Paying for Predictions

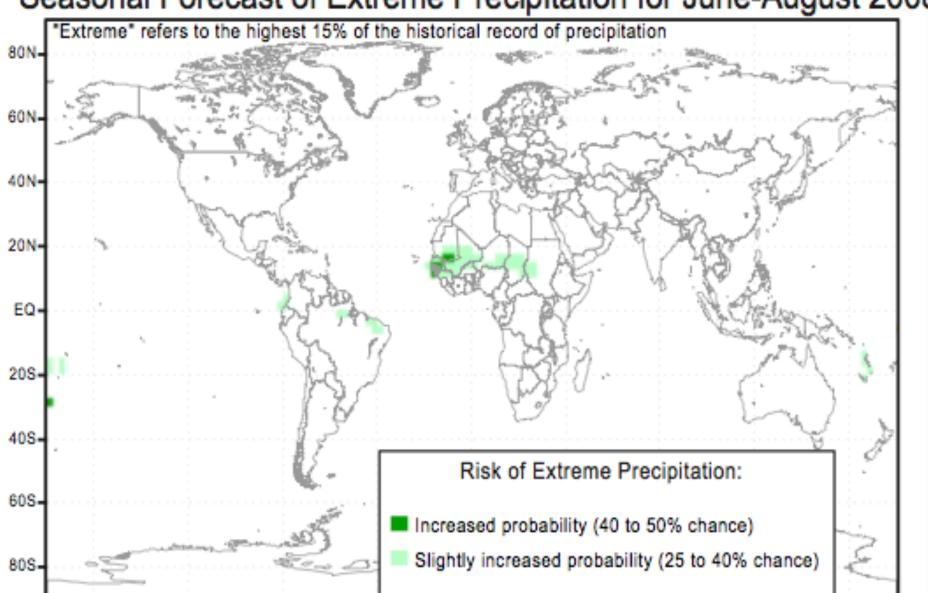
Rethinking Climate Services through Gameplay

by Pablo Suarez & Janot Mendler de Suarez

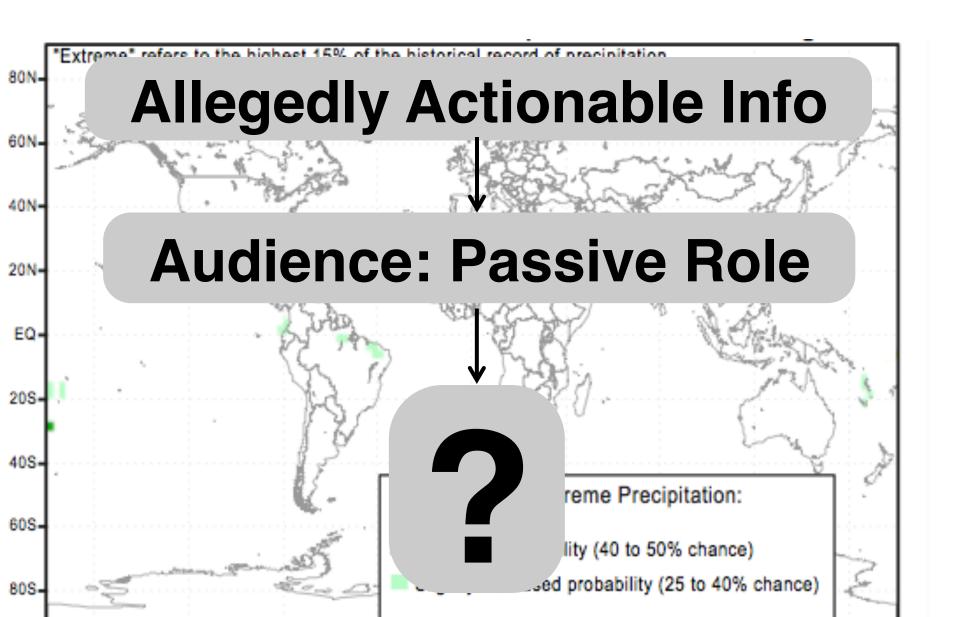


Fax to Red Cross with New Info (May 2008)

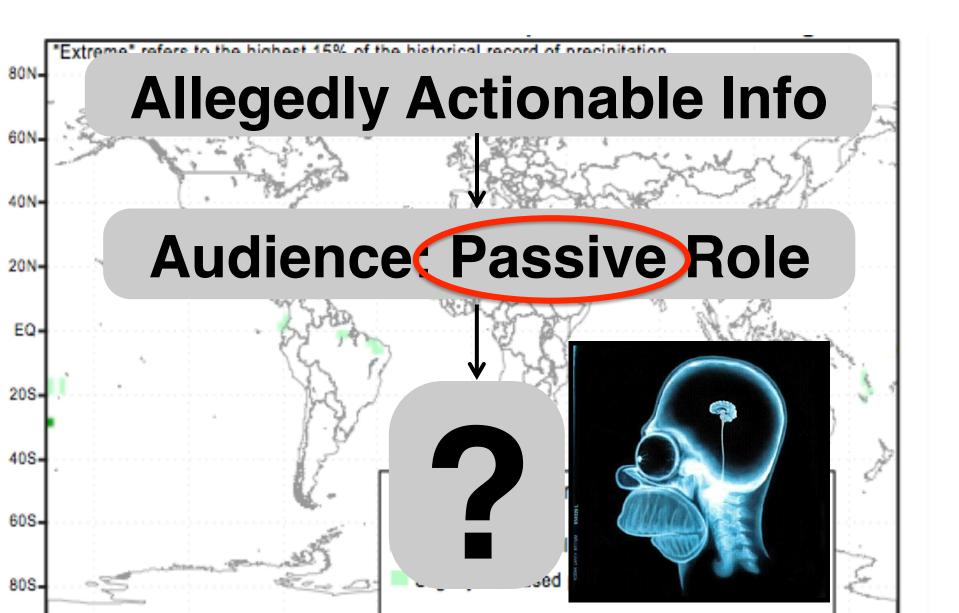
Seasonal Forecast of Extreme Precipitation for June-August 2008



Model of a Forecast Experience



A Model of the Usual Experience



GROUND RULES

- 1. Game = simplified representation of reality
 No questioning of game rules
- 2. Decisions are individual

 But consultation with team is encouraged
- 3. You win or lose beans
 Beans cannot be shared Start with 10
- 4. We will play 10 years (rounds) Expect time pressure...

WINNERS & LOSERS

Losers: Most red stones (humanitarian crises)

Winning Players: No crisis, and Most beans for Long-Term Investment

Winning Team: Fewest crises (if tied: Most beans for Long-Term)

Flood Risk Depends on Upstream Rains



Flood if 10+ (~16% chance)





(DISASTER MANAGER)

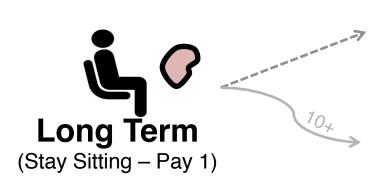


Stay sitting

Pay 1 bean for Long Term



Stand up for Flood Preparedness: Pay 1 bean for Early Action

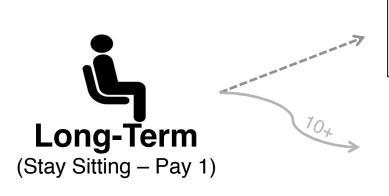




Long-Term Investment



Oh No!! ('Long-Terr in estment reallocated)
Pay 4 – or CRISIS





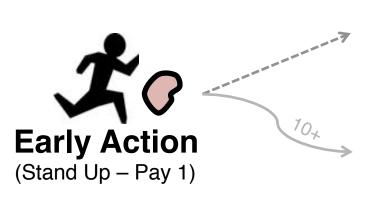
Long-Term Investment



Oh No!! ('Long-Term' investment reallocated)
Pay 3 - or *CRISIS*



Do Nothing, No Flood`





Act in Vain (Beans gone)



Hero!

Not enough beans to pay?

Crisis! (get red stone)

GET A REGIONAL EARLY WARNING?

~Half of provinces will have info about likely rains

- Cost of transparent cup: XX beans
- Highest bidders get the investment

Provinces that get Early Warning can see regional die before decision, throughout game.

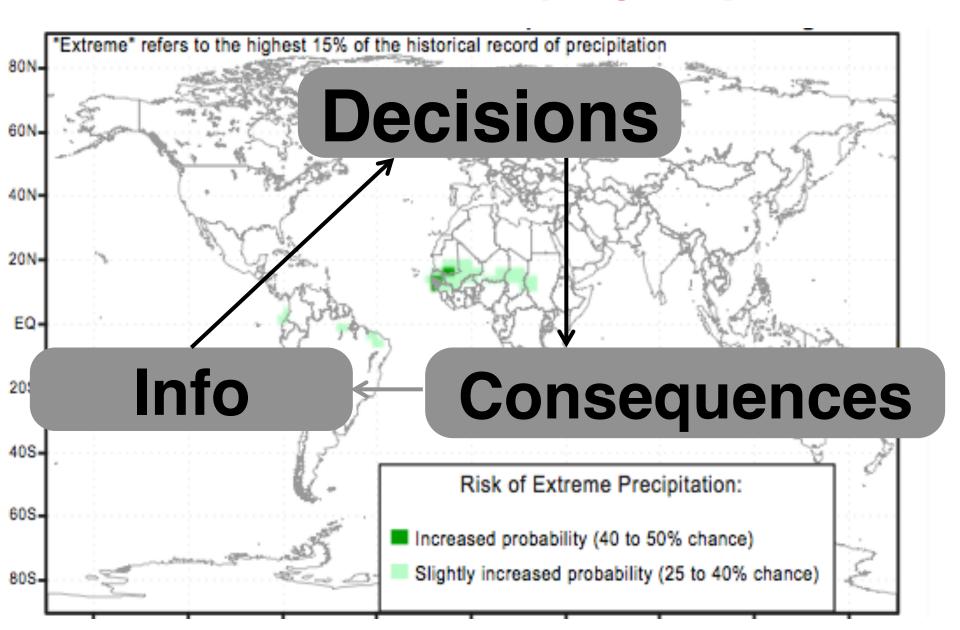
WINNERS & LOSERS

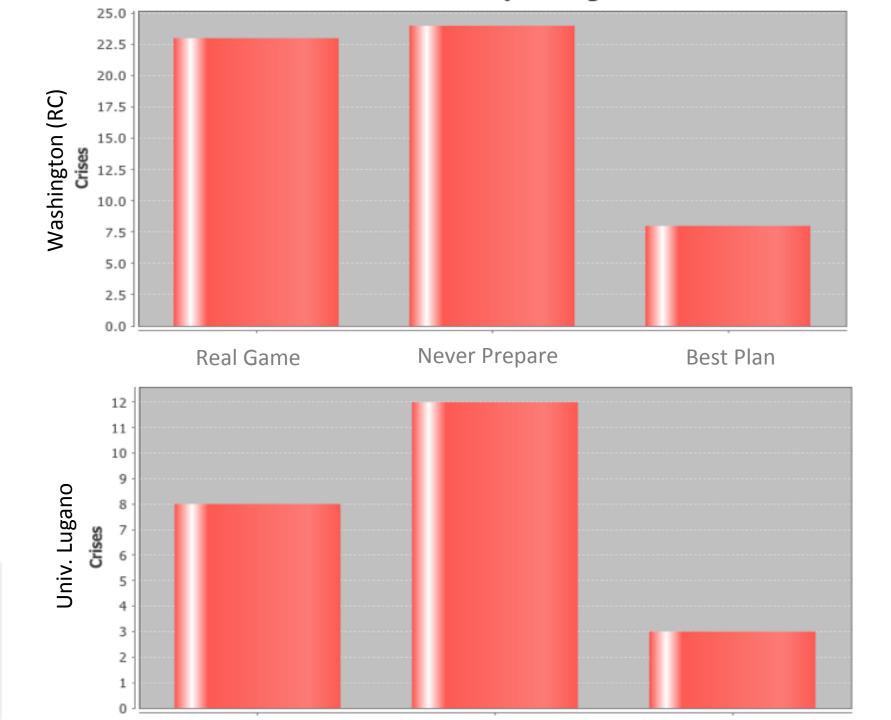
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A Model of the Gameplay Experience





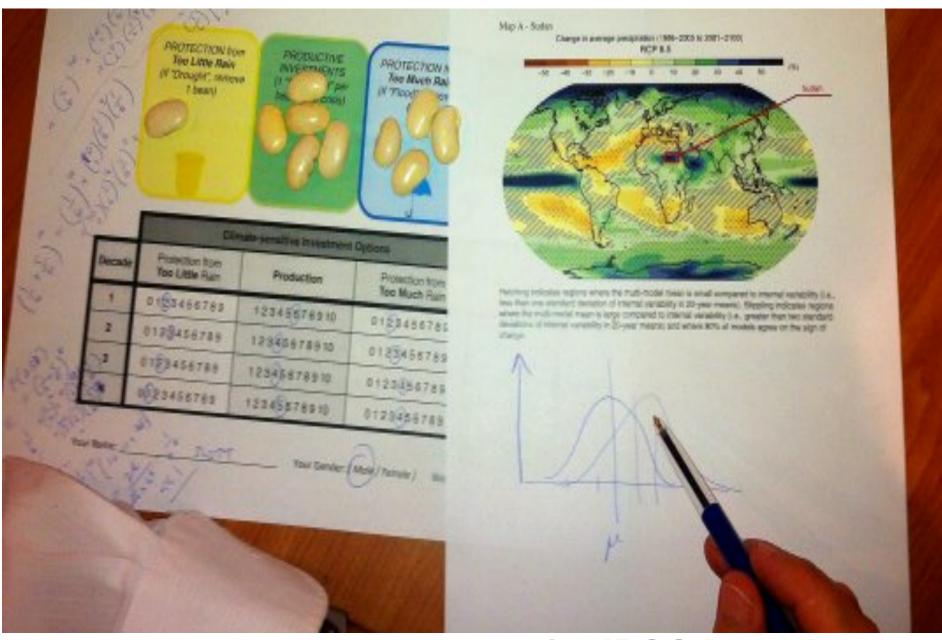
WHY GAMES for Actionable Info:





with University Students





with IPCC Lead Authors

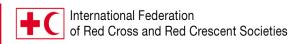


at the White House

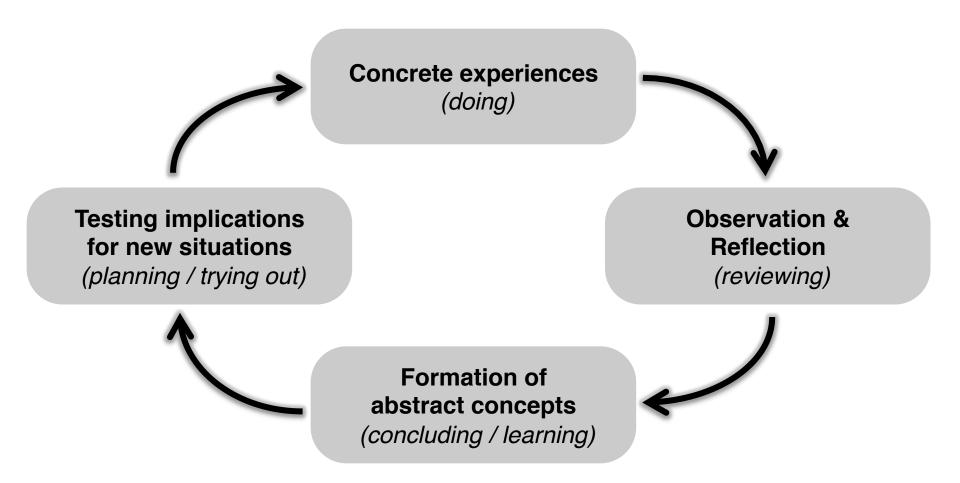
Gameplay beats Powerpoint

- 1. Active learning (Peer-to-peer, "Aha!" moments UNFCCC)
- 2. Serious, fun engagement (Emotions matter! RockFound)
- 3. Data collection on decisions (In real time GEC)
- 4. Optimization platform (illiteracy no problem)

WWW.CLIMATECENTRE.ORG



The Experiential Learning Cycle: A Model for 'Lincoln Lab + Climate Centre'?



RED CROSS/RED CRESCENT

International Federation of Red Cross and Red Crescent Societies

CLIMATE CENTRE

The Netherlands Red Cross

























Oxfam
America











Climate & Development Knowledge Network





