

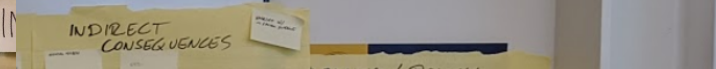
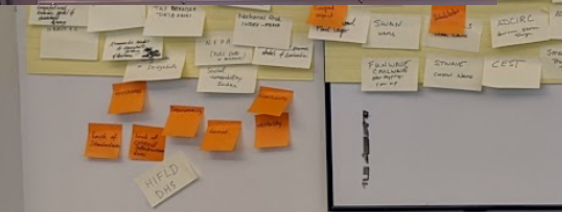


Simulation and Data Needs to Support Disaster Recovery Planning -- DAY 1 RECAP --

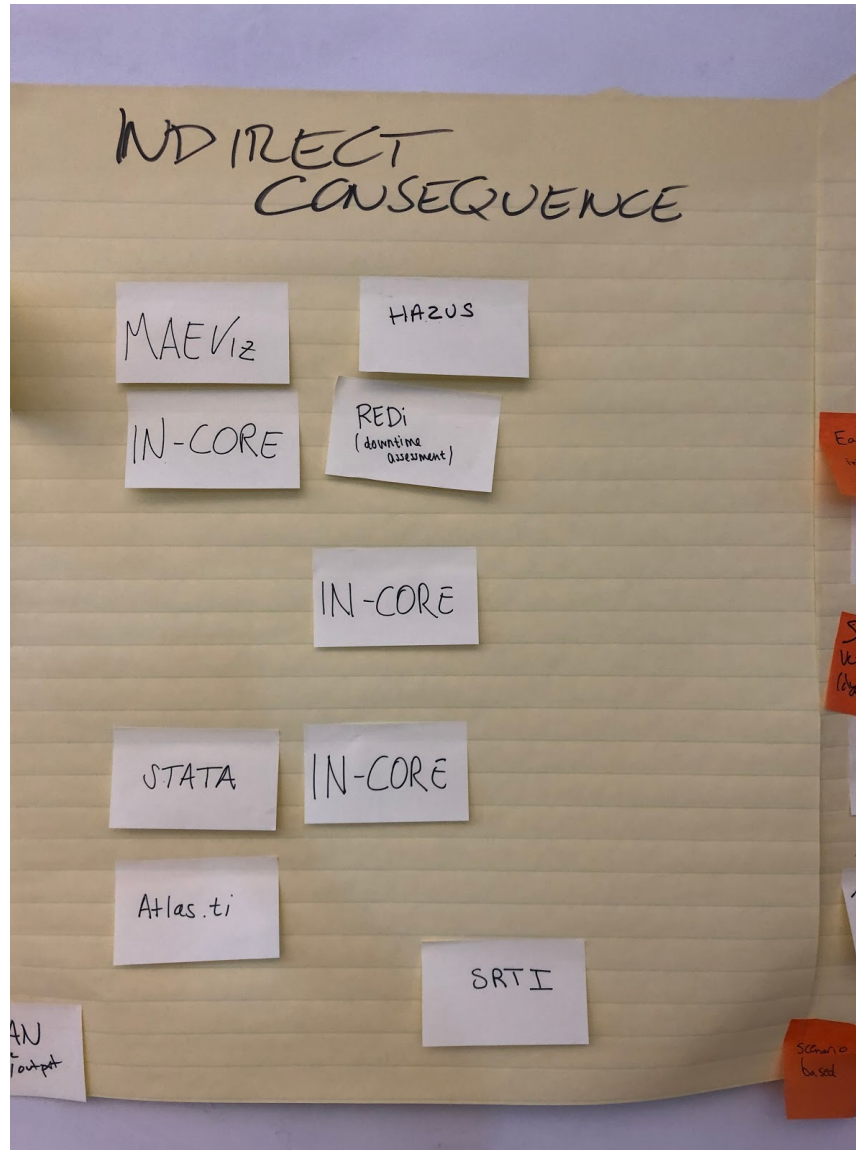
Greg Deierlein
SimCenter Co-Director
Stanford University



DAMAGE + DIRECT CONSEQUENCE



Desirable Attributes of Software



Desirable Attributes & Features

- Interoperable & Adaptable (avoid silos)
- Scalable to Complex Systems
- Standardized Data Input
- Useful (relevant, fast/efficient, documented, training/tutorials)
- Address Multiple User Needs (from hazard to planning/policy)
- Potential for real-time simulations (validate/update with ground truth data, inform recovery options)
- Open Source

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Questions/Issues to Address

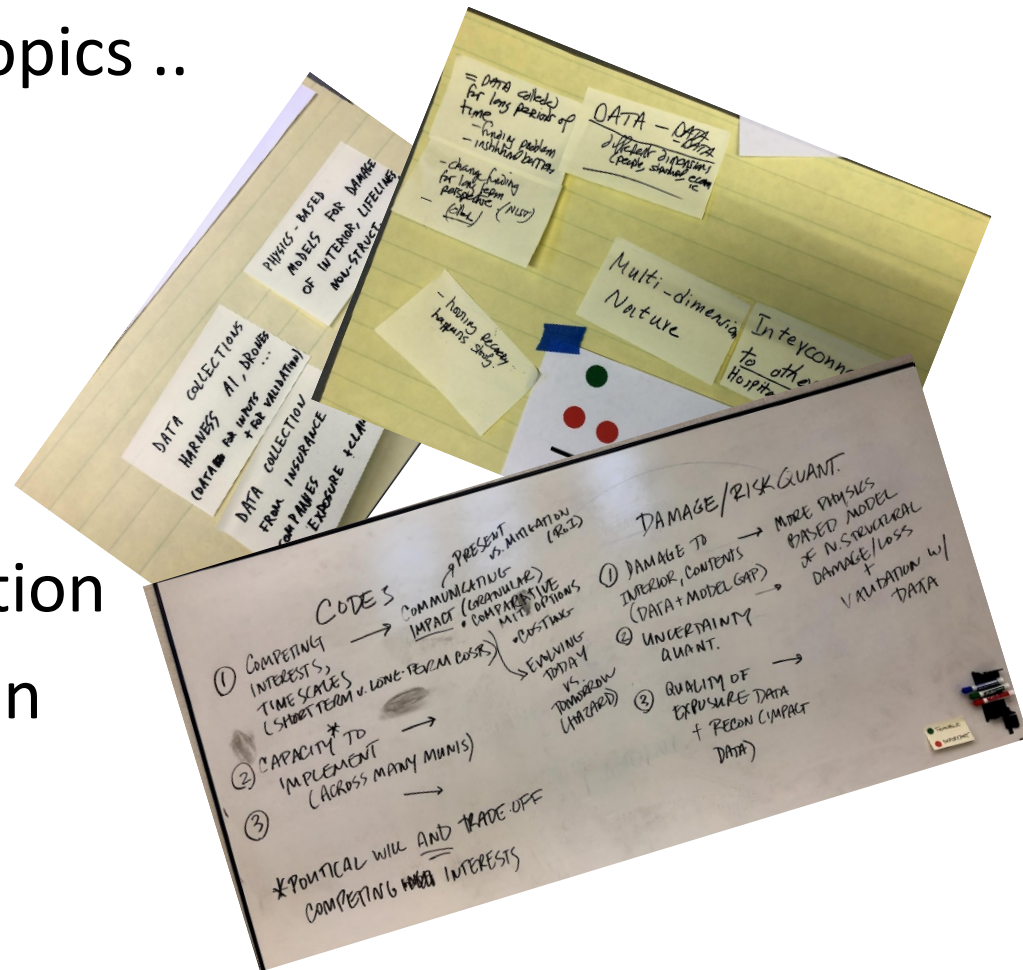
Out of Twelve Proposal topics ..

1. Housing (3)
2. Codes (2)
3. Lifelines (2)
4. Decision Making (2)
5. Displacement/Relocation
6. Damage Quantification
7. Communications

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Foundational Issues & Models Needed ... to be continued

Contributions

PROGRAM

Day 1 - Thursday, January 30, 2020

8:15 Registration/Coffee

9:00 Welcome, SimCenter Overview, and Workshop Goals

SESSION I: CONNECTING TO STAKEHOLDERS

9:30 Plenary: Application Frameworks for Regional Simulation
Greg Deierlein, Paolo Gardoni

Plenary Notes

10:15 Breakout sessions
Simulation tools, attributes, gaps and capabilities

Main Room

Room A

Room B

Theme Team

Images

Notes

Slides

Notes

Slides

Notes

Slides

11:45 Short break

12:00 Plenary: Discuss Breakout Observations

Plenary Slides

Discussion Notes

12:30 Roundtable lunch discussions

SESSION II: CONNECTING ACROSS HAZARDS

1:30 Plenary: Issues in Disaster Simulation for Recovery Planning
Laurie Johnson, Rodrigo Costa

Plenary Notes

2:15 Breakout sessions
Collect questions to be addressed by simulations

Day 2 - Friday, January 31, 2020

8:15 Registration/Coffee

9:00 Brief recap of Day 1 and plan for Day 2

SESSION III: DATA SOURCES

9:30 Data needs and sources
Tracy Kijewski-Correa, Charles Vardeman

Plenary Notes

10:00 Breakout sessions
Identify uses, needs and sources of data

Main Room

Room A

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Notes

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Slides

11:30 Short break

11:45 Plenary: Discuss Breakout Observations

Plenary Slides

Discussion Notes

12:15 Roundtable lunch discussions

SESSION IV: INTERDISCIPLINARY ENGAGEMENT

1:15 Plenary: Engagement through benchmarking testbeds
Scott Miles, Paolo Gardoni, Rachel Davidson, Youngjun Choe

Plenary Notes

2:00 Breakout sessions
Develop strategies for sharing and vetting of methods



Agenda

THURSDAY - JANUARY 30

FRIDAY - JANUARY 31

Application Frameworks for Regional Simulation

Gregory Deierlein, Paolo Gardoni

Issues in Disaster Simulation for Recovery Planning

Laurie Johnson, Rodrigo Costa

Data needs and sources

Tracy Kijewski-Correa, Charles Vardeman

Engagement through benchmarking testbeds

Scott Miles, Paolo Gardoni, Rachel Davidson, Youngjun Choe