

“The room where it happens”

Co-producing scenarios for the FACETS project



Dr. Wendy-Lin Bartels, Anthropologist – UF, SFFGS

Collaborators: Carrie Furman (UGA), Kristin Rowles & Mark Masters (Albany State University)

Feb 2022 Water Institute Symposium



United States
Department of
Agriculture National Institute
of Food and
Agriculture



UNIVERSITY OF
GEORGIA



Albany State
University
UNIVERSITY SYSTEM OF GEORGIA

UF | Water Institute
UNIVERSITY OF FLORIDA

Award Number: 2017-68007-26319



Floridan Aquifer



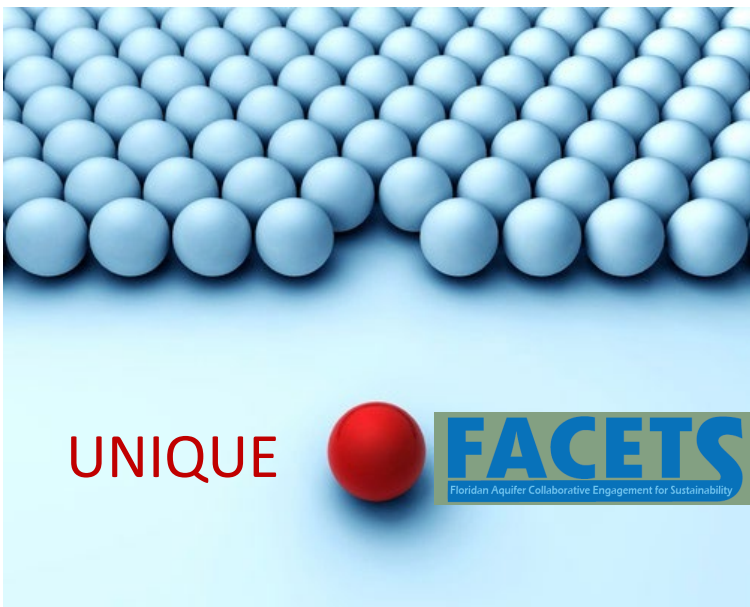


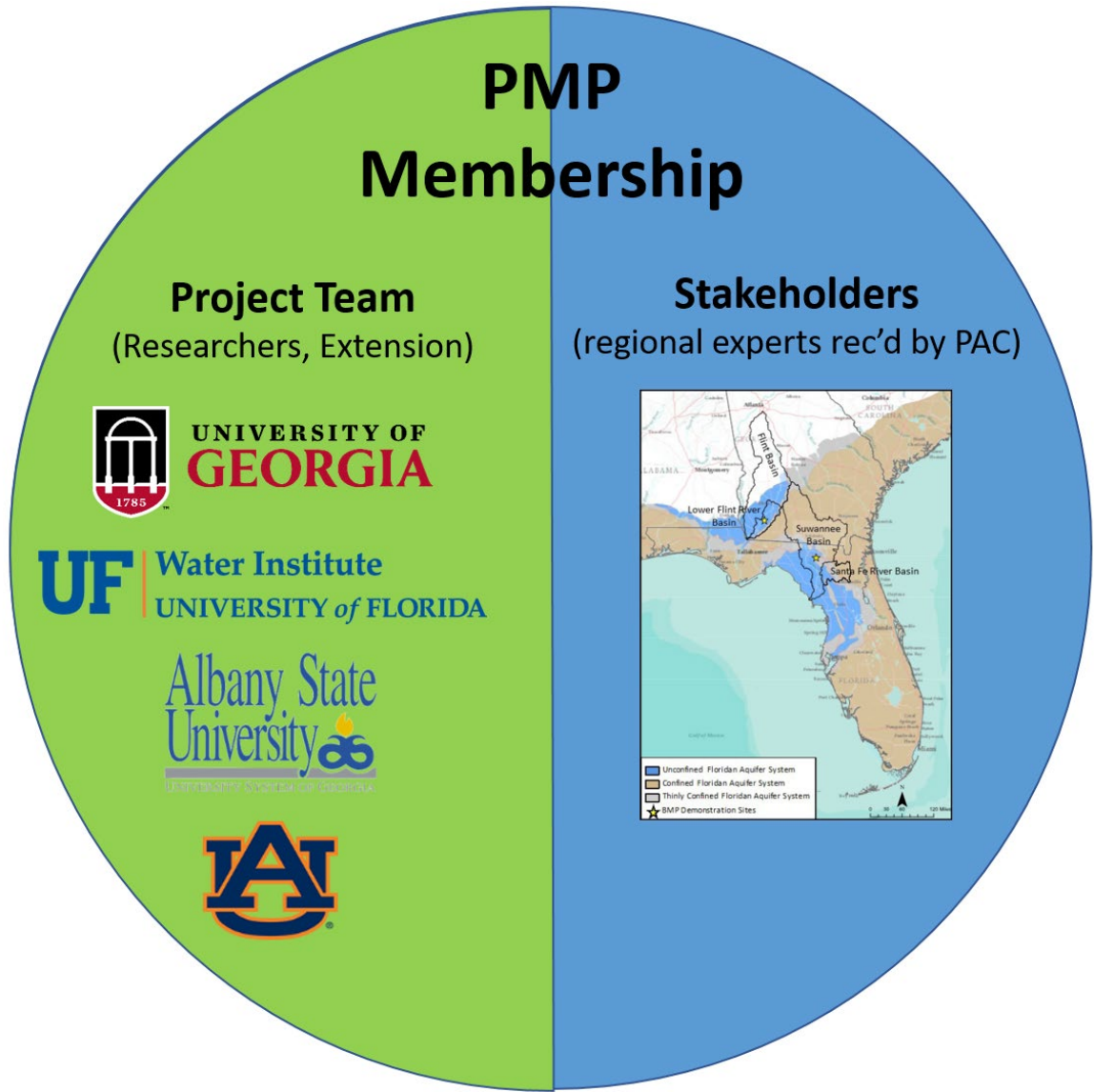
Image Source: <https://www.searchenginejournal.com/how-unique-can-an-seo-firm-really-be/44379/>

Participatory Modeling Process (PMP)

brings scientists and stakeholders together to

- co-create models and collaboratively interpret results
- explore economic and environmental tradeoffs among alternative future scenarios
- understand changes needed to achieve agricultural water security and environmental protection
- develop a shared understanding of the problem





GEORGIA STAKEHOLDERS

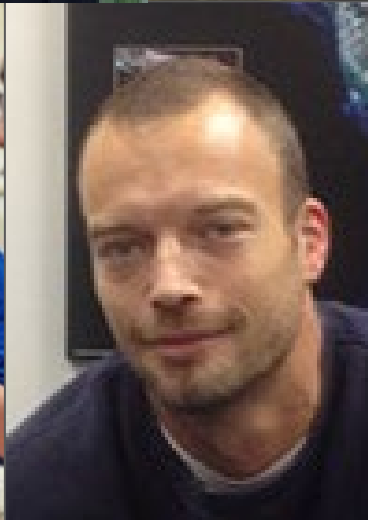
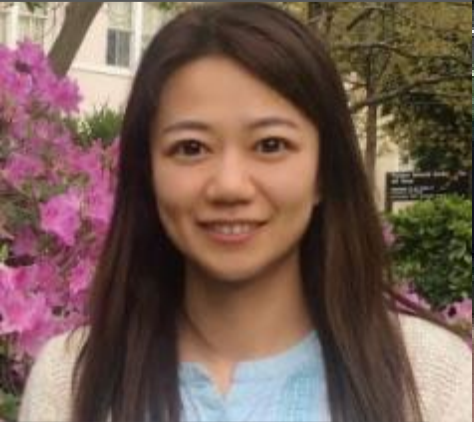
- Hillside Farms, *Mike Newberry*
- RW Griffin, *Greg Murray*
- UGA Sustainable Forestry Initiative, *Chase Cook*
- Southern Forestry Consultants, *Michael Dooner*
- Flint River Soil & Water Conservation District, *Perri Campis*
- Georgia Environmental Protection Division, *Anna Truszczynski*
- The Nature Conservancy, *Sara Gottlieb*
- Flint Riverkeeper and USGS, *Elliott Jones*
- Jones Ecological Center, *Steve Golladay*
- City of Camilla, *Steve Sykes*
- Baker County, *Connie Hobbs*
- Georgia Farm Bureau, *Jeffrey Harvey*
- Georgia Forestry Commission, *Bert Early*

FLORIDA STAKEHOLDERS

- Brock Farms, *Kirk Brock*
- Grimmway Farms, *Jason Chandler*
- Florida Farm Bureau Federation, *Charles Shinn*
- Rayonier Inc., *Dan Roach*
- Usher Land and Timber Inc., *Eric Handley*
- Suwannee River Water Management District, *Hugh Thomas*
- Florida Department of Agriculture and Consumer Services, *Kathryn Holland*
- Florida Department of Environmental Protection, *Transitioning from, Kevin Coyne*
- Santa Fe Springs Protection Forum, *Stacie Greco*
- Ichetucknee Alliance, *Lucinda Merritt*
- Audubon, *Jacqui Sulek*
- The Nature Conservancy, *Lesley Bertolotti / David Royal*

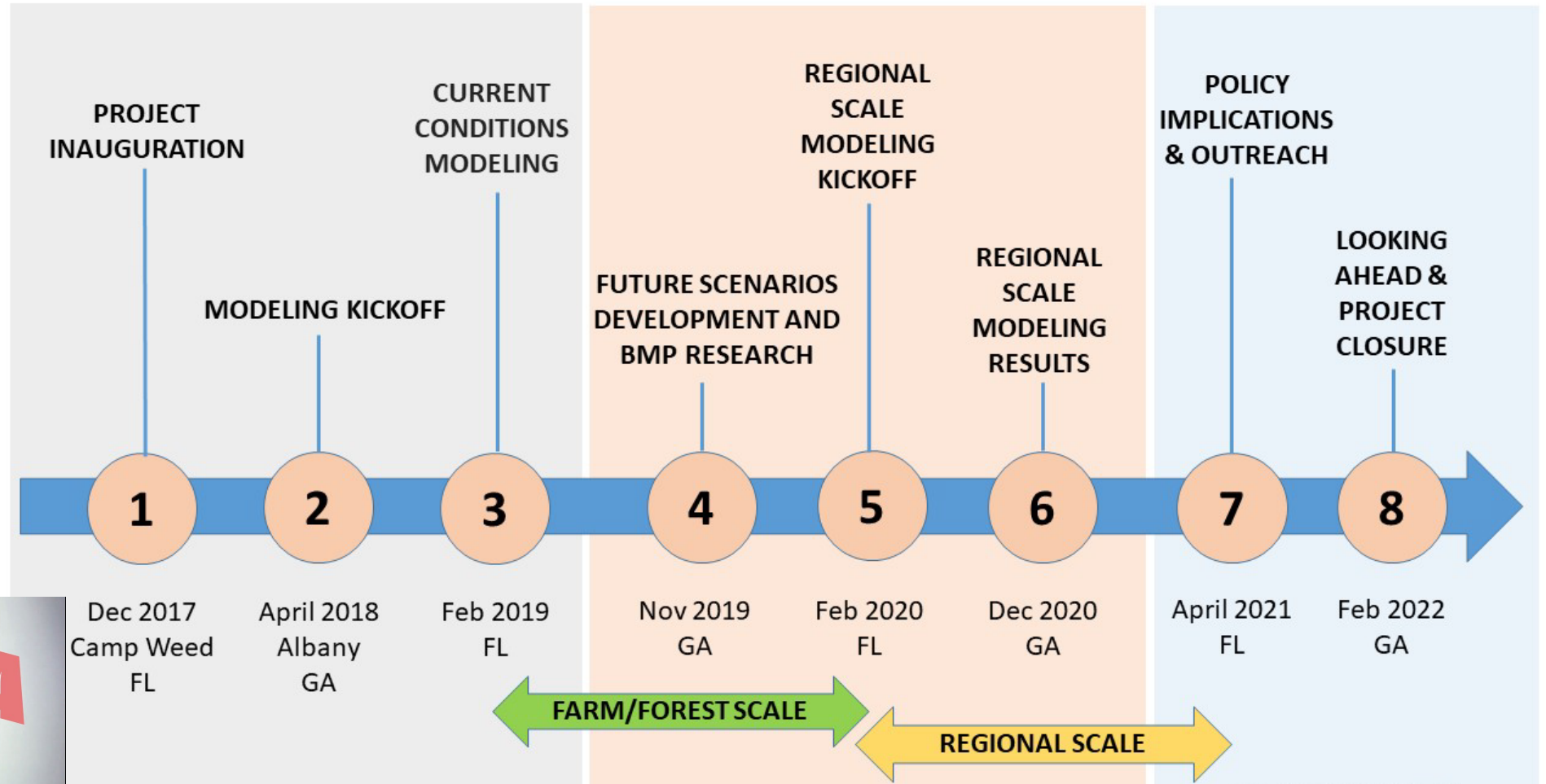
* Stakeholders highlighted in orange are members of PMP and PAC

Doing much of the heavy lifting ...
graduate students and post-docs



Original Process Design

= 8 workshops, 5 years





**Dec. 2017 – March 2020
In Person**



**March 2020 – Currently
Online – Zoom**



Social Learning Research FRAMEWORK

3 PHASES

Community Building

Project Goal

To create a space to share ideas, expertise, and experiences. So that we can integrate our understandings, productively discuss issues, and co-develop the model.

Research Themes

1. *Group Composition*
2. *Experience and Expertise*
3. *Expectations*

Knowledge Integration Co-Production

Project Goal

To co-develop model outputs (at farm and watershed scales) and interpret results

- Current Practices
management systems /rotations
- Scenarios
- Trade Offs

Research Themes

1. *Participation & Power*
2. *Integration & Learning*
3. *Time Cost Benefit*

Assessment & Communication

Project Goal

To reach new understandings, solidify new relations and work toward communicating outcomes.

Research Themes

1. *Outcomes: Divergence & Consensus*
2. *Reflection on Insights & Utility*

How is *TRUST* built and maintained throughout the process?

What lessons are learned from the *iterative process management*?

STAKEHOLDER CONTRIBUTIONS

... to modeling efforts

Co-Develop
Management Systems
– Represent the Range
of Current Practices

Co-Interpret
Field Scale
Results

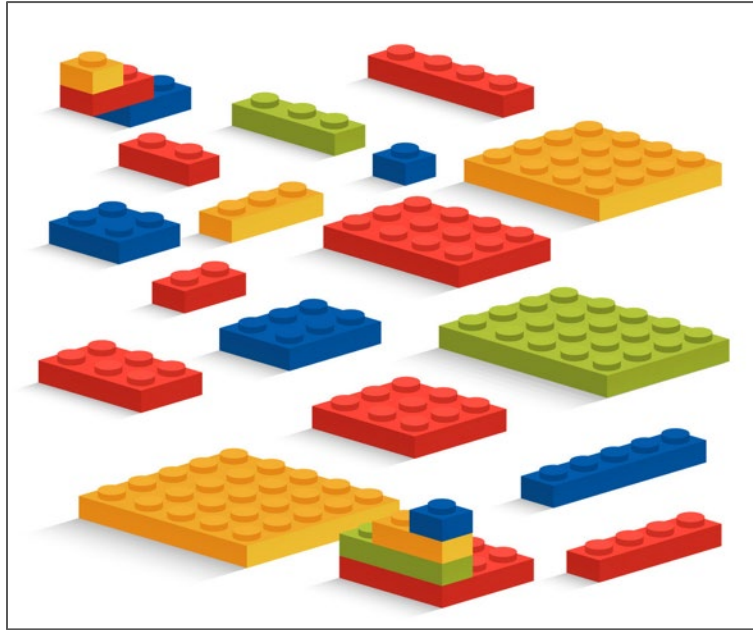
Co-Develop
Future
Scenarios

Co-Interpret
Regional Scale
Results

And ...

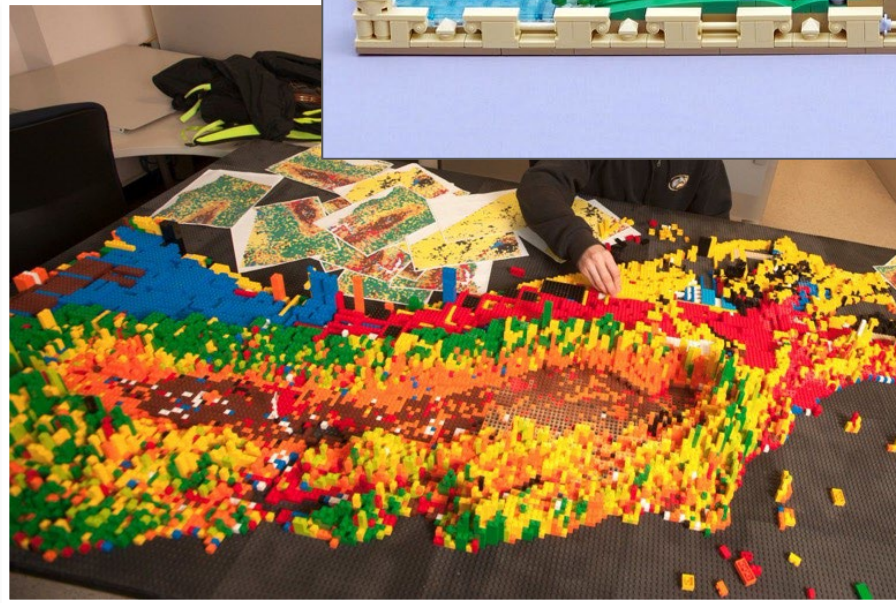
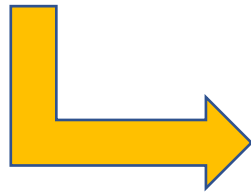
- Offer feedback on survey design
- Connect scientists to potential respondents
- Contribute to Water School program
- Provide expertise on “best practices” for participatory modeling
- Help the team craft FACETS key messages from key findings
- Consider implications & utility of FACETS findings

Co-Developing Modeling Components



Farm/Forest-Scale Models

Regional/Watershed-Scale Models



a) Management Systems

b) Future Scenarios

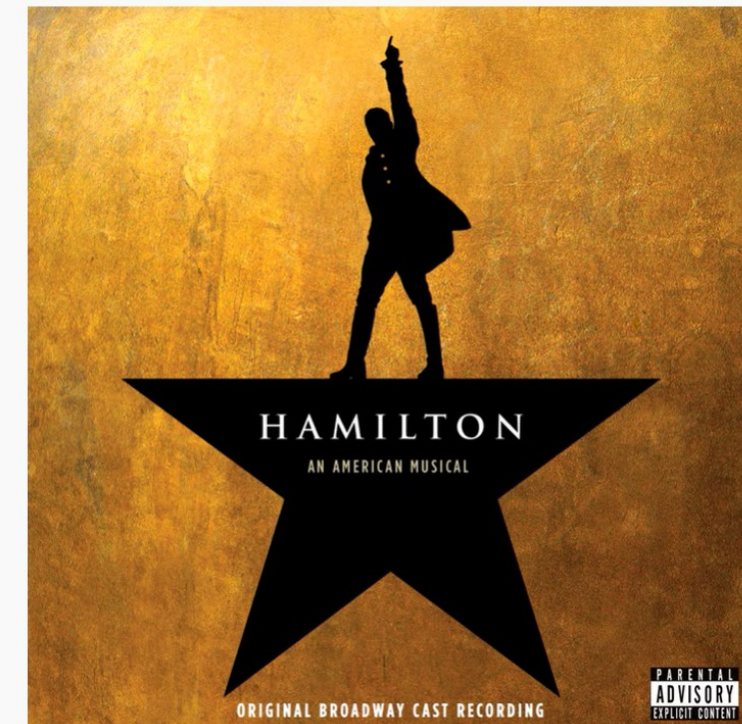
Session Abstract

- **Who** was in "the room" & **how were modeling components generated together?**
 - **expectations** for the participatory process among project team members and stakeholders
 - perceived contributions to the process and outcomes (focusing on **participation, integration and power relations**)
 - **trust** dynamics (in **product, process, and people**)
- How did a **virtual exchange space** impact interactions and outcomes.



YouTube

the room where it happens hamilton



Focus Groups

March, April 2022

- To explore the **process of knowledge co-production** through modelling in FACETS.
- Discussions will examine when and how PMP members came together to develop core modeling components
a) management systems and b) scenarios
- Together, we will review the engagement process to
 - **identify key moments** that added value or raised concerns
 - understand the **dynamics of participation** (who were key players, when and how)
 - talk about **examples of expertise integration**
 - consider **transaction costs** of engagement (time spent vs. benefit gained)
 - begin to reflect on **how we could have done this differently ...**





Results of Scenario Co-Development Process

i.e., scenarios selected to model in Florida

Phase 1

- Current Conditions
- Restoration Forestry (long leaf pine) Everywhere
- Restoration Forests on a % non-irrigated ag lands
- All current forest land suitable for ag switches to row crops

Phase 2

- Rotational Production (Integrating Livestock into Row Crops)
- High Tech Precision Ag
- Likely Expansion – FL 2070
- Solar: % ag land to solar, with option of native habitats



How did we get here?

- So many conversations
- 15 unique opportunities to interact
... probably MANY more

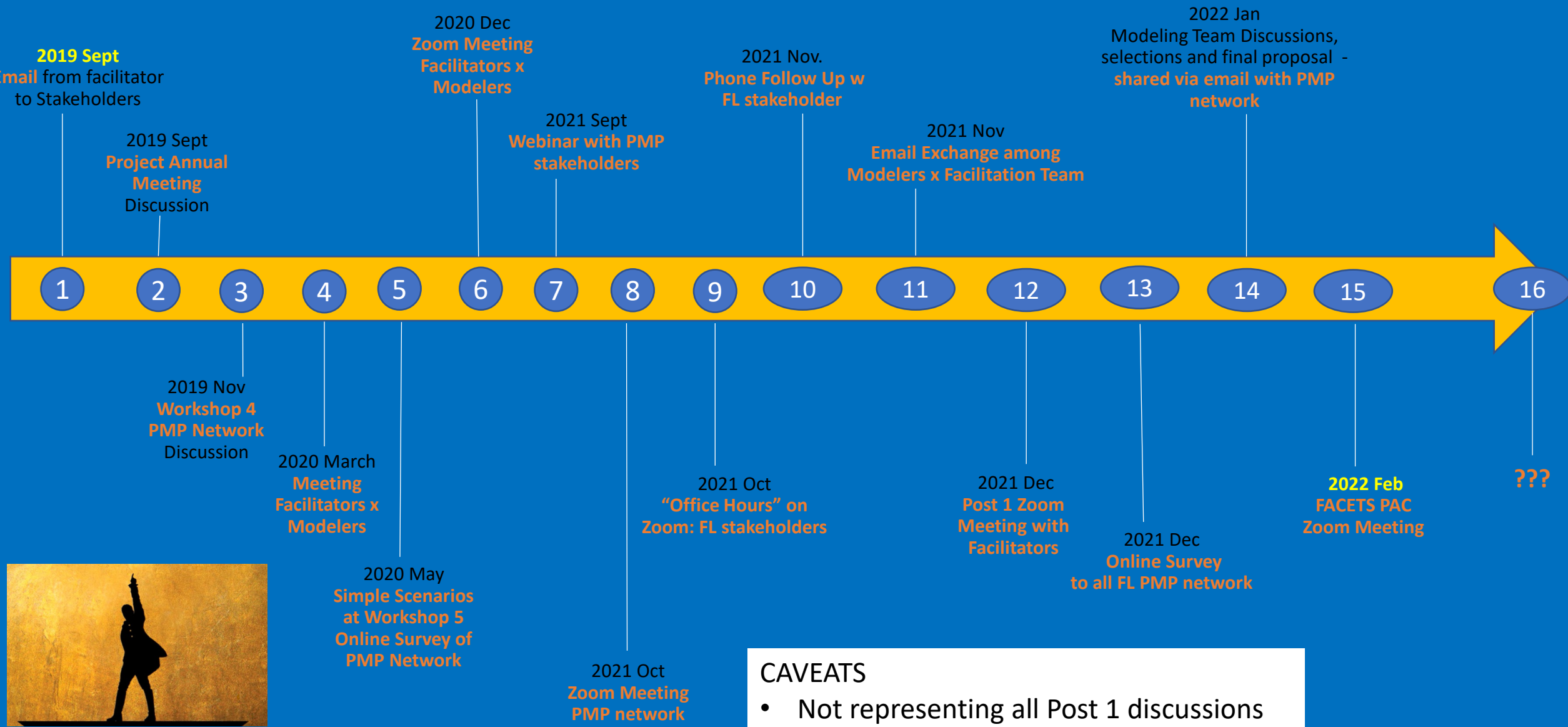
A white rectangular sign with a black border and rounded corners. It features a large black number '1' at the top, followed by the words 'STEP' and 'FORWARD' in bold, black, sans-serif capital letters, stacked vertically. The sign is mounted on a grey metal post.

**1
STEP
FORWARD**

A white rectangular sign with a black border and rounded corners. It features a large black number '2' at the top, followed by the words 'STEPS' and 'BACK' in bold, black, sans-serif capital letters, stacked vertically. The sign is mounted on a grey metal post.

**2
STEPS
BACK**

Multiple interactions & opportunities for input & feedback on SCENARIOS



The ROOMS where it happened

CAVEATS

- Not representing all Post 1 discussions
- Slight FL Bias



Diverse goals for interacting

- Share experience and familiarity with scenarios
- Brainstorm scenarios of interest
- Understand the why's
- Discuss sensitivities
- Add ideas
- Manage Expectations
- Consider feasibility & confidence (from modeling perspective) – Easy/Out of bounds
- Rank
- Re-rank
- Select final suite



STEP 1

STEP 2

STEP 3

1. **4 Simple Scenarios** – Exercise the models
2. Co-Develop and discuss **18 potential scenarios for Florida**
3. Modeler Ranking: Very Course
Yes-Can Do, Maybe/ No, Do Not do this!
4. FL PMP Preferences: More Refined
-- **7 rose to the top**, rank them!
-- Comfortable **letting these 8 go?**
5. Modelers RE-order: According to feasibility
-- need for data, what the models will struggle to simulate
6. List of **8 scenarios in two phases**

Observations on **Content**

*** how we
choose scenarios



Image Source: <https://www.beautifullife.info/industrial-design/15-creative-bookends/>



Image Source: <https://learnthis.ca/2011/11/17-ways-to-be-more-realistic/>

Observations on Content

*** only 4/19
not comfortable letting some scenarios go





Observations on **Process**

*** Oh, the COVID!

- **Info Overload in Zoomlandia**

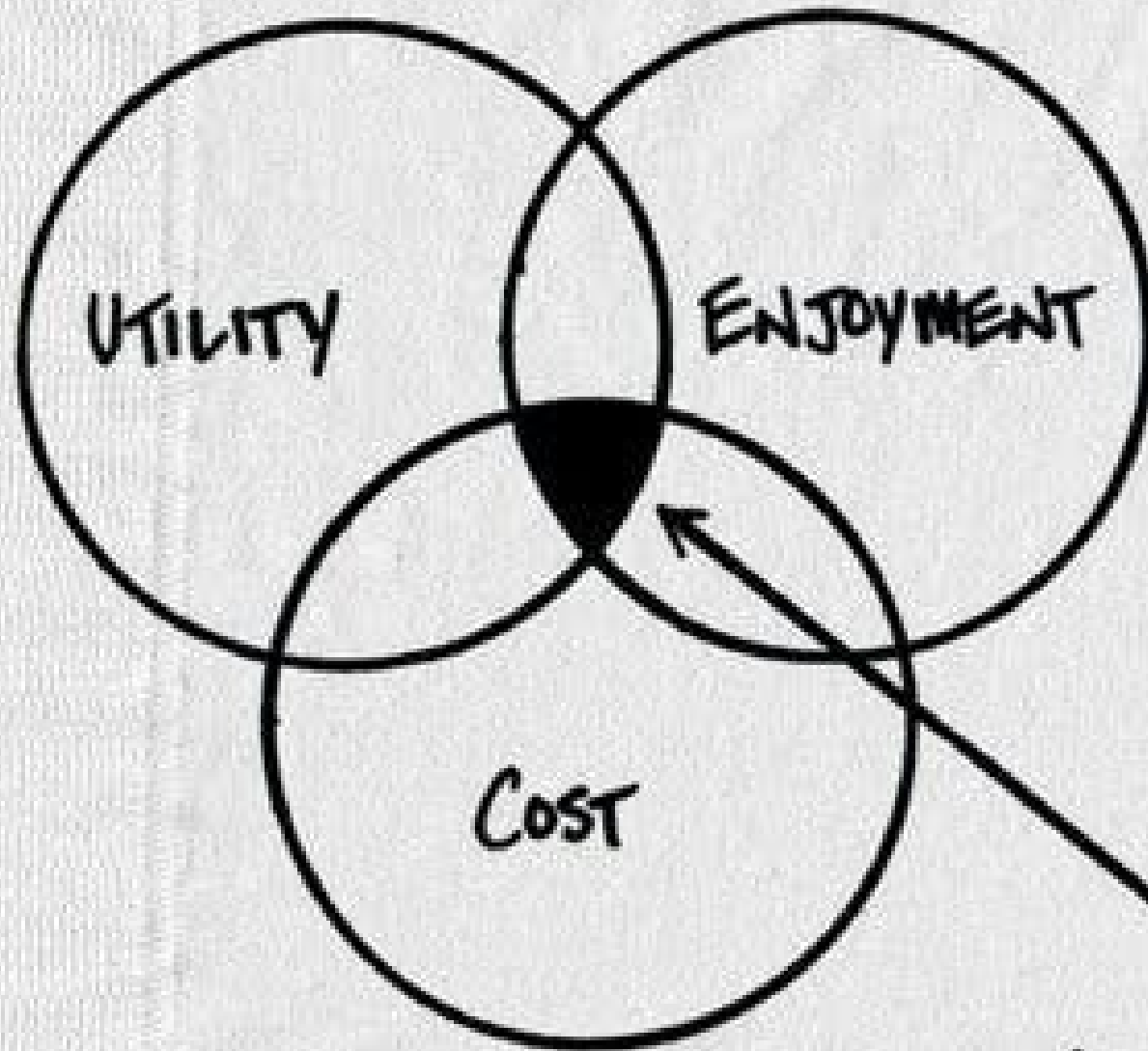
- Presentation TMI
- No soak time
- Time lapse between interactions
Difficult to remember from one meeting to next
– Repetitive (?)

- **FL X GA different models & contexts**

= parallel pathways
Wicked temptation to compare & contrast

- **So much feedback**

- Consistently monitoring outcomes & satisfaction
- How to document & internalize broadly?
- What is important? What is actionable?



IS IT WORTH IT?

Stay Tuned!

No one else was in the room where it happened...

*No one really knows how the game is played
the art of the trade
how the sausage gets made
we just assume that it happens....*

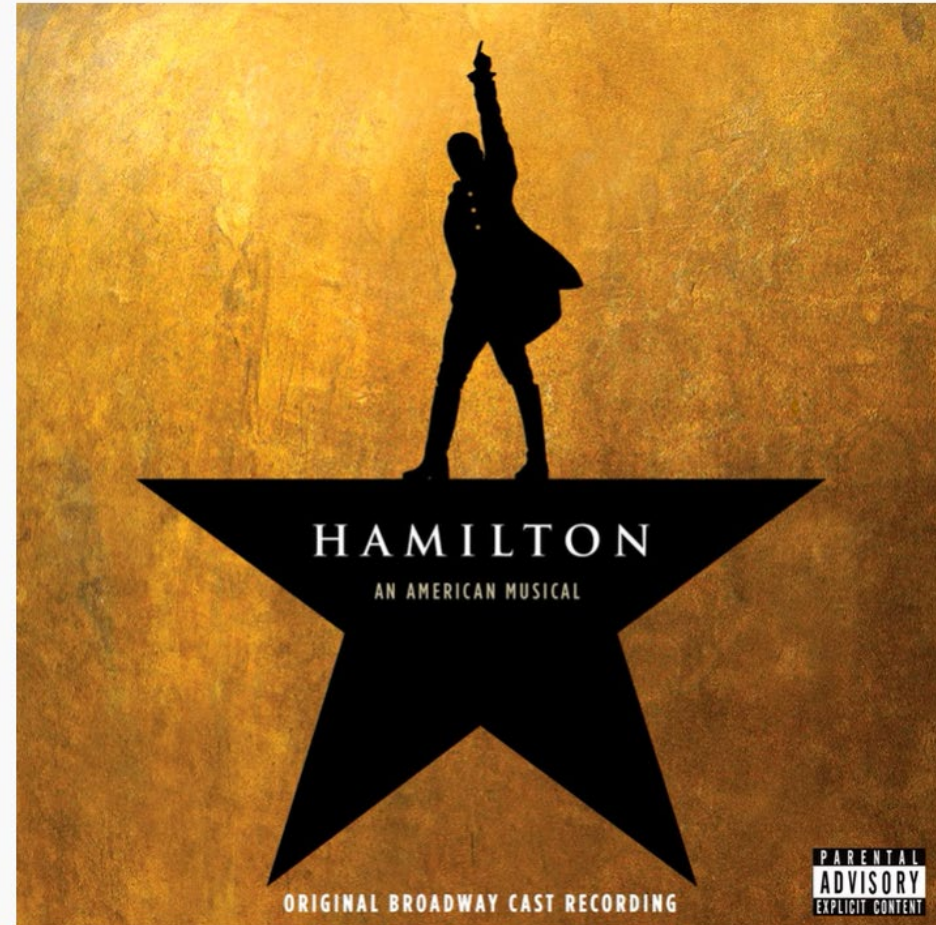
But no one else was in the room where it happened

*...We never really know what got discussed...
...When you got skin in the game, stay in the game ...*

I wanna be in the room where it happens



the room where it happens hamilton



<https://www.youtube.com/watch?v=WySzEXKUSZw>

1:10

Thank You!



United States
Department of
Agriculture

National Institute
of Food and
Agriculture

