Studio - the Multiuser Database for Petrel

Improving Decision Making with Subsurface Data Norwegian Petroleum Museum 17th April 2013

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Topics

- Typical Petrel Data Environment (Reference Projects)
- Studio Data Environment
- Dealing with the Interpretation to Data Trap
- Bring your Petrel Data into the future with you





Typical Petrel Data Environment



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the most rigorous seismic interpretation can be misleading as it is passed downteam level.

sabotage. People are rarely blamed for spending time on something within their job description, but it is seldom anyone's job to transfer the implicit (the as sumptions, the subjectivity, the guesswork, the art) along with the explicit. It takes foresight and communication at a personal level, and it takes a change in the culture of responsibilities, and maybe even a loosening of the goals on a Because of the interpretation–to–data trap, we must humbly recognize that even

algorithms, which is itself an interpretive process. More data from art. To some extent, this is true for anything in the subsurface, whether it be the wireline log There are a number of personal and social forces that deepen the trap, such as lack of ownership or lack of foresight. Disowning or disliking data is easy as lack of ownership of lack of loresign, or sowning of distanting one as easy because it is impersonal; disowning your own interpretation however is selfproduction log, or well top.

sion making, intellectual labour, and creativity. But when this art is transferred to a geomodeller, for instance, it instantly loses its rich, subjective history. It to a geomoticity of mistance, it mistance is more in ten, surjective mistory, it becomes just data. Without fail, interpretations become data in the possession of anyone other than the creator. It is a subtle but significant concept. And consider the source from which the interpreters' horizon manifests; seismic amplitudes. Stacked seismic data is but one solution from a choice of migration

sents the challenge of having long, complex workflows with many interim sections, maps, and so on. As the adage of treasure and trash goes; one person's interpretation is another person's data. The routine assignment of interpreta tions as data is what I call the interpretation-to-data trap, and we all fall into it. Is a horizon an interpretation, or is it data? It depends on whom you ask. To the interpreter, their horizons are proud pieces of art, the result of repetitious deci-

Some say there is an art to seismic interpretation. Art is often described as any work that is difficult for someone else to reproduce. It contains an inherent tie to the creator. In this view, it is more correct to say that seismic interpretation Subsurface geoscience in general, and seismic interpretation in particular, pre-

Beware the interpretationto-data trap Evan Bianco



The routine assignment of interpretations as data is what I call the interpretation-to-data trap, and we all fall into it. stream and farther afield. If you have ever felt that a dataset is being pushed stream and tartner alleld. If you have ever tell that a dataset is being pushed beyond its limits, that a horizon was not picked with sufficient precision for contents in stream of the beyong its imits, that a norizon was not picket with summering pictorial of horizontally steering a drill bit, or a log-conditioning exercise was not suitable can a AVO analysis it was prohably a case of interpretation being michaken for an Av G analysis, it was provably a case or interpretation being mistaken for data. Sometimes these are inevitable assumptions, but it doesn't absolve us I think there are three things you can do. One is for giving, one is for receiving, I trank there are three trangs you can do. One is for givings one is for receivings and one is for finishing. When you are givings arm yourself with the knowledge and one is for unishing, when you are giving, arm yoursell with the knowledge that your interpretations will transform to data in remote parts of the subsurface that your interpretations will transform to data in remote parts of the subsurface realm. When receiving, ask yourself, 'is there art going on here?' If so, recognize INTERPRETATION , teaun, when receivings ask yoursen, is there art going on here: it so, recognize that you are at risk of falling into the interpretation-to-data trap. Finally, declare that you are at risk of failing into the interpretation-to-data trap, rimally, deciare your work to be work in progress, not because it is a way to cop-out or delay contained to the second to be a seco Your work to oc work in progress, not occause it is a way to cop-out or usual finishings but because it is an opportunity to embrace iteration and make it a

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· TEAMWORK

WORKFLOW .



Asset Teams and Business Processes Example: The Field Development Process







How Studio improves decision making:

- Single data source to manage
- Powerful Data Validation and Matching Rules
- Identify Data Quality at source
- Strong integration with existing knowledge capture tools
- Bring your data with you into the future

Thank you



