

Wellbore Positioning Technical Section



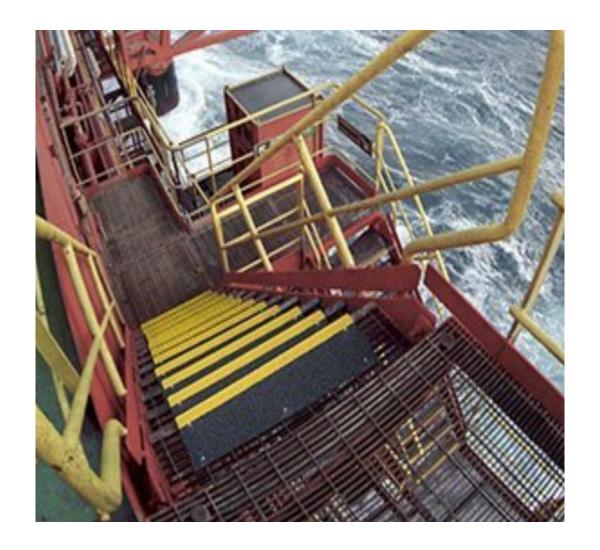
The Industry Steering Committee on Wellbore Survey Accuracy (ISCWSA)





Incremental v Disruptive

- Incremental
- Critical Review
- How could it be
 - Better
 - Faster
 - Cheaper
 - Easier
 - Prettier
 - Lighter
 - Safer.....





Incremental v Disruptive

- Disruptive
- Radical Review asks
- Is there
 - A new solution
 - A new approach
 - A new product
 - A new procedure



- Abandon Assumptions
- Challenge Traditions
- Consider the Ridiculous

Examples

- Aircraft Tyres don't last long enough
- Incremental
 - Vulcanised rubber
 - Replaceable treads
 - Embedded hard facing
- Disruptive
 - Anemometer wedges to spin before touch down





Examples

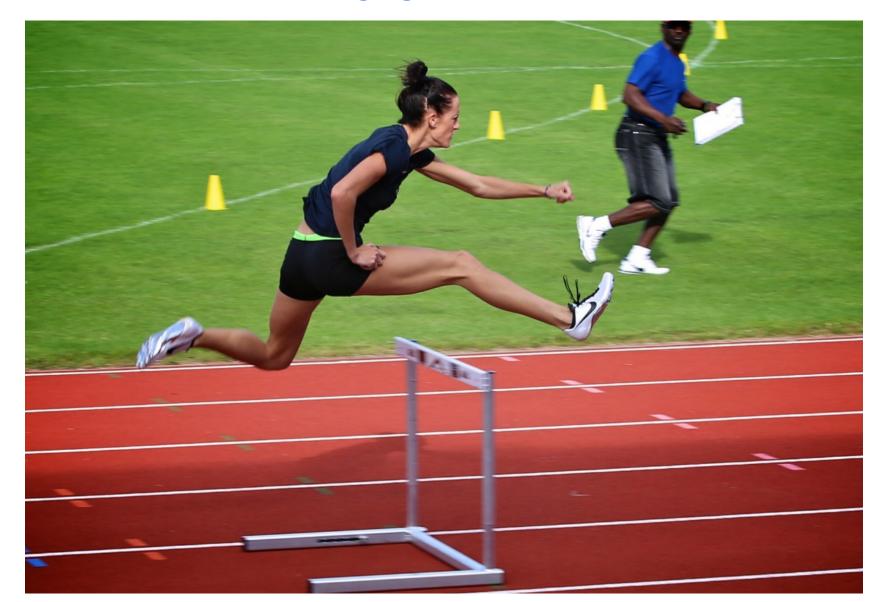
- Wheelbarrows are hard work
- Incremental
 - Bigger wheels
 - Better Bearings
 - Longer Handles
- Disruptive
 - Power the barrow







10 good reasons why your new idea won't work





The first hurdle - Cost



£38.00

OUTDOOR GARDEN EQUESTRAIN DIY 90 ...

eBay



£1,259.00

Wheelbarrow Micro Dumper Power Barro... eBay UK



2. Complexity





3. Inertia

'We've managed this far without your fancy new safety system.'





In Industry there are three types of wrong...

- Moral Wrong
- Legal Wrong
- And anything new



"I'm waiting for them to work out the bugs first."



4. You have to sell it to busy people

- ★ Managing today's immediate problem
- **★**Managing immediate commercial opportunities
- ★ Managing everyone's personal problems
- **★** Managing the company Image

New Ideas are <u>not</u>

Urgent

Critical

Low Risk

Quick to cash





5. Your great idea may upset the balance for everyone else.





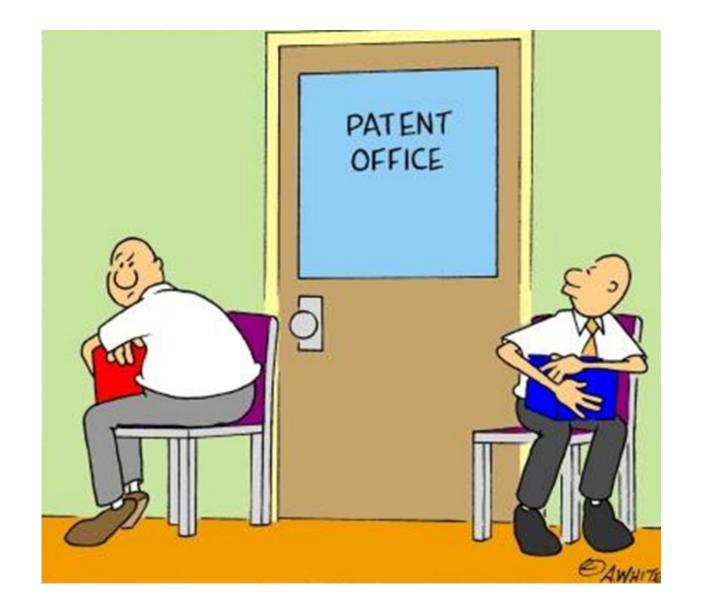
6. Something unanticipated may ruin your plan

- New Regulations
- Competition
- Market Conditions
- Personnel changes
- Product Failure
- Accident





7. Is it truly Novel?





8. If I make a mistake will it go public?







9. Will I simply run out of cash





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complete?







• 1. Does it solve a real problem?





- 1. Does it solve a real problem?
- 2. Would I buy it?





- 1. Does it solve a real problem?
- 2. Would I buy it?
- 3. Is it within my expertise?

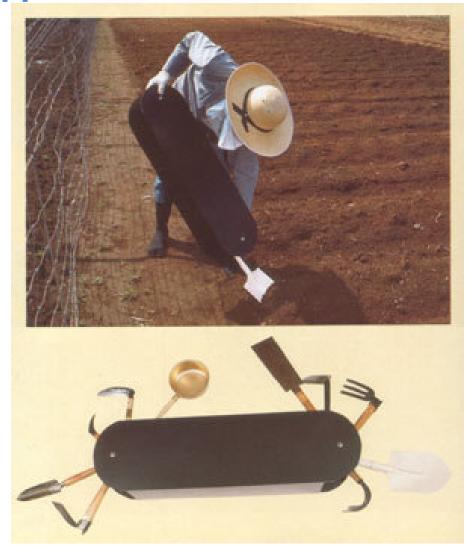




- 1. Does it solve a real problem?
- 2. Would I buy it?
- 3. Is it within my expertise?
- 4. Is it easy to explain?

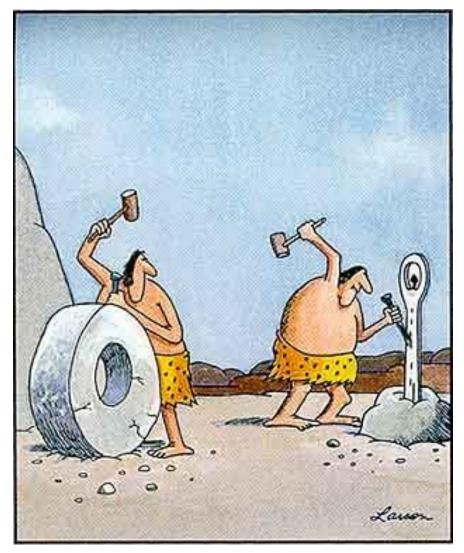


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- 6. Will it meet opposition?



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- 7. What will users feed back?



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- 7. What will users feed back?
- 8. What can others bring to the idea?





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Don't give up till you have to

