

Probabilistic Flood Hazard Assessment

Panel 8 – Observations, Insights, and Opportunities

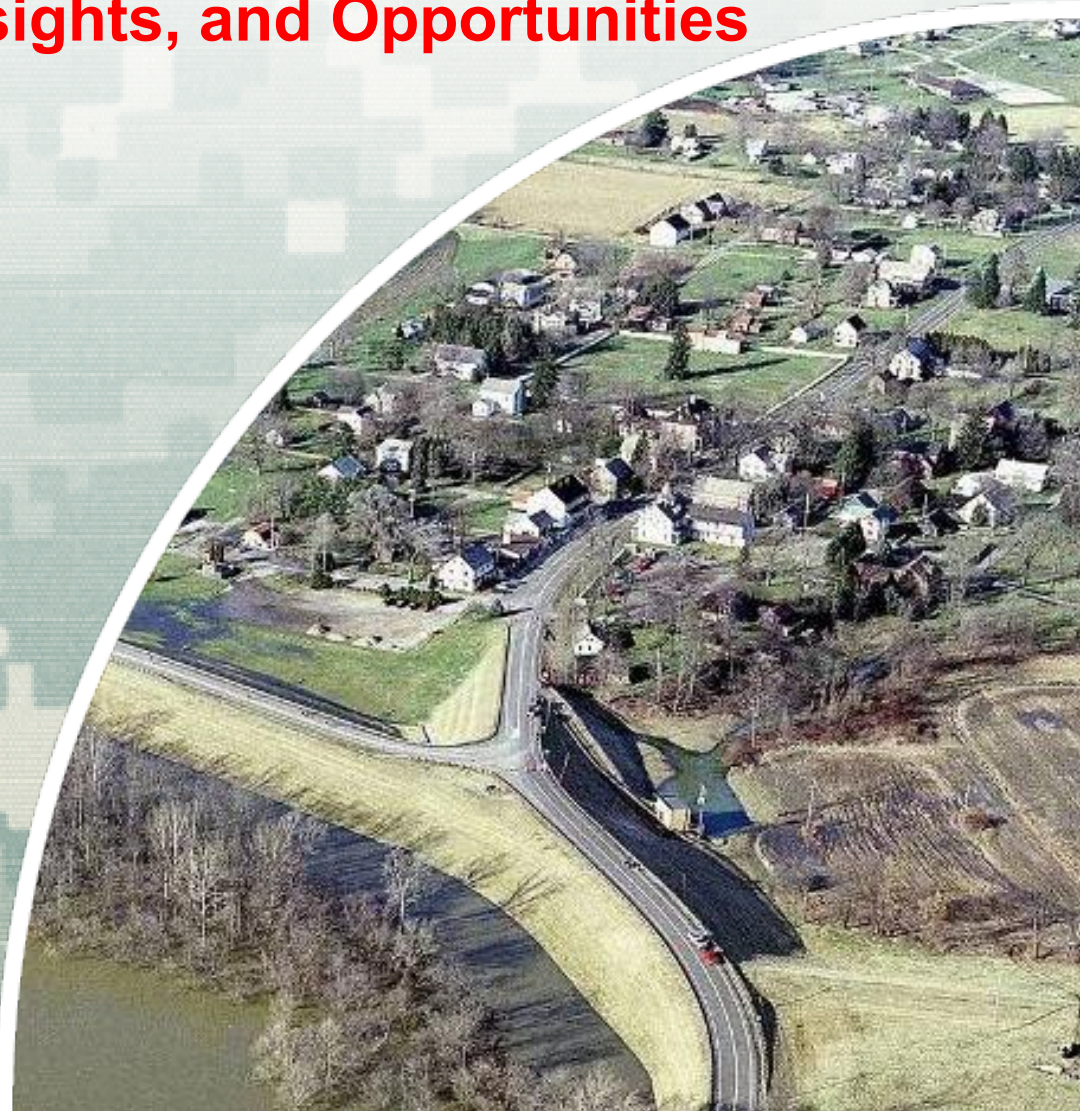
Rockville, MD

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US Army Corps of Engineers
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Panel 8

- Respect the past while looking forward toward the future
- Hang ups to address – Some are not technical
- Don't miss or double count the important uncertainties even if they cannot be quantified



Panel 8

- Large contribution from combinations of less than extreme events
- Scalable and flexible methods – Challenge the existing guidance and methods
- In hindsight we often realize what we could have known



Risk Informed is a Process, Not A Calculation

- Gather
 - ▶ Evidence using multiple sources and methods
- Apply
 - ▶ Art, science, critical thinking, judgment
- Improve
 - ▶ Knowledge, understanding
- Inform
 - ▶ Credible decisions
- Communicate



Truth

- In our quest for the truth, we are very good at making many assumptions that allow us to precisely calculate things that are very uncertain
- In theory there is no difference between theory and practice. In practice there is. (Berra)



Paradigm Shift

Follow the Guideline



Imagine

Meet the Standard



Make the Case

Estimate Things
Right



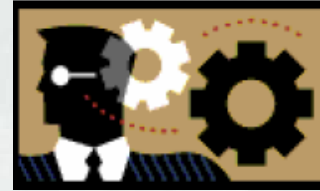
Estimate The Right
Things



Data + Imagination



Frequentist



Bayesian

