

How do stakeholders collaborate in situations of inherent power and resource imbalance?

- □ In a collaborative governance, diverse stakeholder government, private, and citizens – collaborate through consensus oriented decision making to solve complex social problems.
- When diverse stakeholders participate in decision making process, competing but, legitimate interest emerge.
- Stakeholder indifferences, in terms of power and resources, acts as a greater barrier to successful collaborative decision making...

Using interactive computer simulation as a deliberation platform, we ran series of game scenarios to test participants contribution to social goods game in situations of power and resource indifference.

We also tested the role of technology and impact of roleplaying on participants empathy.

WaterSim: An Interactive **Deliberation Platform**

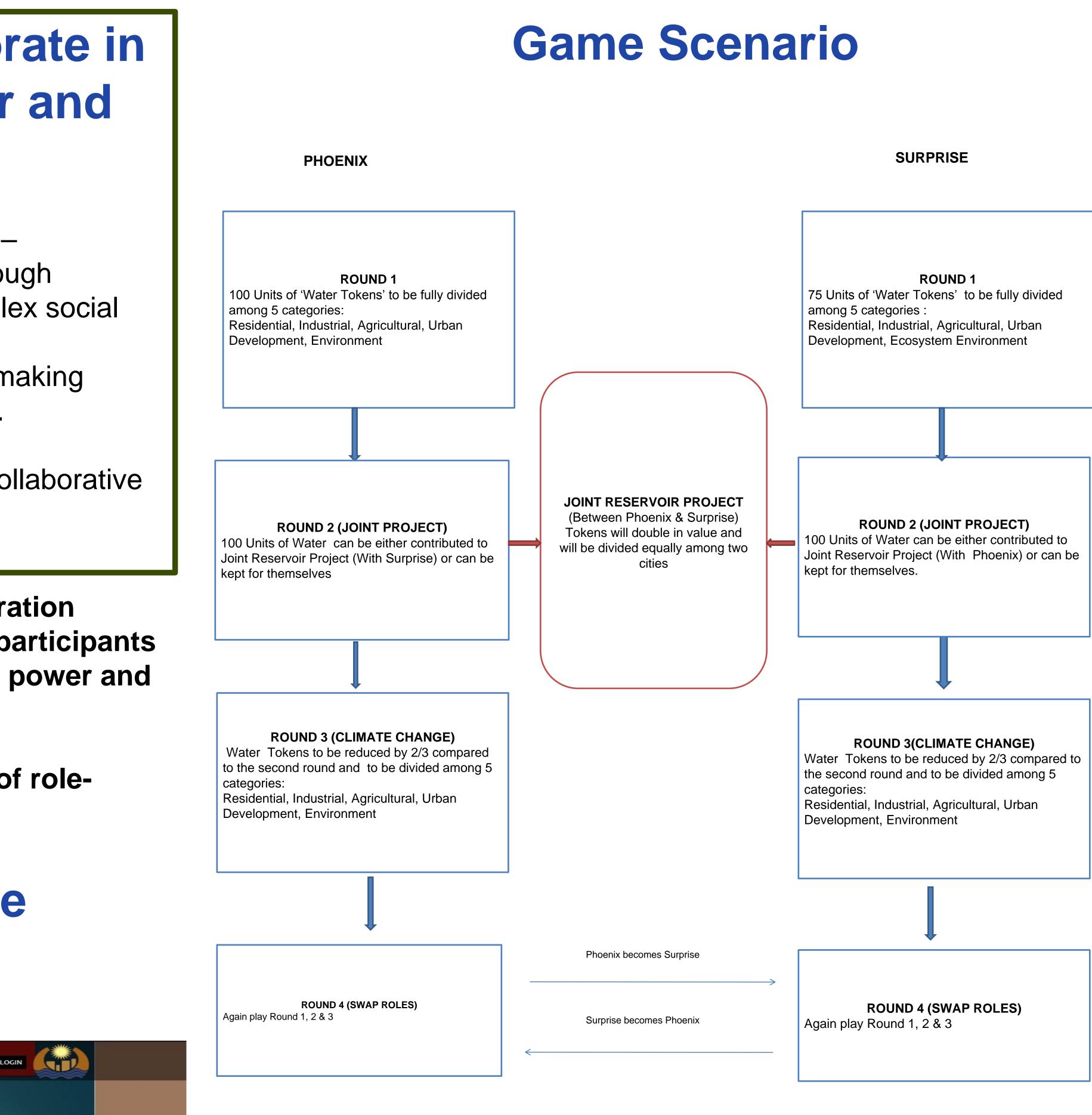
HOME ABOUT INSTRUCTIONS
Decision Game 2012 Decision center for a desert city
Sign In
Username Password Submit
© 2012 DCDC NSF Funded All rights reserved.

Acknowledgements

This material is based upon work supported by the National Science Foundation (NSF) under Grant No. VOSS-1143761, 0838206 and 0838295 & Grant No. SES-0951366 Decision Center for a Desert City (DCDC). Any opinions, findings and conclusions or recommendation expressed in this material are those of the author and do not necessarily reflect the views of the National Science Foundation (NSF).

Fostering Perspective-Taking in Collaborative Decision Making through an Interactive Computer Simulation

Rashmi Krishnamurthy¹, Erik Johnston¹, Manikandan Vijaykumar², & Ajay Vinze³ School of Public Affairs¹, Ira A. Fulton Schools of Engineering², W. P Carey School of Business³, Decision Center for a Desert City, Arizona State University



WaterSim is an interactive web-based simulation model located in ASU's Decision Theater. It is designed to help stakeholders evaluate water challenges in the Phoenix metropolitan area under conditions of uncertainty.

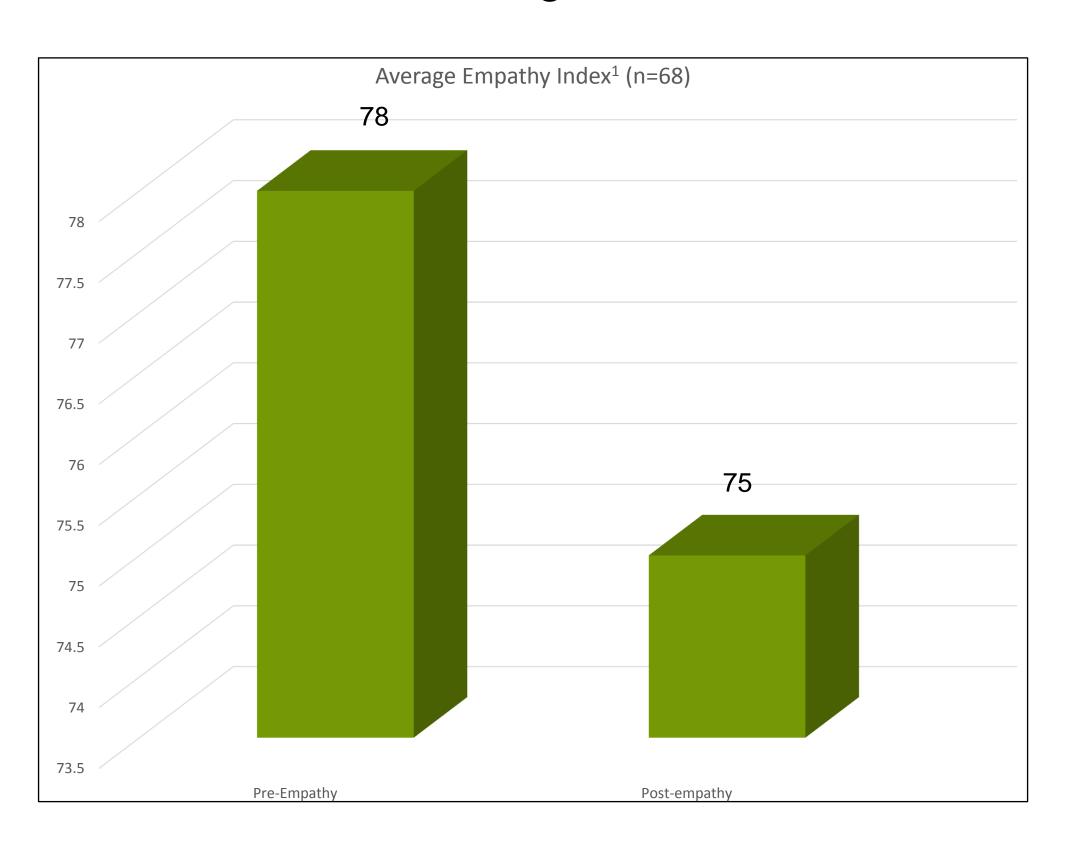
Participants were asked to allocate 100 tokens to five categories of challenges in society pre and post their interactions with WaterSim.

This study was built into class curriculum so that participation was part of a regular class session.

Sample A total of 68 students participated in the study.

Empathy & Interaction with Technological Interface (Preliminary Findings)

In general, participants experienced a change in their empathy scores when they deliberated with other group members and when they interaction with the technological interface.



Conclusion & Future Work

- to participants.
- collaborative setting.

References:

(10)2, pp. 114-127.

(56)2, pp. 141-148.

Segal, E. (2007a) "Social Empathy: A New Paradigm to Address Poverty", Journal of Poverty (11)3, pp. 65-81. Segal, E. (2007b) "Social Empathy: A tool to address the Contradiction of the Working but still Poor", *The Journal of Contemporary Social* Service (88)3, pp. 333-337.

Research (37)3,pp. 266-277.

2. See Hu, Q., Johnston, E. W., Hemphill, L., Krishnamurthy, R., & Vinze, A. (2012). Exploring the role of interactive computer simulations in public administration education, Journal of Public Affairs Education 18(3), 513-530.: Krishnamurthy, R., Desouza, K. C., Johnston, E. W., & Bhagwatwar, A. (submitted 2012). A glimpse into policy informatics: The case of participatory platforms that generate synthetic empathy. Communications of the Association of Information Systems.



Our preliminary results indicate an interesting story; participants' interaction with WaterSim and technological interface results in change in participants' empathy scores (pre & post experiment). □ This finding supports our previous results² that interactive computer simulation provides an effective learning experience

In future, we will explore the relation between participants' empathy scores (individual categories) and contribution in

1. Our empathy index is based on Gerdes, K. E., and E. A. Segal. (2009) "A Social Work Model of Empathy", Advances in Social Work

Gerdes, K. E., and E. A. Segal. (2011) "Importance of Empathy for Social Work Practice: Integrating New Science", Social Work

Segal, E. (2011) "Social Empathy: A Understanding, and Social Responsibility That Promotes Social Justice", Journal of Social Service