

# Big Data in the Big Apple

Emerging Importance of the Power Data Analyst  
June 13<sup>th</sup> 2014



Jim Kanzler – CEO Meta5



# Introduction

◆ Jim Kanzler – CEO Meta5

◆ Meta5 Core Technology

- ▲ Developed by ex-Xerox Parc employees
- ▲ Over \$100 Million in development effort has gone into our technology to date



# Some Classes of BI Users

- ◆ Report consumers / managers
- ◆ Report Analysts
- ◆ Report Developers
- ◆ They all do great useful work, no question
- ◆ And then? There are “***Power Data Analysts***”



# Example; Power Data Analyst

- ◆ Data analyst creates Competitive Briefing Book
- ◆ Used in Quarterly Board Meetings
- ◆ Just gets the job done, no excuses

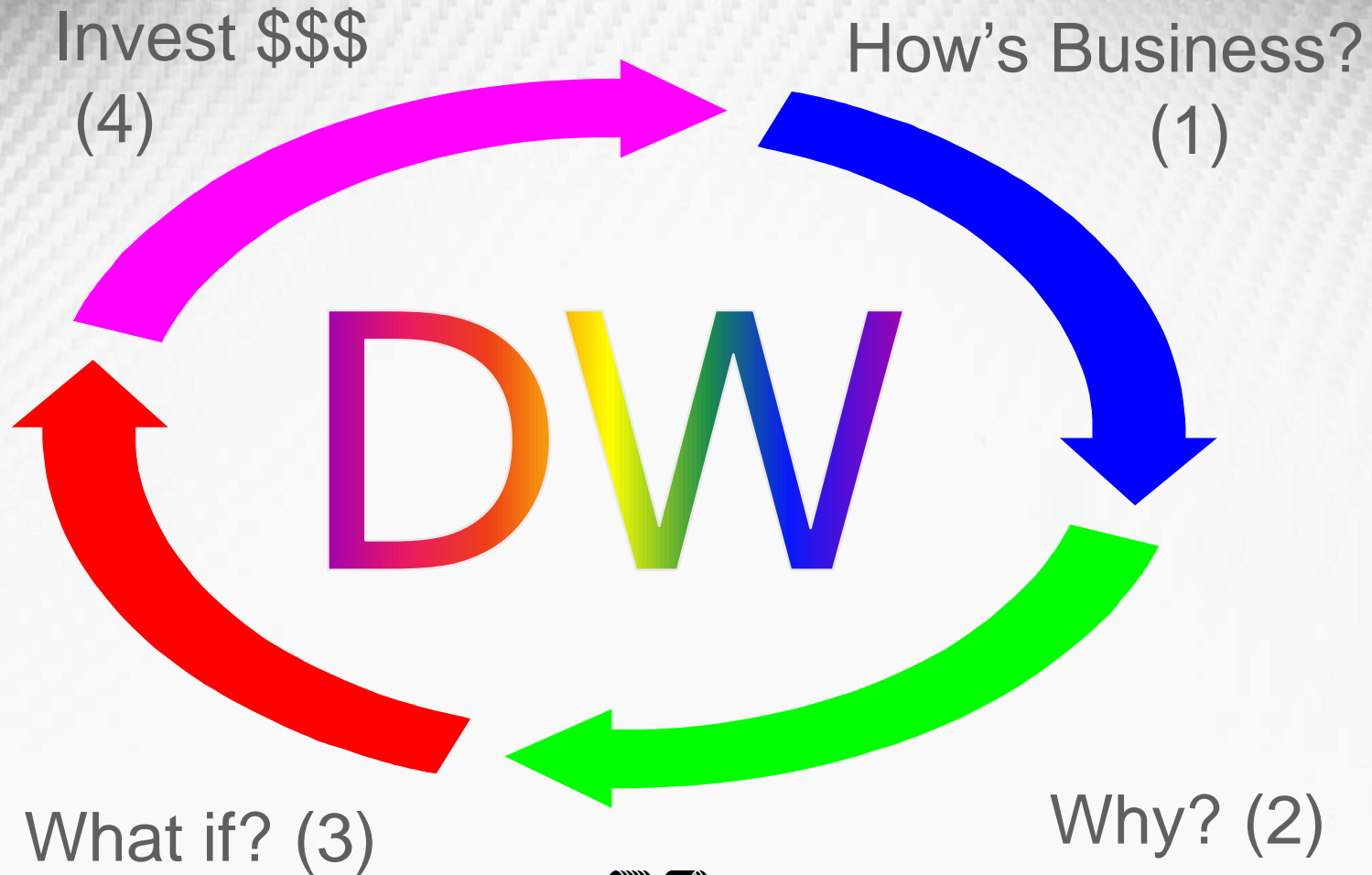


# Who is the Power Data Analyst

- ◆ Very knowledgeable about the business
- ◆ Influencer, attends important meetings
- ◆ Typically and Excel expert / maybe small DB too

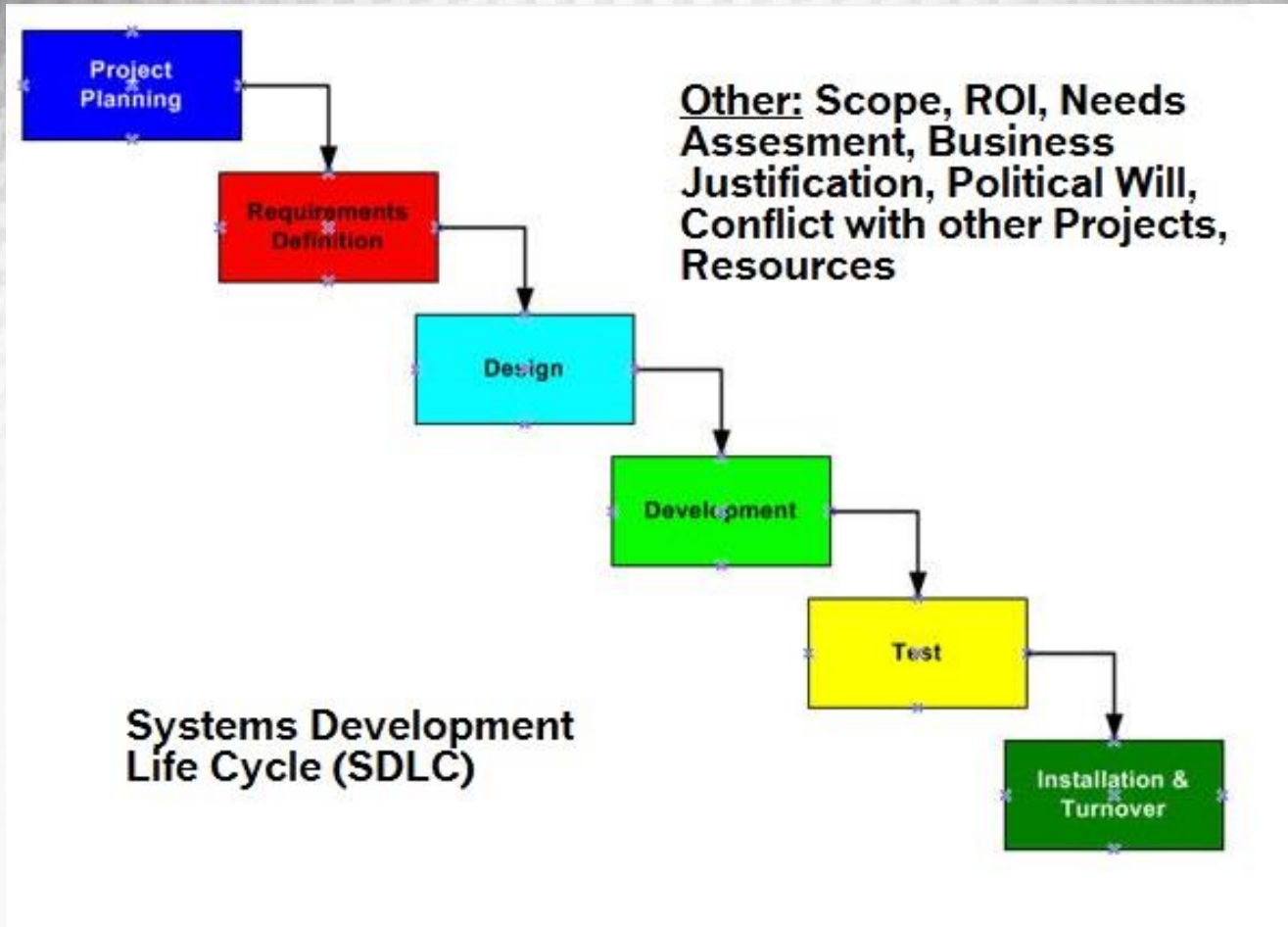


# Management Decision Making Process





# How are New Projects Started



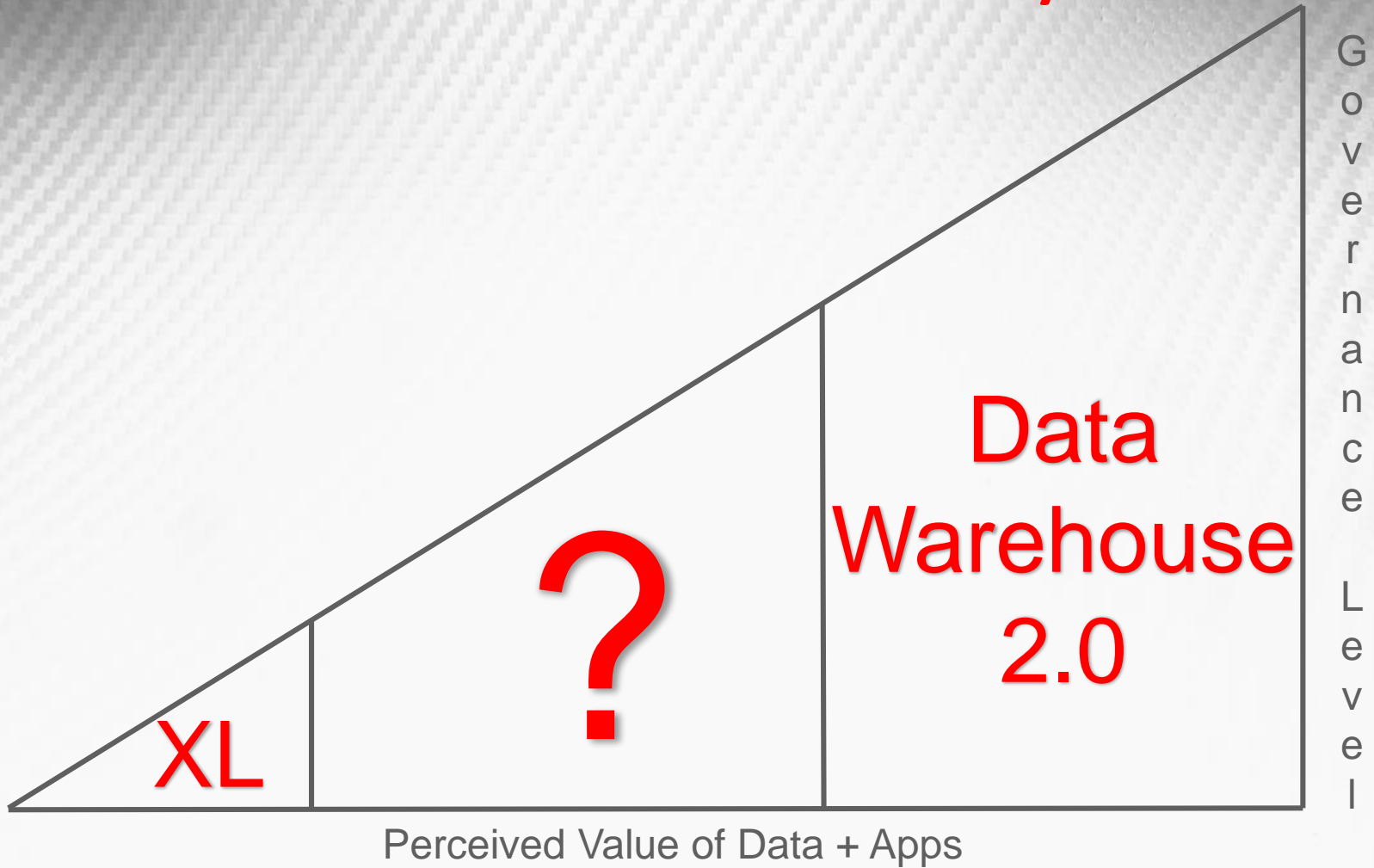
# Battle Between IT and Bus Users

- ◆ Battle of the Titans
- ◆ Conflicting concerns
- ◆ Business Users
  - Need it now
- ◆ IT
  - Application Control





# Where are we today?



# What is the impact of “Big Data”

## ◆ Definition of “Big Data”

- ▲ Volume, Velocity, Variety, Veracity

## ◆ From Wikipedia.

- ▲ In 2012, Gartner updated its definition as follows: “Big data is high volume, high velocity, and/or high variety information assets that require new forms of processing to enable enhanced decision making, insight discovery and process optimization.” Additionally, a new V “Veracity” is added by some organizations to describe it.”



# Why is it getting Worse?

- ◆ For DW each new data source requires:
- ◆ This takes time, money and IT people
- ◆ Growing and Growing...



Ok Jim

Good Problem Definition

Your Proposed Solution?



# A New Way

- ◆ Support Middle Tier operations
- ◆ Skunk Works
- ◆ Quick Agile
- ◆ Combine Business and IT
- ◆ Land of Power Data Analyst





# Role it Plays

- ◆ Test new Ideas Quickly
- ◆ Reduce the Governance
- ◆ Get to some meaning new Results Quickly
- ◆ Alleviate Bottle Neck of IT



# Why Have an “Idea Factory”?

- ◆ So your business will improve
- ◆ It could be the difference between success and failure



# What are the outcomes?

- ◆ What are the results of this type of Agile, quick response environment, should all projects start here?
- ◆ Ends up being a big project out of control more people using it!  
That is GREAT!  
Now we have vetted the scope and requirements  
Real business input and iterations happen here.
- ◆ Value of data and or project not as big a deal as we thought.  
That's GREAT!  
Keep it there, its working limited in use and cost
- ◆ Project was a dud  
That's GREAT!  
We saved a lot of money not trying to do this on a large scale



# Benefits of Idea Factory

- ◆ Quick turn around of ideas
- ◆ Cost effective ways to cull out the variety of Big Data
- ◆ IT Backlog reduced.
- ◆ Sets proper expectations to users regarding governance, accuracy and speed of performance
- ◆ Gets immediate value from ideas and information, instead of waiting
- ◆ Quick response to new business opportunities or problems



# Tools for New Way

- ◆ Ad hoc data analysis of new data
- ◆ No or little need to write code
- ◆ Access to Data Warehouse
  - ▲ All existing Data warehouse data to be easily available
  - ▲ Including Unstructured/Complex data, Hadoop, XML, text etc
- ◆ Ability to integrate point applications in re-runnable fashion
  - ▲ So many tools are available: Need Business Intelligence Integration
- ◆ Ability to be semi production environment
  - ▲ A working sandbox, working prototype, “good enough”
- ◆ A learning based environment
  - ▲ All work should be easily leveraged by interested parties
  - ▲ We should not forget what did not work and why





# Features for New Way

- ◆ **SPEED** of getting results
- ◆ MS Office Integration
  - ▲ It is time for IT to embrace Excel/Word inside BI
  - ▲ Downloading to Excel/Word is not “integration”
- ◆ MS Office Automation
  - ▲ Remember the Competitive Briefing Book?
  - ▲ A month of work converted to an app in 6 hours?
  - ▲ No macros, no links, none of the usual Excel problems
  - ▲ Need Excel Automation without the problems of Excel
- ◆ Ad Hoc Data Integration/ETL
  - ▲ Agile development of “ETL” without using the DW ETL tools
  - ▲ PDAs must have Ad Hoc ETL minus “cutting and pasting



# Example Briefing Book

- ◆ Power Data Analyst complains in earshot of a Meta5 user
- ◆ Meta5 user replicates this work as an app in 6 hours
- ◆ Briefing Bk create time goes from 1 month to 2 hours
- ◆ Board gets a three month decision cycle advantage
- ◆ Meta5 user requested to attend board meetings
  - ▲ Given 5 minutes to answer any question raised. Success rate is 95%.
  - ▲ Really supports the goal of delivering value to the Management Decision Process



# But I can do that already

- ◆ Really? Probably can, but time is critical
- ◆ Sounds like 1990 all over again
- ◆ But who has heard of:
  - ▲ Replacing a months excel work with an app in 6 hours?
  - ▲ Being able to rerun that work quarterly in a few hours?
  - ▲ Moving the board meeting up a month?
    - ◆ Thereby giving your company a competitive advantage?
  - ▲ Answering Board Member questions in 5 minutes 95% of the time?
- ◆ Project Sponsor Business Requirements
  - ▲ “I want the answer to any question I ask before I forgot why I asked the question. And no, I don’t know what questions I will ask.”
  - ▲ “If I finish my coffee before I get the answer? That’s too long!”



# Sobering Lessons

- ◆ What happens when you run out of good ideas?
- ◆ What happens if you can't do the MDMP fast enough?
  - ▲ Ask GM, Ford, Crysler, Xerox, Kodak
  - ▲ Ask IBM, Fanny May, Freddie Mac
- ◆ What happens when you have lots of good ideas and you can execute on them?
  - ▲ Ask Apple, Google, Facebook, Oracle, SAP, MSFT, Samsung, Acer
- ◆ Good ideas + rapid MDMP = Business Success
- ◆ Where do you get “reliable inspiration”?
- ◆ How do you make MDMP rapid?





# Increasing Importance of PDA

- ◇ Competition is becoming more information based
  - ▲ As opposed to product based
- ◇ Competition cycles are getting faster
- ◇ Product advantage is quickly eroded
  - ▲ iPhone vs Galaxy, HTC et al
- ◇ Customer touch points/channels are exploding
  - ▲ Google, Facebook, Twitter and other social networks
  - ▲ Phone, email, website, even catalogues
- ◇ Immediate response to situations can reap huge rewards
- ◇ Data volume, complexity, variety are increasing
  - ▲ Longer learning curves to master data in a company
- ◇ There is a better way, a new way
- ◇ “Idea Factory” of PDAs will be a competitive advantage





# The Better Way

- ◆ Remain focused on the goal: *Speed* of MDMP
- ◆ Attack Big Data problems from the middle tier
- ◆ Use tools to enable Agile Big Data
- ◆ Invest to generate new ideas via “Idea Factory”
- ◆ Staff “Idea Factory” with PDAs from both Business & IT
  - ▲ Make the search for new ideas a real partnership
- ◆ Reward people for new ideas when they work
  - ▲ Both social and financial rewards
- ◆ “Think different” Most great ideas seem crazy at first!



# Summary and Conclusions

- ◆ Recognize that there is a growing “mid tier” for data+apps
- ◆ You need to find a better way to keep up, the old way is just not working
- ◆ Big Data will give us a 10x variety problem
  - ▲ The variety of data has been exploding, it is not slowing up
- ◆ Big Data is a game changer, either learn to understand it, and evaluate it or someone else will
- ◆ Support your Power Data Analyst
- ◆ Include both business and IT you both have a lot to gain from this
- ◆ Change your corporate culture to mandate this
- ◆ Get the proper tools to support this group, just like 1990 they are out there



# Thank You For Your Time

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