

تحديات

كيف نستخدم تقنيات ذكاء الاعمال
في إدارة أداء الشركات الهندسية والمقاولات

CHALLENGES

HOW DO ENGINEERING AND CONTACTORS MAKE
EFFICIENT OPERATION PERFORMANCE
MANAGEMENT WITH BUSINESS INTELLIGENCE?

ALAA HADY
MANAGING PARTNER
ADVANCED MANAGEMENT
SOLUTIONS

www.amsol.ca





01

الثورة الصناعية
الأولى

02

الثورة الصناعية
الثانية

03

الثورة الصناعية
الثالثة

04

~~ثورة المعلومات~~

ثورة

المحاور

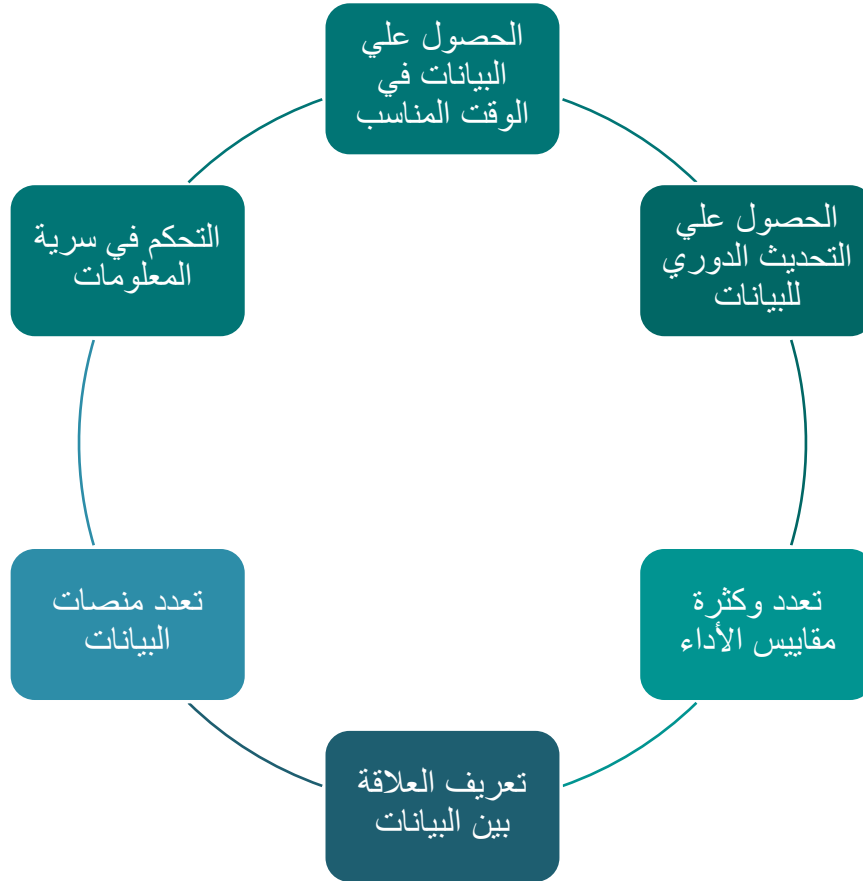
- ما هي الصعوبات التي تواجهها في جمع مؤشرات الأداء الشركات الهندسية والمقاولات؟

- هل توجد جميع البيانات في نظام واحد ام عدة أنظمة؟

كيف نبني لوحة مؤشرات قياس الأداء للشركات

- كيف نستعمل تقنيات الذكاء الصناعي في تحسين اداء إدارة الشركات الهندسية والمقاولات؟

تحديات تحليل وتنقية وعرض البيانات

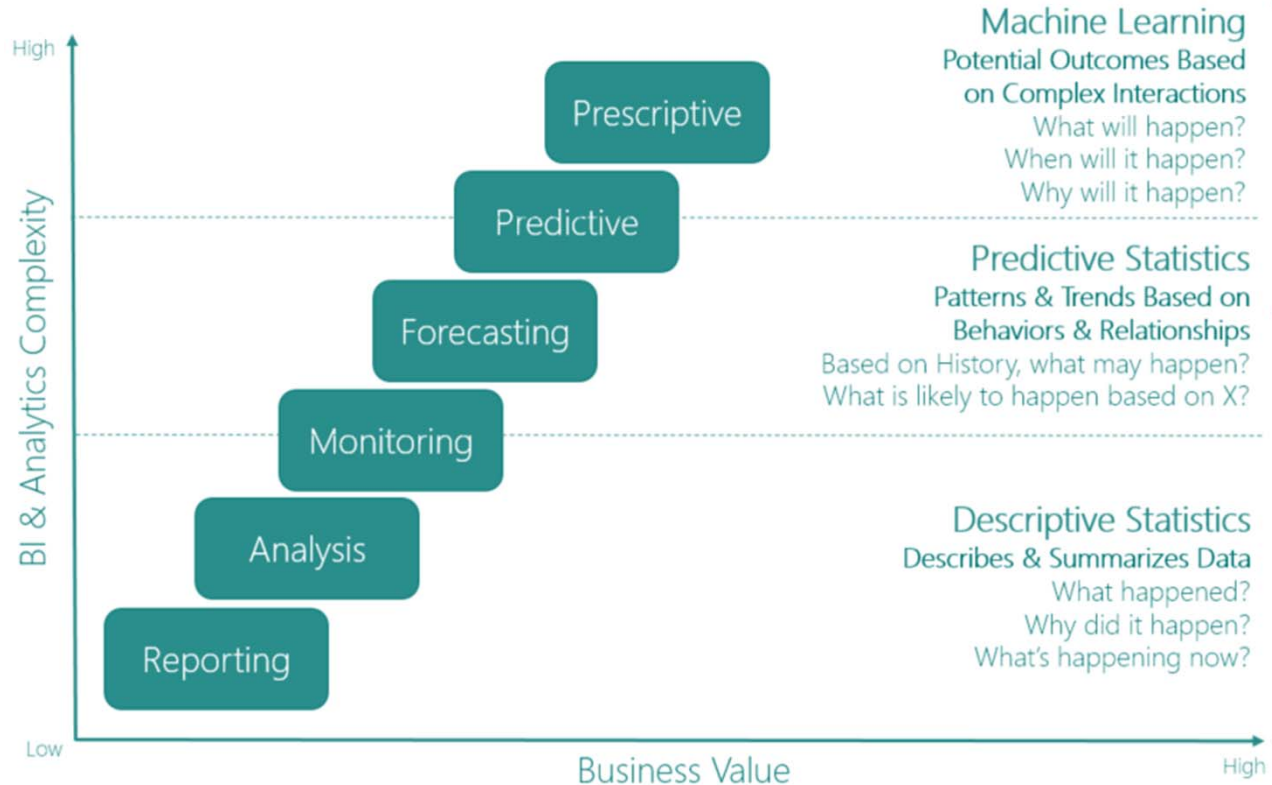


التحليل الذكي للأعمال Business Intelligence

تحليل الماضي لتحسين المستقبل

وضع أطر لإدارة الأداء لتحديد المؤشرات
الرئيسية وتتبعها وتوفير التحليل الذكي
للأعمال.

Maturity Model



The 25 Most Important Project Management KPIs



Timeliness KPIs

Cycle Time
On-Time Completion Percentage
Time Spent
Number Of Adjustments To The Schedule
FTE Days Vs. Calendar Days
Planned Hours Vs. Time Spent
Resource Capacity
Resource Conflict YOY



Budget KPIs

Budget Variance
Budget Creation (Or Revision) Cycle Time
Line Items In Budget
Number Of Budget Iterations
Planned Value
Cost Performance Index



Quality KPIs

Customer Satisfaction/Loyalty
Net Promoter Score
Number Of Errors
Customer Complaints
Employee Churn Rate



Effectiveness KPIs

Number Of Project Milestones Completed On Time With Sign Off
Number Of Returns
Training/Research Needed For Project
Number Of Cancelled Projects
Number Of Change Requests
Billable Utilization



Bonus Project Management KPI

Return On Investment (ROI)

Essential Project KPIs

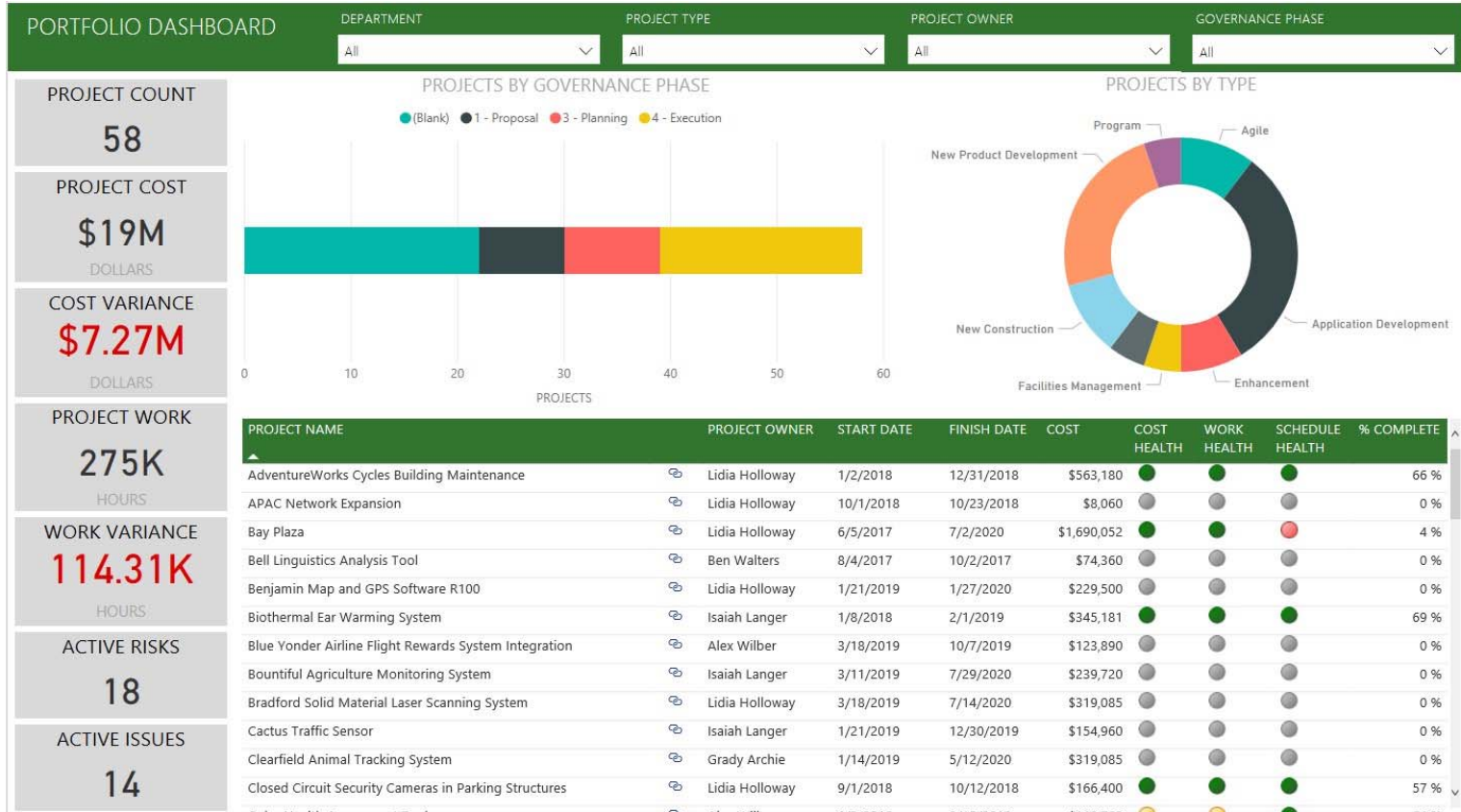
Planned Value (PV) project KPI
Actual Cost (AC) project KPI
Earned Value (EV) project KPI
Return on Investment (ROI)
Cost Variance (CV) (Planned Budget vs Actual Budget)
Cost Performance Index (CPI)
Cost of managing processes
Planned hours of work vs actual situation

Overdue project tasks / crossed deadlines
Schedule Variance (SV)
Schedule performance index (SPI)
Missed milestones
Percentage of tasks completed
Resource utilization
Percentage of projects completed on time
Percentage of cancelled projects

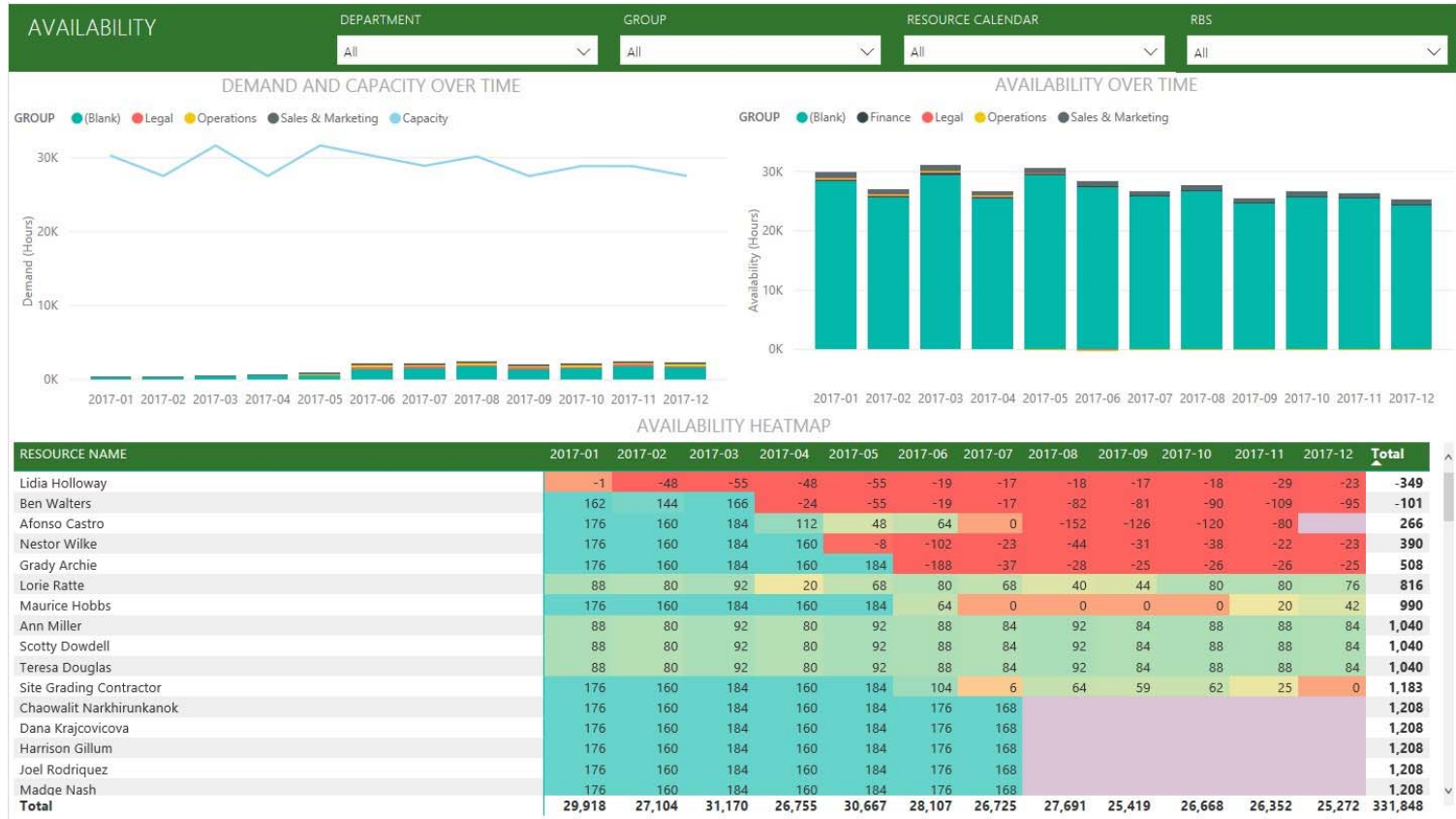
Construction KPIs

Number of accidents	Cost predictability: Design	Percentage of unapproved change orders	Return on value added (company)
Number of accidents per supplier	Cost predictability: Design and construction cost to rectify defects	Productivity (company)	Time for construction
Actual working days versus available working days	Customer satisfaction level	Profit margin: Actual versus baseline profit margin over project timeline	Time predictability: Construction
Cash balance: Actual versus baseline	Day to day project completion ratio: Actual versus baseline	Profit predictability (project)	Time predictability: Construction (client change orders)
Change orders: Clients	Fatalities	Profitability (company)	Time predictability: Construction (project leader change orders)
Change orders: Project manager	Interest cover (company) labour cost: Actual versus baseline labour cost over project timeline Liability ratio (over asset) on current versus completion comparison	Quality issues at available for use	Time predictability: Design
Client satisfaction: Client-specified criteria	Number of defects	Quality issues at end of defect rectification period	Time predictability: Design and construction
Client satisfaction product: Standard criteria	Outstanding money (project)	Ratio of value added (company)	Time taken to reach final account (project)
Client satisfaction service: Standard criteria	Percentage of equipment downtime	Repeat business (company)	Time to rectify defects
Cost for construction	Percentage of labour downtime	Reportable accidents (including fatalities)	
Cost predictability: Construction	Percentage of backlogs over project timeline	Reportable accidents (non-fatal)	
Cost predictability: Construction (client change orders)		Return on capital employed (company)	
Cost predictability; Construction (project leader change orders)		Return on investment (client)	

لوحات مؤشرات الأداء



Project resources management



Projects status

PROJECT STATUS
PROJECT
Employee Reporting Portal Upgrade for Contoso EU Offices

	COST	WORK	SCHEDULE	PROJECT MANAGER	STATUS DATE	PROJECT TYPE	START	FINISH	BASLINE FINISH	LAST PUBLISHED
	●	●	●	Lidia Holloway	7/23/2017	Application Development	4/3/2017	2/1/2019	1/25/2019	9/18/2017

WORK OVER TIME

COSTS OVER TIME

COMPLETED MILESTONES				UPCOMING MILESTONES			
MILESTONE	FINISH DATE	BASLINE FINISH	FINISH VARIANCE	MILESTONE	FINISH DATE	BASLINE FINISH	FINISH VARIANCE
Project Start	4/3/2017	4/3/2017	0	Design Complete	10/6/2017	10/5/2017	1
Scope Complete	4/20/2017	4/20/2017	0	Development Complete	5/24/2018	5/23/2018	1
Analysis/Software Requirement ...	6/12/2017	6/8/2017	2	Training Materials Complete	6/20/2018	6/19/2018	1
				Unit Testing Complete	9/5/2018	8/31/2018	3
				Integration Testing Complete	11/7/2018	10/30/2018	6
				Documentation Complete	12/27/2018	12/13/2018	10

PROJECT SITE

PROJECT SCHEDULE

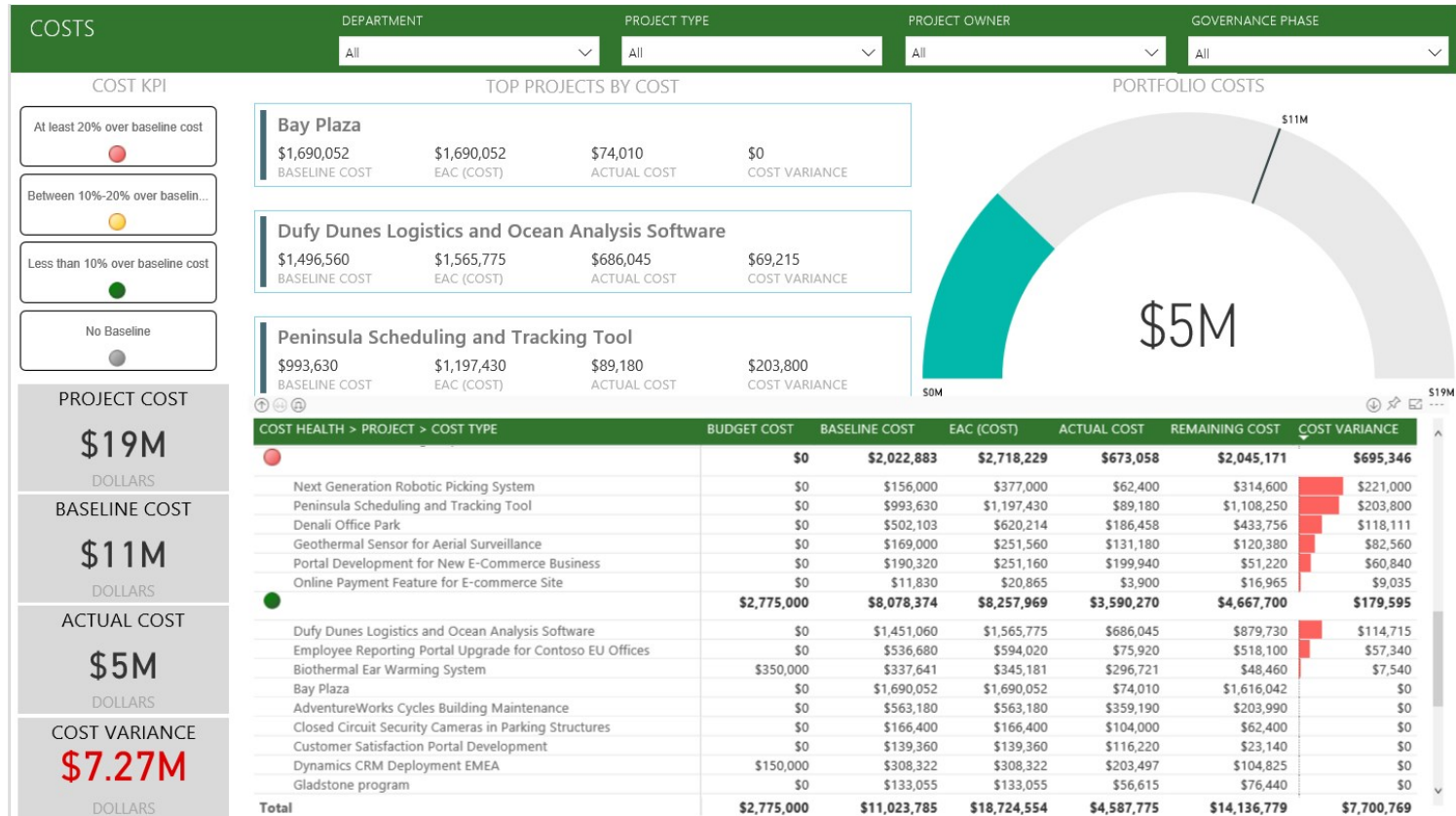
% COMPLETE

12%

0% 100%

SCHEDULE VARIANCE	5
	DAYS
WORK VARIANCE	340
	HOURS
COST VARIANCE	\$16.78K
	DOLLARS
PROJECT COST	\$594K
	DOLLARS
PROJECT WORK	8,336
	HOURS
ACTIVE ISSUES	6
ACTIVE RISKS	8

Project cost



PROJECT COST

\$19M

DOLLARS

BASELINE COST

\$11M

DOLLARS

ACTUAL COST

\$5M

DOLLARS

COST VARIANCE

\$7.27M

DOLLARS

Project risk and issues

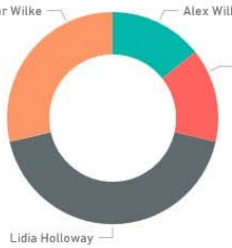
RISKS & ISSUES
Employee Reporting Portal Upgrade for...

ISSUE STATUS
All

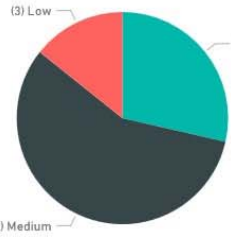
RISK STATUS
All

PROJECT
Employee Reporting Portal Upgrade for Contoso EU Offices

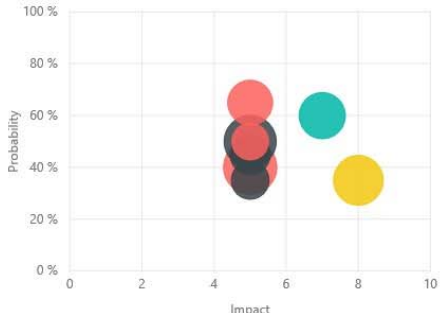
ISSUE COUNT BY OWNER > STATUS



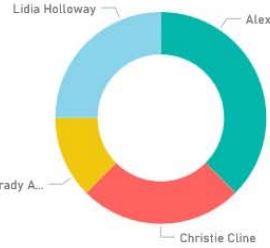
ISSUE COUNT BY PRIORITY > STATUS




RISK MATRIX




RISK COUNT BY OWNER > STATUS



ISSUES BY CATEGORY



RISKS BY CATEGORY



PROJECT ISSUES

ISSUE	OWNER	PRIORITY	DUE DATE	STATUS
Resources not available for Unit & Integration...	Nestor Wilke	(1) High	9/28/2017	(1) Active
Lab may not be available as planned for Ph 2 ...	Lidia Holloway	(2) Medium	7/19/2018	(1) Active
Planned Development Resources not available	Lidia Holloway	(2) Medium	7/19/2018	(2) Postponed
Data Center experienced long term power ou...	Lidia Holloway	(1) High	7/25/2018	(1) Active
Vendor Documentation insufficient	Christie Cline	(3) Low	8/15/2018	(1) Active
Contract Resources on strike	Nestor Wilke	(2) Medium	9/14/2018	(1) Active

PROJECT RISKS

RISK	OWNER	DUE DATE	PROBABILITY	IMPACT	STATUS
Summer Vacation not considered in original planning	Lidia Holloway	6/20/2017	45 %	5.00	(1) Active
Software Update from the vendor could add more c...	Christie Cline	11/10/2017	35 %	8.00	(1) Active
End Product may need to transition to the cloud	Alex Wilber	1/17/2018	50 %	5.00	(1) Active
Integration Testers not committed to project	Alex Wilber	9/24/2018	50 %	5.00	(1) Active
Pilot sites users may not be available	Lidia Holloway	11/8/2018	35 %	5.00	(1) Active
Emergency Backup Data Center may not be operati...	Alex Wilber	11/15/2018	60 %	7.00	(1) Active

EPM cost overview



Project Cost Overview

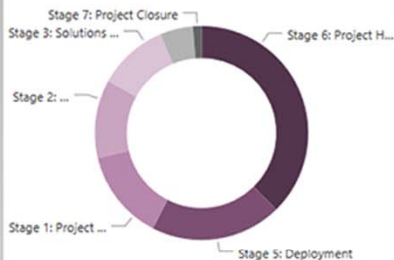
Project Name

- Battery Mod
- Continuity Testing
- Eight Ball Project
- Fifth Paper
- Fire Range Implementation
- Four Pillars
- Maintenance Schedule
- Nine Tails Project
- Resource Project
- Server Room Configuration
- Tenth Avenue Issues
- Three Rivers Build

Budget Percent Spent



Cost by Phase



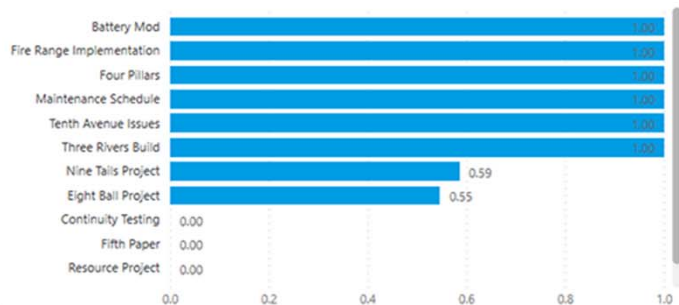
Cost Earned at Completion and Variance at Completion

ProjectName	ProjectEAC	ProjectVAC
Continuity Testing	0	0
Server Room Configuration	0	0
Resource Project	28600	-400
Fifth Paper	30160	0
Four Pillars	30960	0
Maintenance Schedule	31600	0
Tenth Avenue Issues	32040	0
Three Rivers Build	32800	0
Fire Range Implementation	32840	0
Battery Mod	33160	0
Nine Tails Project	50242	-20842
Eight Ball Project	60129	-27289

Cost Metrics



Cost Performance Index



Project Cost by Phase

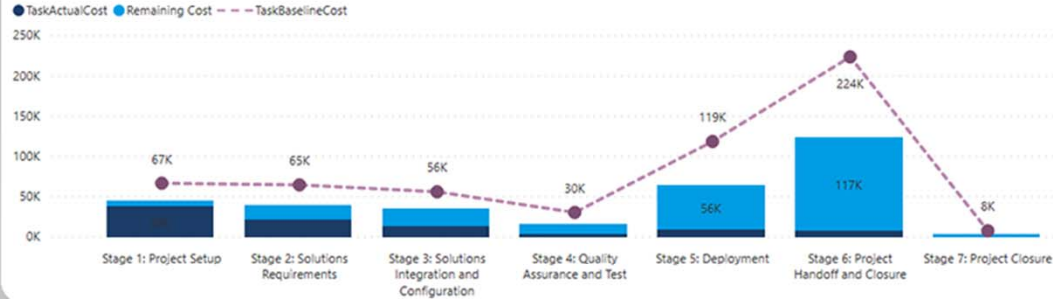


Project Cost by Phase

Project Name

- Battery Mod
- Continuity Testing
- Eight Ball Project
- Fifth Paper
- Fire Range Implementation
- Four Pillars
- Maintenance Schedule
- Nine Tails Project
- Resource Project
- Server Room Configuration
- Tenth Avenue Issues
- Three Rivers Build

Costs by Phase



31.55K

Baseline

9.47K

Actual

-22.08K

Difference Baseline and Actual

Costs by Phase

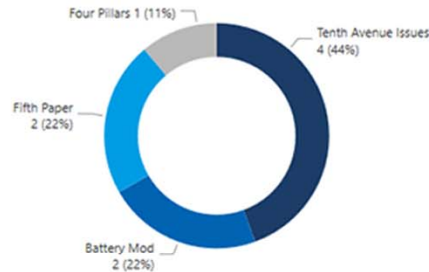
Year	ProjectName	Total		
		Actual/Cost	BaseCost	Actual-Base
	Schedule Eight	1,105.00	3,240.00	-2,135.00
	Stage 1: Project Setup	480.00	480.00	0.00
	Stage 2: Solutions Requirements	625.00	400.00	225.00
	Stage 3: Solutions Integration and Configuration	0.00	480.00	-480.00
	Stage 4: Quality Assurance and Test	0.00	400.00	-400.00
	Stage 5: Deployment	0.00	480.00	-480.00
	Stage 6: Project Handoff and Closure	0.00	600.00	-600.00
	Stage 7: Project Closure	0.00	400.00	-400.00
	Schedule Five	0.00	2,800.00	-2,800.00
	Stage 1: Project Setup	0.00	400.00	-400.00
	Total	9,470.00	31,546.67	-22,076.67

Project Issues and Risks



Issues and Risks

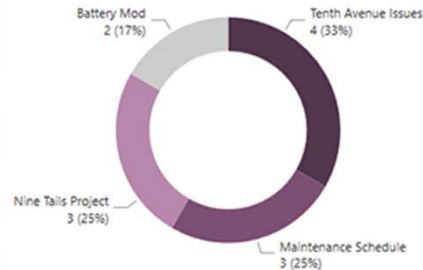
Issue By Project



Issues Information

ProjectName	Priority	Title	AssignedToResource	Status	Date
Battery Mod	(2) Medium	Another Schedule One Issue	Collin Quiring	(1) Active	8/17/2016
Battery Mod	(2) Medium	Schedule One Issue	Collin Quiring	(1) Active	7/14/2016
Fifth Paper	(2) Medium	A second issue for schedule five	Collin Quiring	(1) Active	7/15/2016
Fifth Paper	(1) High	Schedule Five Issue	Tim Gryder	(1) Active	9/7/2016
Four Pillars	(3) Low	P4 Problem	Tim Gryder	(1) Active	5/24/2016
Tenth Avenue Issues	(1) High	Dock Strike	Tim Gryder	(1) Active	6/23/2016
Tenth Avenue Issues	(2) Medium	Houston Flooding	Collin Quiring	(1) Active	4/27/2016
Tenth Avenue Issues	(1) High	Personnel	Collin Quiring	(1) Active	5/10/2016
Tenth Avenue Issues	(3) Low	Road Repair	Tim Gryder	(1) Active	7/13/2016

Risks By Project



Risk Information

ProjectName	Title	AssignedToResource	Status	Impact	Probability	Exposure
Battery Mod	Meteor Strike	Tim Gryder	(1) Active	5.00	0.10	0.50
Battery Mod	US Election	Collin Quiring	(1) Active	2.00	1.00	2.00
Maintenance Schedule	Another Meteor	Collin Quiring	(1) Active	5.00	0.10	0.50
Maintenance Schedule	Another Risk	Collin Quiring	(1) Active	1.00	0.90	0.90
Maintenance Schedule	Schedule Two Risk	Collin Quiring	(1) Active	3.00	0.40	1.20
Nine Tails Project	Schedule Nine Risk A	Tim Gryder	(1) Active	2.00	0.40	0.80
Nine Tails Project	Schedule Nine Risk three	Collin Quiring	(1) Active	3.00	0.50	1.50
Nine Tails Project	Schedule Nine Two Risk	Collin Quiring	(1) Active	1.00	0.25	0.25
Tenth Avenue Issues	Competitor Product	Tim Gryder	(1) Active	4.00	0.90	3.60
Tenth Avenue Issues	Hosting Provider Contract	Collin Quiring	(1) Active	5.00	0.20	1.00
Tenth Avenue Issues	Meteor Strike	Tim Gryder	(1) Active	5.00	0.01	0.05
Tenth Avenue Issues	Plastic Shortage	Collin Quiring	(1) Active	5.00	0.50	2.50

WIP Reporting

WIP Reporting with drill-down to tasks and transactions.

WIP Report - Historic Actuals

Branch: (All) | Proj Status: Active | Proj ID: (All) | Acct Group: (All) | Customer Name: (All) | Through Period: 2020/12 | Highlight Low: GP Revised

Proj ID	Proj Desc	Proj Status	Contract Amounts			Estimated Costs			Tran Actuals Through 2020/12				Forecasted				
			Contract Orig	Contract CO	Contract Revised	Cost Orig	Cost CO	Cost Revised	GP Revised	GP % Revised	Tran Cost	Tran Revenue	Tran GP	Under/Over Bill	Revenue Backlog	GP Backlog	Contract Remain
Grand Total			314,700.00	1,050.00	317,700.00	312,900.00	490.00	313,400.00	-4,500.00	1.4%	133,913.03	145,118.00	11,202.97	26,070.63	143,253.39	-36,273.38	163,123.82
FIXCOBTRM	Fixed Price Project - milestones based on prog...	Active	10,000.00	0.00	10,000.00	1,000.00	0.00	5,000.00	-4,000.00	40.0%	0.00	0.00	0.00	0.00	10,000.00	0.00	0.00
FIXCOBTRM	Fixed Price Project - milestones recorded by...	Active	10,000.00	0.00	10,000.00	7,000.00	0.00	7,000.00	3,000.00	30.0%	7,000.00	1,000.00	280.00	28.37	8,572.43	2,093.43	8,500.00
FIXCOBTRM	Fixed Price Project - milestones by completed...	Active	10,000.00	0.00	10,000.00	0.00	0.00	5,000.00	-5,000.00	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FIXCOBTRM	Fixed price labor plus materials and expenses	Active	10,000.00	0.00	10,000.00	4,000.00	0.00	8,000.00	1,800.00	22.5%	0.00	0.00	0.00	0.00	10,000.00	3,800.00	10,000.00
FIXCOBTRM	Fixed Price Project - milestones by completed...	Active	10,000.00	0.00	10,000.00	0.00	0.00	5,000.00	-5,000.00	50.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTERNAL18	Internal projects 2018 - track expenses	Active	0.00	0.00	0.00	87,600.00	0.00	87,600.00	-87,600.00	0.0%	10,206.43	10,206.43	0.00	0.00	0.00	-77,203.57	0.00
INTERNAL18	Internal marketing campaigns for 2018	Active	10,000.00	0.00	10,000.00	0.00	0.00	5,000.00	-5,000.00	50.0%	0.00	0.00	0.00	0.00	10,000.00	0.00	10,000.00
INTERNAL18	Progress Billing Template	Active	10,000.00	0.00	10,000.00	5,500.00	0.00	5,500.00	4,500.00	45.0%	0.00	0.00	0.00	0.00	10,000.00	4,500.00	10,000.00
INTERNAL18	Revenue recognition based on labor	Active	10,000.00	0.00	10,000.00	11,200.00	0.00	11,200.00	-1,200.00	-11.8%	0.00	0.00	0.00	0.00	10,000.00	11,200.00	10,000.00
INTERNAL18	Revenue recognition from budget	Active	20,000.00	0.00	20,000.00	11,250.00	0.00	11,250.00	8,750.00	43.8%	0.00	0.00	0.00	0.00	20,000.00	8,750.00	20,000.00
INTERNAL18	Project with change orders	Active	10,000.00	1,000.00	11,000.00	0.00	0.00	5,000.00	5,000.00	50.0%	0.00	0.00	0.00	0.00	11,000.00	5,000.00	11,000.00
INTERNAL18	Service project (TMR) with fixed estimate	Active	500.00	0.00	500.00	2,000.00	-0.00	2,000.00	-1,500.00	-75.0%	0.00	0.00	0.00	0.00	500.00	-1,500.00	500.00
INTERNAL18	Time and Materials with WIP accounting	Active	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tasks

Easy Drilldown to Tasks

Proj ID	Acct Group	Task CD	Task Desc	Contract Orig	Contract CO	Contract Revised	Cost Orig	Cost CO	Cost Revised	GP Revised	GP % Revised	Tran Cost	Tran Revenue	Tran GP	Under/Over Bill	Revenue Backlog	GP Backlog	Contract Remain
INTERNAL18	Total			0.00	0.00	0.00	87,600.00	0.00	87,600.00	-87,600.00	0.0%	10,206.43	10,206.43	0.00	0.00	0.00	-77,203.57	0.00
BURDET	010PS	WARE	Warehouse operations	0.00	3,200.00	0.00	3,200.00	0.00	3,200.00	-3,200.00	0.0%	400.00	400.00	-400.00	0.00	-2,800.00	0.00	-2,800.00
BURDET	02TRAI	INTT	Internal training	0.00	1,200.00	0.00	1,200.00	0.00	1,200.00	0.00	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BURDET	03SOFT	INTT	Internal software development	0.00	2,000.00	0.00	2,000.00	0.00	2,000.00	0.00	0.0%	200.00	200.00	-200.00	0.00	-1,800.00	0.00	-1,800.00
LABOR	010PS	WARE	Warehouse operations	0.00	16,000.00	0.00	16,000.00	0.00	16,000.00	-16,000.00	0.0%	2,200.00	2,200.00	-2,200.00	0.00	-13,800.00	0.00	-13,800.00
LABOR	02TRAI	INTT	Internal training	0.00	16,000.00	0.00	16,000.00	0.00	16,000.00	-16,000.00	0.0%	0.00	0.00	0.00	0.00	-16,000.00	0.00	-16,000.00
LABOR	03SOFT	INTT	Internal software development	0.00	10,000.00	0.00	10,000.00	0.00	10,000.00	-10,000.00	0.0%	840.00	840.00	-840.00	0.00	-9,160.00	0.00	-9,160.00
OTHEREXP	02TRAI	INTT	Internal training	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUBCON	010PS	WARE	Warehouse operations	0.00	0.00	0.00	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Transactions

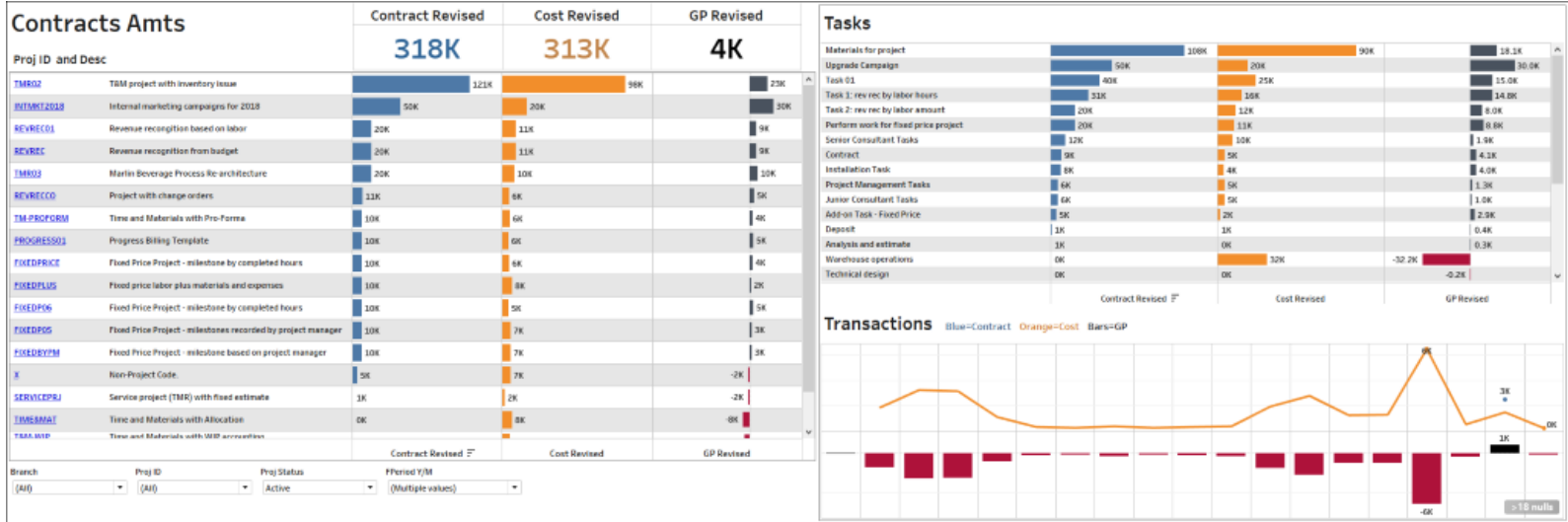
Easy Drilldown to Transactions

[Go to Transactions](#)

Proj ID	Customer Name	Period Y/M	Tran Date	Ref Nbr	Task CD	Task Desc	Tran Desc	Acct Group	Tran Cost	Tran Revenue	Tran GP
INTERNAL18	Total								5,240.00		-5,240.00
INTERNAL18	Total	2017/12	12/4/2017	PR00000733	010PS	Warehouse operations	Prep for inventory count	LABOR	80.00		-80.00
INTERNAL18	Total	2017/12	12/5/2017	PR00000733	010PS	Warehouse operations	Prep for inventory count	LABOR	80.00		-80.00
INTERNAL18	Total	2017/12	12/11/2017	PR00000733	02TRAI	Internal training	Taught onsite class	LABOR	240.00		-240.00
INTERNAL18	Total	2017/12	12/11/2017	PR00000733	02TRAI	Internal training	Taught onsite class	LABOR	240.00		-240.00
INTERNAL18	Total	2017/12	12/11/2017	PR00000733	03SOFT	Internal software development	Website updates	LABOR	90.00		-90.00
INTERNAL18	Total	2017/12	12/14/2017	PR00000733	010PS	Warehouse operations	Prep for inventory count	LABOR	80.00		-80.00
INTERNAL18	Total	2017/12	12/15/2017	PR00000733	010PS	Warehouse operations	Prep for inventory count	LABOR	80.00		-80.00
INTERNAL18	Total	2017/12	12/15/2017	PR00000733	03SOFT	Internal software development	Website updates	LABOR	90.00		-90.00
INTERNAL18	Total	2017/12	12/28/2017	PR00000733	010PS	Warehouse operations	Year end inv count	LABOR	320.00		-320.00

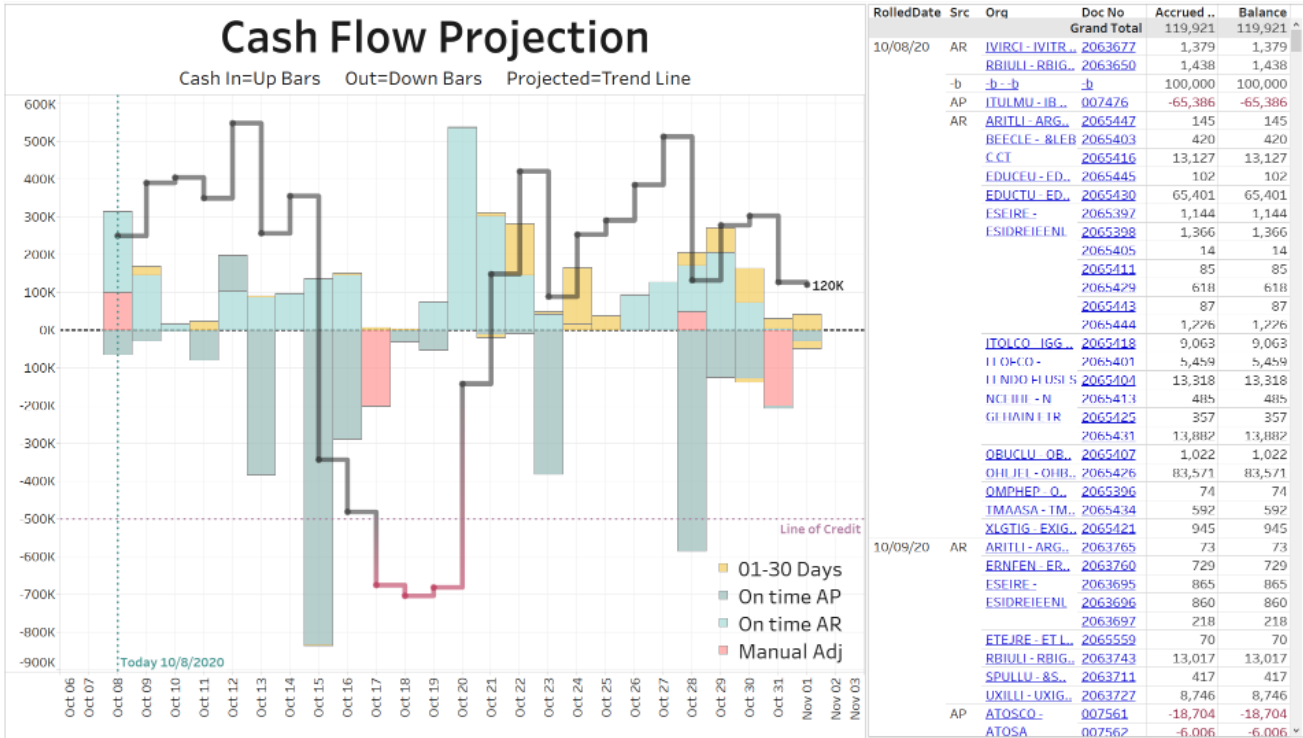
Contract Dashboard

Insightful to spot how contracts and tasks are affecting the bottom line.



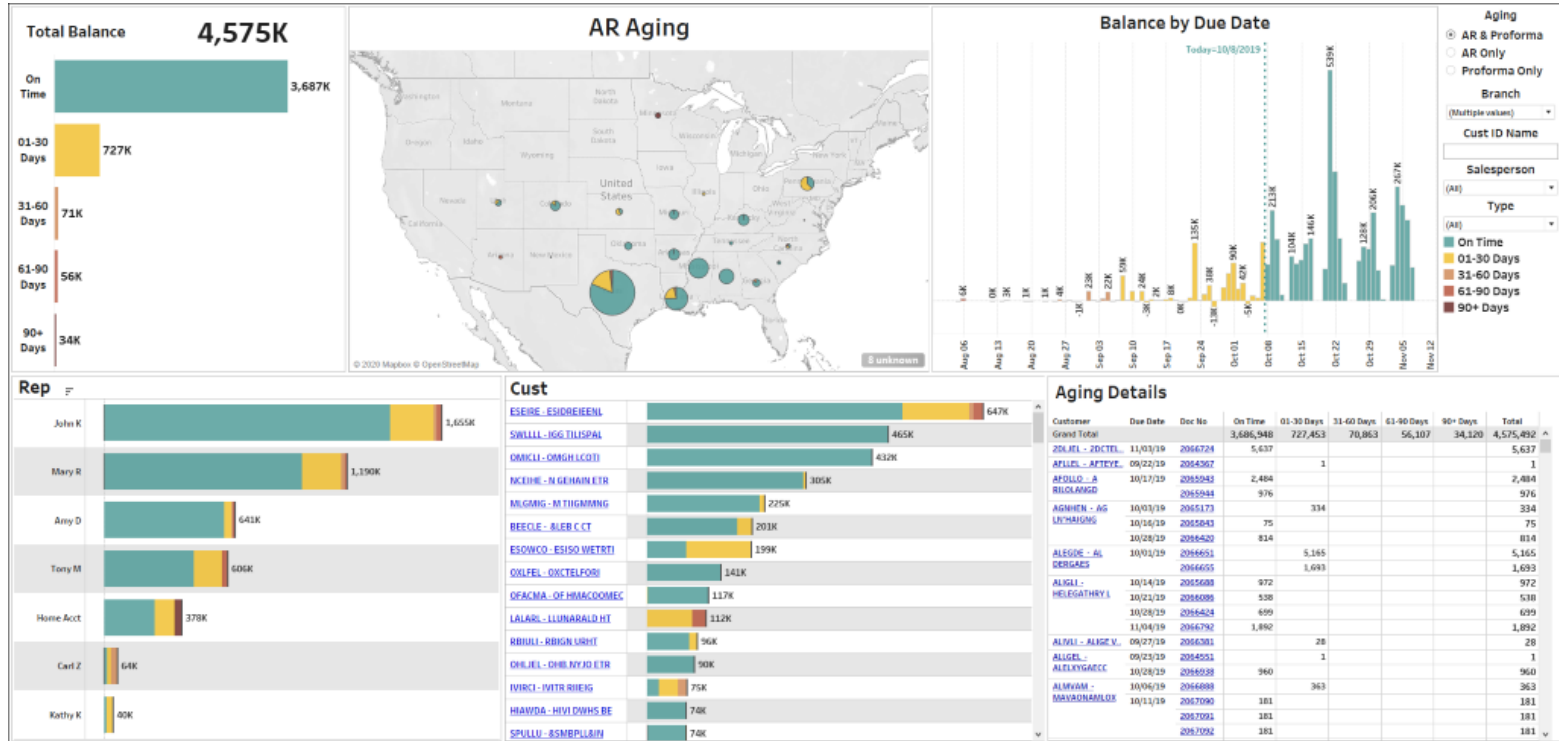
Cash Flow Projection

Slice and dice and do what-if cash flow projection scenarios.



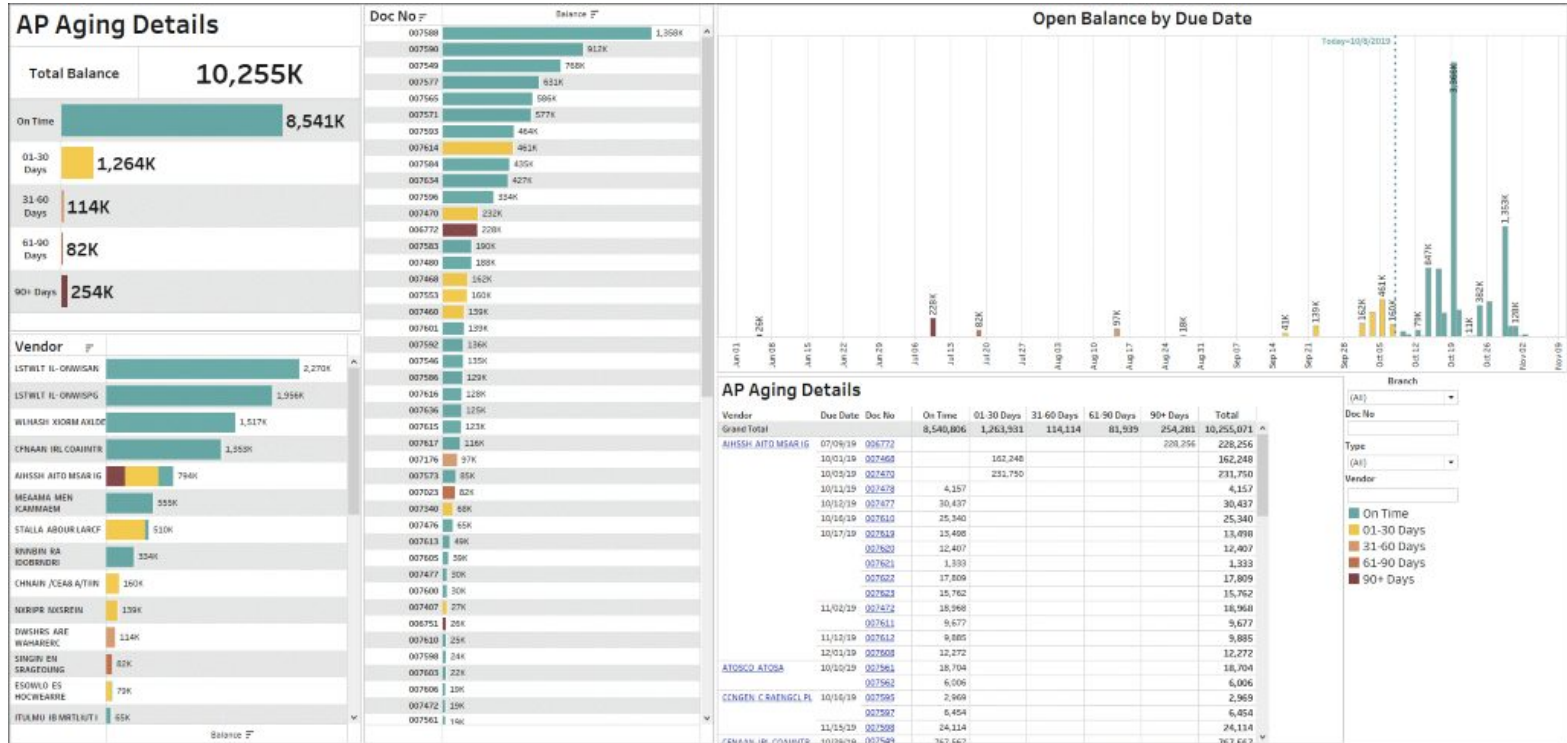
AR Aging

Easily combine AR Aging with proforma invoices.



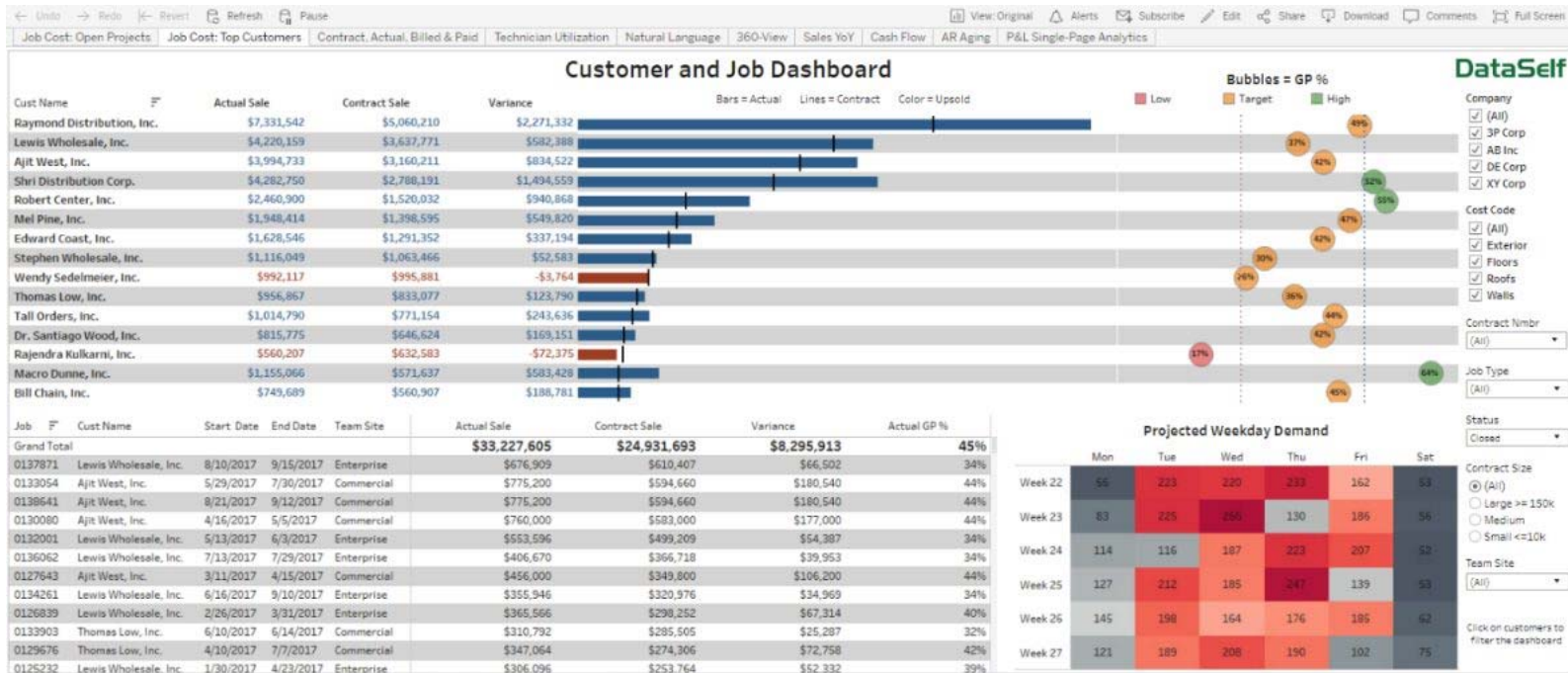
Payables

Easy analysis of payables trends.

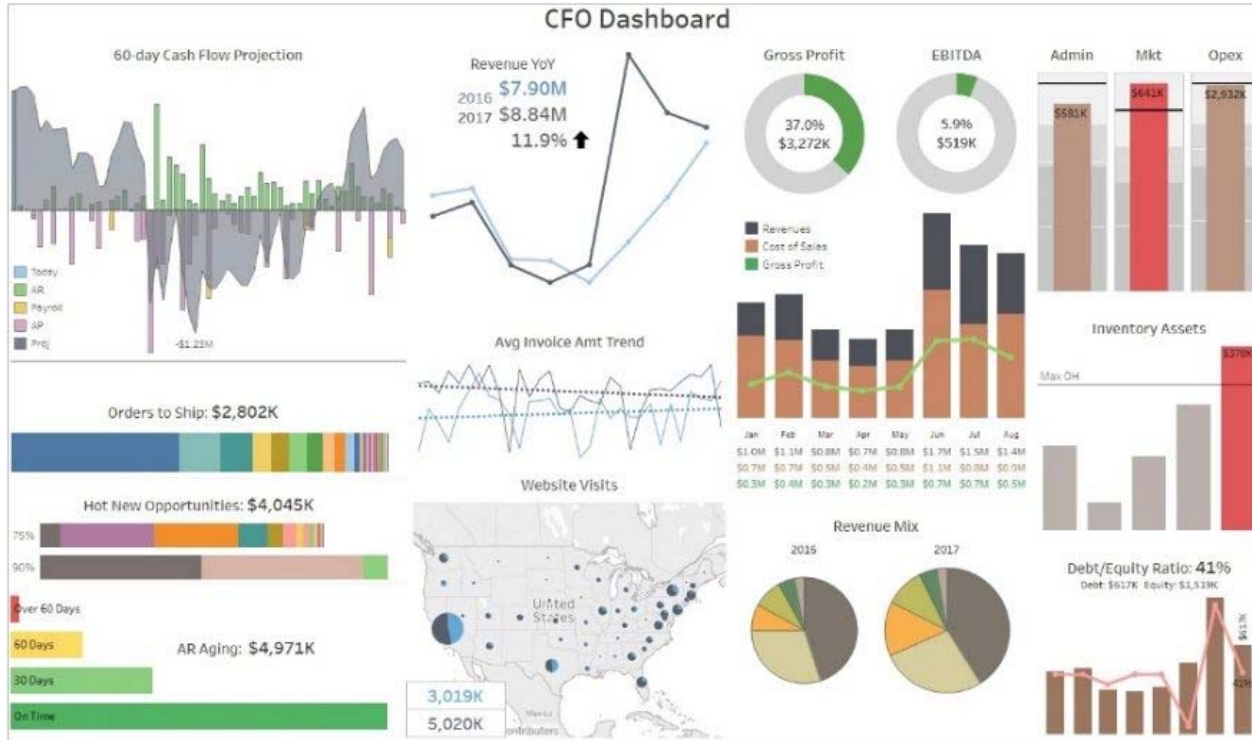


Customizable Dashboards

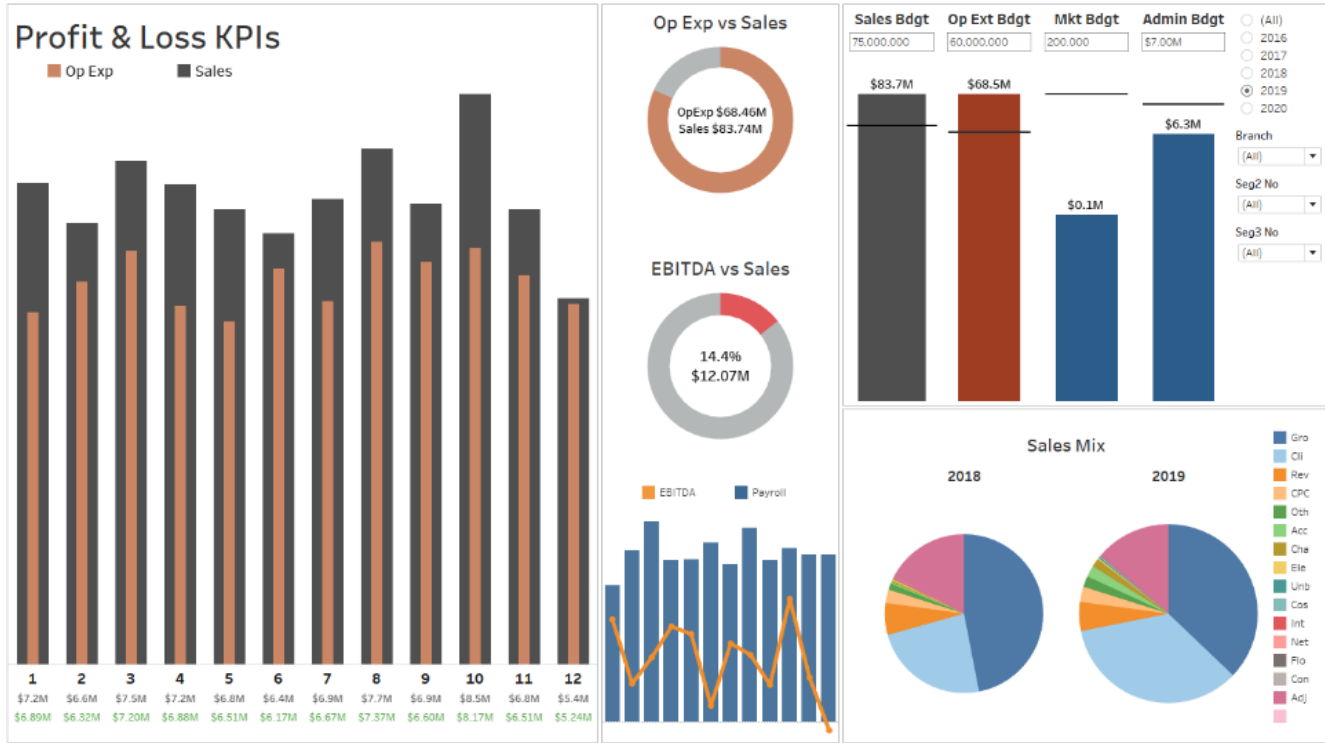
Easy to create custom views of your data such as scheduling and profitability by customer, project, division, etc.



KPIs from different systems such as the ERP, CRM, Google Analytics, Payroll, and Excel. tailored for C-level executives



This is a preconfigured P&L Dashboard



Business Intelligence

أشهر برامج التحليل الذكي للأعمال

SAP Business Intelligence

Oracle BI

Microsoft Power BI

MicroStrategy

Datapine

SAS Business Intelligence

Yellowfin BI

QlikSense

Zoho Analytics

Sisense

Looker

Clear Analytics

Tableau

Domo

IBM Cognos Analytics

Magic Quadrant for Analytics and Business Intelligence Platforms

Source: Gartner (February 2021)

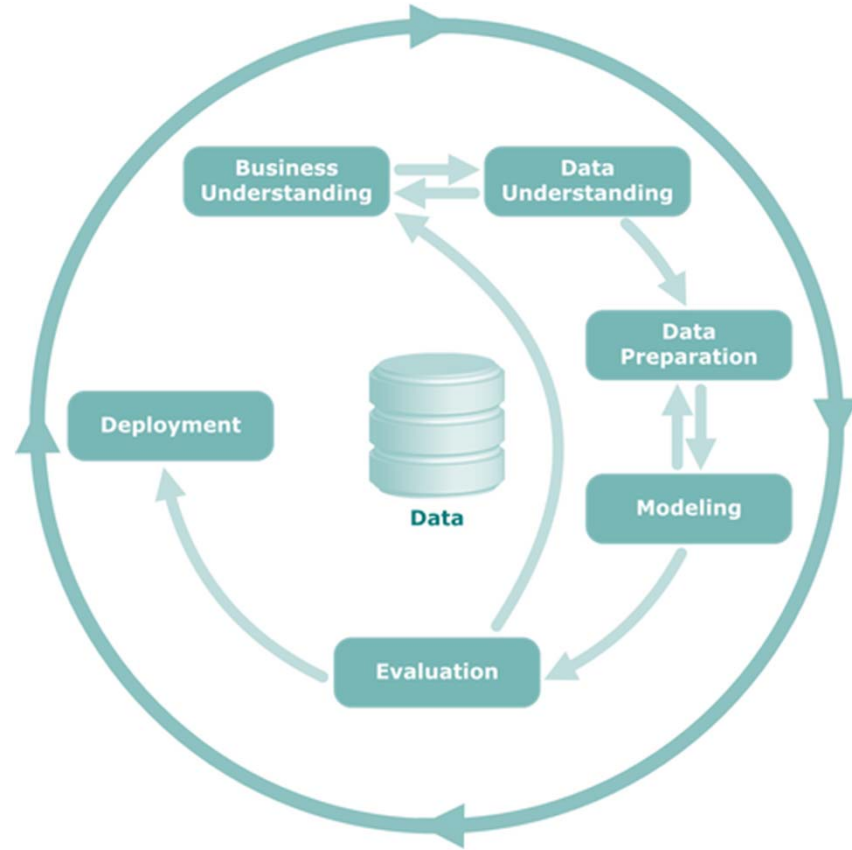


© Gartner, Inc

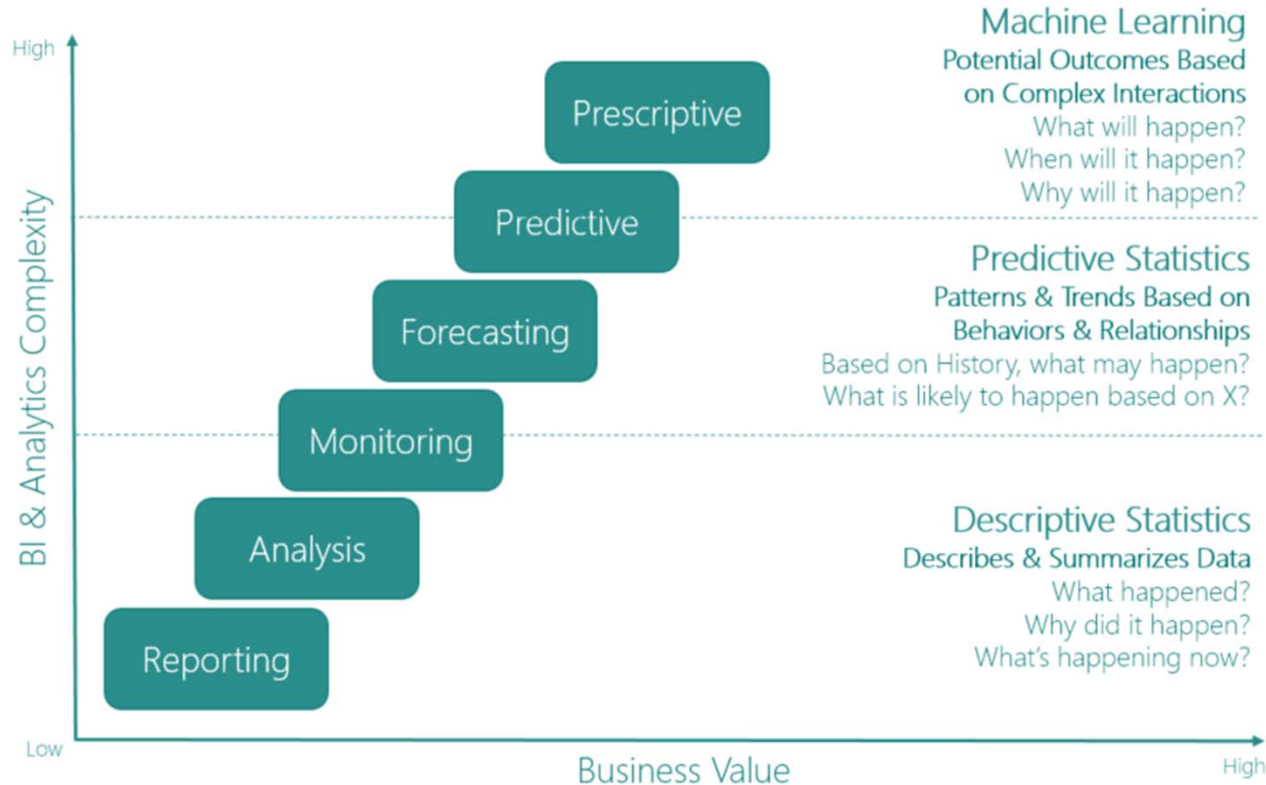
Gartner

تجربة عملية

How to start



Maturity Model



MACHINE LEARNING

تعلم الآلة

أهداف الذكاء الاصطناعي



Process architecture for a solution



COGNITIVE
SERVICE



MACHINE
LEARNING



DEEP
LEARNING



NEURAL
NETWORK

Cognitive APIs

Vision APIs	Speech APIs	Search APIs	Language APIs	Decision APIs
Computer Vision	Speech Services	Autosuggest	Text Analytics	Content Moderator
Form Recognizer	Speaker Recognition	Entity Search	Translator Text	Anomaly Detector
Ink Recognizer		Image Search	QnA Maker	Personalizer
Face		Custom Search	LUIS	
Video Indexer		News Search	Video Indexer	
Custom Vision Search		Spell Check		
		Video Search		
		Visual Search		
		Web Search		
		Local Business Search		



Chatbots: The Next Wave of Construction Automation

"اعرض لي لوحة معلومات الوظيفة للوظيفة 3509" أو "اعرض لي التدفق النقدي لـ 3509". يقوم الروبوت أيضًا بأتمتة إدخال البيانات. يمكن لمديري المشاريع أو المشرفين الميدانيين إصدار أوامر تغيير من خلال قول ببساطة ، "أضف أمر تغيير إلى 3509"

<https://www.contractormag.com/technology/article/21120618/chatbots-the-next-wave-of-construction-automation>

ADNOC Rock classification



ADNOC Rock classification



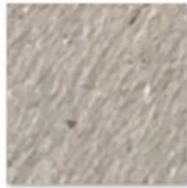
Concrete crack



00175



00182



00191



00234



00235



00241



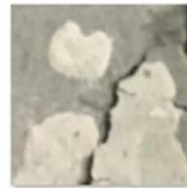
00242



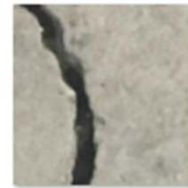
00244



00259



00339



00357



00442



Burned Homes



416-0-0-10000-10000-511



bg-drone-aerial



Connecticut_Aerial_Photography_clif_house



DJI_0690



drone



drone-header



1da24960-67ee-49de-9a0e-bed63478bac0-XXX_LakeKeswickHomes...



49d3ba7a-4f76-446a-ab88-d95498af34cb-XXX_LakeKeswickHomes...



1961ee13-b690-4ce6-adf8-e8b13ffab3c2-XXX_LakeKeswickHomes...



73967ca5-2cd7-46f3-9adc-ecd0aa79aab4-XXX_LakeKeswickHome...



83526ab2-538b-40de-98d4-617c1040aa45-XXX_LakeKeswickHomes...



28911775001_5817050920001_5817050137001-vs



Drone-photography-australia-real-estate-600x400



Drones_In_Real_Estate



GIVE+ THEM+ SOMETHING+ TO+ REMEMBER+ YOU



home1



HomeJab-aerial-real-estate-videos



images



636686702628281195-USP-News-Carr-Fire.3



636687528026436514-USP-News-Carr-Fire.3



636687528026436514-USP-News-Carr-Fire.8



636687528026592761-USP-News-Carr-Fire.4



636688104660607868-IMG-0345



636688104662326607-hf-aerial



Linden-homes



maxresdefault



real-estate-drone-photography2



SKIBERG-GRACE-VISTA-3034-WEIS-SINGER-CT-SB-6-800x510



videoblocks-sing-le-family-homes-real-estate-aerial-view-panora...

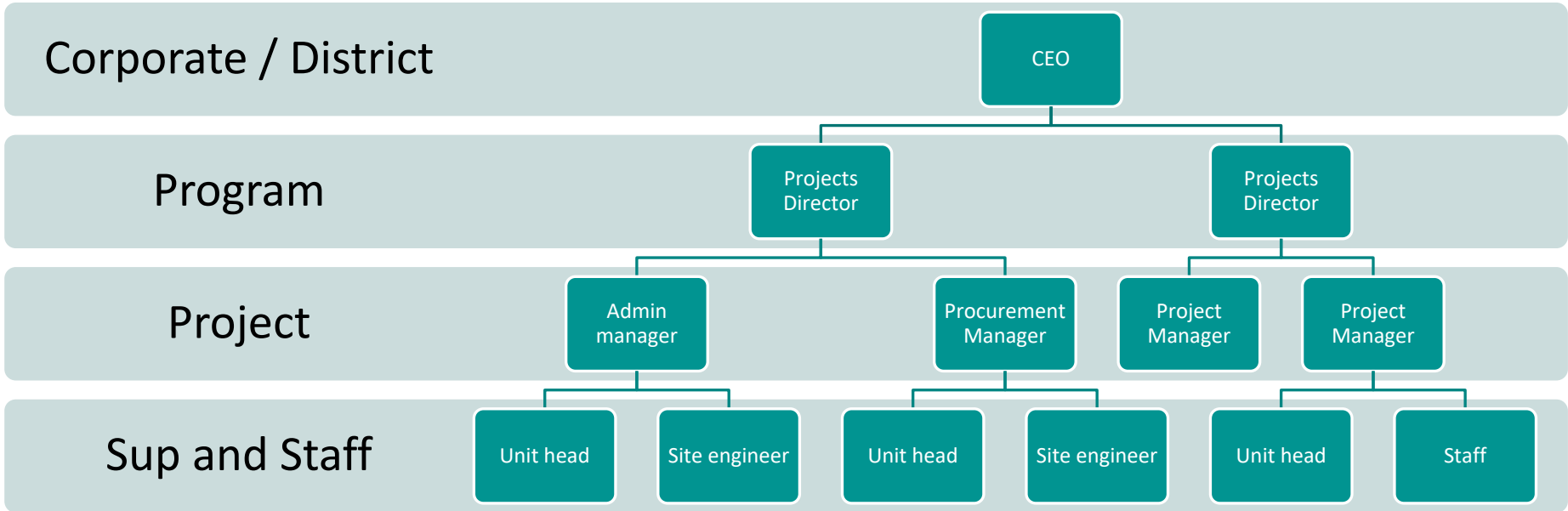


636688111009473485-XXX-RiverRidgePark-01



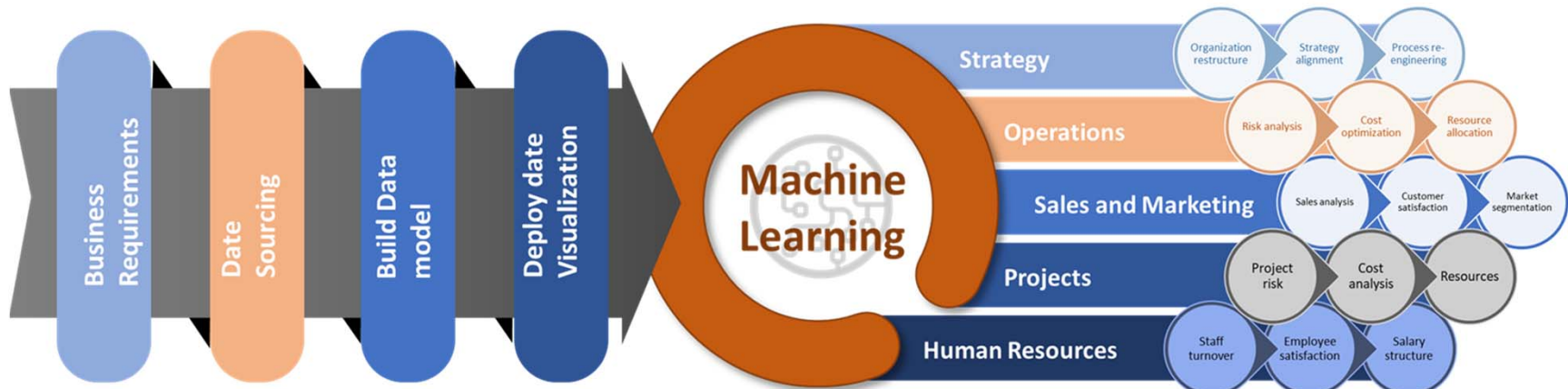
aa31924d-5c96-46ce-9653-2565a9ef1b40-XXX_LakeKeswickHomes...

Deployment



RACI Example

Actions for the Focus Area	Roles and Responsibilities						
	Rita	Bob	Sue	Tom	Dick	Harry	Sally
Strategic Plan	R+A	I	CI	I	I	I	I
Leadership Development	R+A	C	CI	I	I	I	I
External Masterclasses	R+A	I	CI	CI	I	I	I
Commissioning external consultants	R+A	C	I	CI	I	I	I
Strategic Measurement	R+A	I	-	I	I	I	I
Professional Development	R+A	C	-	I	I	I	I/C
Change Agent Programme	R+A	I	CI	I	I	I	I



Information wealth model

<https://www.amsol.ca/service/business-intelligence-consulting/>

Information wealth model



Contacts

Email

alaa@amsol.ca

WhatsApp / Telegram

+1-(519) 200-5565

Website

<https://www.amsol.ca/engineering-bi/>



علاء عبد الهادي استشاري في شركة الحلول المتقدمة للإدارة بكندا

عمل م. علاء في استشارات تطوير الاستراتيجيات واعاده الهيكلة وتطوير الموارد البشرية وحلول المعلومات وتحليل البيانات في عدد من شركات البترول والهيئات الحكومية والشركات الخاصة والشركات الهندسية بالإضافة الي الجمعيات غير الهادفة للربح كما وعمل في عدد من الشركات الاستشارية العالمية

قام المهندس علاء بتقييم الشركات في جائزه دي للموارد البشرية

حصل م. علاء على ماجستير في ادارته الاعمال من جامعه ماسترخت في هولندا و شهادته متخصص في الموارد البشرية من جامعه مينيسوتا وشهادته متخصص في تحليل البيانات من جامعه دوق وكان المهندس علاء عضو مجلس ادارته في جمعيه العربية لإدارة الموارد البشرية لمدة ثمان سنوات بالإضافة الى عضويته في العديد من الجمعيات المتخصصة

ALAA ABDULHADY

Managing Partner Advanced Management Solutions



PROFESSIONAL EXPERIENCE

Developed short and long-term strategy, initiatives and key performance indicators for organization structure for petrochemical construction company resulting in new strategy

Assessed and coached leaders on organization in manufacturing, construction and publishing industries

Developed organization structure for Makkah high commission authority

More than 30 years in managing, developing and implementing application at various industries include Financial, Military, Oil and Gas, Human Resources, Government and Engineering.

Certification

Certified IBM Artificial intelligence engineer

Certified IBM Artificial intelligence professional engineer

Certified Strategic Planning and Performance Management Expert (SPPME) from Performance Institute at Arlington, VA

EDUCATION

Advanced Business Analytics Specialization from *University of Colorado Boulder*

Human Resources management from *Carlson School of Management at University of Minnesota*

Data Analysis and Presentation Skills: the PwC Approach from *PWC*

Business Metrics for Data-Driven Companies from *Duke university*

Masters of Business Administration with Distinction – Strategy Management from *Maastricht School of Management, Maastricht, Netherlands*

Engineering Bachelor's Degree from *Alexandria University, Faculty of Engineering, Alexandria, Egypt*

