Innovative Technology Tools for an Engaged and Informed Citizenry

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The Challenge:

Communicate **risk** (specifically flood risk) in a way that promotes **critical thinking**, empowers personal **engagement**, and elicits a sense of **empathy** for interdependent components of the system.
Systems are Complex
Communicating Complexity

Visual, organizational map of complex systems broken into seven sub-groups, created by Hiroki Sayama, D.Sc.
How do we communicate “flood risk”?
“Getting the word out” is not enough...

- Less than one in 10 respondents characterized their community as having a “high” risk of flooding.
- Few Americans surveyed believe that their home is at risk of flooding. When asked, 10% of survey respondents believe their residence is at risk.

Source: FEMA
Gamification of Flood Risk?
Your objective is to correctly manage the outflow of the dam while also keeping the levees in a healthy state during a heavy storm as to avoid a flood.

Download here: www.nevadafloods.org

Watch the tutorial video https://youtu.be/GgoYBNhNHzy
Who are the “Gamers”?

Where credit is due…
“...Ten years later, a girl in rural Maharashtra is studying aeronautical engineering following her encounter with the computer in the wall. A village boy who became a genetic engineer in one of India's premier laboratories found the subject by reading the New Scientist at his hole in the wall.”

– Sugata Mitra, Hole-In-The-Wall Project

Thank you!

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