

# APPRA

## Exploration Opportunity Analysis



# Appra

Appra is a business information management system for the tracking and management of exploration inventories, their maturity, risk and resources and the decisions associated with them to help manage your business across the E&P lifecycle.

- Compare & Rank Evaluations
- Implement Your Business Processes
- Supports Data & Decision Making
- Unlimited Users & Data
- Comprehensive Post-Drill Analysis



## VERSION CONTROL

Track historical, approved versions of data

## VISIBILITY

View progress reports, compare and rank evaluations



## SECURITY

Sophisticated, tiered security

## SUPPORT DECISIONS

Supports data and decision making, retain knowledge



## CUSTOMIZABLE

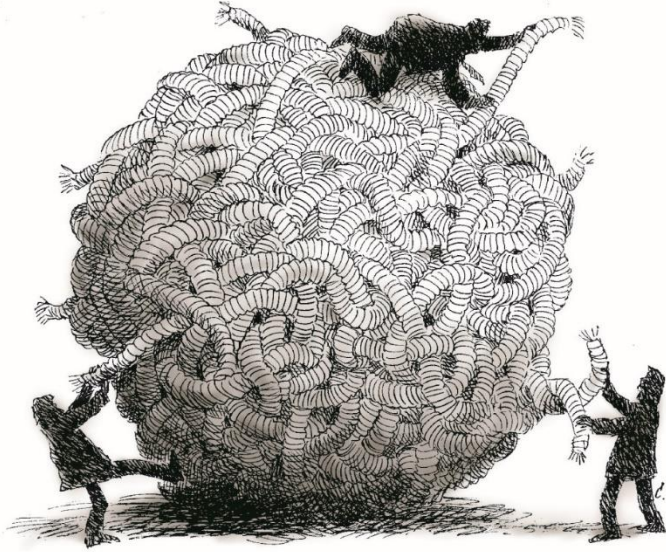
Sustainable, easily-customizable technology

## NOTIFICATIONS

Generate alerts for approvals



# Appra was Born out of Necessity

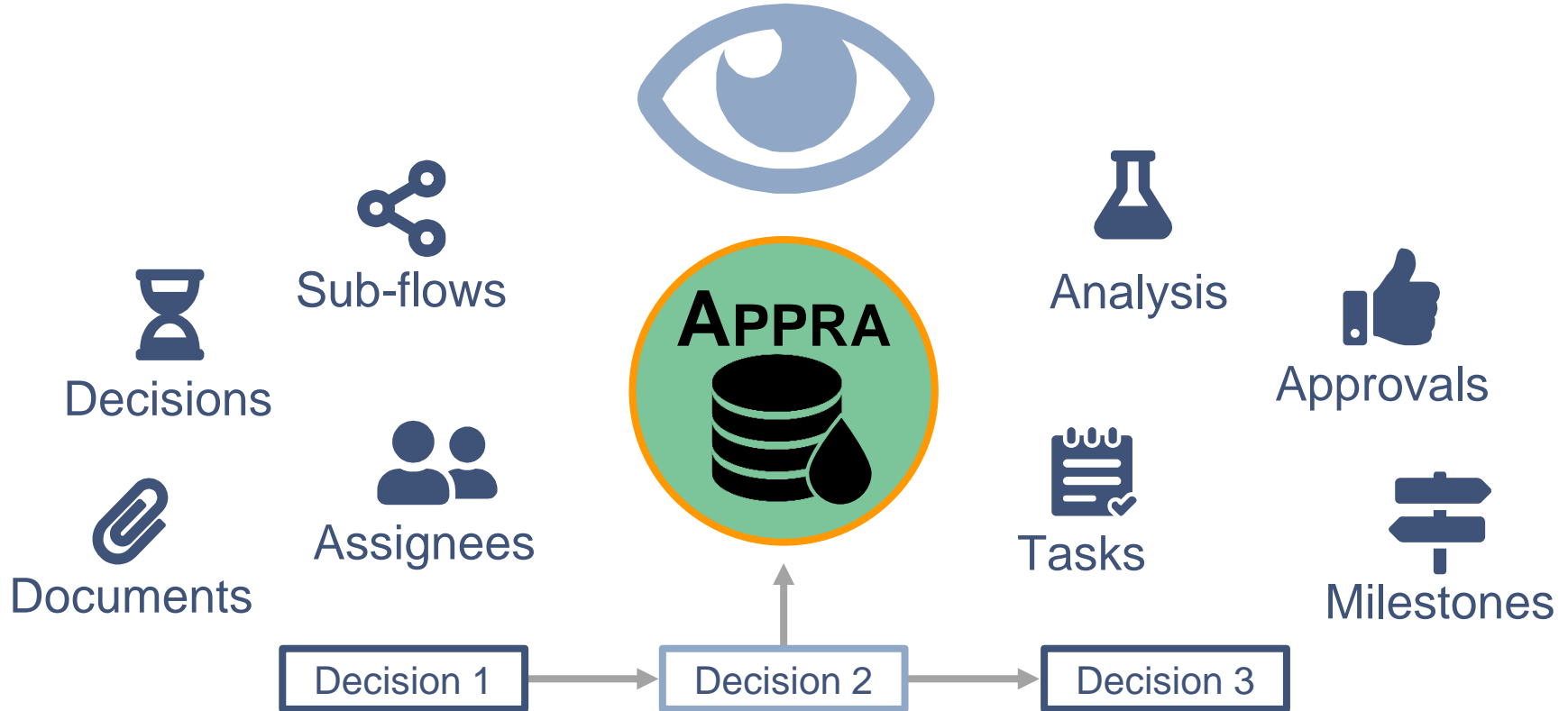


- ⊗ Time consuming
- ⊗ Fraught with error

- ✓ Valid, timely
- ✓ Accurate, understandable

# Why Appra?

When managing a inventory, context and connectivity are everything



# Why Appra?

## Current options for managing prospect information:



### Spreadsheets

- Fast to deliver
- Cheap
- Unchangeable
- No versioning
- No tracking



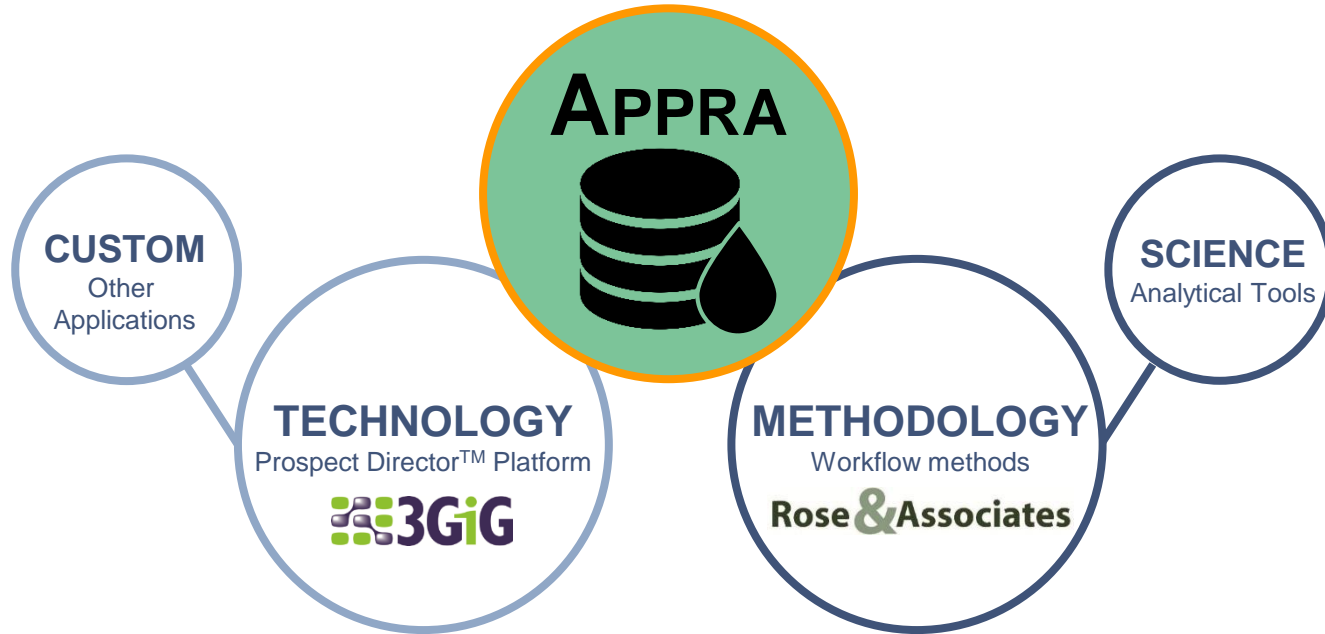
- Fast to deliver
- Reasonable cost
- Change as you change
- Deployment-ready
- Easy to maintain



### Build Your Own

- Slow to deliver
- Expensive
- Slow to deploy
- Slow to change
- Difficult to maintain

# About Us



## About 3GiG

3GiG provides the software to support the 'oval office' needs of oil & gas companies to improve the management of Projects, Plays and Prospects. 3GiG is about bridging the corporate communication gap between the science and leadership, doing this by making the technical science consumable for the masses.

## About Rose & Associates

Rose & Associates assists companies to improve their E&P effectiveness in quantitative prospect, portfolio and play analysis through software, training, and consulting. Rose & Associates' integrated business model ensures the key concepts taught in its courses are delivered in its software and applied in consulting.

# Who is it for?

Appra is for exploration managers, business development, strategy and portfolio managers looking to take advantage of significant improvements in technology as they refocus, revamp and revive their exploration strategy for growth.

**Want to ...**

Leverage  
advances in  
technology

Manage  
complex,  
scientific  
information

Improve  
management,  
effectiveness  
of information

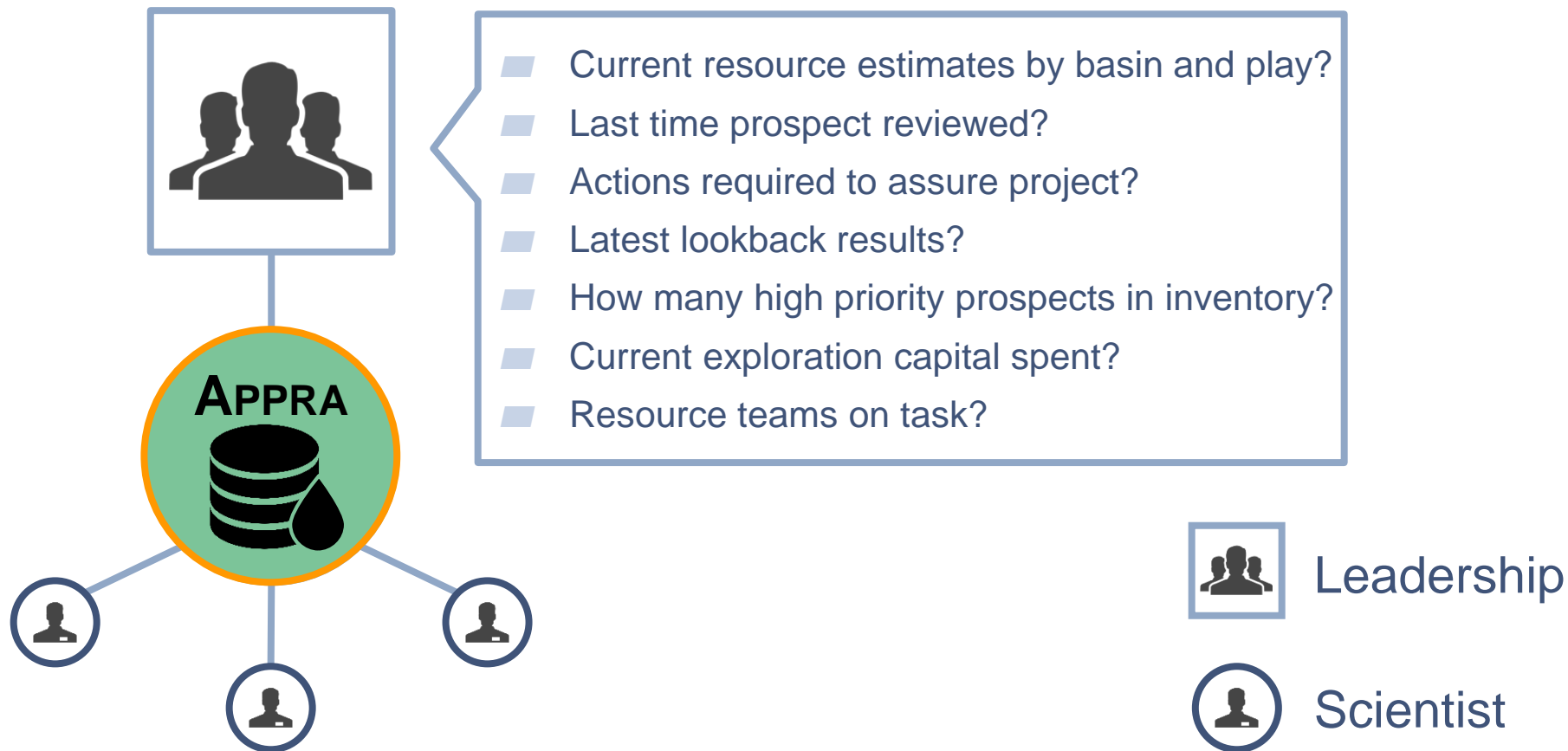
**Need to ...**

A simpler  
system

Better way to  
manage  
inventory

Expandable  
framework

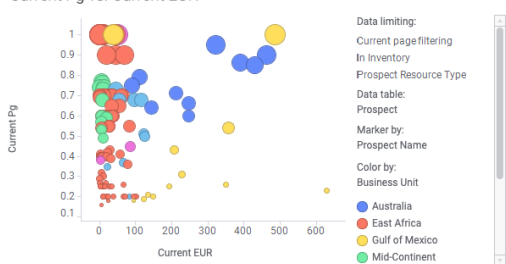
# Bring Disciplines & Departments Together



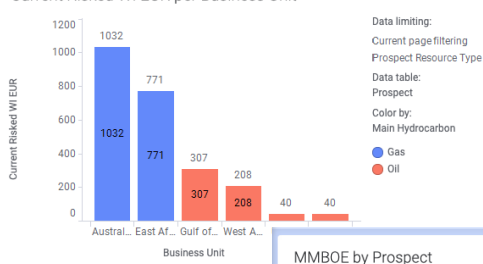


# Spotfire\* Visualizations

Current Pg vs. Current EUR

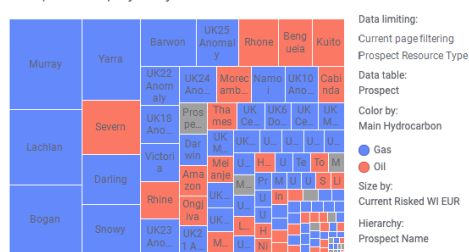


Current Risked WI EUR per Business Unit

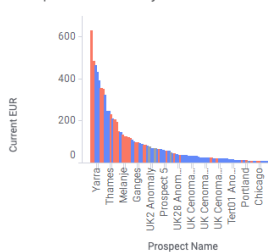


*Visualize Appra data in the most meaningful metrics for your organizational needs*

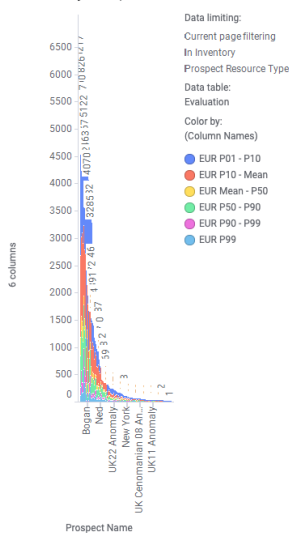
Prospects Displayed by Current Risked EUR



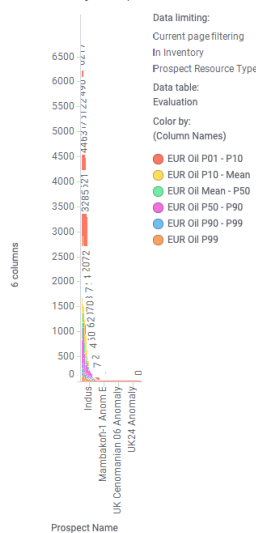
Prospects Ranked by Current EUR



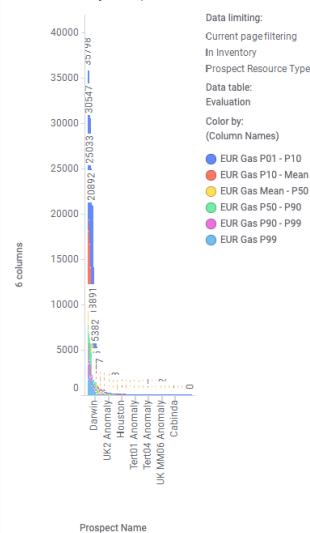
MMBOE by Prospect



Oil P1-99 by Prospect



Gas P1-99 by Prospect



Worldwide Portfolio Summary Business Unit Portfolio 1 Business Unit Portfolio 2 Distribution Dashboard EUR Dashboard 124 of 124 rows

Worldwide Portfolio Summary Business Unit Portfolio 1 Business Unit Portfolio 2 Distribution Dashboard EUR Dashboard 314 of 314 rows 0 marked 225 columns Evaluation

*\*ability to connect to other internal client visualization tools such as Spotfire, PowerBI etc.*

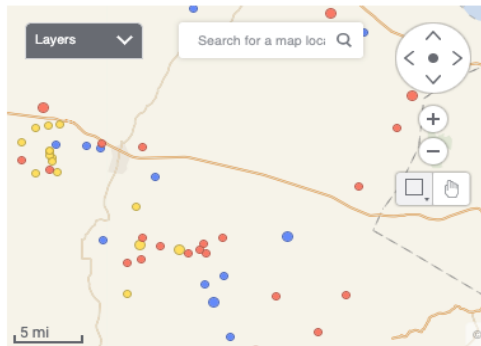
# Spotfire\* Visualizations

Key Prospect Data and Links

Prospect ID	Prospect Na...	Basin ID	Basin Name	Basin Type	Business Unit
<a href="#">767</a>	Arya	<a href="#">602</a>	East Irish Sea	Passive Margi...	<a href="#">60</a>
<a href="#">1363</a>	Ned	<a href="#">602</a>	East Irish Sea	Passive Margi...	<a href="#">60</a>
<a href="#">1435</a>	Benjen	<a href="#">602</a>	East Irish Sea	Passive Margi...	<a href="#">60</a>
<a href="#">2237</a>	Morecambe B...	<a href="#">602</a>	East Irish Sea	Passive Margi...	<a href="#">60</a>
<a href="#">1535</a>	Barwon	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1537</a>	Bogan	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1542</a>	Darling	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1543</a>	Darwin	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1550</a>	Lachlan	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1557</a>	Murray	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1558</a>	Namoi	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1568</a>	Snowy	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1571</a>	Victoria	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">1573</a>	Yarra	<a href="#">1509</a>	Carnarvon Ba...		<a href="#">61</a>
<a href="#">863</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">864</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">865</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">866</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">867</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">868</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">869</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">870</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">871</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">872</a>	Mambakofi-1 ...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">873</a>	Mambakofi N...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">874</a>	Mambakofi A...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">875</a>	Mambakofi W...	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">876</a>	UK1 Anomaly	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
<a href="#">877</a>	UK2 Anomaly	<a href="#">727</a>	Ruvu Basin		<a href="#">61</a>
			Ruvu Basin		<a href="#">61</a>
			Ruvu Basin		<a href="#">61</a>
			Ruvu Basin		<a href="#">61</a>
			Ruvu Basin		<a href="#">61</a>

Ability to drill down into  
Prospects from the map

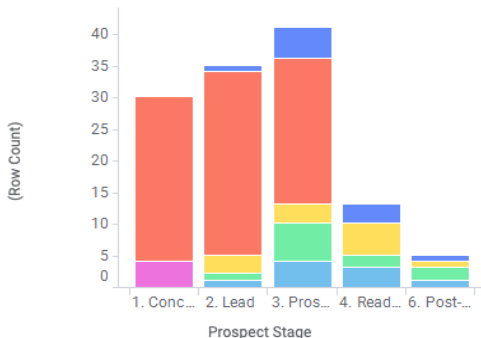
East Africa Business Unit Inventory



Interactive prospect  
inventory mapped globally

Data table:  
Prospect  
Color by:  
Prospect Stage  
Size by:

Global Prospects by Stage and Business Unit



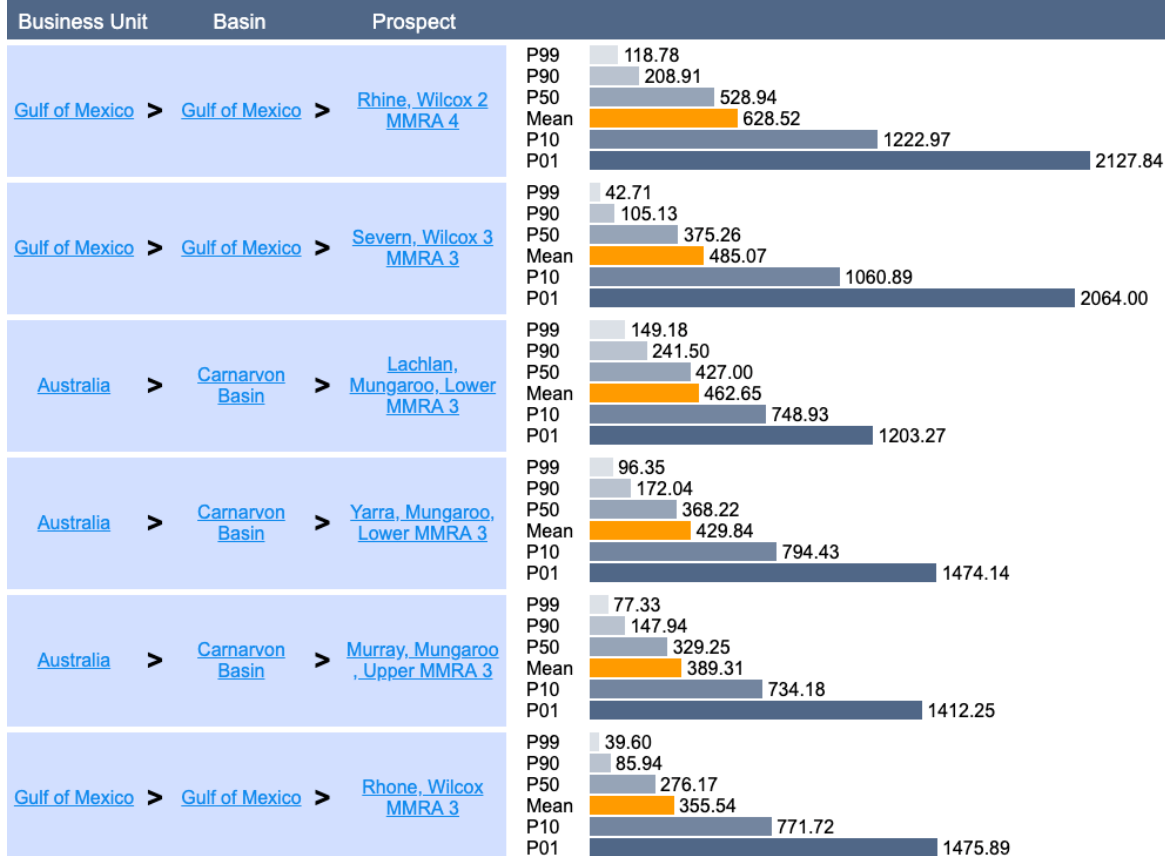
Data limiting:  
Current page filtering  
Prospect Resource Type  
Data table:  
Prospect  
Color by:  
Business Unit Name

\*ability to connect to other internal client visualization tools such as Spotfire, PowerBI etc.

# Dashboard of Key Outputs

Appra Inventory Summary as of 04/25/2019

[Open Report in New Window](#)



*Success case and  
Chance Weighted  
resources for Prospects*

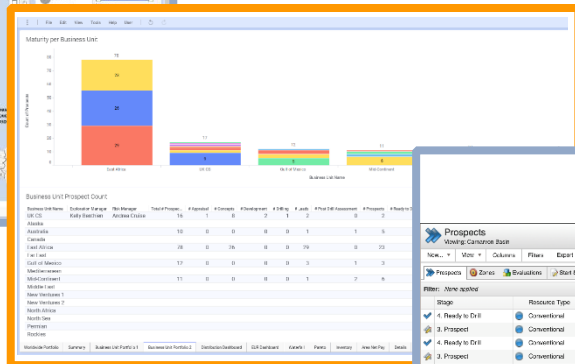
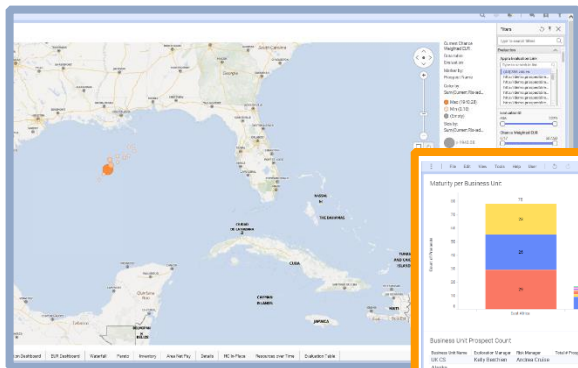
*Advanced analysis and  
visualization available  
through embedding  
Spotfire in Appra*

# Improving Vertical Productivity



# Manage the Inventory Vertically

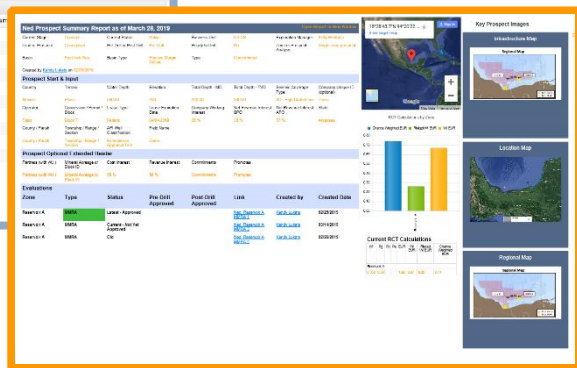
Inventory → Business Unit → Basin → Prospect



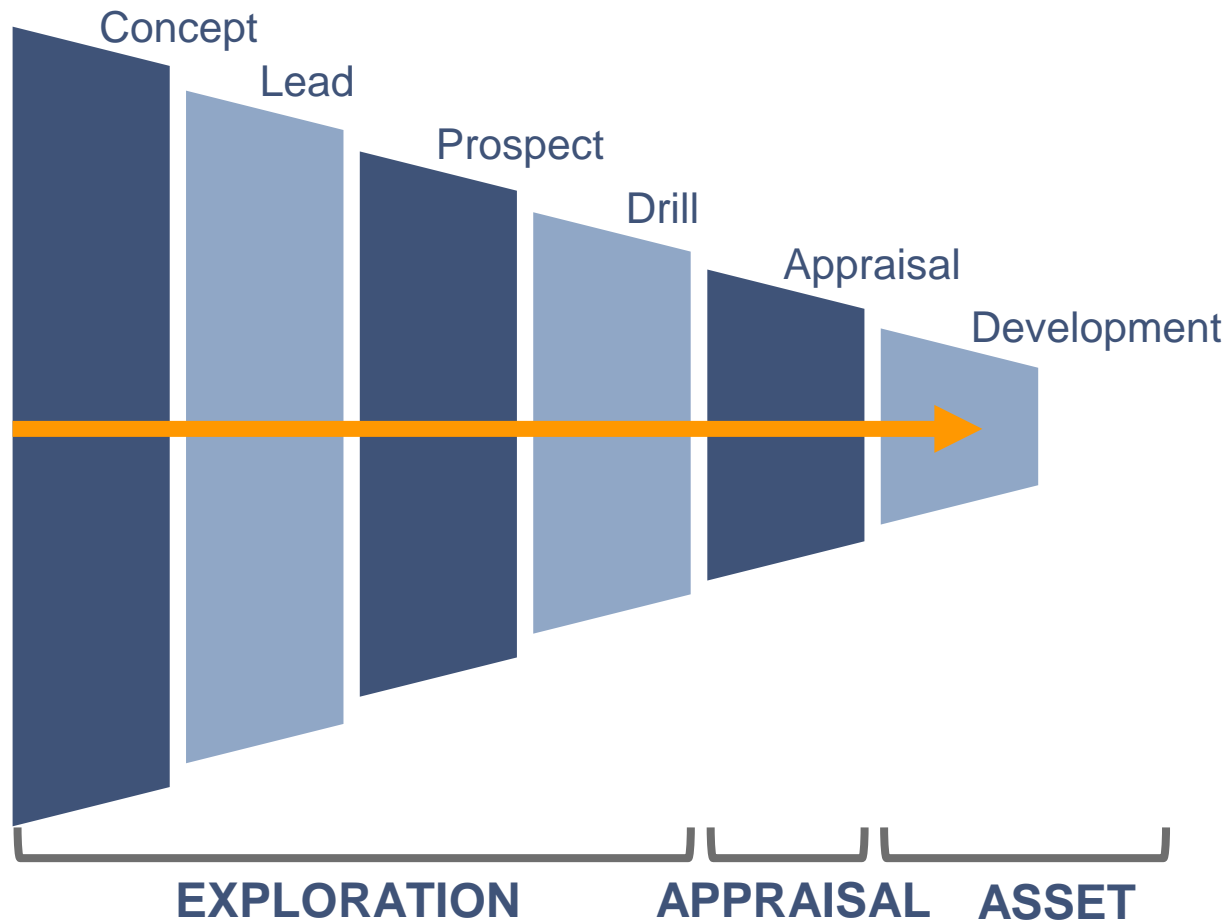
**Prospect Management Dashboard**

View: All | Filters: All | Export: All

Prospect	Basin	Resource Type	Current Qty	Current EUR	ROI	Cost
4. Ready to Drill	Conventional	Ladrian	0.90	402.66	40.0 %	
3. Prospect	Conventional	Tyria	0.80	420.84	40.0 %	
4. Ready to Drill	Conventional	Munby	0.96	395.51	40.0 %	
3. Prospect	Conventional	Sagan	0.90	321.70	30.0 %	
3. Prospect	Conventional	Shiray	0.80	346.50	40.0 %	
3. Prospect	Conventional	Burton	0.96	240.53	50.0 %	
3. Prospect	Conventional	Usting	0.71	210.01	40.0 %	
8. Post-DB Assessment	Conventional	Nasir	0.84	140.00	40.0 %	
2. Lead	Conventional	Victoria	0.79	110.02	30.0 %	
4. Ready to Drill	Conventional	Danish	0.75	85.45	40.0 %	



# Improving Horizontal Productivity



## Manage the Inventory Horizontally

**Concept → Lead → Prospect → Drill**

**Prospect Summary**  
 Search Field

Prospect Summary
 [Zones](#)
[Evaluations](#)
[Start & Input](#)
[Information](#)
[Tools](#)

### Need Prospect Summary Report as of March 27, 2019

View Details in New Window

Current Stage	Concept	Current Status	Action	Business Unit	UK CO	Explanation Manager
Last of Prospect:	Conceptual	Pre-DRI or Post-DRI	Pre-DRI	Ready to DRI:	No	Zone or Prospect Analysis

Basin	Fault Vals	Basin Type	Positive Margin Defect	Type	Conventional
Created by Emily Leblond on 06/20/2019					

#### Prospect Start & Input

Country	Terrain	Water Depth	Elevation	Total Depth - MD	Total Depth - TV
Mexico	Flats	555.00	100	525.00	320.00

Area	Concession / Permit / Block	Lease Type	Lease Expiration Date	Company Working Interest	Net Revenue Share
Tract	Block 7	Federal	04/04/2019	95 %	95 %

Country / Permit	Township / Range / Section	API Well Classification	Plant Name
Country / Permit	Township / Range / Section	Exploration or Appraisal	Zona

Infrastructure Map

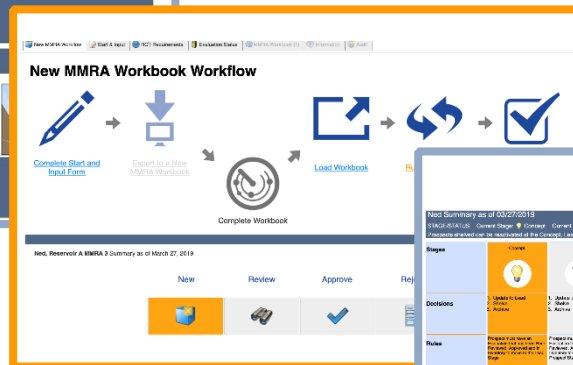
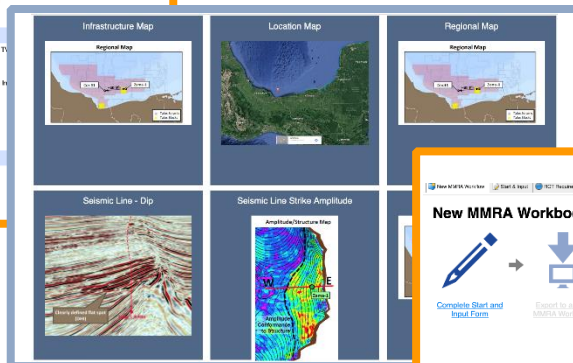
Regional Map

Well Locations: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

#### Prospect Optional Extended Field

Partners (all W1)	Mineral Acreage of Block ID	Cost Interest	Revenue Interest	Commitments	Promises
Partners (all W1)	Mineral Acreage of Block ID	55 %	58 %	Commitments	Promises

Salsmics Linc - Dip

[illegible]

# Business Process & Version Control

## Your Processes

*“What stage gate is this prospect at?”*

*“Who is / was responsible for the evaluation?”*

*Opportunities can be locked by  
Stage – key for post-drill  
analysis*

Filter: None applied											Find in Results...	
Business Unit	Prospect	Prospect Stage	Prospect Status	Zone	Evaluation Status	Evaluation	Maturity	Data Loaded	Included in Inventory			
UK CS	Arya	1. Concept	Active	B	Pending Review	Arya, B URA 1	New	Loaded				
UK CS	Arya	1. Concept	Active	B	Draft	Arya, B URA 3						
UK CS	Arya	1. Concept	Active	B	Approved	Arya, B URA 4	New					
East Africa	Mambakofi-1 Sand1	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Sand1 Upper Cretaceous MMRA V1	New	Loaded		Included		
East Africa	Mambakofi-1 Sand 2	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Sand2, Upper Cretaceous MMRA 1	New	Loaded		Included		
East Africa	Mambakofi-1 Sand 3 Anom_A	3. Prospect	Active	Upper Cretaceous	Draft	Mambakofi-1 Sand 3 Anom_A Upper Cretaceous MMRA V1	New	Loaded				
East Africa	Mambakofi-1 Sand 4-5 Anom_B	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Sand 4-5 Anom_B Upper Cretaceous MMRA V1	New	Loaded		Included		
East Africa	Mambakofi-1 Sand 6	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Sand 6 Upper Cretaceous MMRA V1	New	Loaded		Included		
East Africa	Mambakofi-1 Sand 7	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Sand 7 Upper Cretaceous MMRA V1	New	Loaded		Included		
East Africa	Mambakofi-1 Anom_C	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Anom_C Upper Cretaceous MMRA V1	New	Loaded		Included		
East Africa	Mambakofi-1 Anom D	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Anom D Upper Cretaceous MMRA V1	New	Loaded		Included		
East Africa	Mambakofi-1 Anom E	3. Prospect	Active	Upper Cretaceous	Approved	Mambakofi-1 Anom E Upper Cretaceous MMRA V1	New	Loaded		Included		

*Stage – Prospect maturity*

*Versioning – Multiple working hypotheses*



# Approval Process Control

*“Who has Decision rights?”*

*“What is the Technical Basis of the Decision?”*

*“When was the Decision made?”*

*Company defined  
decision process*

## Execute Decision



You are about to execute the decision **"Update to Lead"**.

Executing this decision will cause this prospect to be assigned to the stage **"2. Lead"** and retain the status **"Active"**.

Continue with the execution of this decision?

Continue

Cancel

Dashboard Manage Status History									
Morecambe Bay Summary as of 04/25/2019									
STAGE/STATUS Current Stage: Concept Current Status: Active									
Prospects shelved can be reactivated at the Concept, Lead, Prospect or RTD stage.									
Stages	Concept	Lead	Prospect	Ready to Drill	Drilling		Post Drill Assessment	Appraisal	Development
Decisions									
Rules	1. Update to Lead 2. Shelf 3. Archive	1. Update to Prospect 2. Shelf 3. Archive	1. Assured - Update to Ready to Drill 2. Shelf 3. Archive	1. Approved for Spud 2. Shelf 3. Archive	1. Approve to Drill 2. Shelf 3. Archive	1. Drilled - Start Post Drill Assessment	1. Hand Off to Appraisal 2. Shelf 3. Archive	1. Hand Off to Development 2. Shelf 3. Archive	
			Prospect must have an Evaluation that has been Peer and Risk Reviewed, Approved and in inventory and move to the Ready to Drill Stage	Prospect must have an Evaluation that has been Peer, Risk and Manager Reviewed, Pre-Drill Approved and in inventory and move to the Drilling Stage	All environmental and government regulations have been obtained and the well planning process is complete and has been reviewed and approved. No Evaluations or Zones may be created	No Evaluations or Zones may be created	Prospect must have an Evaluation that has been Peer, Risk and Manager Reviewed, Post-Drill Approved and in inventory and move to the Appraisal Stage		
	at Concept	at Lead	at Prospect	at Ready to Drill	at Spud	at Drilling	at Post Drill Assessment	at Appraisal	at Development
	Sharnwood and Carboniferous Virel Zone MMRA.1								
	Sharnwood Sandstone Zone MMRA.1								
	Carboniferous Fluvial SST Zone MMRA.1								

*MMRA Versioning by stage  
and maturity*

# Roll-up Summary Reports

## Morecambe Bay Prospect Summary Report as of April 25, 2019

[Open Report in New Window](#)

Current Stage	Concept	Current Status	Active	Business Unit:	UK CS	Exploration Manager:	Kelly Benthien
Lead or Prospect:	Conceptual	Pre-Drill or Post Drill:	Pre-Drill	Ready to Drill:	No	Single or Multiple Zone:	Multiple
Basin	East Irish Sea	Basin Type	Passive Margin Deltaic	Type	Conventional	Zone or Prospect Analysis:	N/A

Created by [Kandy Lukats](#) on 03/28/2019

### Prospect Start & Input

Country	Terrain	Water Depth	Elevation	Total Depth - MD	Total Depth - TVD	Seismic Coverage Type	Company Unique ID (optional)
United Kingdom	N/A	N/A	N/A	N/A	N/A	4D	N/A
Operator	Concession / Permit / Block	Lease Type	Lease Expiration Date	Company Working Interest	Net Revenue Interest BPO	Net Revenue Interest APO	State
N/A	N/A	Federal	N/A	100 %	N/A	N/A	N/A
County / Parish	Township / Range / Section	API Well Classification	Field Name				
N/A	N/A	N/A	N/A				

### Prospect Optional Extended Header

Partners (with W.I.)	Mineral Acreage or Block ID	Cost Interest	Revenue Interest	Commitments	Promotes
N/A	N/A	N/A	N/A	N/A	N/A

### Evaluations

Zone Type	Primary Target	Aggregate Type	Zone Name	Zone Number	Evaluation Type	Status	Pre-Drill Approved	Post-Drill Approved	Link	Created by	Created Date
Multi-Zone	N/A	Prospect Total $\Sigma$	Sherwood and Carboniferous	N/A	MZM	Current - Approved	N/A	N/A	<a href="#">Morecambe Bay</a>	<a href="#">Kandy Lukats</a>	03/31/2019

Example of a Prospect roll-up Summary Report

Links to technical evaluations documents or other deep-dive information within Prospects



All Prospects within BU/Basins etc.

### Prospects

Viewing: UK CS

View Columns Filters Export

Basins Prospects Zones Evaluations Start & Input Key Assignments

Filter: None applied

Find in Results...

Basin	Stage	Status	Resource Type	Prospect	Single ...	# Zones	WI	EUR	WI EUR
East Irish Sea	1. Concept	Active	Conventional	Morecambe Bay	Multiple	2	100.0 %	84.10	84.10
East Irish Sea	1. Concept	Active	Unconventional	Arya		1	50.0 %	49.88	
East Irish Sea	1. Concept	Active	Conventional	Benjen	Multiple	2	50.0 %	5.42	2.71
East Irish Sea	1. Concept	Active	Conventional	Ned	Multiple	1	35.0 %	1.92	0.67

# Overview Inventory Dashboards

Prospects Prospects by Country

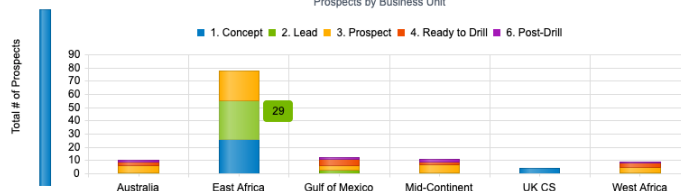
Filter: None applied

Find in Results...

Business Unit	Basin	Stage	Status	Resource Type	Prospect	Single or ...	# Single...	WI	EUR	WI EUR	Riskd WI EUR	Chance Weight...	Pg	Pc	Pe	Priority
Gulf of Mexico	Gulf of Mexico	4. Ready to Drill	Active	Conventional	Rhine	Single	1	30.0 %	628.52	188.56	43.18	143.93	0.23	0.23	0.23	
Gulf of Mexico	Gulf of Mexico	4. Ready to Drill	Active	Conventional	Severn	Single	1	20.0 %	485.07	97.01	97.01	485.07	1.00	1.00	1.00	
Australia	Carnarvon Basin	4. Ready to Drill	Active	Conventional	Lachlan	Single	1	40.0 %	462.65	185.06						
Australia	Carnarvon Basin	3. Prospect	Active	Conventional	Yarra	Single	1	40.0 %	429.84	171.94						
Australia	Carnarvon Basin	4. Ready to Drill	Active	Conventional	Murray	Single	1	60.0 %	389.31	233.59						
Gulf of Mexico	Gulf of Mexico	3. Prospect	Active	Conventional	Rhone	Single	1	30.0 %	355.54	106.66						
Gulf of Mexico	Gulf of Mexico	4. Ready to Drill	Active	Conventional	McKenzie	Single	1	20.0 %	348.60	69.72						
Australia	Carnarvon Basin	3. Prospect	Active	Conventional	Bogan	Single	1	50.0 %	321.75	160.88						
Australia	Carnarvon Basin	3. Prospect	Active	Conventional	Snowy	Single	1	60.0 %	246.90	148.14						
Australia	Carnarvon Basin	3. Prospect	Active	Conventional	Barwon	Single	1	50.0 %	245.57	122.79						
Gulf of Mexico	Gulf of Mexico	4. Ready to Drill	Active	Conventional	Thames	Multiple	2	35.0 %	228.99	80.15						
Australia	Carnarvon Basin	3. Prospect	Active	Conventional	Darling	Single	1	60.0 %	210.61	126.37						
Gulf of Mexico	Gulf of Mexico	2. Lead	Active	Conventional	Amazon	Single	1	30.0 %	206.67	62.00	26.54	88.45	0.43	0.43	0.42	
Gulf of Mexico	Gulf of Mexico	2. Lead	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Gulf of Mexico	Gulf of Mexico	3. Prospect	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Australia	Carnarvon Basin	6. Post-Drill	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Gulf of Mexico	Gulf of Mexico	2. Lead	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
West Africa	Lower Congo	2. Lead	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
West Africa	Lower Congo	4. Ready to Drill	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Gulf of Mexico	Gulf of Mexico	6. Post-Drill	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
West Africa	Lower Congo	3. Prospect	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Australia	Carnarvon Basin	2. Lead	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
East Africa	Ruvu Basin	1. Concept	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
West Africa	Lower Congo	3. Prospect	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Gulf of Mexico	Gulf of Mexico	3. Prospect	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
East Africa	Ruvu Basin	2. Lead	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	
Australia	Carnarvon Basin	4. Ready to Drill	Active	Conventional	Umpqua	Single	1	40.0 %	199.45	98.97	74.00	17.00	0.25	0.25	0.25	

Prospect inventory list  
sortable by BU, Basin,  
Current Pg, Current  
EUR, WI, priority etc.

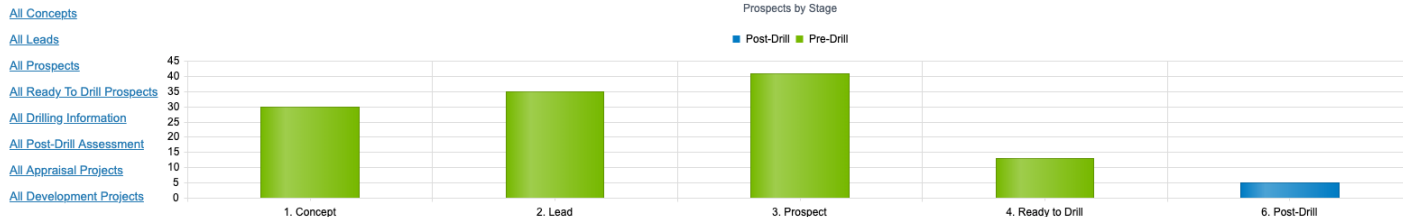
Prospects by Business Unit



Prospects by Country



Prospects by Stage



[All Concepts](#)

[All Leads](#)

[All Prospects](#)

[All Ready To Drill Prospects](#)

[All Drilling Information](#)

[All Post-Drill Assessment](#)

[All Appraisal Projects](#)

[All Development Projects](#)

Overview visualization of  
Prospect inventory in  
entire Appra system

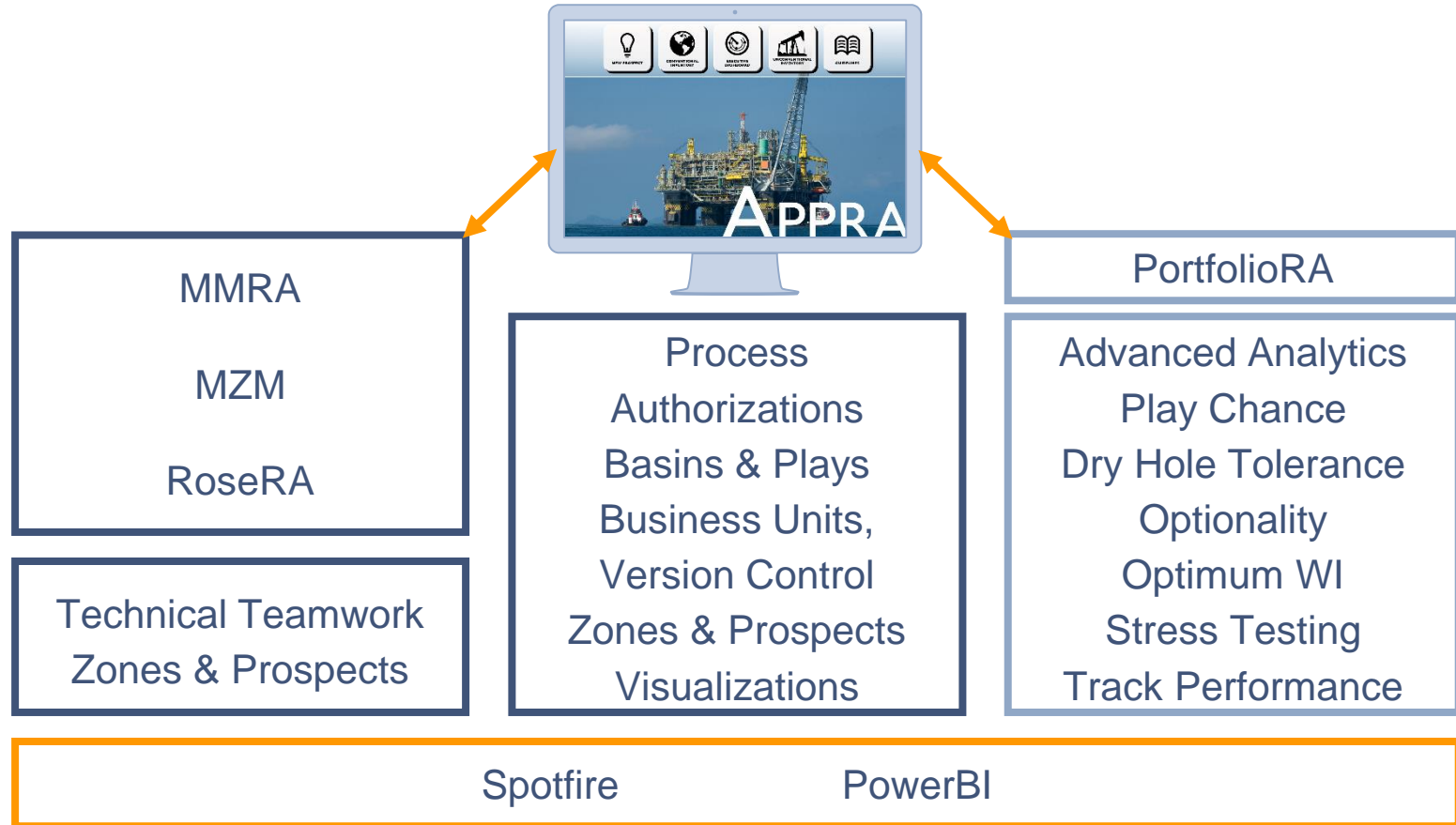
# Evaluations

<div> <div>MMRA Results</div> <div>MZM Results</div> <div>URA Results</div> <div>All Evaluations</div> <div>All Evaluation Workbooks</div> </div>										
Filter: None applied										Find in Results...
Business Unit	Tool	Stage	MMRA	Included in Inventory	EUR Geol Chance	Chanced Weighted EUR	Resources EUR Geol Equiv Mean	Riskd WI EUR	WI EUR	
Australia	MMRA	2. Review	Lachlan, Mungaroo, Lower MMRA 4		80.0 %	507.50	634.38	203.00	253.75	
Gulf of Mexico	MMRA	3. Approved	Rhine, Wilcox 2 MMRA 4	✓ Included	22.9 %	143.93	628.52	43.18	188.56	
Gulf of Mexico	MMRA	2. Review	Rhone, Wilcox MMRA 4		64.1 %	367.99	574.09	110.40	172.23	
Australia	MMRA	3. Approved	Lachlan, Mungaroo, Lower MMRA 2		85.0 %	474.84				
Gulf of Mexico	MMRA	3. Approved	Severn, Wilcox 3 MMRA 3	✓ Included	100.0 %	485.07				
Australia	MMRA	3. Approved	Lachlan, Mungaroo, Lower MMRA 3	✓ Included	90.0 %	416.39				
Australia	MMRA	3. Approved	Murray, Mungaroo , Upper MMRA 2		85.5 %	384.95				
Australia	MMRA	3. Approved	Yarra, Mungaroo, Lower MMRA 3	✓ Included	85.0 %	365.36				
Australia	MMRA	2. Review	Yarra, Mungaroo, Lower MMRA 4		95.0 %	401.35				
Gulf of Mexico	MMRA	2. Review	Severn, Wilcox 3 MMRA 4		100.0 %	422.20				
Gulf of Mexico	MMRA	3. Approved	McKenzie, Wilcox MMRA 2		19.7 %	77.32	392.47	15.46	78.49	
Australia	MMRA	3. Approved	Murray, Mungaroo , Upper MMRA 3	✓ Included	85.5 %	332.86	389.31	199.72	233.59	
Australia	MMRA	3. Approved	Bogan, Mungaroo, Lower MMRA 2		75.2 %	285.17	379.21	142.59	189.61	
Gulf of Mexico	MMRA	3. Approved	McKenzie, Wilcox MMRA 3		28.6 %	105.01	367.16	21.00	73.43	
Australia	MMRA	3. Approved	Murray, Mungaroo , Upper MMRA 1		72.0 %	263.30	365.69	157.98	219.41	
Gulf of Mexico	MMRA	3. Approved	Rhone, Wilcox MMRA 3	✓ Included	54.4 %	193.41	355.54	58.02	106.66	
Australia	MMRA	2. Review	Murray, Mungaroo , Upper MMRA 4		90.0 %	318.72	354.13	191.23	212.48	
Australia	MMRA	3. Approved	Yarra, Mungaroo, Lower MMRA 2		67.5 %	238.83	353.82	95.53	141.53	
Gulf of Mexico	MMRA	3. Approved	McKenzie, Wilcox MMRA 4	✓ Included	25.9 %	90.29	348.60	18.06	69.72	
Gulf of Mexico	MMRA	3. Approved	Rhine, Wilcox 2 MMRA 3		17.8 %	59.09	331.94	17.73	99.58	
Australia	MMRA	3. Approved	Darling, Mungaroo , Upper MMRA 1		71.2 %	234.16	328.88	140.50	197.33	
Australia	MMRA	2. Review	Darling, Mungaroo , Upper MMRA 4		71.2 %	234.16	328.88	140.50	197.33	
Australia	MMRA	2. Review	Bogan, Mungaroo, Lower MMRA 4		100.0 %	328.57	328.57	164.29	164.29	
Australia	MMRA	3. Approved	Bogan, Mungaroo, Lower MMRA 3		95.0 %	305.66	321.75	152.84	160.88	
Australia	MMRA	3. Approved	Yarra, Mungaroo, Lower MMRA 1		76.5 %	237.84	310.90	95.14	124.36	
Gulf of Mexico	MMRA	2. Review	Limpopo, Wilcox MMRA 2		23.8 %	73.46	308.66	11.02	46.30	
Gulf of Mexico	MMRA	2. Review	Amazon, Wilcox MMRA 3		48.4 %	146.40	302.48	43.92	90.74	

Evaluation results of  
global prospect  
inventory

Evaluation versions,  
stage & status, and  
key identifiers

# Foundation & Infrastructure



# Deploying Appra



## LICENCE

The Technology

Day



## 'FIT'

To Your Needs

Days / Weeks



## GO

Software Installation



Configure



Train & Handoff



# Summary

Appra is prospect inventory management made easy

Every employee,  
one source of data



Prospect control  
Prospect context

Ready to deploy  
Easy to maintain



Improve vertical productivity  
Improve horizontal productivity

Simple, scalable,  
sustainable, secure



Timely, valid, accurate &  
understandable information

“

*Appra is built to adapt to a company's decision framework.*

*Exploration and risk managers are able to deploy company-wide processes to best manage their portfolio.*

Peter Carragher, Managing Partner, Rose & Associates