



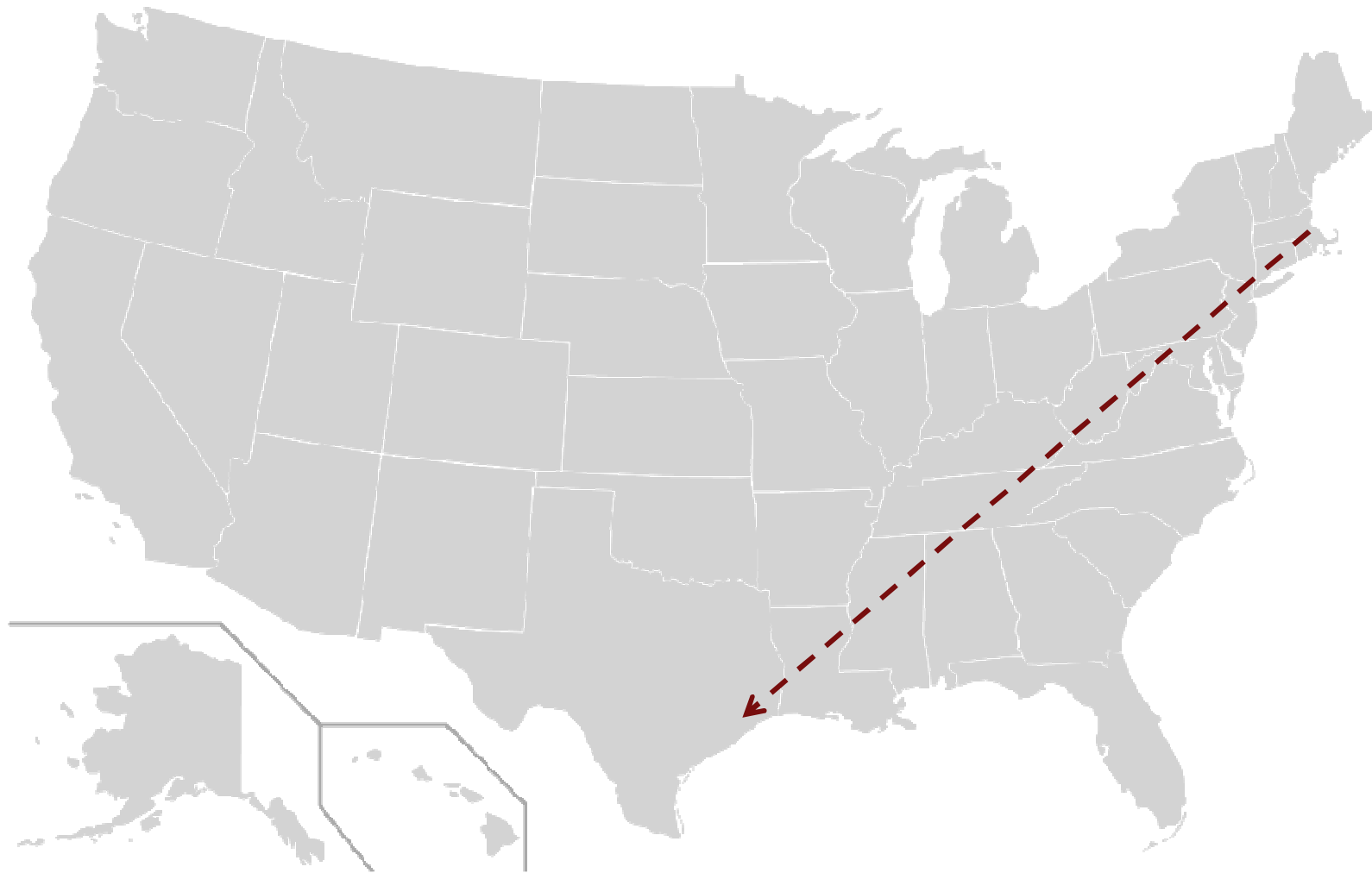
Semantics are for people too!

Lee Feigenbaum, Cambridge Semantics
W3C Workshop on Semantic Web in Energy Industries
09 December 2008

About This Presentation

- This presentation is extremely visual. Please use the included speaker's notes for the context of the imagery within.
- Questions to: lee@cambridgesemantics.com

Why are we here?



December 9, 2008



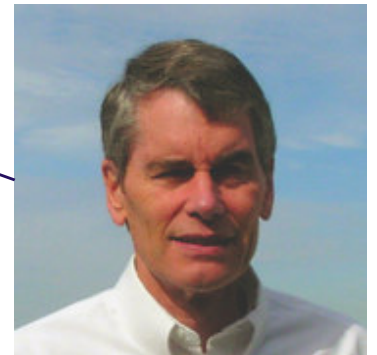
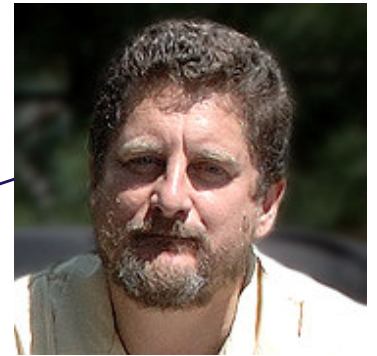
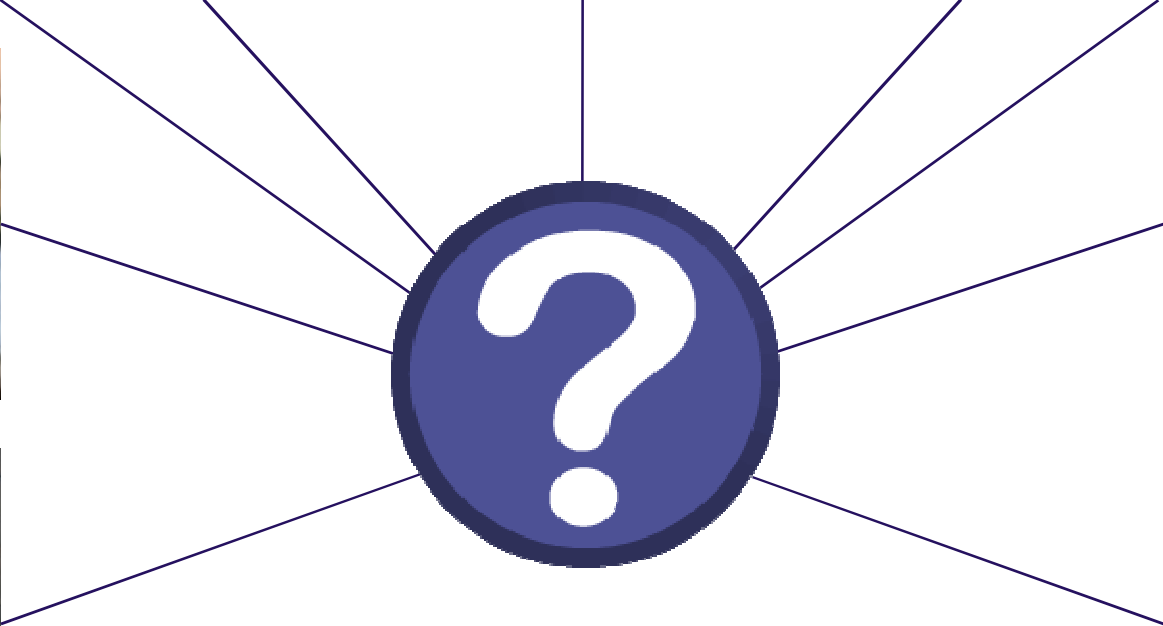
Why are we here?



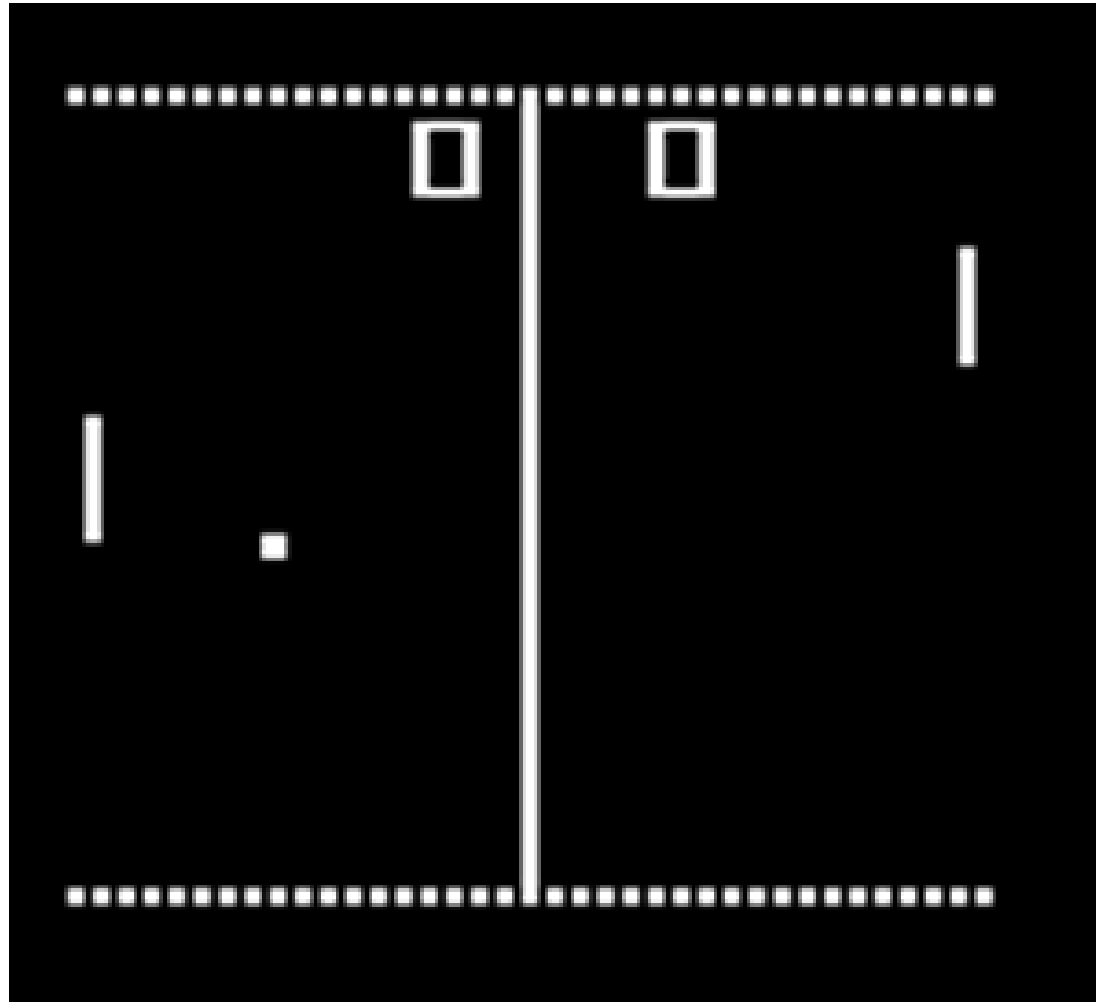
December 9, 2008



Why are we here?



Why are we here?

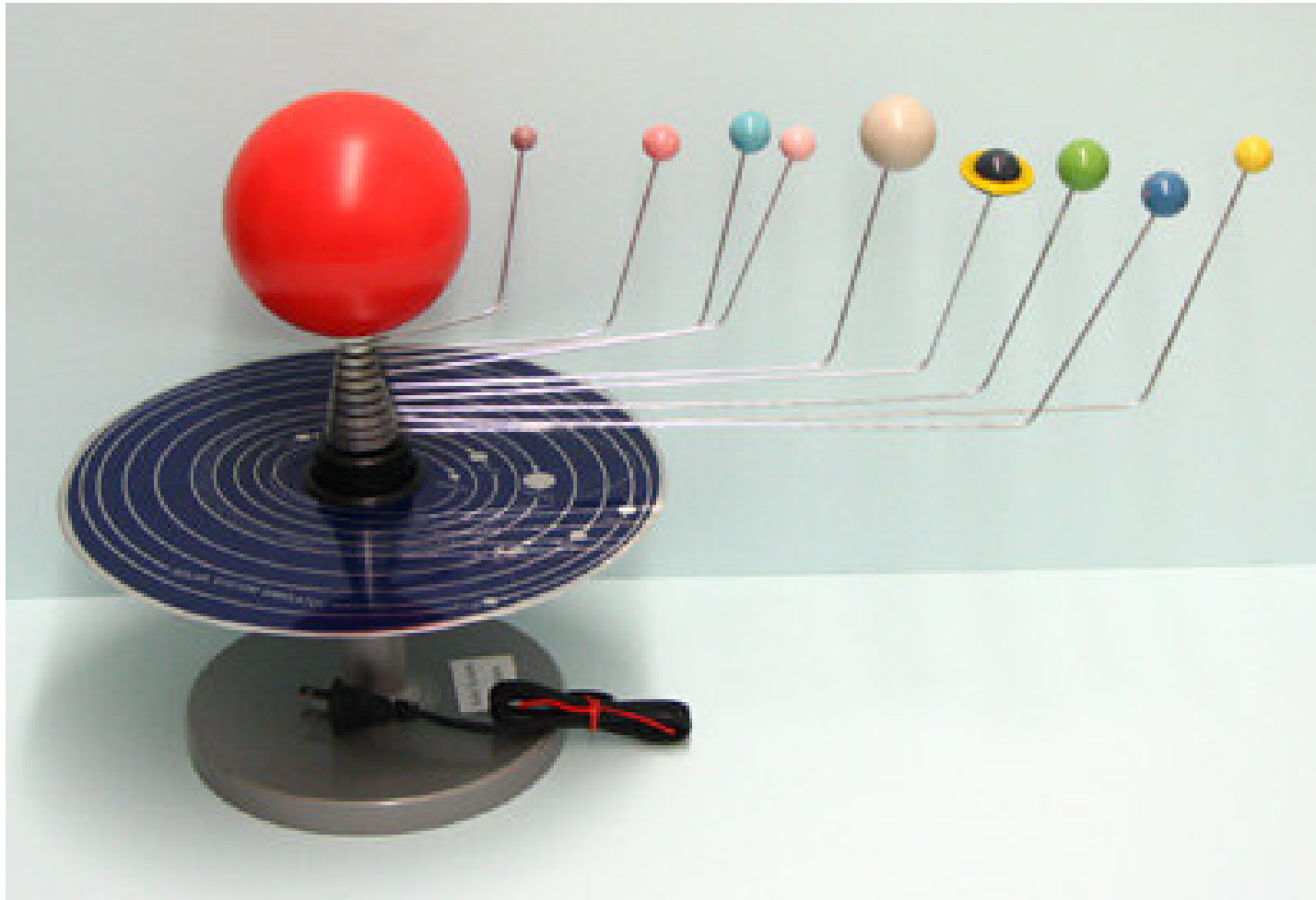


Man or Machine?



December 9, 2008

Models we understand



We can't automate everything.

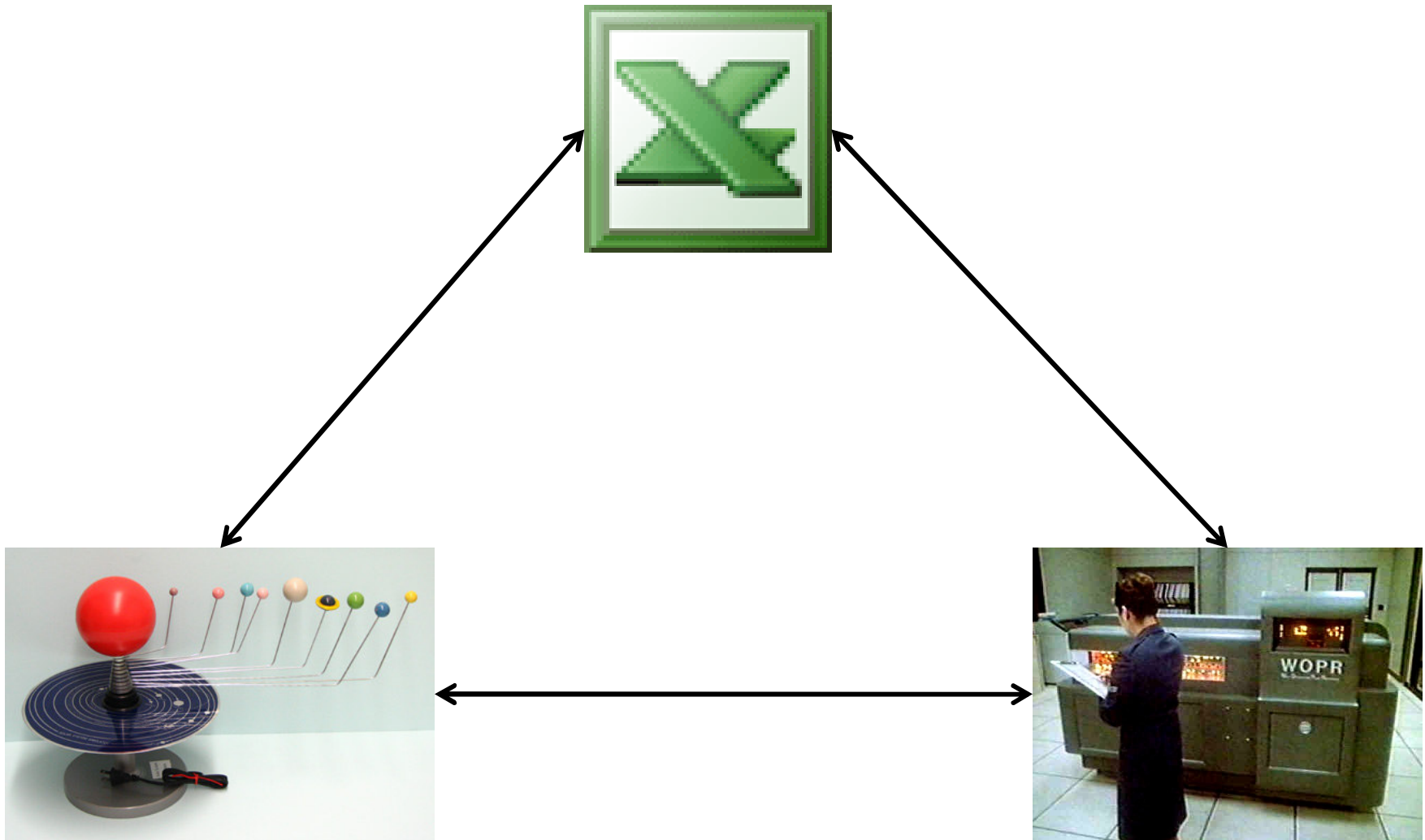


December 9, 2008

That's why we love spreadsheets



Where does this leave us?



Enough with the boring stuff



December 9, 2008

The Scenario

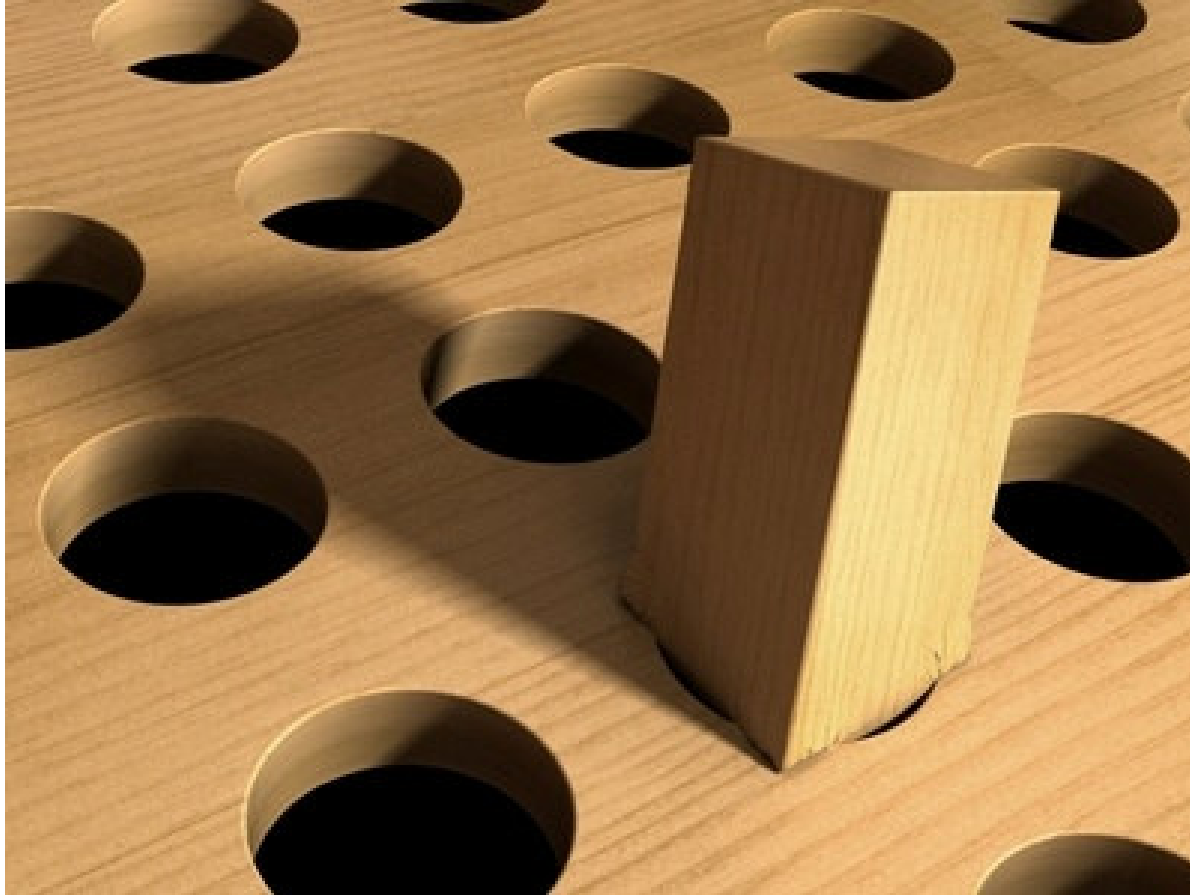


December 9, 2008

PRODML & WITSML

```
<productVolume>
  <name>PRODML Flow 1</name>
  <installation kind="field">FLOW-1</installation>
  <kind>PRODML optimization</kind>
  <periodKind>report start</periodKind>
  <dateStart>2005-10-26</dateStart>
  <productFlowModel uidRef="PFM-1">Flow #1 Network Model</productFlowModel>
  <facility>
    <name kind="compressor">Compressor Bank A</name>
    <facilityParent1 kind="field">FLOW-1</facilityParent1>
    <unit uidRef="A">A</unit>
    <flow>
      <kind>gas lift</kind>
      <port uidRef="port-2">2</port>
      <direction>outlet</direction>
    ...
```

From Excel direct to PRODML?



December 9, 2008

What does our solution look like?

Production Wells
Well Status: SHUT IN

Well Code	D/T Hours	Choke		Allocated			
		WHP	Barg	BS&W (%)	Oil (BBL)	Water (MSCF)	Gas (MSCF)
BOS_BHP	24	8.59386		91	0	0	0
BOS_BHP	24	74.0298		91	0	0	0
BOS_BHP	24	8.6046		97	0	0	0
BOS_BHP	24	8.72168		0	0	0	0
BOS_BHP	24	3.6756		98	0	0	0
BOS_BHP	24	9.66093		0	0	0	0
BOS_BHP	24	0.25165		0	0	0	0
BOS_BHP	24	1.12507	92.9165	97	0	0	0
BOS_BHP	24	0.68407	92.9165	95	0	0	0
BOS_BHP	24	0	89.8002	95	0	0	0

Long Term Shut In Wells - Well Status Comments

Well Code	Well Type	Status	Comments
BOS_BHP40	OP	LT_CLOSED	Completion cemented pending abandonment and redrill
BOS_BHP51	OP	LT_CLOSED	P.E. Request
BOS_BHP53	OP	LT_CLOSED	Sand Control Failure

Water Injection Wells

Well Code	Downtime Hours	WHP BARG	Choke %	Volume (BBL)	Comments
BOS_BHW0	0.00	163.27		40,761	
BOS_BHW0	0.00	169.20		30,211	
BOS_BHW1	23.12	196.95		2,262	
BOS_BHW2	0.00	143.94		55,789	
BOS_BHW3	0.00	163.97		68,681	
BOS_BHW1	0.00	0.00		74,832	
BOS_BHW2	0.00	117.04		41,429	

Equipment Down

Tag No	Name	Available Date	DT	Comments

Anzo for Excel - Linking Template

Import a template by providing some information about the type of data you want to link.

Search: [Search Box]

Data Set: BHP Production Data - September 2008

Type: [Dropdown]

Templates:

- Daily Production Report Template
 - no description -
 - Data Set: BHP Production Data - September 2008
 - Type: Total daily production volume

[Continue]

What did we just see?



Thanks & Questions

- Thanks: Frank Chum, Roger Cutler, and David Shipley
- Questions: lee@cambridgesemantics.com