unusually wet withe instability	Opportunity Threat Threat Threat Threat Threat	Open Open Rejected (Closed) Active Managed (Closed) Proposed	Roofing Subcontracto Project Managers Electrician Project Managers Project Managers Concrete Foundation	r H (50% to 70%) L (10% to 25%) VL (Up to 10%) H (50% to 70%) M (25% to 50%) Subc L (10% to 25%)	M (10 to 20) L (5 to 10) L (5 to 10) M (10 to 20) M (10 to 20) VH (40 or higher	VL (Up to \$45,0. L (\$45,000.00 t. VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 t r) M (\$90,000.00 t	14 3 1 14 20 24
pain MFG007				External Business Impacts Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threa Threa Threa Threa Threa Threa Threa	sk Exposure				 R005 R006 R007 R008 R009 R009 Response F 	Failed electrical insp Weather delay due Contractor financial Pre-cast stucture or Permit delay	ection to unusually wet wthe instability	Threat Threat Threat Threat	Rejected (Closed) Active Managed (Closed) Proposed	Electrician Project Managers Project Managers Concrete Foundation	VL (Up to 10%) H (50% to 70%) M (25% to 50%) Subc L (10% to 25%)	L (5 to 10) M (10 to 20) M (10 to 20) VH (40 or higher	VL (Up to \$45,0. VL (Up to \$45,0. H (\$150,000.00 r) M (\$90,000.00 t	<mark>1</mark> 14 20 24
	772	24.00		Product Scope Creep Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threa Threa Threa Threa Threa Threa		r ^ ¬ < □ > L ↓ J			 R006 R007 R008 R009 R009 Response F 	Weather delay due Contractor financial Pre-cast stucture or Permit delay	to unusually wet wthe instability	r Threat Threat Threat	Active Managed (Closed) Proposed	Project Managers Project Managers Concrete Foundation	H (50% to 70%) M (25% to 50%) Subc L (10% to 25%)	M (10 to 20) M (10 to 20) VH (40 or higher	VL (Up to \$45,0 H (\$150,000.00 r) M (\$90,000.00 t	14 20
	772	24.00		Product/Technological Complexity Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threa Threa Threa Threa Threa		r ^ ¬ < □ > L ↓ J			R008 R009	Pre-cast stucture of Permit delay		Threat	Proposed	Concrete Foundation	Subc L (10% to 25%)	VH (40 or higher	r) M (\$90,000.00 t	24
	72	24.00		Sales Management Buy-in Staff Turnover Unrealistic Expectations Delivery delay	Threa Threa Threa Threa		<			😨 ROD9 C Response F	Permit delay	£ of spec							
	72	24.00		Staff Turnover Unrealistic Expectations Delivery delay	Threa Threa Threa		<												
	772	24.00		Unrealistic Expectations Delivery delay	Threa Threa			E											
	72	24.00		Delivery delay	Threa			2.00			Plans								8
	72	24.00	\$47,250						- 1 - C	ው 🗞 🗶	∭ ≁						Risk 🔞	R001	
Inited Kingdom IT00351				Eabrication delays				1		ctive	ID R001-RP01	Name	gency funds to co	war bishar yabac	Response T Accept	ype Owner	Sta	atus	Sta
Inited Kingdom IT00351					Threa			10 m	146		R001-RP02		alternative supp		Reduce				
Inited Kingdom IT00351				Line debugging issues	Threa				1										
-	L	39.00	\$56,875	Client / User Involvement	Threa		Pac	affie											
				External Business Impacts	Threa		000												
				Scope Creep	Threa				~~~	e 11									
				Senior Management Buy-in	Threa					Respon	se Plans Activitie	s Description	Cause Effect	Notes Probabi	illity and Impact Diagra	im			
				Staff Turnover	Threa		Ē			· · · · ·					-	H			
				Technological Complexity	Threa					SOL	штн								
				Unrealistic Expectations	Threa					AME	RICA		1 a 👘						
Jnited States of NRG008	70	112.00	\$43,725	Difficulty troubleshooting alarm issue	Threa										.				
America			4	Extensive leak repair	Threa														
				Lack of skilled labor	Threa														
				Valve installation issues	Threa														
			-																

5,000 km



(c) 2010, NAVTEQ

Detailed Risk by Location

- Oracle Primavera EPPM
- Enterprise Risk Register
- Integrated Risk Analysis
- Enterprise Risk Visibility
- What's next...
- Q&A



P6 EPPM Risk Management Planned Enhancements

As per Oracle policies, future product roadmaps cannot be published over the Internet or any other media.

We will be happy to share these information directly with our existing Customers.



SOFTWARE. HARDWARE. COMPLETE.