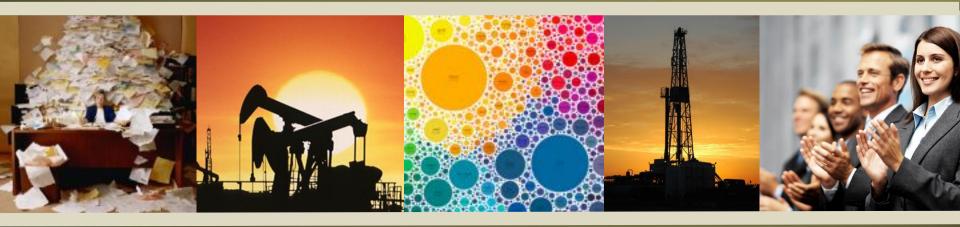






Best Practices for Visual Analytics Projects





Yogi Schulz Biography

- Partner in Corvelle Consulting
- Information technology related management consulting
- IT World Canada & Microsoft columnist
- Industry presenter:
 - Project World 6 years
 - PMI SAC 4+ years
 - PMI Information Systems SIG 2 years
 - PPDM Association several years





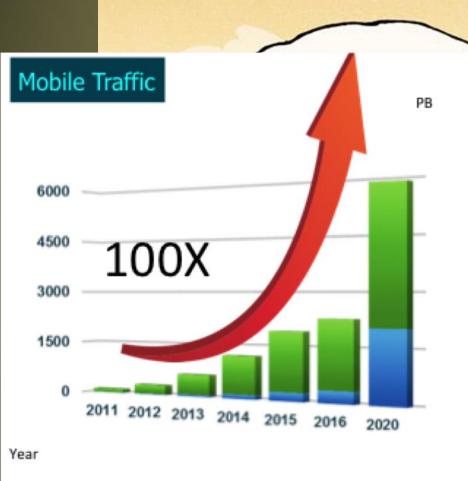


Digital Oil Field Survey

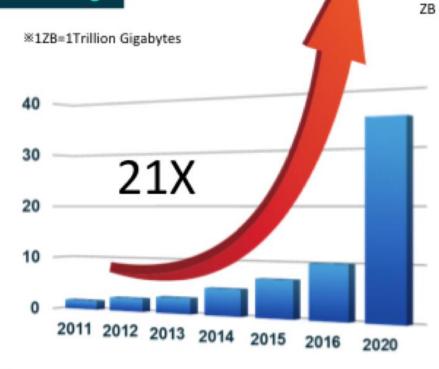
- Upstream companies struggle managing information for analytical purposes
- Data stored in applications in nonstandard formats
- Data trapped within organizational silos
- Real-time data is managed independently
- Progress in analytics requires action across multiple organizational silos



Data Volumes Growing every Year



IT Storage



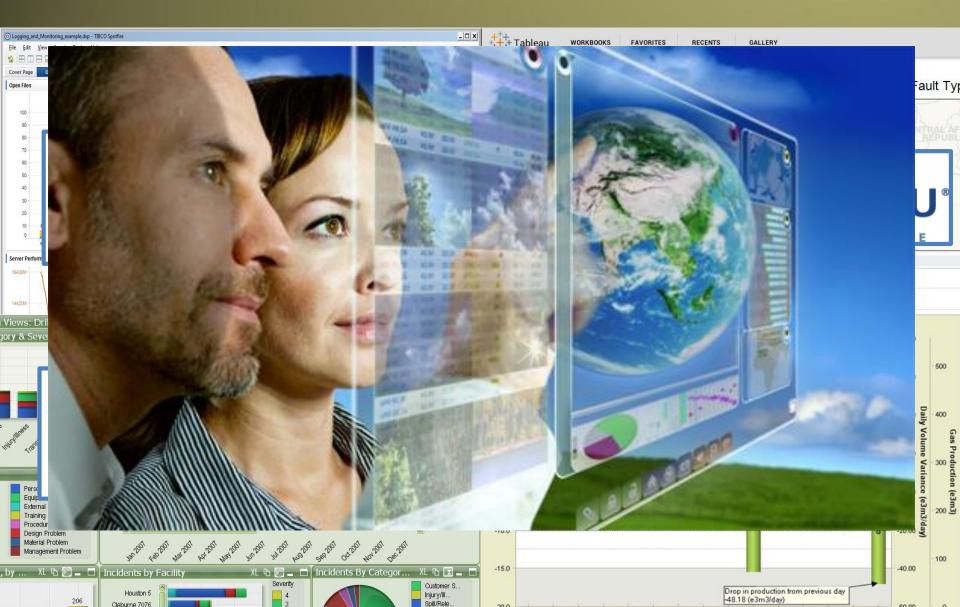
+ HORUST

4

Year

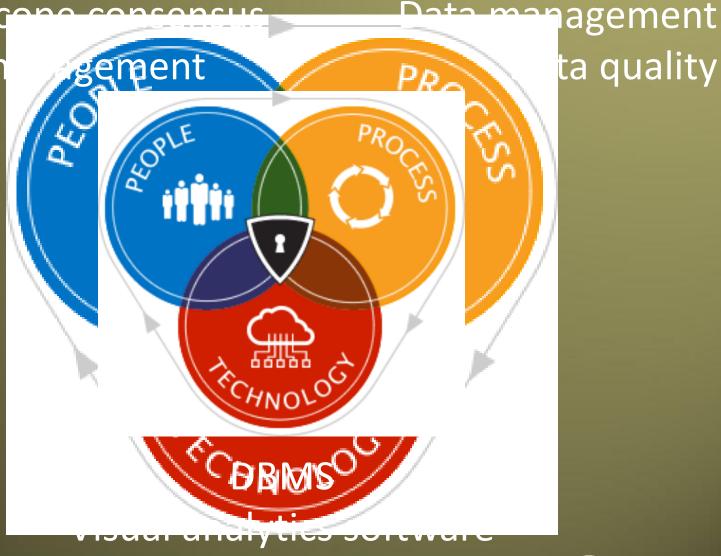


End-users Love Visual Analytics Output



Achieve Success with Visual Analytics

Project sc Project m



Corvelle Drives Concepts to Completion



6

Project Scope Consensus



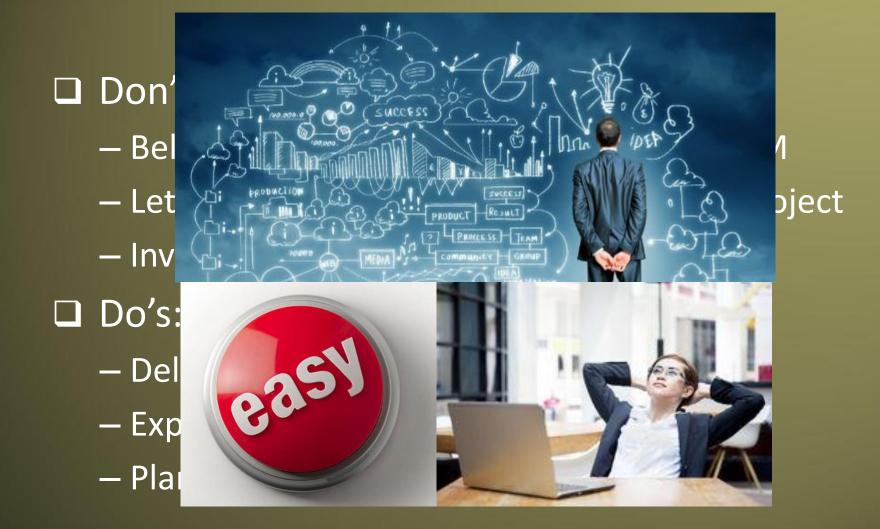


Corvelle Drives Concepts to Completion

People



Project Management





Corvelle Drives Concepts to Completion

People

Any chance you can give me better project management for my visual analytics projects instead?





People

How do project managers combat unrealistic expectations?

- A. Diplomatically educate on effort required?
- B. Demo new capabilities annually?
- C. Constantly communicate goals & benefits?
- D. Agree with those who claim project is easy?
- E. Coach project sponsor to communicate?
- F. Attend few meetings with vendors?



Process

Data Management

1.01.



10011011

1901010901

Do's: Plan to strengthen da Build data manageme

101

Process

Data Quality

Don'ts:

– Think
– Assun

Do's:

– Plan

– Deve

– Build





You need a visual way to track your key metrics.

Analytics in the world of Dilbert

THAT WAY YOU'LL HAVE MORE DATA TO IGNORE WHEN YOU MAKE YOUR DECISIONS BASED ON COMPANY POLITICS.

1.3

WILL THE OKAY, DATA BE PRETEND ACCURATE? THAT MATTERS.



Corvelle D

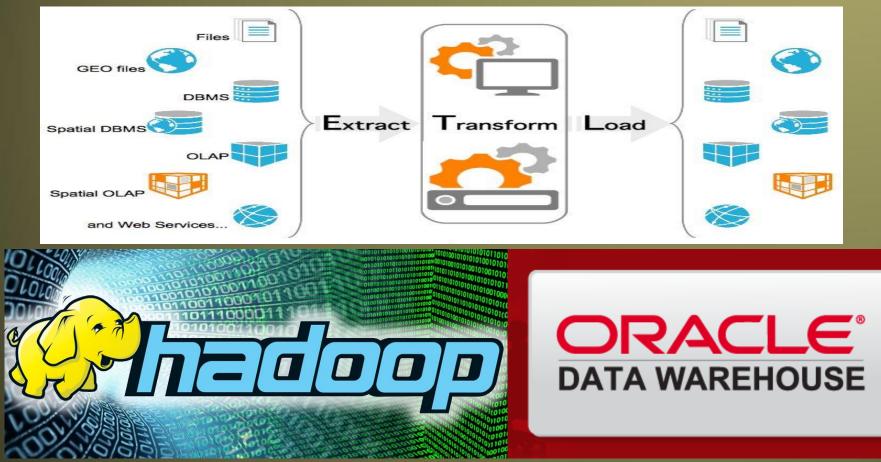
Process

How do project teams respond to scope creep?

- A. Accept all additional scope proposals?
- B. Sarcastically reject all scope proposals?
- C. Evaluate scope proposals?
- D. Defer all scope proposals to the next release?
- E. Remove scope for every scope proposal approved?
- F. Insist all scope proposals be approved by project steering committee?



Technology Database Management System (DBMS)





Technology

Visual Analytics Software

– Let . □ Do's:

Don

– Let

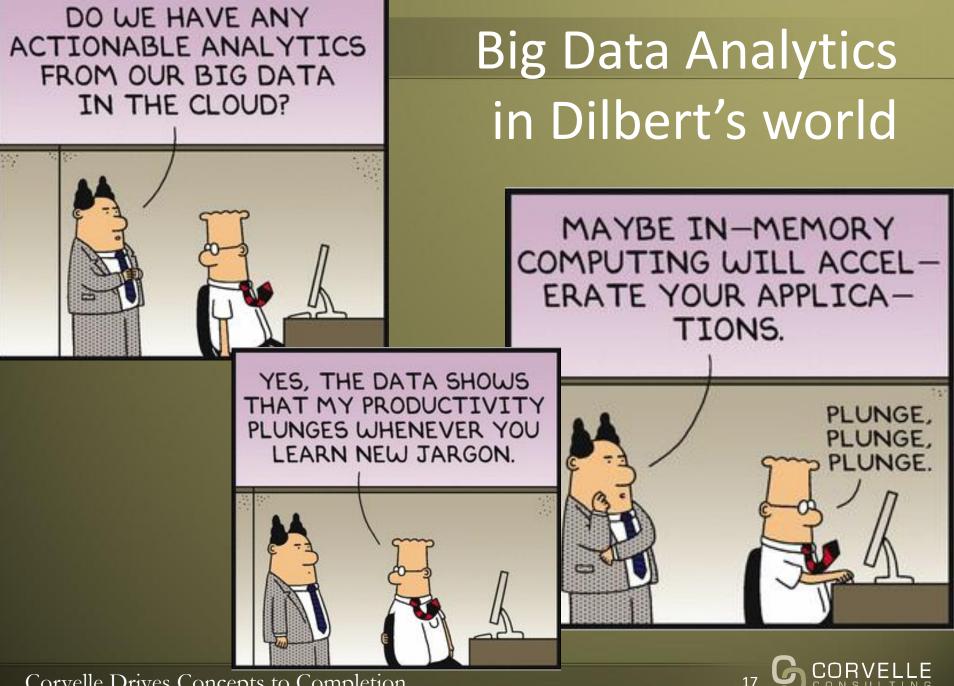
– Ma

Decide if additional softw

Quality

- Expect to require a dedic
- Favor license over build





TechnologyHow do project teamsexplain visual analytics?

- A. Displaying data as pretty pictures?
- B. Using overly complex terms as a way of over-stating their importance?
- C. Representing data for analysis and insights in ways that resonate?
- D. Over-analyzing data to avoid reaching any actionable conclusions?
- E. Using a superior alternative to Excel?





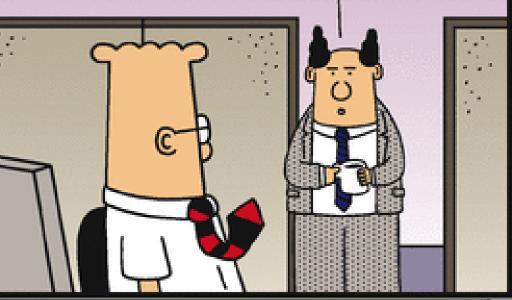
Best practices produce project success Visual analytics is a valuable technology







I NEED YOU TO ASSEMBLE A HUGE AMOUNT OF TOTALLY INCOMPREHENSIBLE DATA.



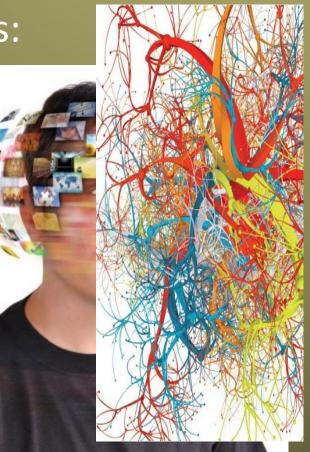
Questionable Analysis Goals

MAKE IT BORING SO NO ONE LOOKS AT IT TOO CLOSELY. I'M AIMING FOR QUANT-ITY OVER QUALITY.

20

Recommendations

Mitigate common project risks: - Ultra-high expectations Uneven data integration Inadequate project staffing Insufficient data quality Avoid over-investing in tech - DBMS & ETL – Data warehouse Visualization development sof





Questions & Discussion

JUST DO EVERY-THING SOON AND PERFECTLY!!!

Please fill out evaluation form

PLEASE

QUESTIONS.

Corvelle Drives Co

Can you help us achieve value from visual analytics?

QUESTION!



Best Practices for Visual Analytics

Yogi Schulz

Partner of Corvelle Consulting Information technology related management consulting Microsoft Canada columnist & CBC Radio host Industry presenter Former PPDM Association board member

Corvelle Consulting 300, 400 - 5 Ave. S. W. Calgary, Alberta T2P 0L6 Phone: (403) 860-5348 E-mail: YogiSchulz@corvelle.com Web: www.corvelle.com



Corvelle Bibliography - 1

Business Intelligence – experiencing more hype than value?

- <u>http://www.corvelle.com/business-intelligence-experiencing-more-hype-than-value</u>
- Do you need big data for big results?
 - <u>http://www.corvelle.com/do-you-need-big-data-for-big-results/</u>
- □ How advanced BI tools are delivering self-service analytics
 - <u>http://www.corvelle.com/how-advanced-bi-tools-are-</u> <u>delivering-self-service-analytics/</u>
- How to be a winning project manager: Manage up and out
 - <u>http://www.corvelle.com/resources/articles/it-world-</u> <u>canada/how-to-be-a-winning-project-manager-manage-up-and-</u> <u>out/</u>



Corvelle Bibliography - 2

□ Is big data success eluding you?

- <u>http://www.corvelle.com/is-big-data-success-eluding-you/</u>
- □ Is data modelling really dead?
 - <u>http://www.corvelle.com/is-data-modelling-really-dead/</u>

Loser project managers manage down and in

- <u>http://www.corvelle.com/resources/articles/it-world-</u> <u>canada/loser-project-managers-manage-down-and-in/</u>
- Why you need visual analytics
 - <u>http://www.corvelle.com/resources/articles/it-world-canada/why-you-need-visual-analytics</u>



Bibliography - 1

- 3 business challenges faced when adopting big data analytics on an open source platform
 - <u>http://www.itworldcanada.com/article/solving-big-data-problems-on-an-open-source-platform-depends-on-these-3-business-challenges/377440</u>
- Big data vendors look to simplify tools and processes for average enterprise user
 - <u>http://www.itworldcanada.com/article/big-data-vendors-look-to-simplify-</u> tools-and-processes-for-average-enterprise-user/377407
- Digitizing oil and gas production
 - Automation is an important answer to the industry's upstream challenges.
 - by Stefano Martinotti, Jim Nolten, and Jens Arne Steinsbø, August 2014 McKinsey
 - <u>http://www.mckinsey.com/insights/energy_resources_materials/digitizing_oil_and_gas_production</u>

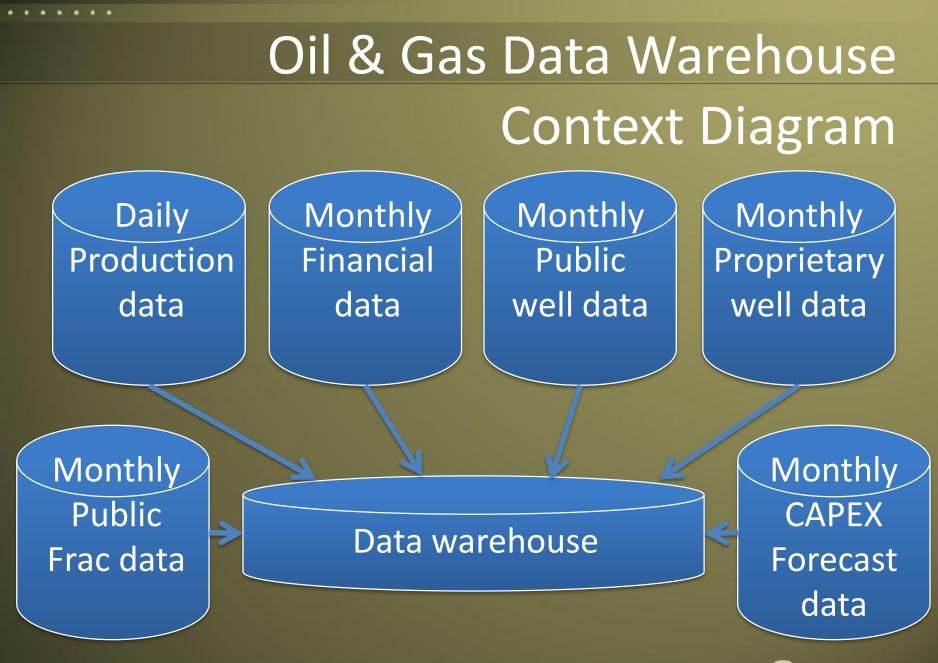


Bibliography - 2

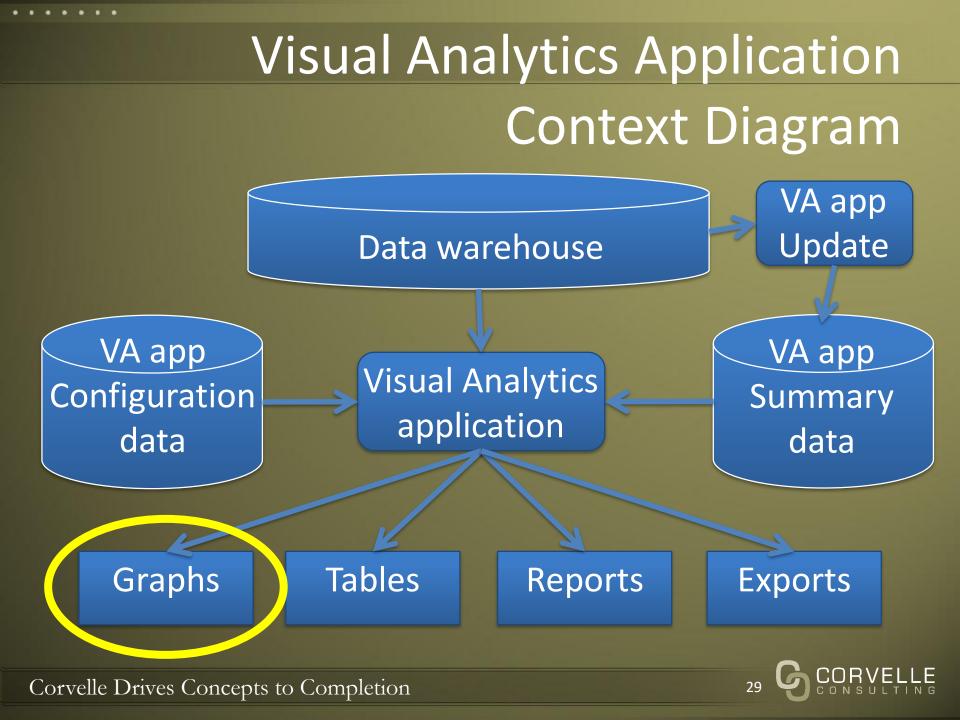
□ The Five Big Myths of Big Data with Rick van der Lans

- <u>https://www.youtube.com/watch?v=W1VZhjTDL_U&index=8&list=PL</u> wUPJvR9mZHgToruyAKF01QVT7xDWiarl
- Getting started with Big Data & Analytics: What you need to know
 - <u>http://www.itworldcanada.com/assets/getting-started-with-big-data-analytics-what-you-need-to-know</u>
- Large oil and gas producer. Better control over big data generates huge cost savings and new business insights
 - <u>http://www.itworldcanada.com/assets/large-oil-and-gas-producer-better-control-over-big-data-generates-huge-cost-savings-and-new-business-insights</u>
- Spotfire and IHS Data The Acquisition Template and Well Data Conduit
 - <u>http://www.blueriveranalytics.com/webinars/</u>





Corvelle Drives Concepts to Completion



Value of Visual Analytics

 Make data-driven decisions "very frequently"
 Make decisions "much faster" than market peers
 Execute decisions as intended "most of the time"





Vendor Demo Risk



