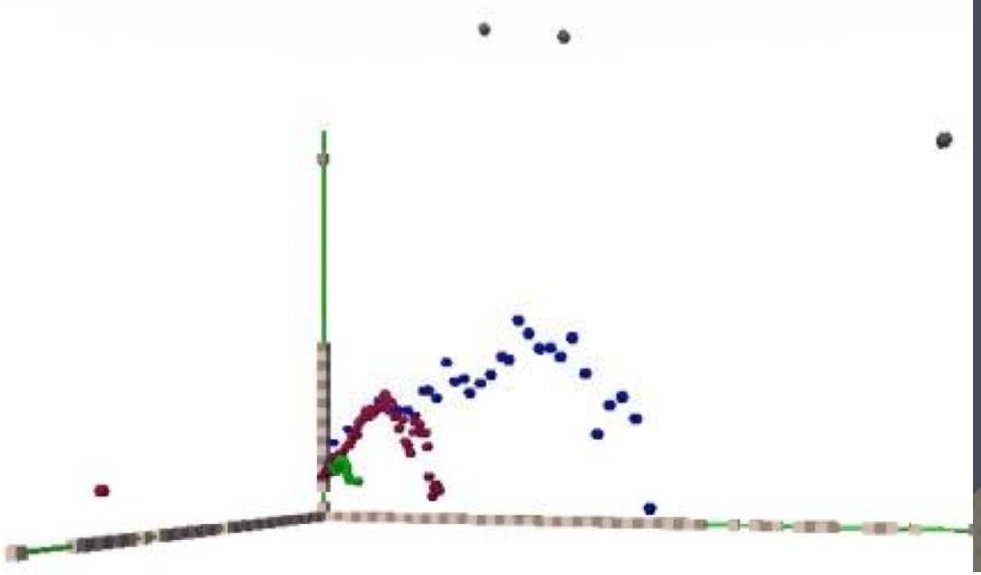
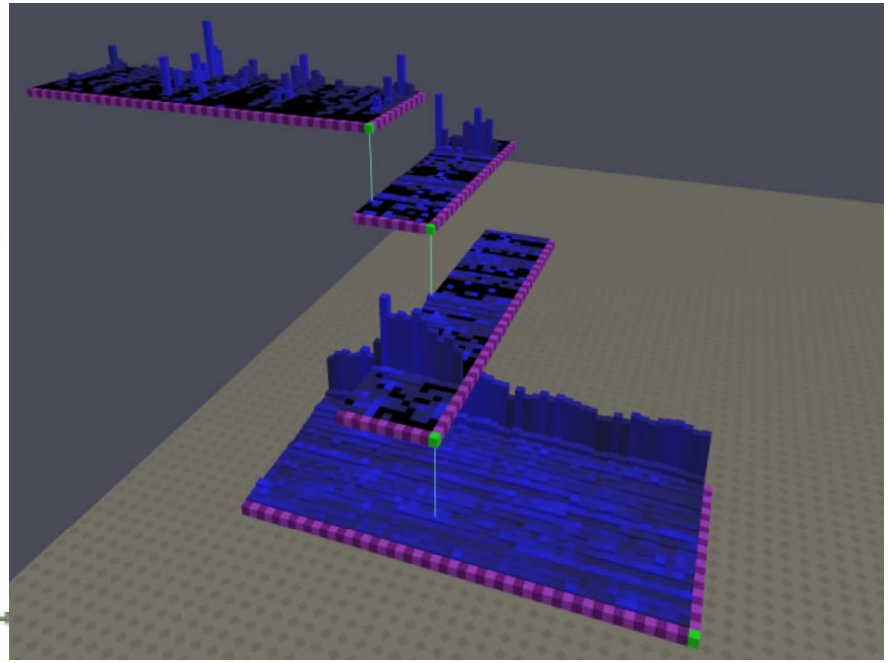
Message From Ben Lindquist

- Exciting and insightful way of visualizing and analyzing data
  - Using GreenPhosphor's GlassHouse Gateway
- Richness of Expression
  - More than 3D



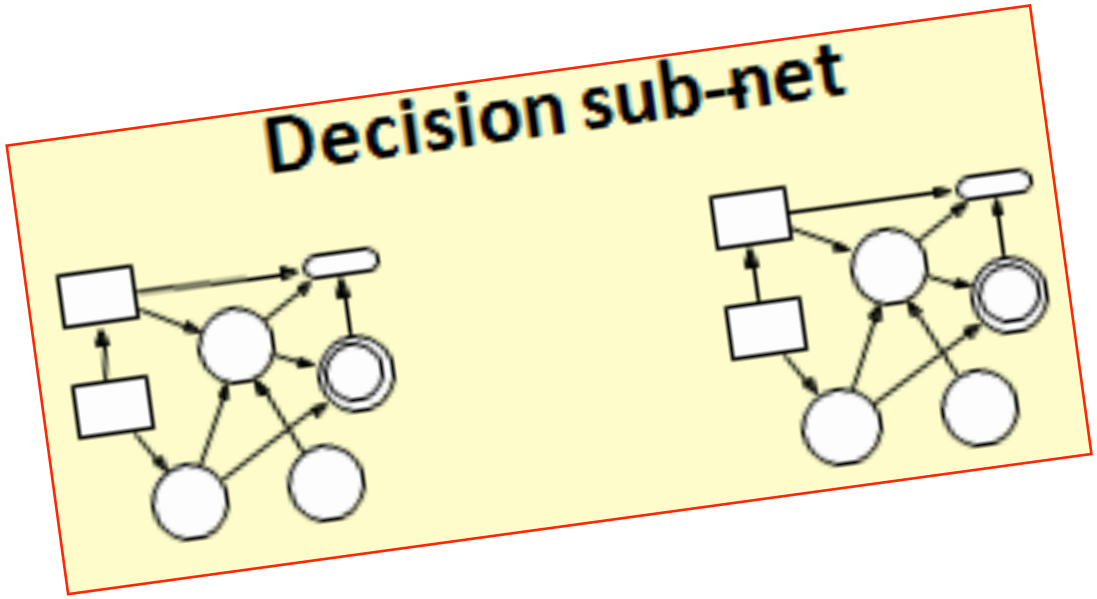


Message From Doug Burke

- Application to DoD healthcare management
  - Analytics for PTSD prediction
- Data + Analytics

Message From Dennis Buede

- Role of intelligent BOTS in virtual worlds
- BOTS are our assistants, wizards, chauffeurs…



Message From Ann Cudworth

- Hovering between Art and Science
- The Spirit of the Data
  - …listening and being one with the data
- ART + TOI ⇒ Engagement

Where Is This All Going?

- Not your grandma's pie chart!

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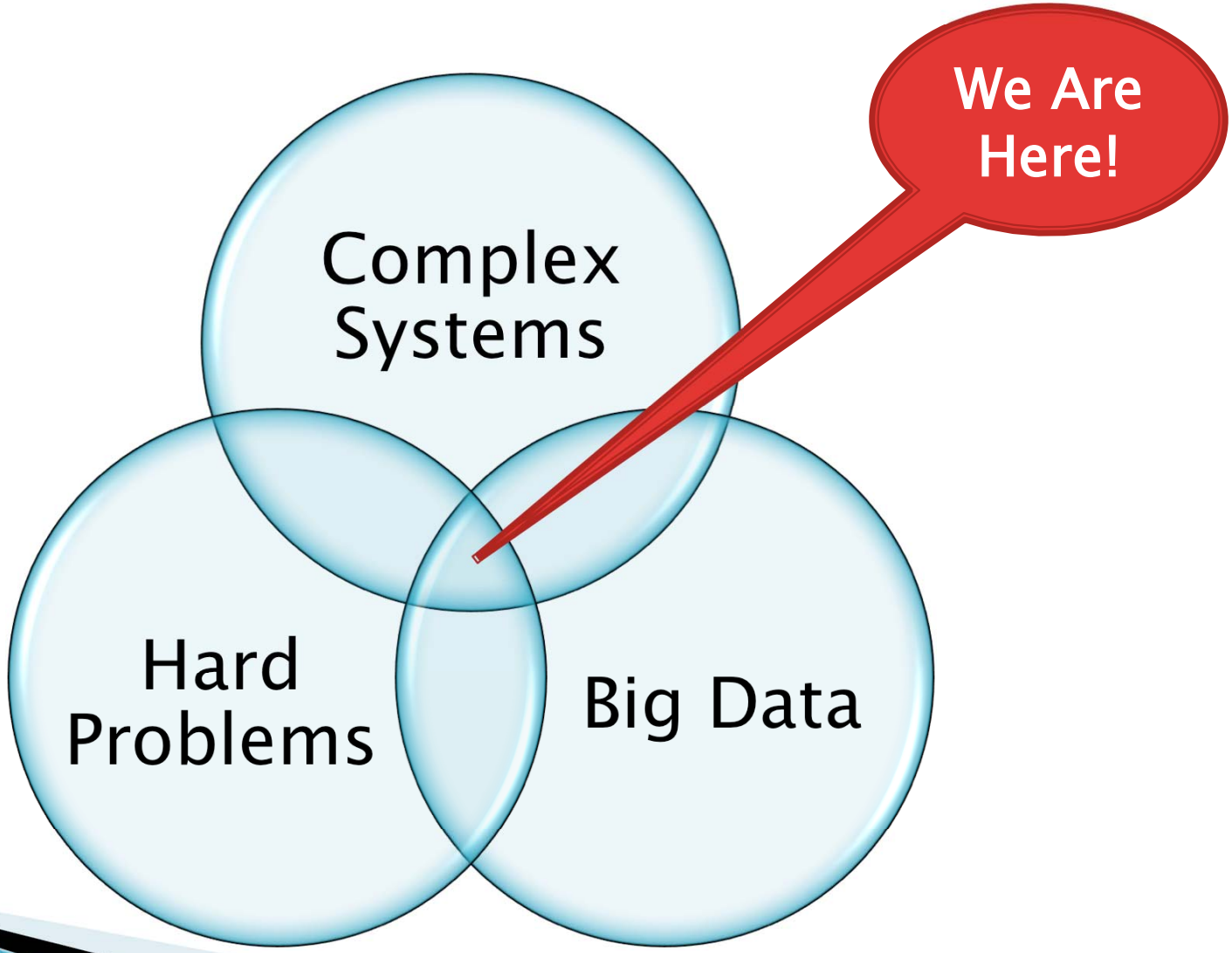
What Problems Are We Solving?



What is a Hard Problem?

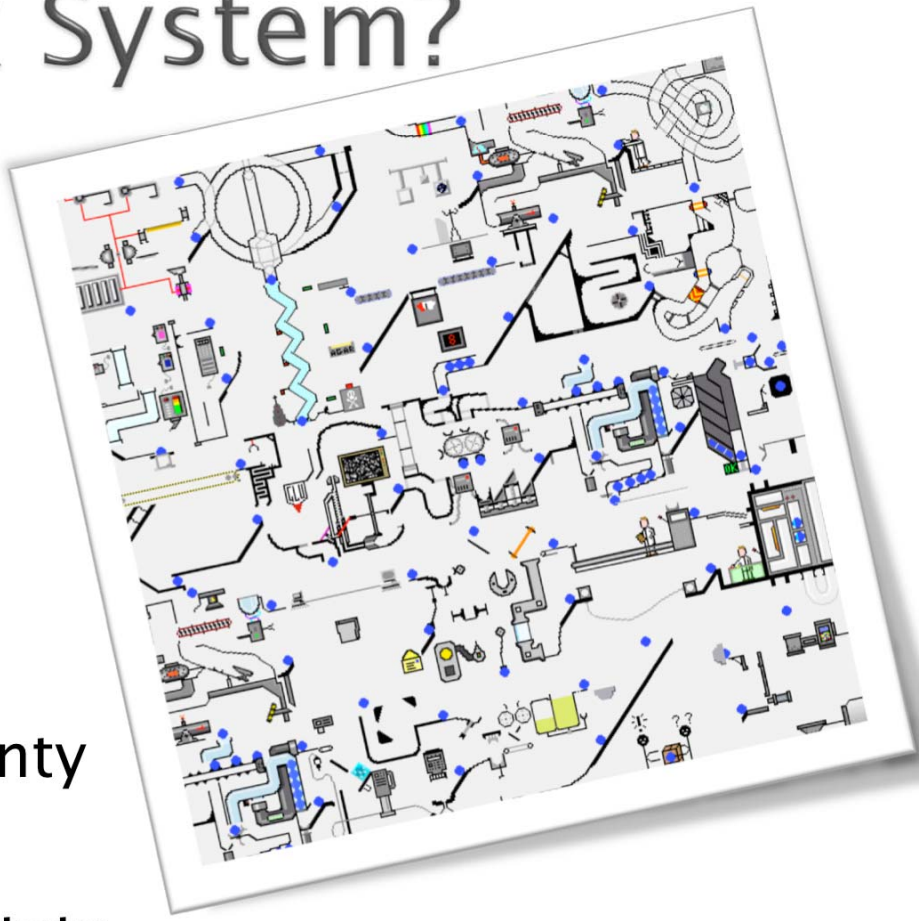
- No quick answers
- No ‘right’ answers
- Conflicting priorities
- Many valid opinions and perspectives
- Leveraging the Wisdom of the Crowd

⇒ **Managed Muddling**

Vormittag Associates, Inc.©2009

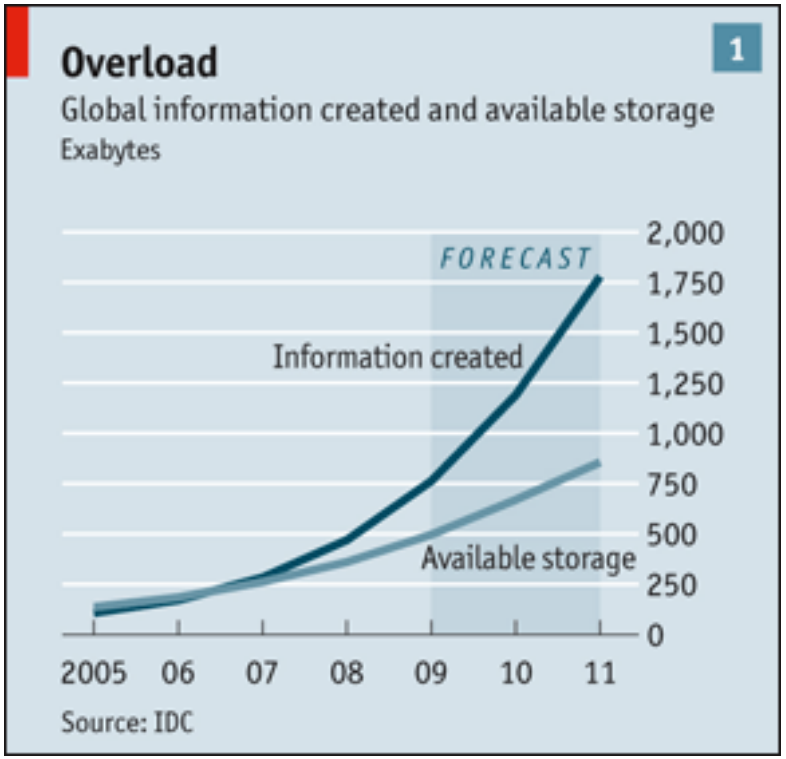
What is a Complex System?

- Non-intuitive behavior
  - Often full of surprises
- Tipping points
  - When you least expect them
- Feedback Loops
- Exponential Behavior
  - Will hit the wall… with certainty
- Small World effects
  - Phase transitions from one state



What is Big Data?

- Volume
  - More than we can store!
  - Can we ever touch each bit?
- Velocity
  - Data in motion
  - What is important to capture
- Variety
  - Many types of data!



- Analytics are a necessity
  - Can not touch all the atomic level data!

The Economist, Feb 25, 2010

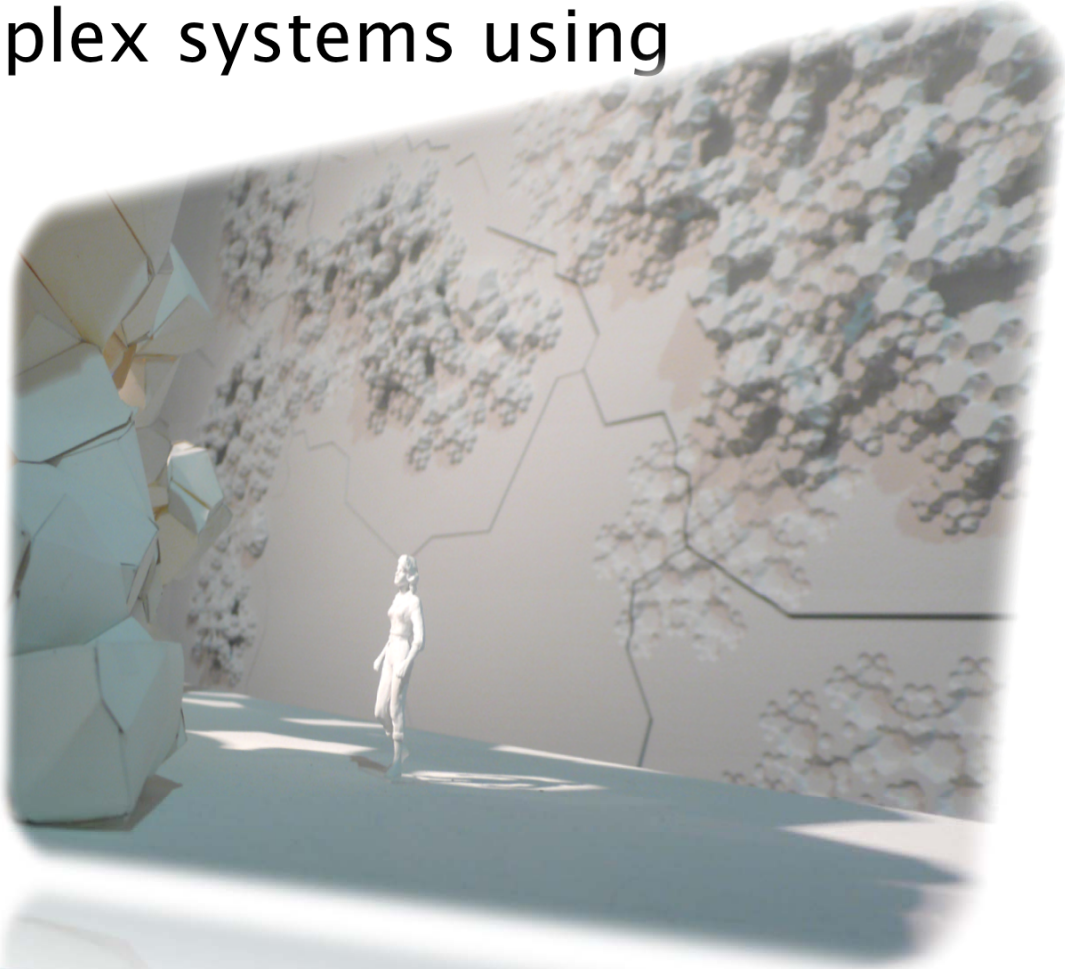
What is Required for Solutions?

- Database + analytics + visualization
- Collaborative decision making
- Actionable information
  - "What do you do with what you know?"
  - …plus the means to **execute**
- Persistent virtual world
- Community of Practice
  - To pool the knowledge commons

Stir Vigorously
and You Get…

Immersive Intelligence

- Collaborative data-driven decision process for managing complex systems using immersive spaces



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Immersive Intelligence

- Immersion is the *secret sauce*

- You are there … surrounded with others
- Analogy: Snorkeling versus SCUBA

Immersive Intelligence

- Formed an open community at…
  http://IM-TEL.org/
  - Register there! Join us for Tuesday coffee!
  - Coordinating with FCVW and others
  - LinkedIn group, Twitter, Flickr, Delicious…
- Seeking projects to demonstrate the benefits