Data Storytelling & Expectations

Jamal Madni

CECS 445

Lecture 19: April 29th, 2021

Project Artifacts – Zip File

- **Business Content**
    - Set of All Possible Customers & Selected Customer (w/ Decision Matrix)
    - One-Page Executive Summary on what the product is and what business need it is solving

- **Project Management Content**
    - Schedule (versions 1 – N)
    - Requirements Table w/ Effort Equations (versions 1 – N)
    - Risk Matrix (versions 1 – N)
    - Metrics Table

- **Model Content**
    - Architecture Diagram (versions 1 – N)

- **Construction Content**
    - Source Code
    - Executable Files
    - ReadMe for Executing Software

- **V&V Content**
    - Graph Flow Notations for Each Architecture Module w/ Cyclomatic Complexities
    - Test Case Tables for Each Graph Flow Notation
    - Test Scripts (if applicable)

- **Additional Documents**
    - Complete Set of User Stories
    - User Manual (1-2 pages on how to install/use software)
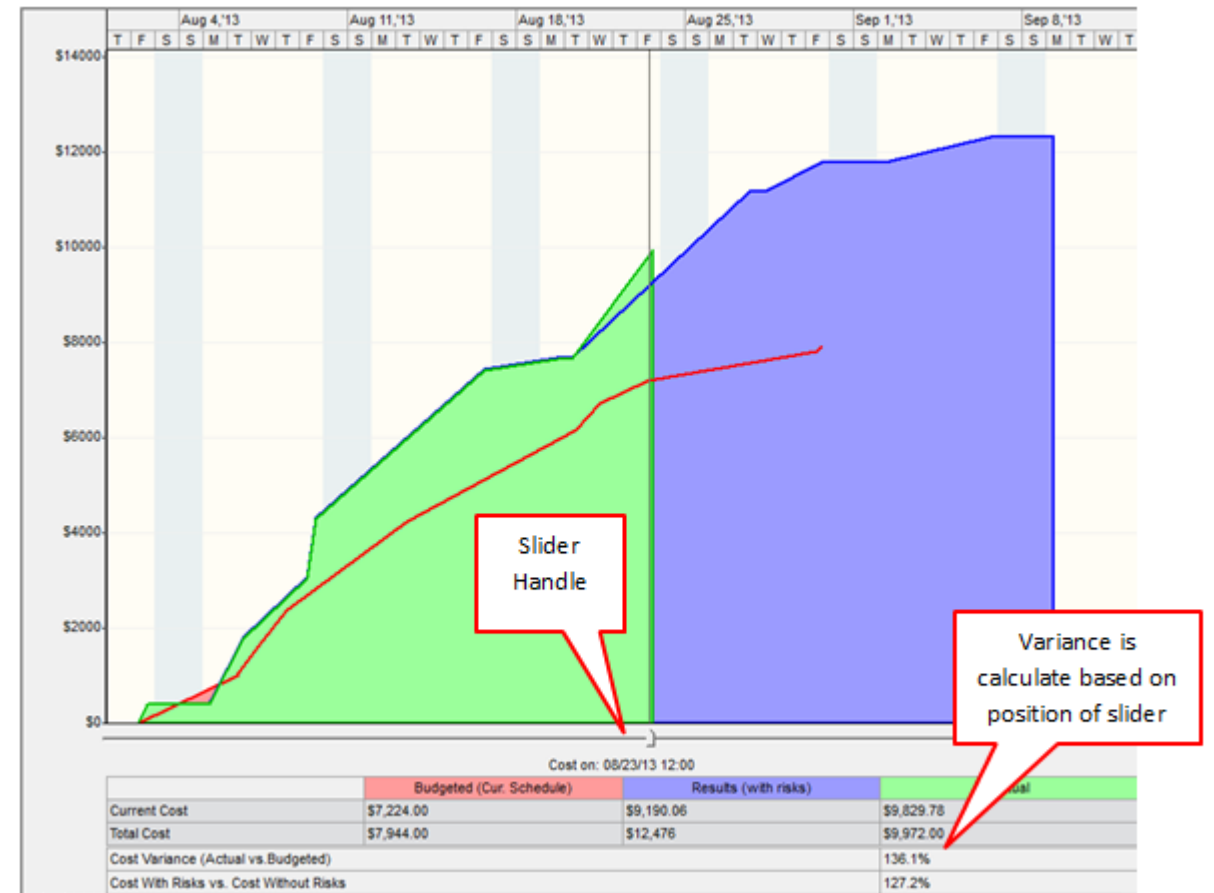
Metrics Table

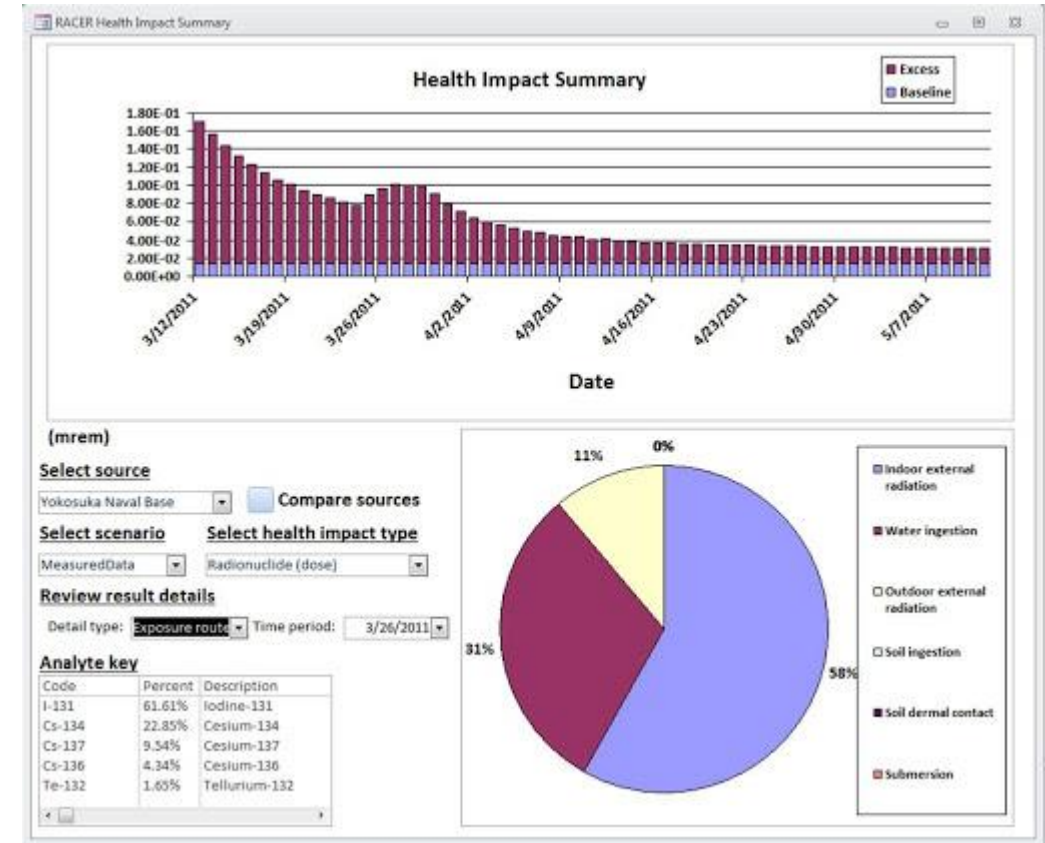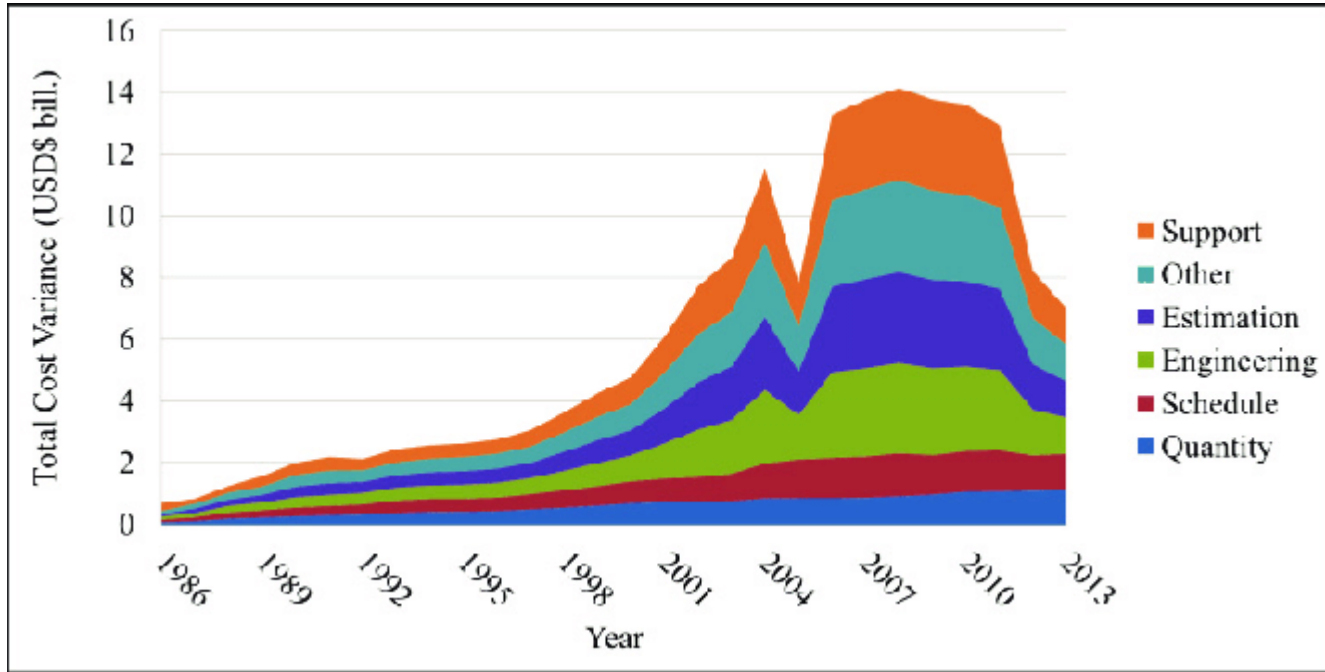|	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week N
CPI									CPI
RCM									RCM
Error Density									
MTBF									MTBF
MTTF									MTTF
AVAIL.									AVAIL.
SMI									

Presentations

- Why your customer? (1 mins)

- Why your product? (2 mins)

- How did you get to the finish? (4 mins)

- What did you learn for next time? (3 mins)

- Show me what you've done. (5 mins)
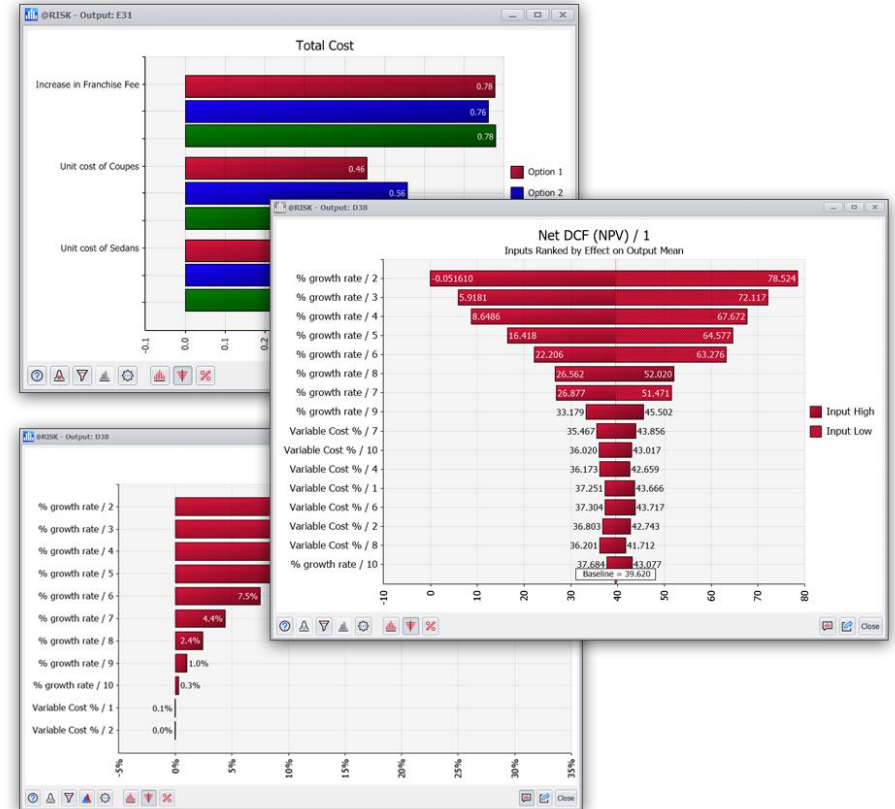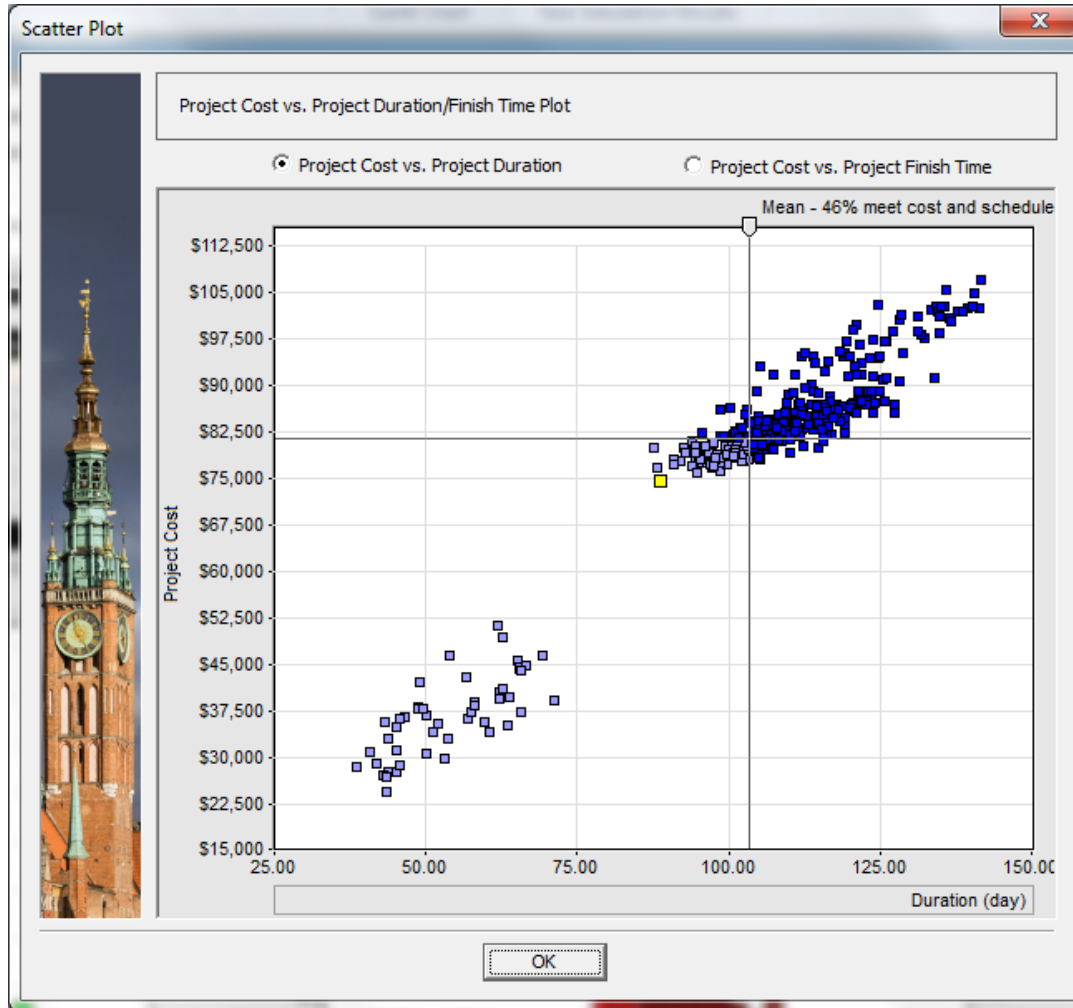
How Did You Get To The Finish?

- CPI vs. Time
- RCM vs. Time
- Error Density vs. Time
- SMI vs. Time
- Availability vs. Time

- Risks Per Requirement Type
- CPI Per Requirement Type
- Error Density Per Requirement Type
- Availability Per Risk

- Clustering:
  - Types of Requirements (based on complexity, time, etc.)
  - Types of Risks (based on complexity, time, etc.)

- Regression Analysis:
  - CPI = f(Requirement, Developer, Time, etc.)

Types of Visualizations

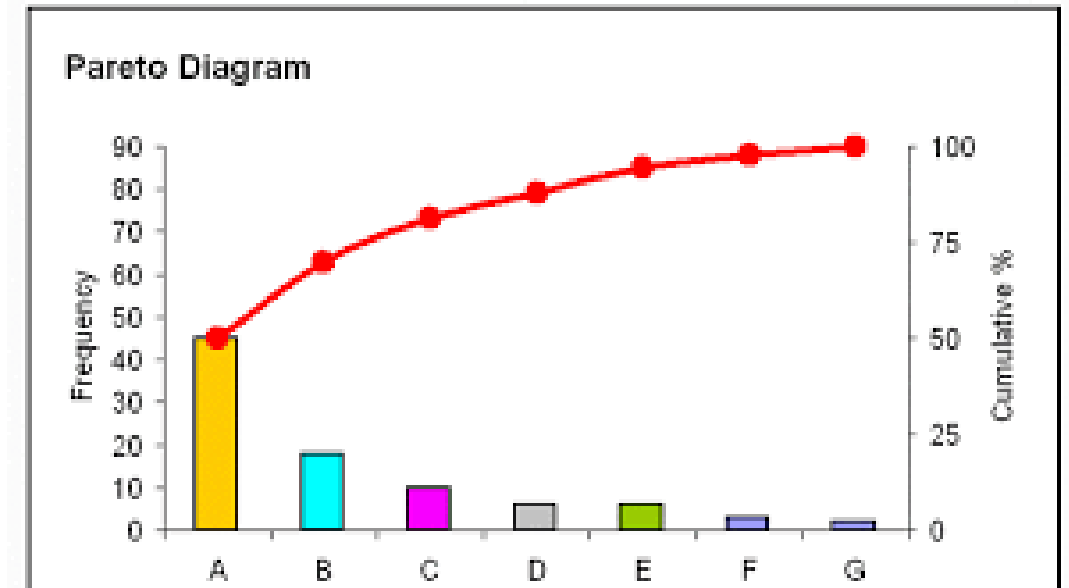# Types of Visualizations

Types of Visualizations

What Did You Learn for Next Time?

- Top 3-5 Lessons Learned

- Evidence Based
  - Data-Driven
  - Conversation-Driven (i.e., Customer Quotes)

- SMART
  - Specific
  - Measurable
  - Achievable
  - Realistic
  - Time-Related (or Resource Related)

Presentation Style

- Stories

- Humor

- Questions

- "Made You Think"

- Energy