

www.rave-ideas.com

this booklet may cause you to
re-evaluate how you work

ingen

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RAVE™

The world's most effective risk and value business tool



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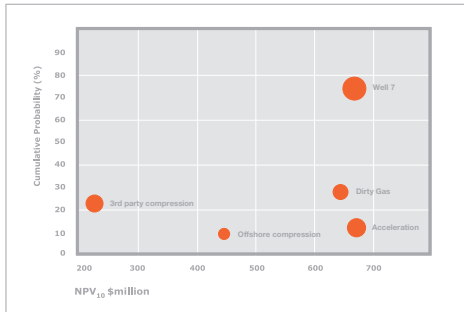
Now you can make boardroom level decisions on the move, using a real dynamic verified model with auditability, traceability and back-up for all your strategies and tactical decision making.

“The RAVE™ tool provides a quick and comprehensive way to evaluate complex algorithms from rock-face through to full economic assessment. This is a unique capability which is currently unrivalled in the industry.”

CLIENT QUOTE

designed by decision makers for decision makers

Throw your ideas in ... test the wacky schemes ... find the boundaries - all on a realistic mimic of a highly complex animal.




“... created a fundamental change in direction for the project ... very positive and collaborative working relationship. Good fun!”

CLIENT QUOTE

With RAVE™ you can achieve:

- Effective collaborative problem solving across all disciplines
- Accurate identification and quantification of life of field risks
- Visible relationships regardless of model complexity
- Rapid identification and ranking of alternative investment options
- Accurate capture of real world system interdependencies
- Evaluation of reservoir fluid flow for a range of geological interpretations
- Address uncertainties in the design process
- Simultaneous solution of pressure networks and constraints

not just another software tool but a new way of working



Don't save project screening costs by dismissing options too early...

- Capture option value
- Brainstorm ideas across the complete spectrum of your employees
- Use our idea boards to organise and convert “fuzz” to strategy
- Test strategy and build appropriate models
- Value test everything to the limits
- Screen value drivers

“...they have a different business concept spanning deal making to idea generation and for this service they are spot on.”

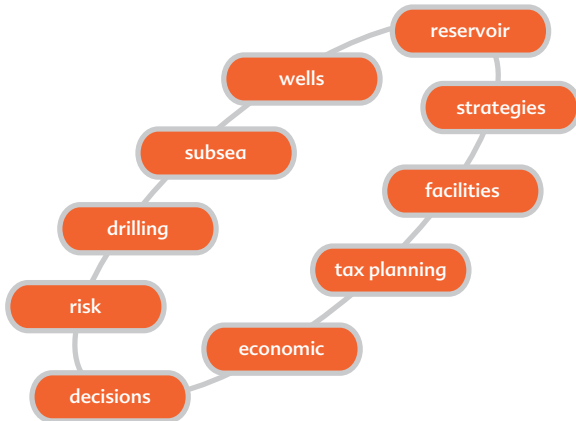
CLIENT QUOTE

- Stochastic analysis quantifying the key risk, uncertainty and value relationships
- Full economic value calculations including detailed fiscal modelling
- Easy configuration for alternate tax regimes
- Flexible definition of drilling/infrastructure development programs and schedules
- Rigorous point-by-point production optimisation, including system constraint handling
- Audit capability for decisions and reserve calculations
- Pressure network solutions, from injection to export, to honour deliverability
- Quantitatively improve decision quality with a reduced decision cycle time

its beauty is its simplicity



Integrating models of all the key areas for a field development study, the RAVE™ tool incorporates a full pressure network solution including constraints on deliverability. RAVE™'s proprietary optimisation algorithm maximises point-by-point production and value, including gas-lift optimisation, all within the resource constraints imposed at the facility.



Reservoir

- Reservoir performance models
- Geological uncertainty linked to flow performance
- Drilling programmes
- History matching for accurate prediction
- Modelling “by well”

Subsea & wells

- Wells and flow-lines modelled
- Production network systems
- Pressure balance & constraint management
- Optimisation of gas lift pumping power and capacity

Facilities

- Topsides facilities
- Export & terminals
- Ability to optimise production to constraints
- Component splitting capabilities
- Compressor & pump performance

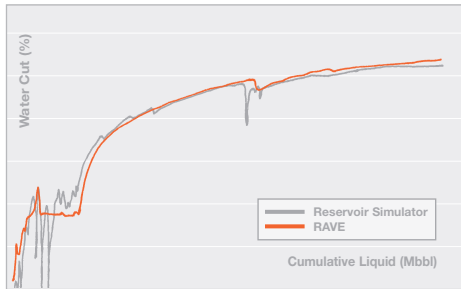
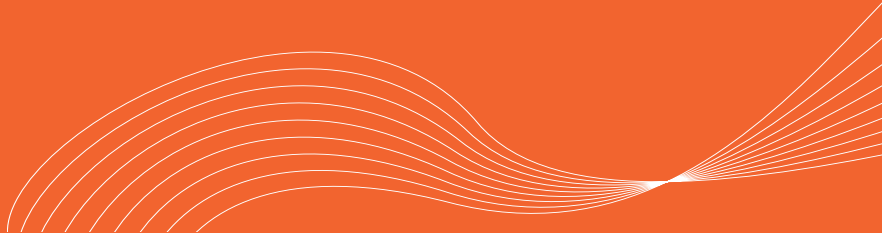
Economics

- Oil price forecasts
- Econometric modelling
- Tax regimes

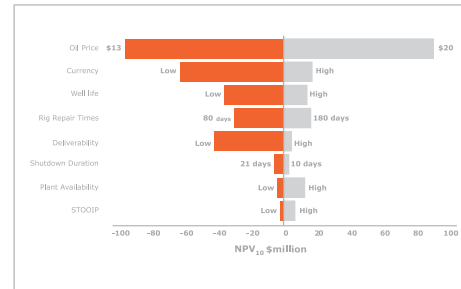
Risk

- Decision risk analysis
- Business development logic for uncertainty assessment

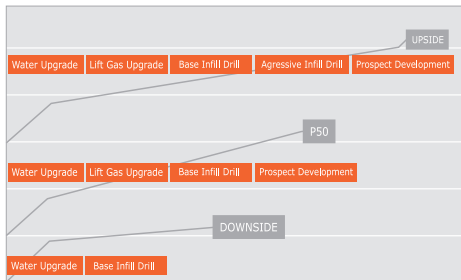
innovative and clear output



History matching



Identification of key value drivers



Clear impact of decisions

Easy model build interface

- Graphical User Interface
- Drag and drop pre-formatted templates
- Internet links
- Innovative visual technology

what difference does it make?



Once the model has been built and verified the real power of the tool becomes apparent. Because the model is so compact, thousands of simulations can be run to test all the options, risks and parameters, with each simulation optimised over the complete life of field.

Without performing any detailed engineering you can identify the key value drivers and risks on a project or business model.

RAVE™ caused “our people to think differently; trying to recognise risks and uncertainties and understand how and why they can effect business value.”

CLIENT QUOTE

“Ingen’s software modelling is unique ... Provides a different service.”

CLIENT QUOTE

“I remain convinced that RAVE™ occupies a unique position within the decision-analysis and support arena in the upstream hydrocarbon business”

CLIENT QUOTE

“The robustness of the RAVE™ methodology has been proven to us through its application to both own operated assets and non operated assets”

CLIENT QUOTE

RAVE™ is not just another software tool... it is a structured and effective work method

- Scout opportunities quickly
- Allows immediate focus on key issues
- Identifies value gain opportunities
- Reduce decision cycle times
- Gain auditability on decision process
- Make decisions for less cost
- Accelerate good projects

