Rose & Associates

Courses Consulting Software

Improving E & P Effectiveness

Rose & Associates (R&A) teaches courses, consults and, through our software company, Lognormal Solutions, Inc. (LSi) provides software solutions in the field of quantitative prospect and play analysis.

Our experienced geoscientists and engineers serve our global client base via professional and personal service.

www.roseassoc.com

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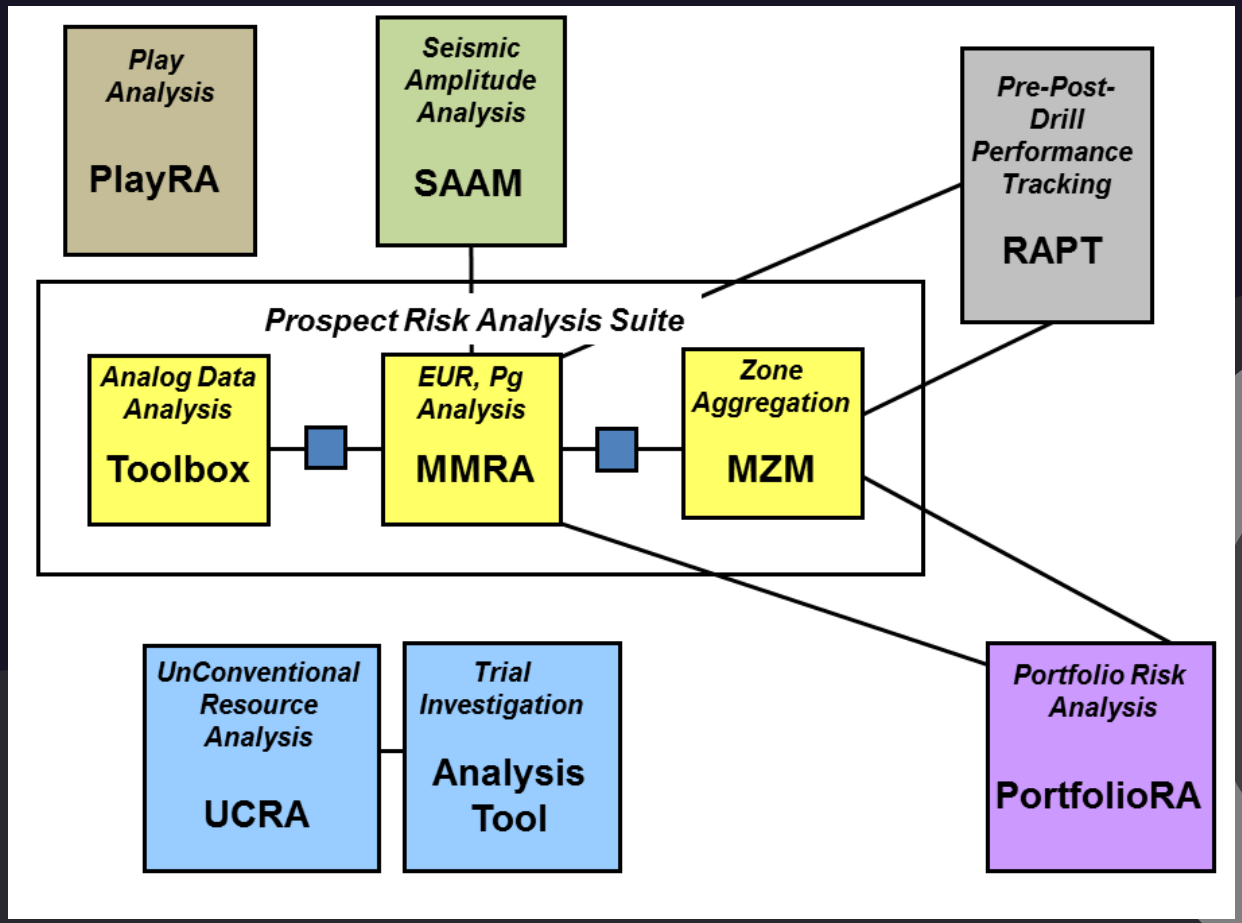

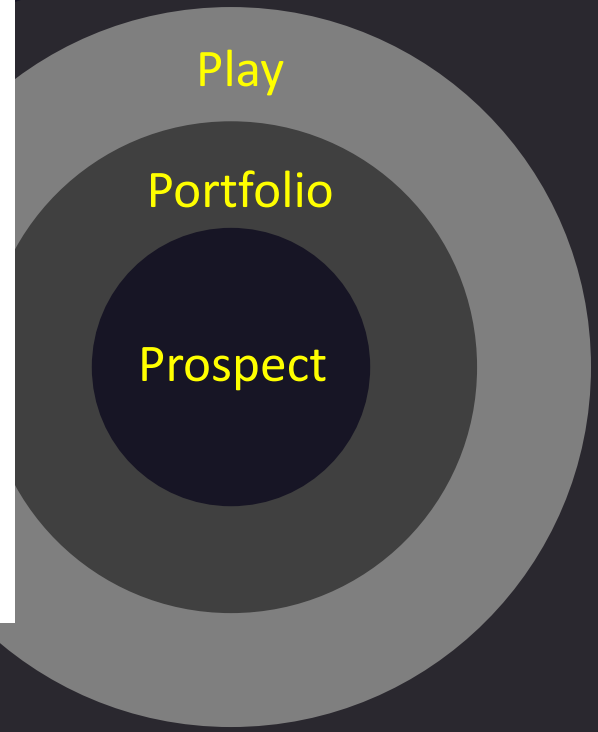

Improving E & P Effectiveness

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Prospect Risk Analysis Suite

MMRA, Toolbox & Multi-Zone Master

PortfolioRA

UCRA

PlayRA

SAAM

RAPT

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Prospect Risk Analysis Suite

MMRA

Probabilistic resource estimation via
- multiple distribution shapes with ability to correlate parameters

Multiple methods of resource assessment
- area-net pay-recovery yield (RY)
- area vs depth; rate-time
- rock volume-N/G-RY
- scenario aggregation

Chance assessment at the prospect and play level

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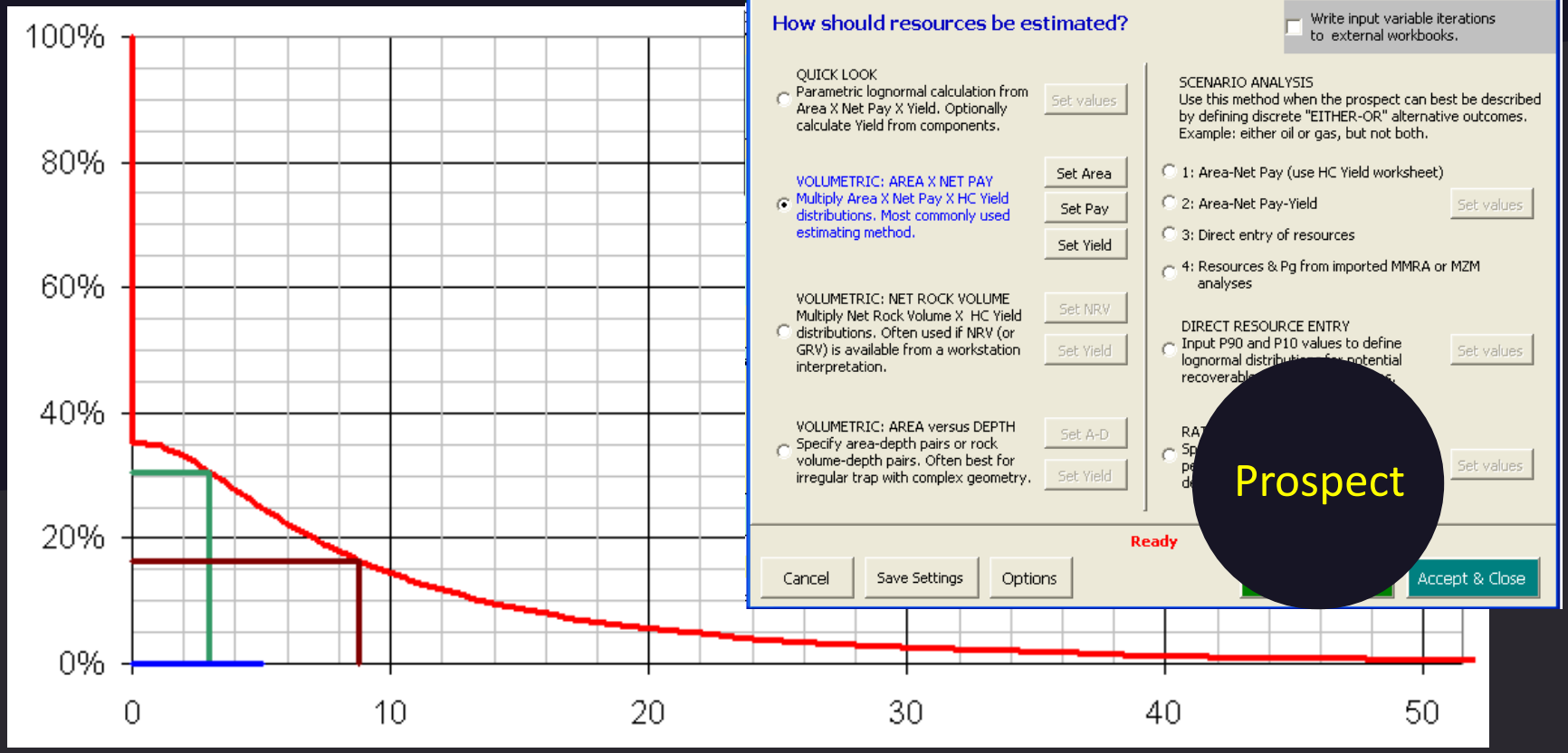
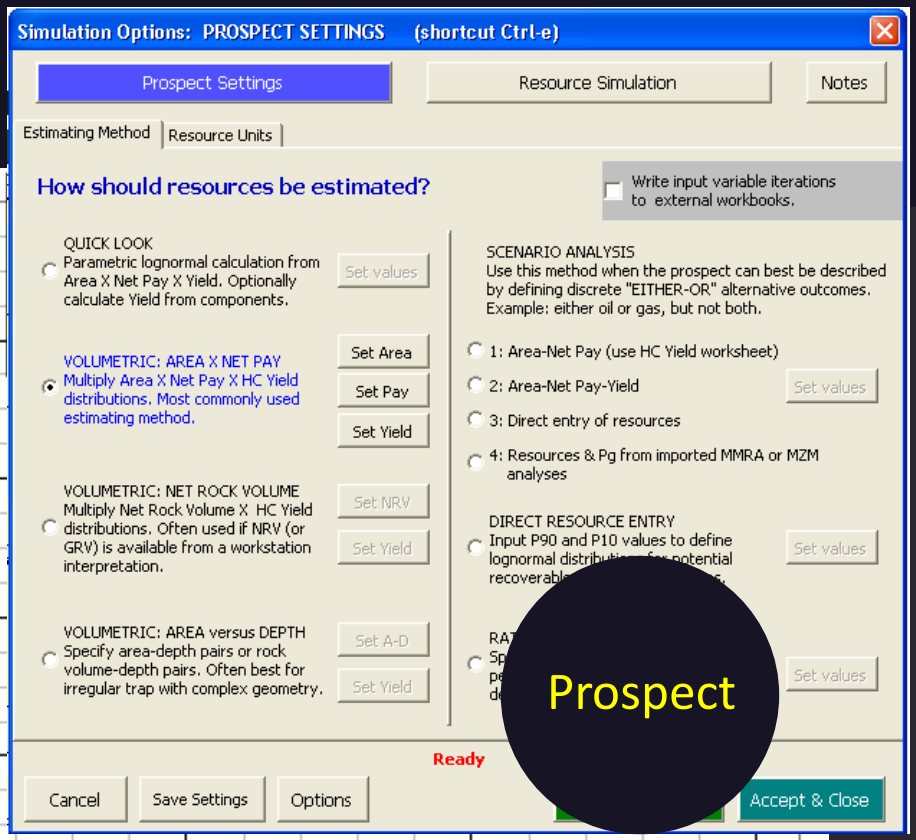
MMRA





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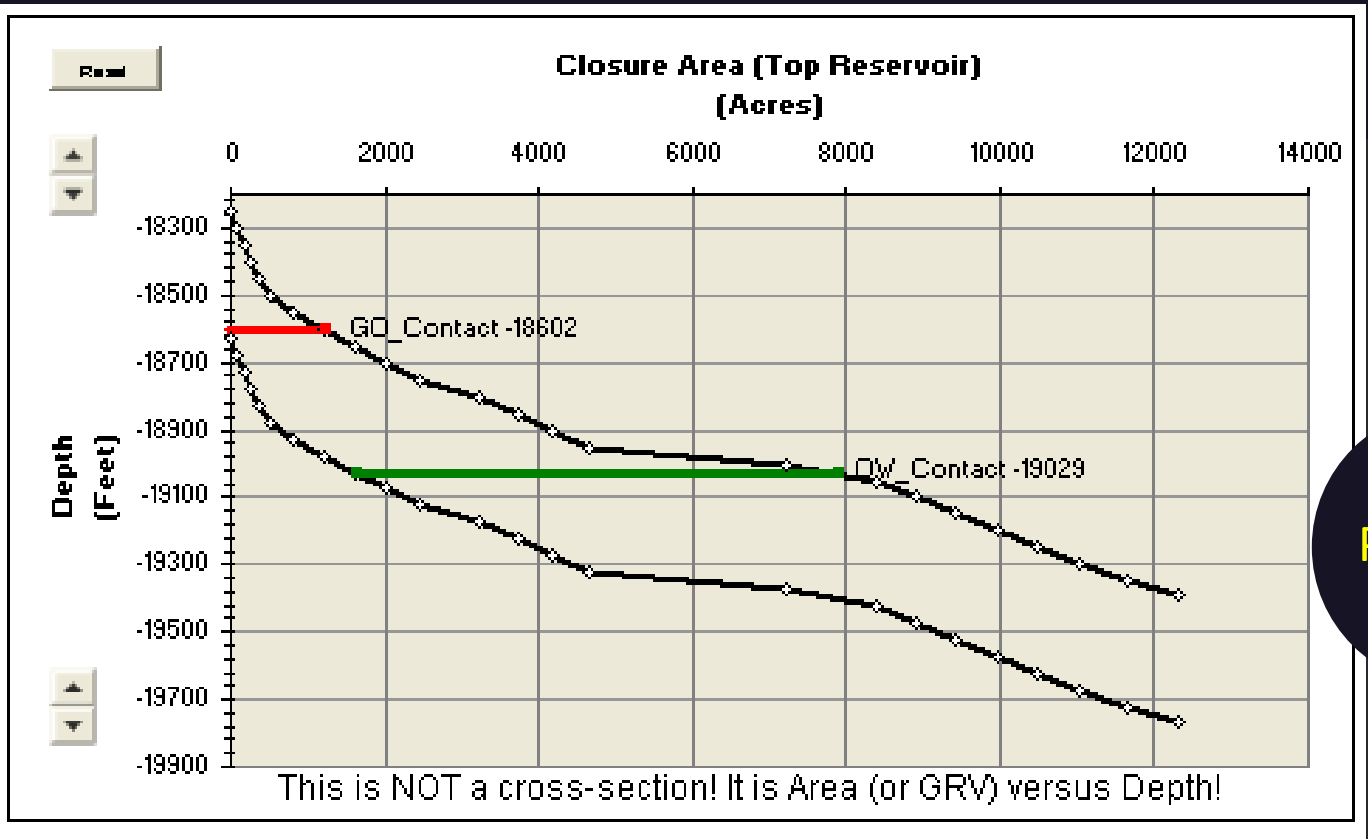
MMRA



Prospect

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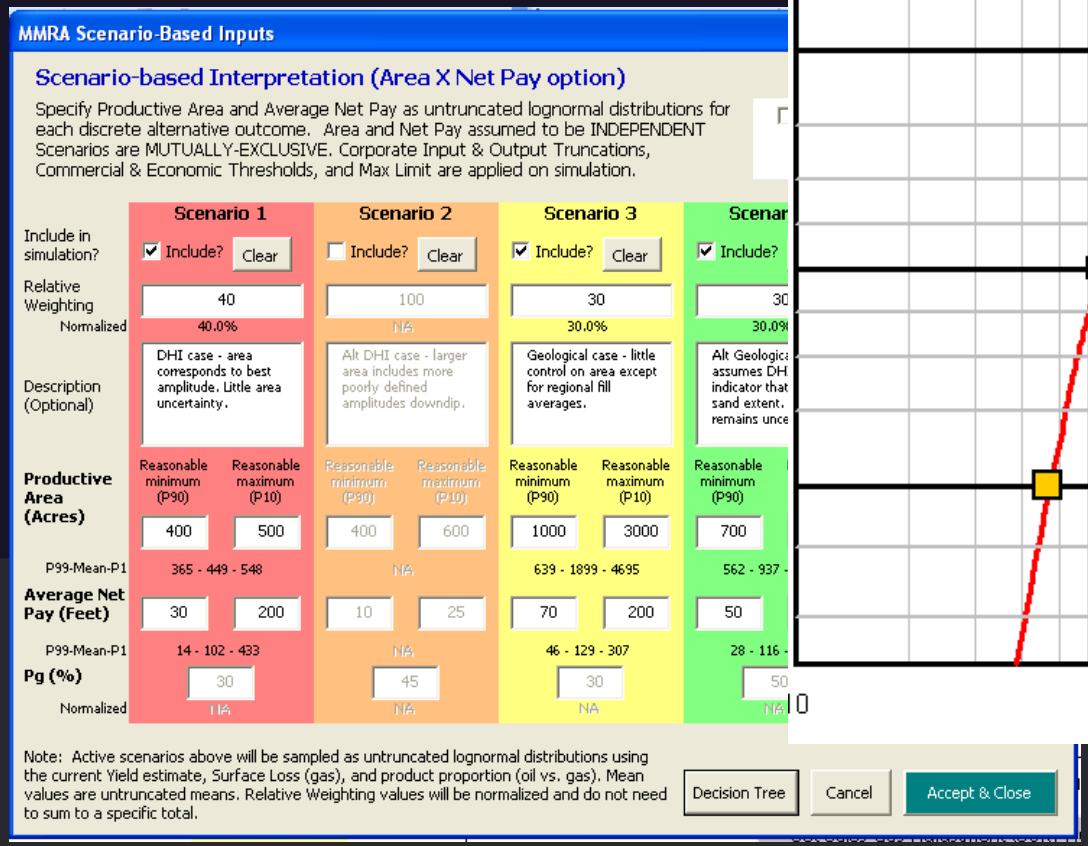
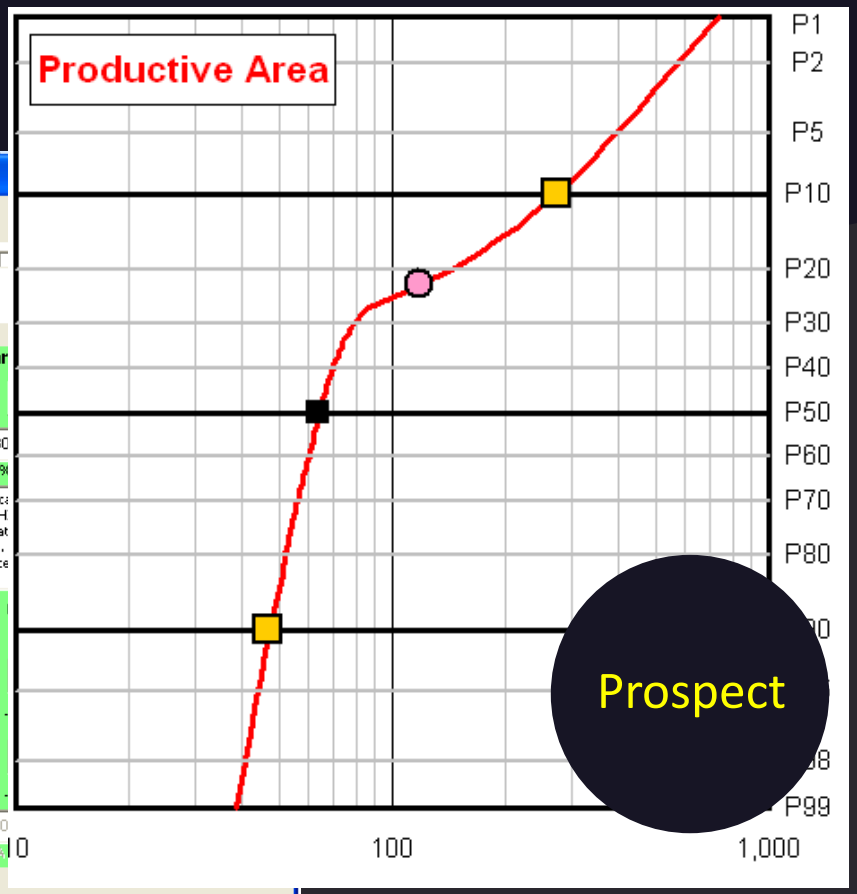
MMRA





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Prospect Risk Analysis Suite

Toolbox

Enhanced plotting of five series each with up to 10,000 values

Multiple curve fitting and numerical clipping options

Curve fit results exportable to MMRA

Volume change and gas shrinkage calculators

Lognormal distribution comparison

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Prospect Risk Analysis Suite

Multi-Zone Master

Aggregates resources and Pg for up to 5 zones
Flexible ways to model chance dependency
and resource correlations
Zone combinations reported for cash flow modeling
Import / export from MMRA & MZM

Prospect

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PortfolioRA: aggregation of prospects

Quickly captures prospect details via direct entry or import from MMRA or Multi-Zone Master

Provides ranking on five metrics, color coded by quartile

Numerous cross plots of prospect entries

Quickly incorporates costs, prospect value ranges and variable budget constraints

Aggregates and sorts resources, value and number of discoveries with proprietary Monte Carlo engine

Portfolio

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PortfolioRA: aggregation of prospects

(REQUIRED) Number of Active & Inactive Prospects in Database Total=20	Key		1st Q	2nd Q	3rd Q	4th Q
	Investment Efficiency	Net EMV	NRI Chance-weighted Mean	NRI Upside Resources	Pc	Custom
Bluebird	7	1	1	1	11	1
blue porpoise	2	2	3	3	9	2
blue hawk	6	4	5	5	7	5
blue albatross	4	13	14	13	14	17
black cat	3	6	6	10	5	7
red dog	15	11	12	8	13	14
blue buzzard	1	17	16	17	6	11

Portfolio

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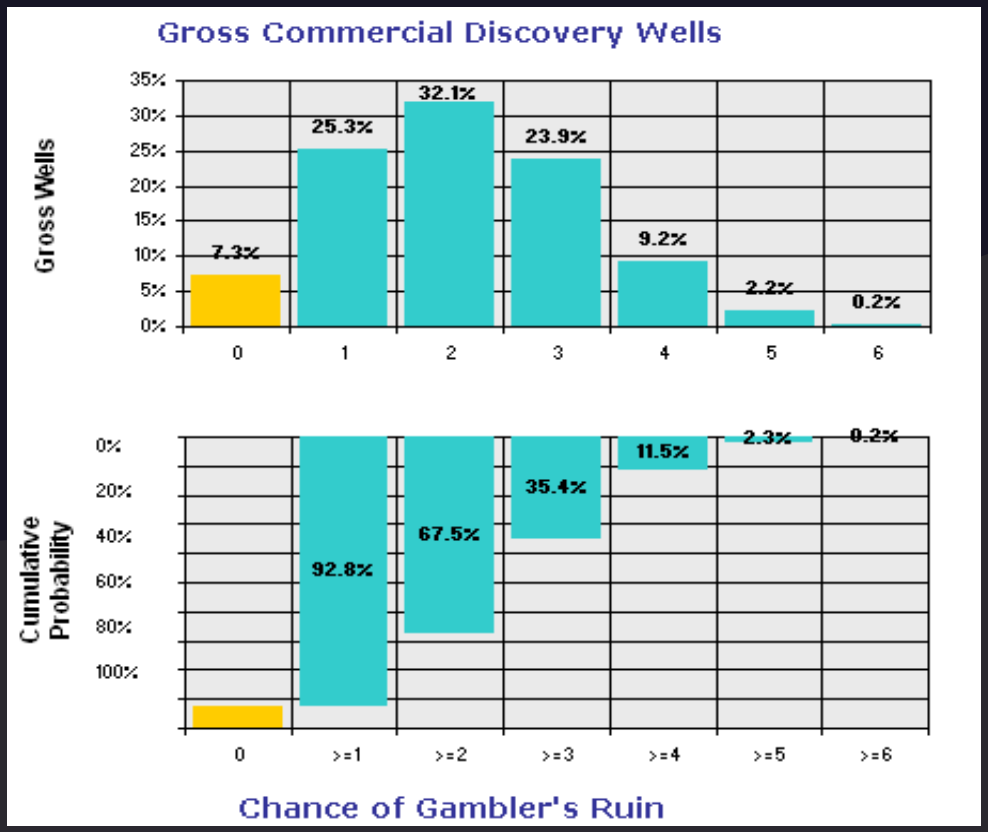
PortfolioRA: aggregation of prospects



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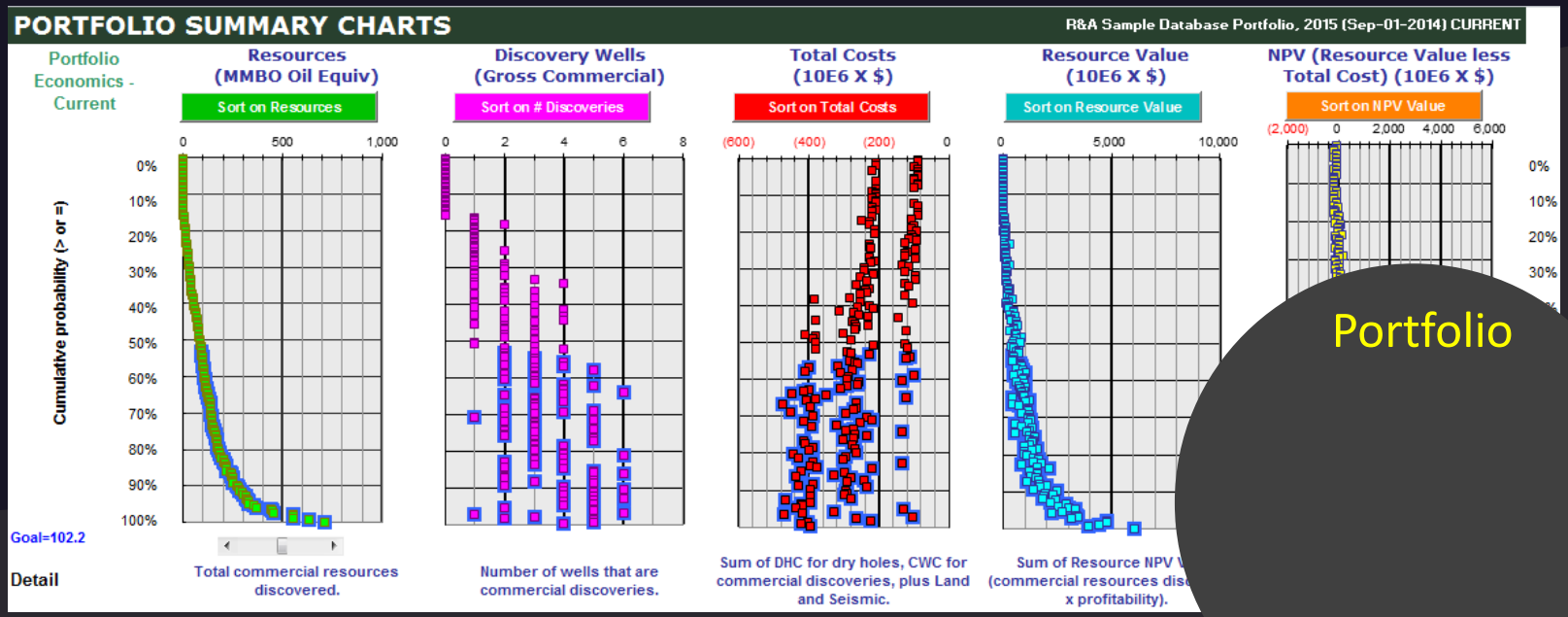
PortfolioRA: aggregation of prospects



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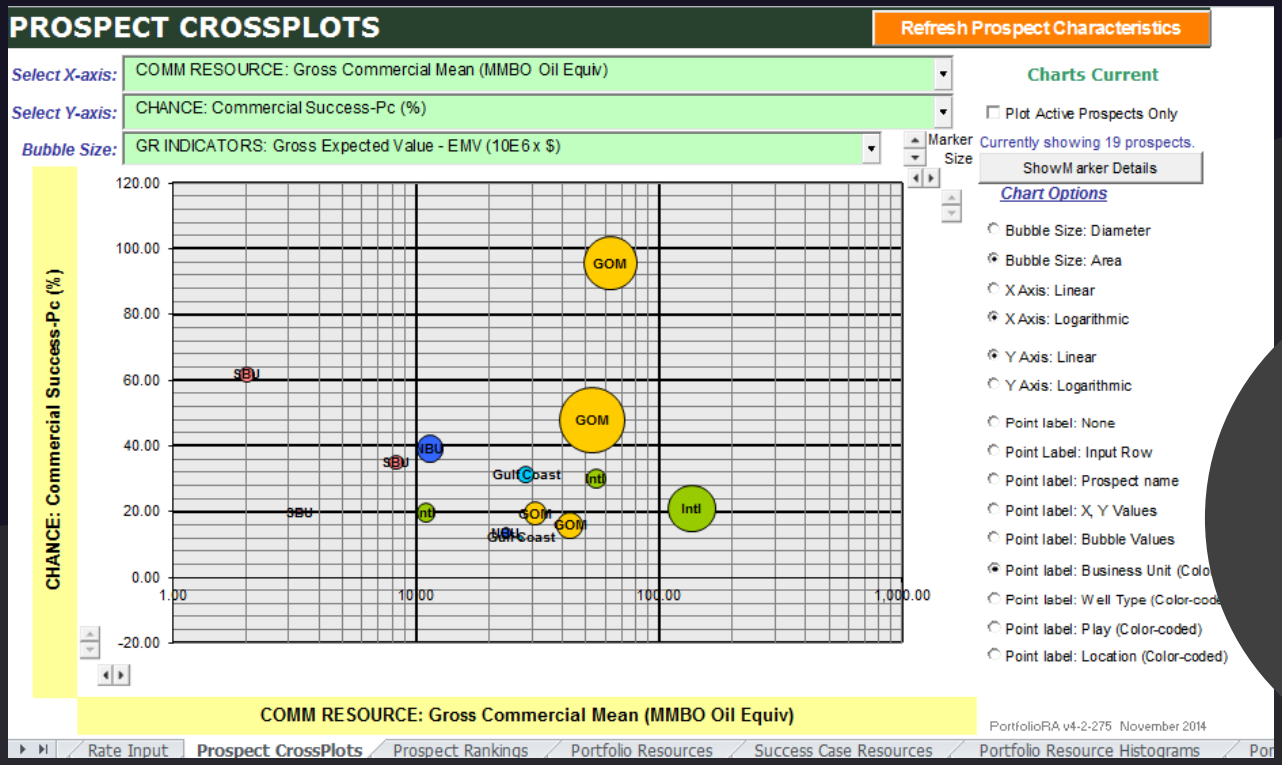
PortfolioRA: … and much more: CrossPlots



Portfolio

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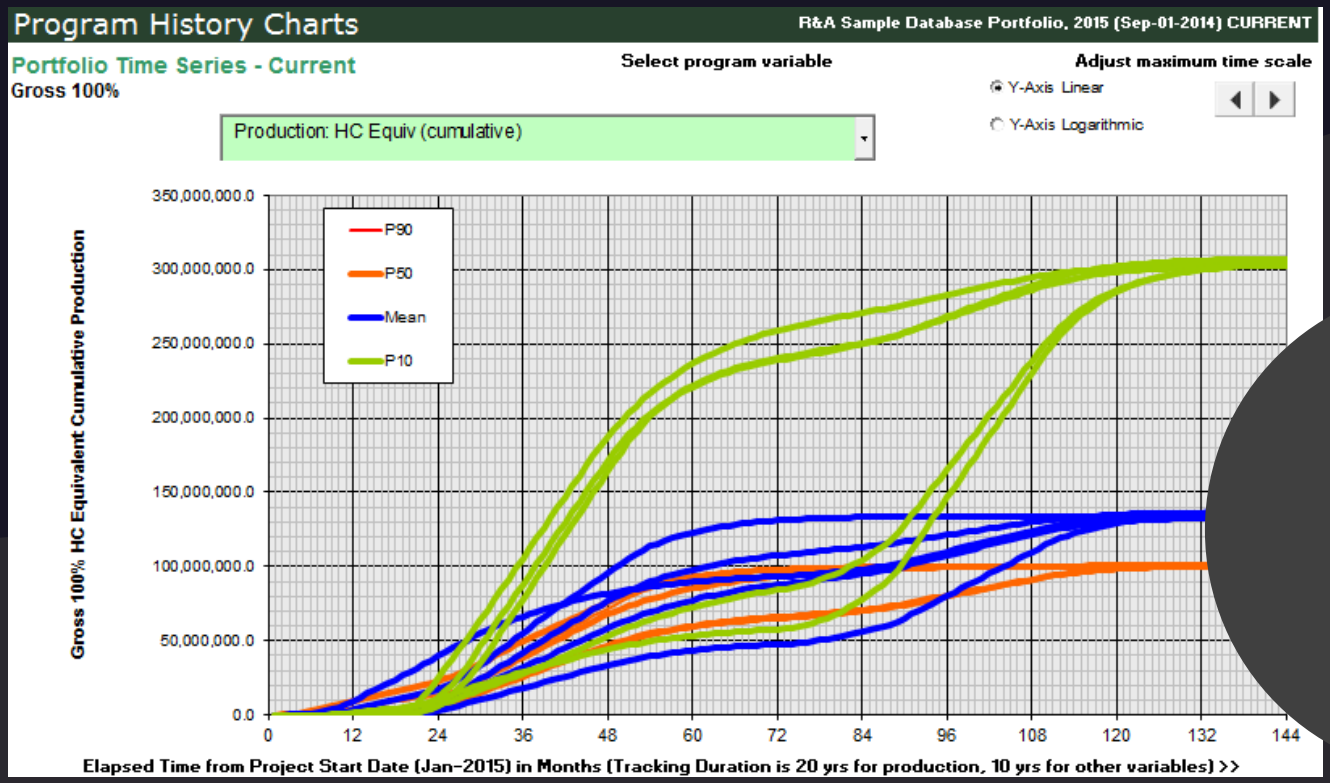
PortfolioRA: … and much more: Time Series



Portfolio

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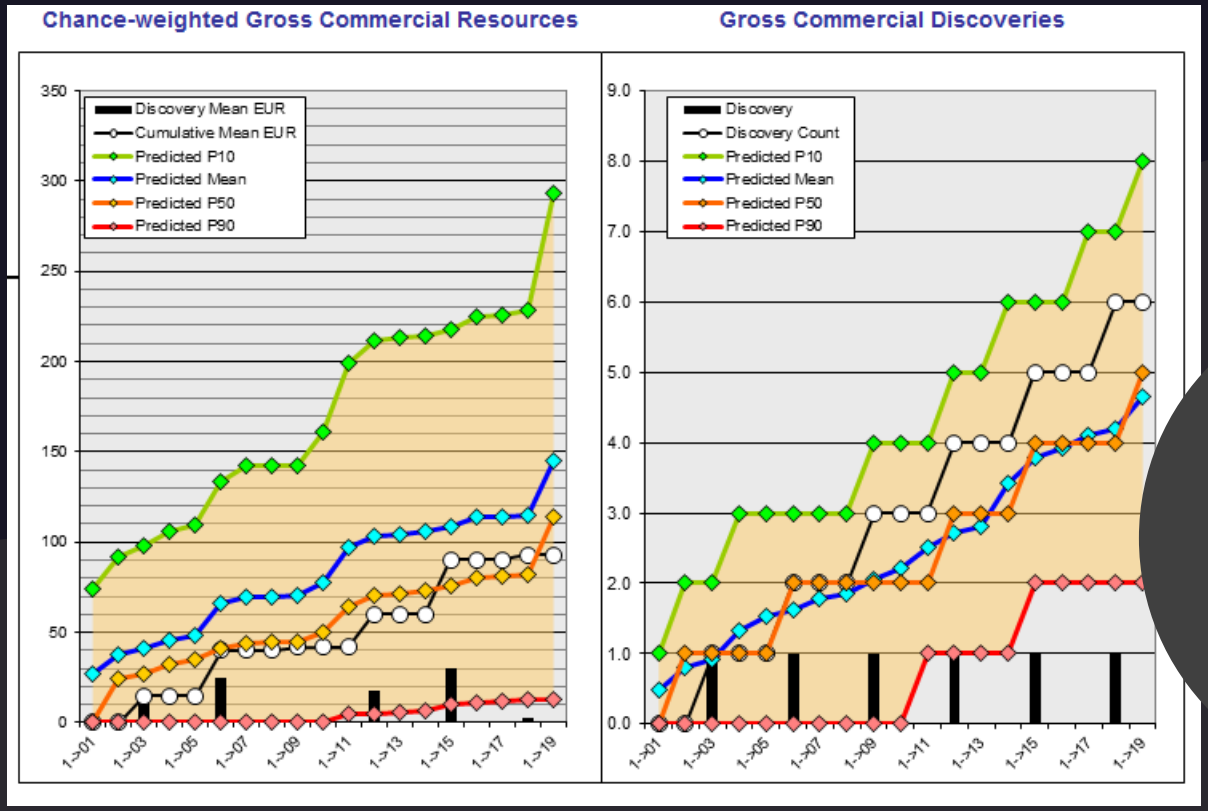
PortfolioRA: … and much more: Seq Accumulation



Portfolio

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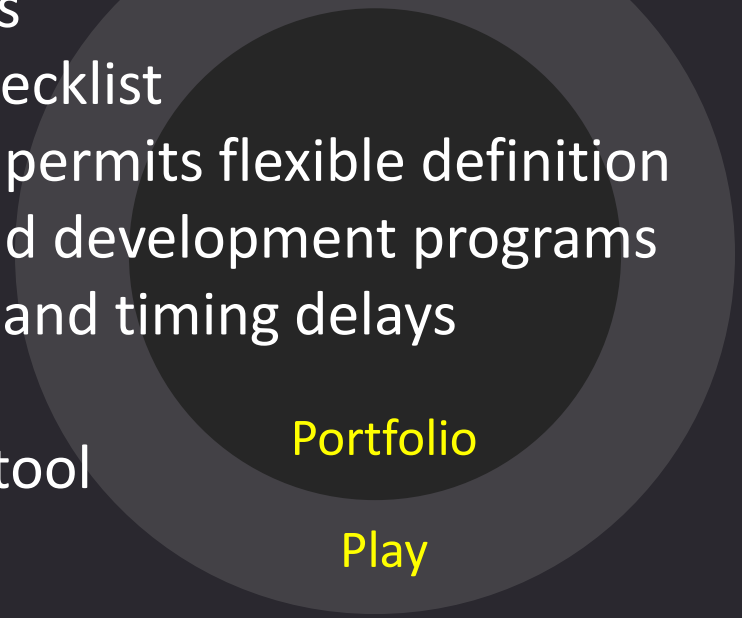
UCRA: UnConventional Resource Analysis

- A fully stochastic cash flow model that incorporates per well resources from type curves and simulates play resources from drilling programs and classical volumetric techniques
- Fully customizable chance checklist
- Staged investment approach permits flexible definition of the play, pilot(s) and development programs
- Incorporates learning curves and timing delays
- Models oil, gas and NGL
- Comes with its own analysis tool



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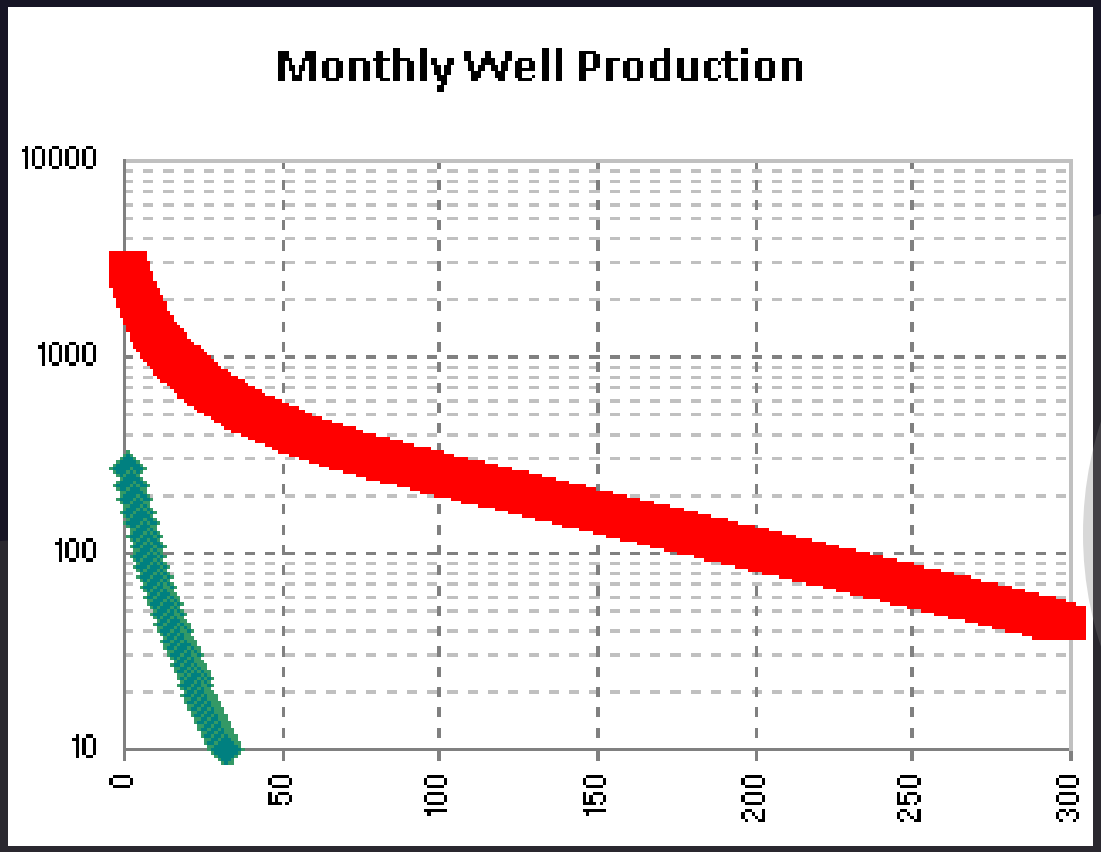

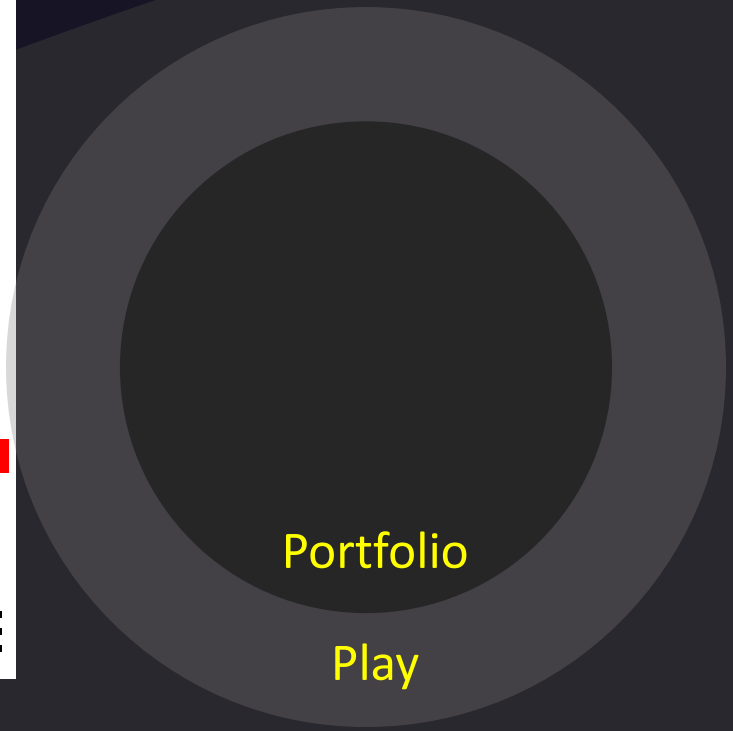

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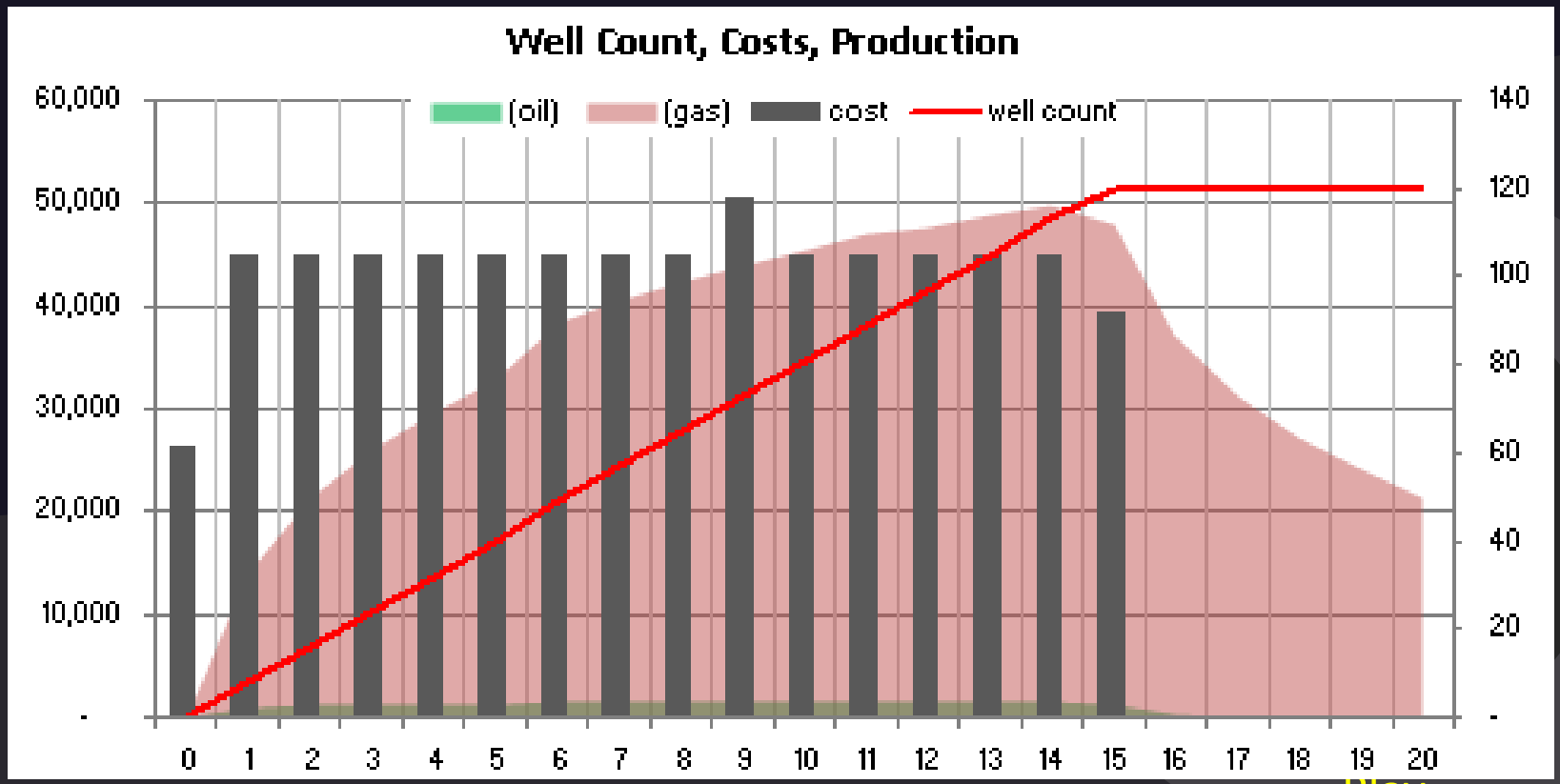

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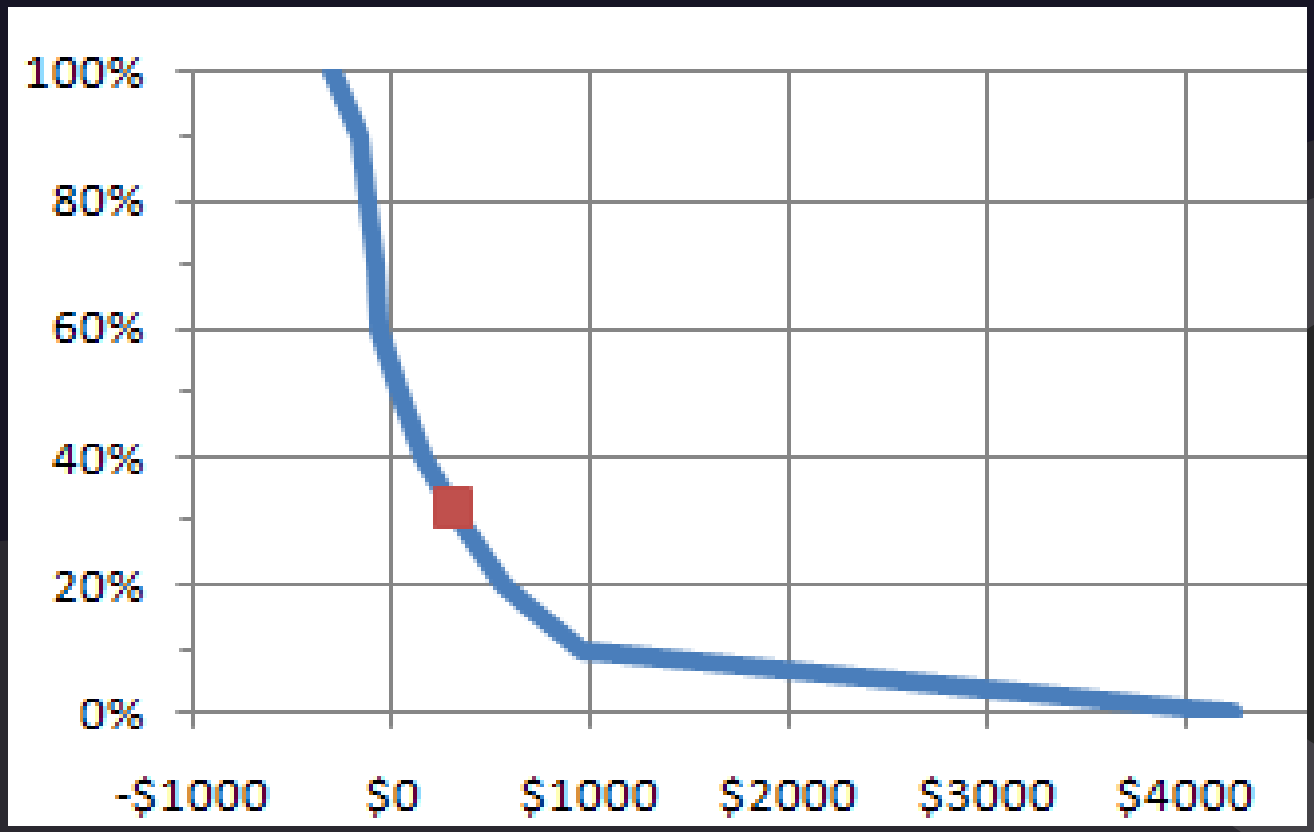

Portfolio

Play

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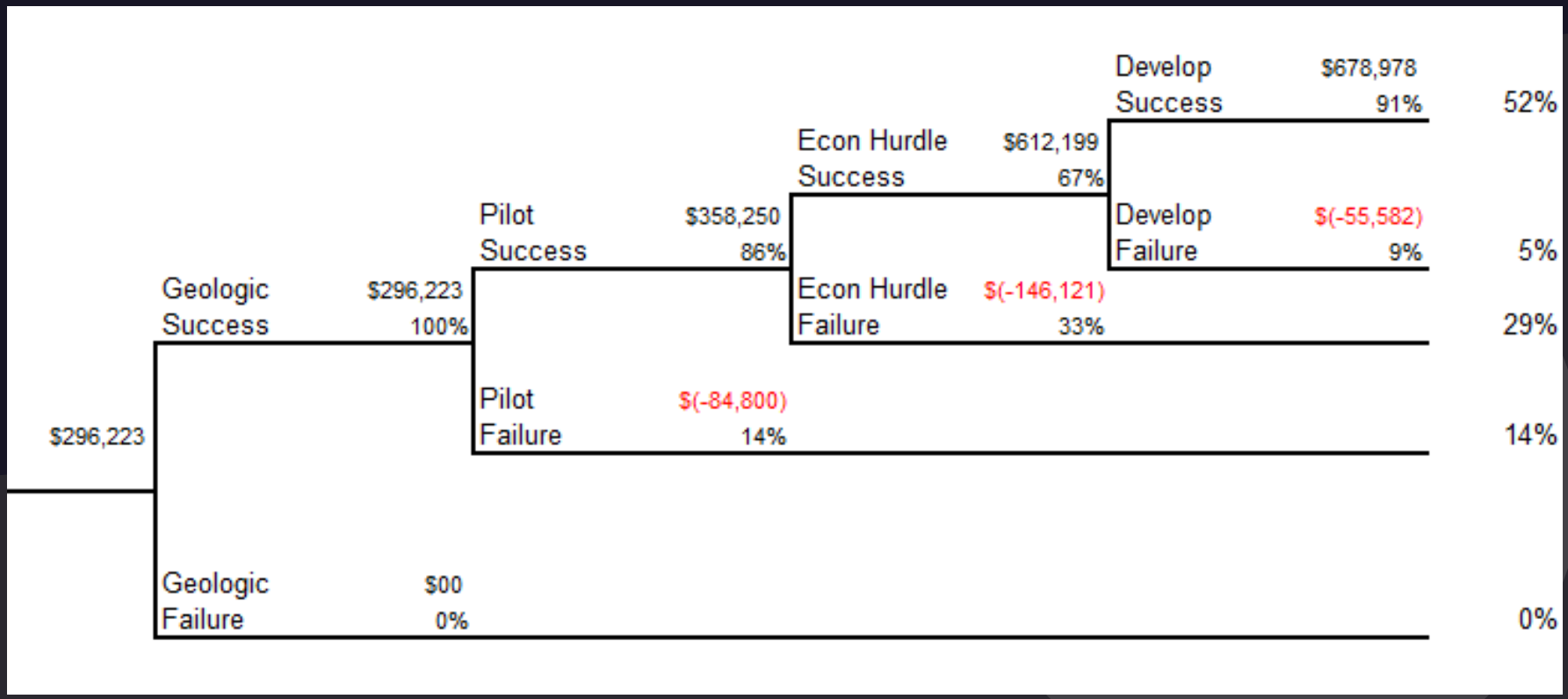

Play

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PlayRA: Play Assessment

Play Resources from forecast field size or well size distribution, chance and operational plans

Shared and prospect success rate

Full accounting of well tolerance levels and staged investments

Input PV/resource distributions that interact with play resources to determine play value

Extensive reporting and graphing of success cases and failure cases

Play

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PlayRA: Play Assessment

Chance profiles
DHT & Activity base
FSD & MEFS
DH & SC program costs
Dependencies
NPV per BOE

Economic Resources
Success Case Value
Program Pe
Wells Drilled per Sim
Expected Value
Play Investment Efficiency

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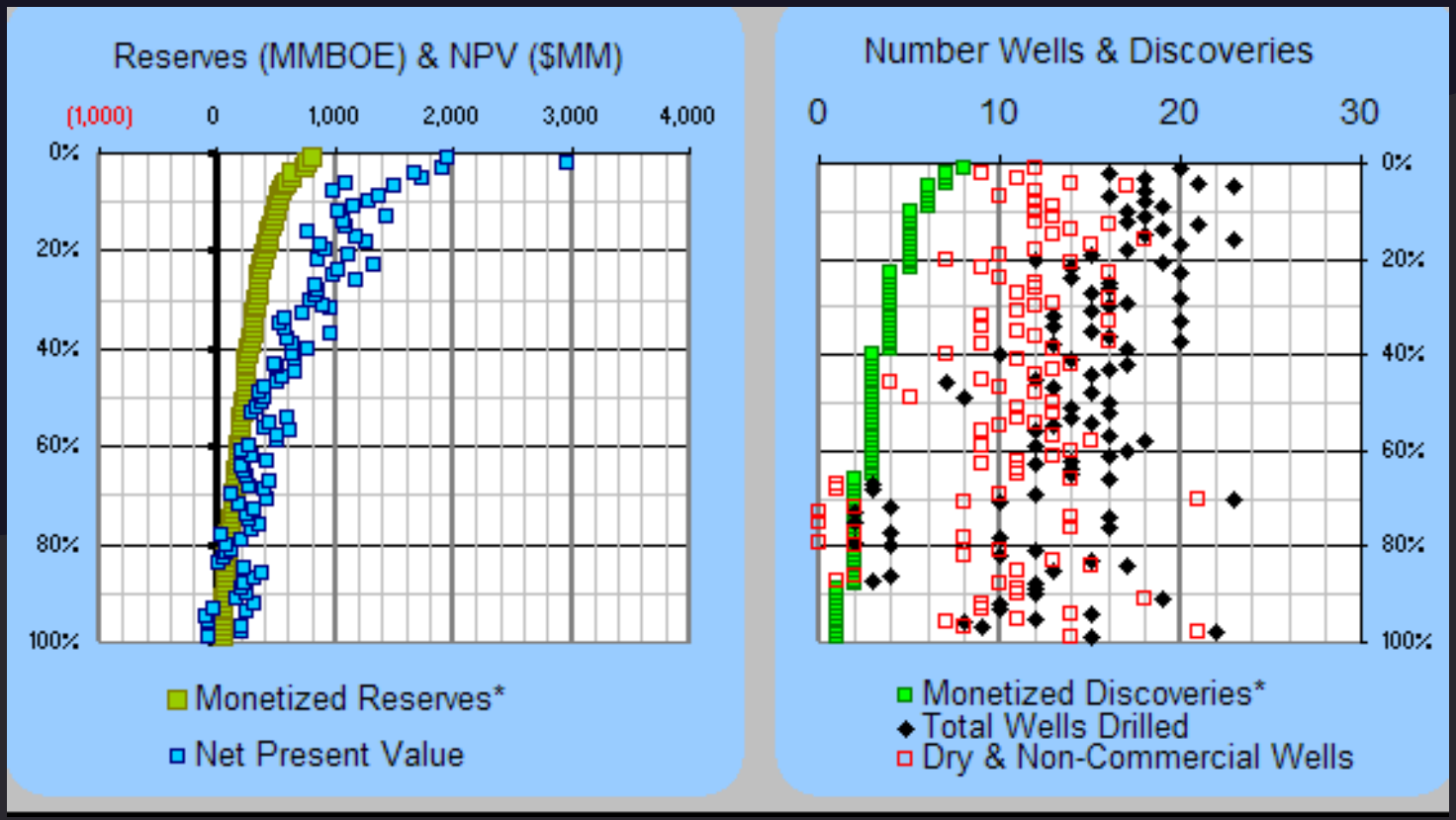
PlayRA: Play Assessment



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SAAM: Seismic Amplitude Analysis Module

Generated by the DHI Risk Analysis Consortium, ensuring a broad perspective from company experts

Facilitates a systematic and comprehensive grading of amplitude characteristics, associated rock property models and seismic data quality attributes

Prospect

Membership in the DHI Consortium guarantees delivery of the extensive database compiled since 2000 for calibration purposes

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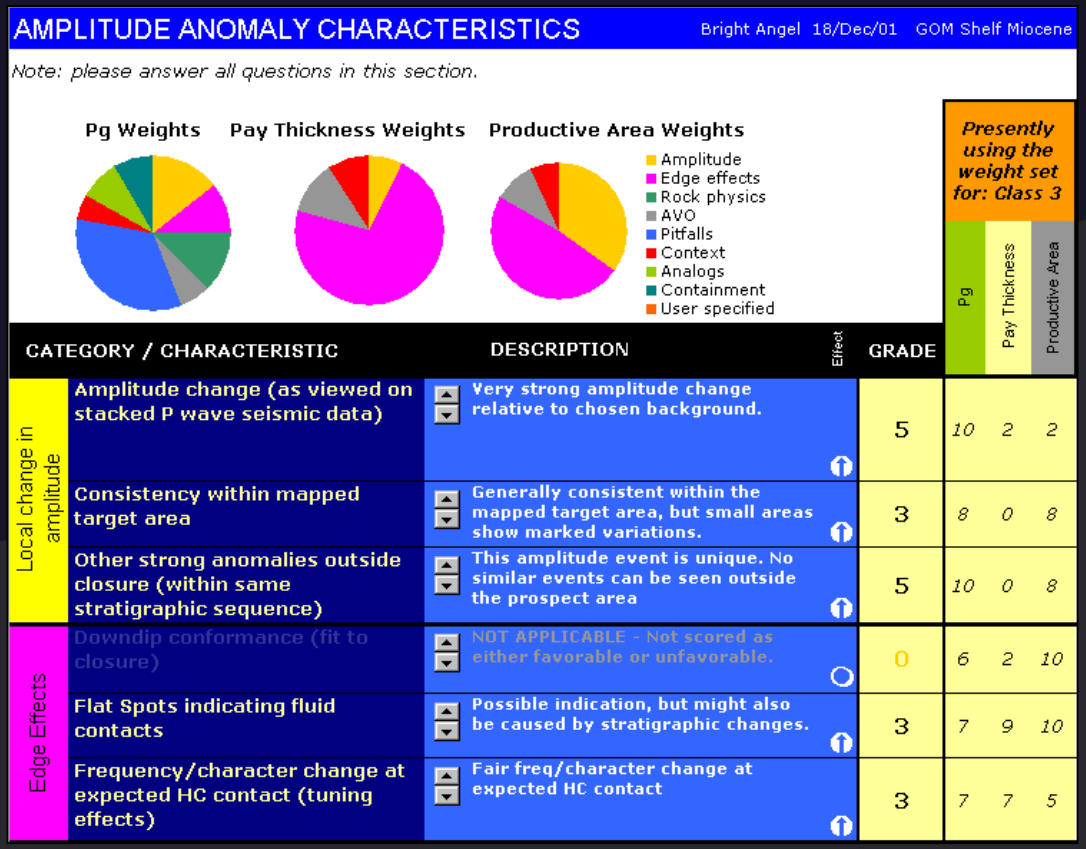
SAAM: Seismic Amplitude Analysis Module



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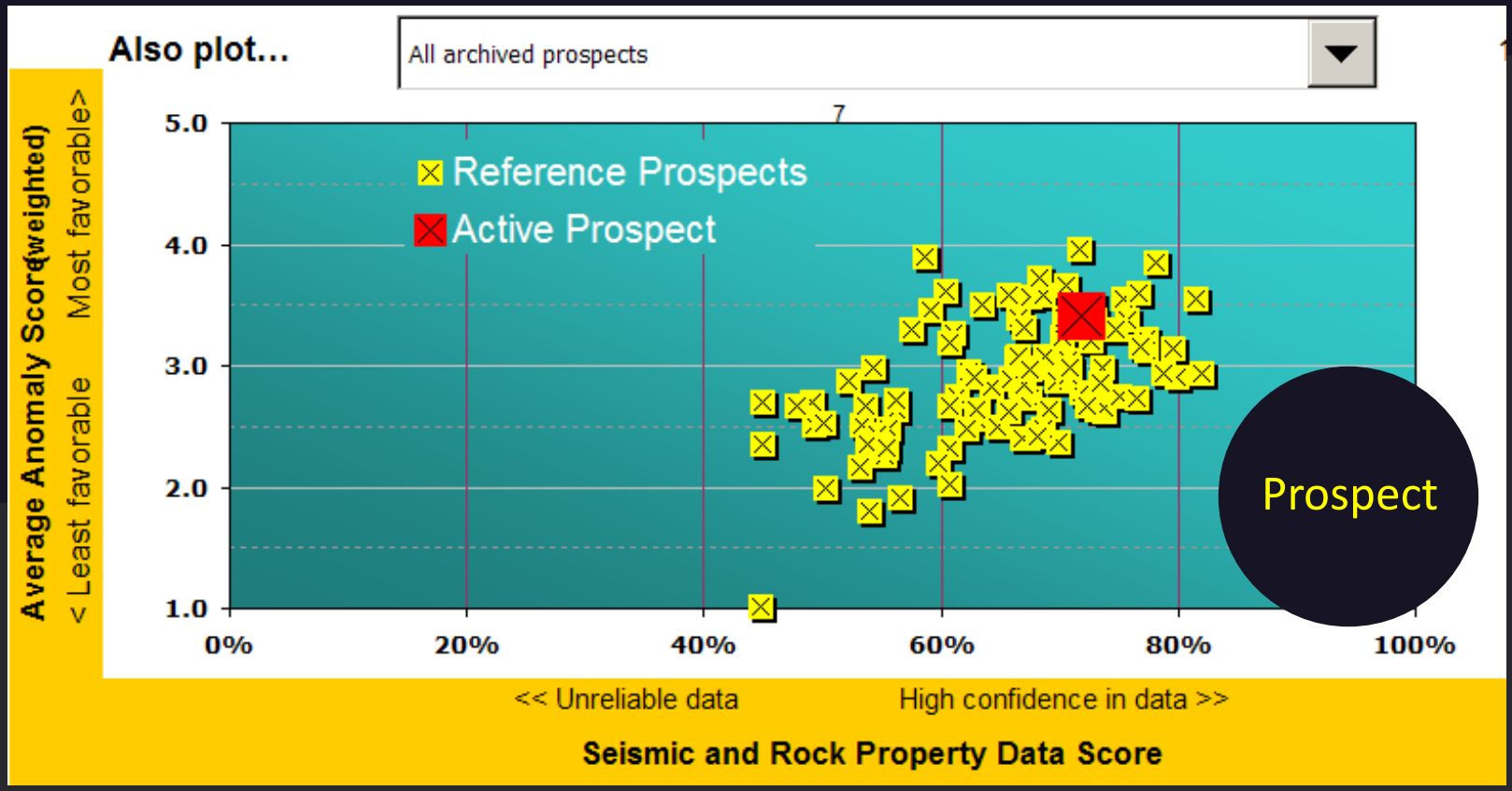

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RAPT: Risk Analysis Portfolio Tracker

Imports estimates and actual results from MMRA or any spreadsheet with unique adapter

MS SQL Server executable license available on a per seat basis

Multiple filters and graph types featuring the percentile histogram to sort and analyze bias

Export as needed to Excel for additional reporting flexibility

Learn from your experiences

Portfolio

Improving E & P Effectiveness