# You are here: bringing new life, and methods, to stated preference research

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**TWEEDS** 

Saturday, March 30, 2019

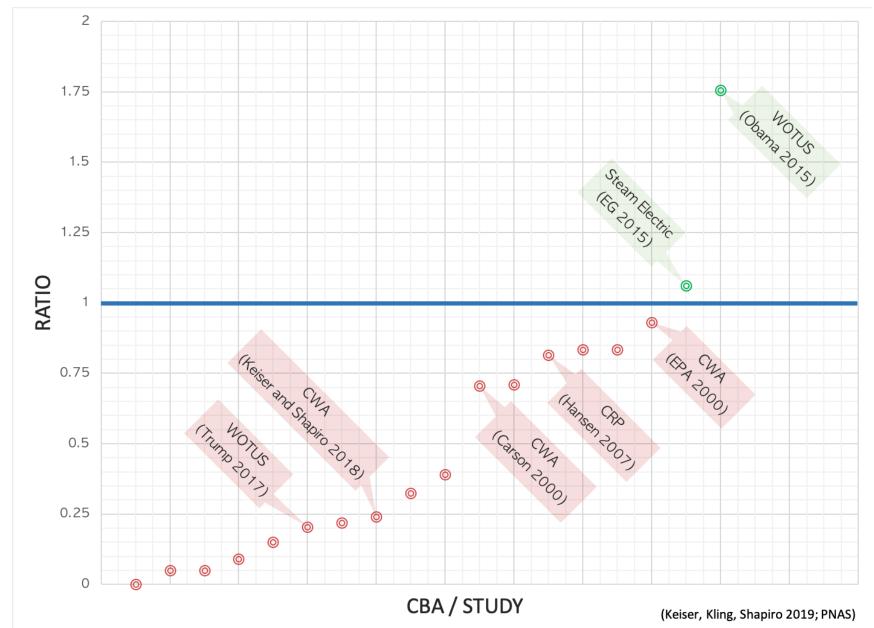




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### Motivation: CBA's of investments in surface water quality fall short, really short



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## More motivation: \begin{Thought progression}

- Do these investments not actually pay off? (~\$35b per year)
- Or are revealed preference methods failing to capture some benefits?
- Stated preference methods can estimate non-use/non-local benefits.
- Programming is fun.
- Choice experiments are fun.
- Conventional choice experiments don't include enough programming.
- Motivation converged! \begin{study}

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#### Your Grandmother's Choice Card

| Question Number 1 |            |            |              |
|-------------------|------------|------------|--------------|
|                   | Scenario A | Scenario B | No Change    |
| Fish              | 10         | 20         | 5            |
| Birds             | 125        | 75         | 50           |
| Water Quality     | Boatable 🗪 | Swimable   | Boatable *** |
| Annual Cost       | \$100      | \$75       | \$0          |

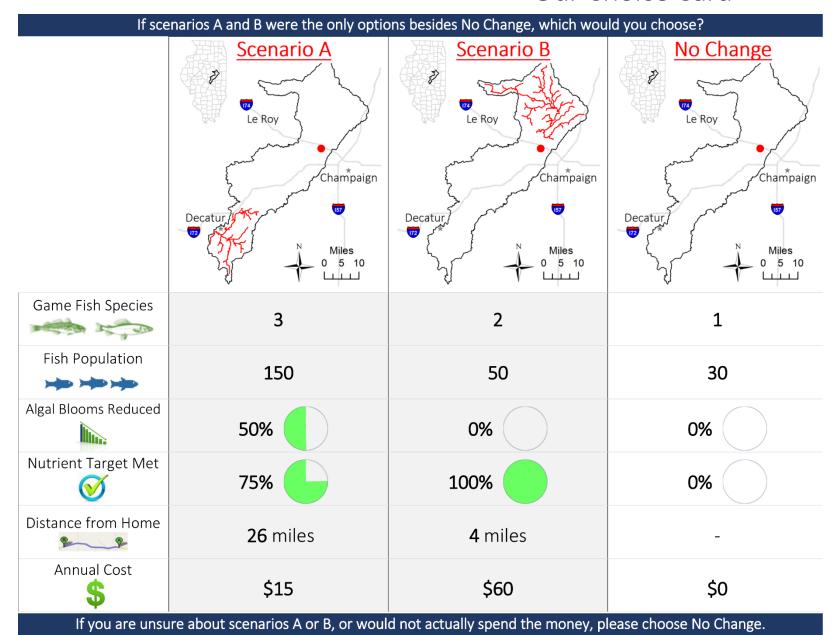
- N = 100
- 1 map of study area

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- 5-10 total choice cards
- Qualitative attribute levels
- Online sample or paper mail

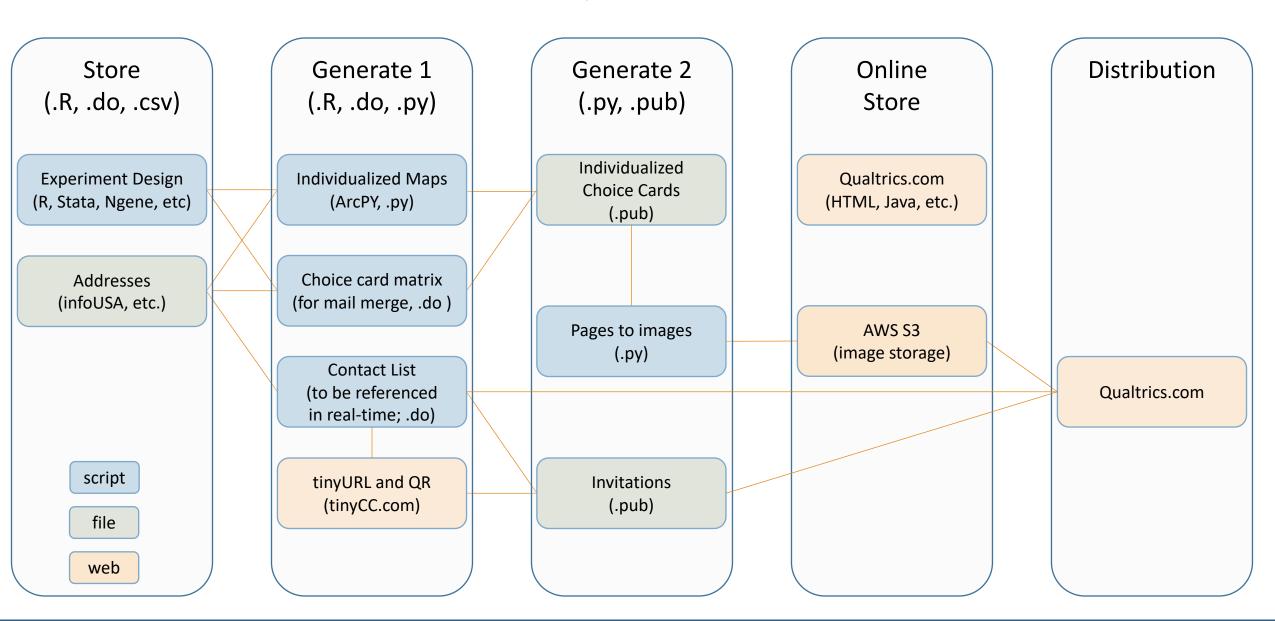
If Scenarios A and B are the ONLY options besides No Change. Which would you choose?

#### Our Choice Card



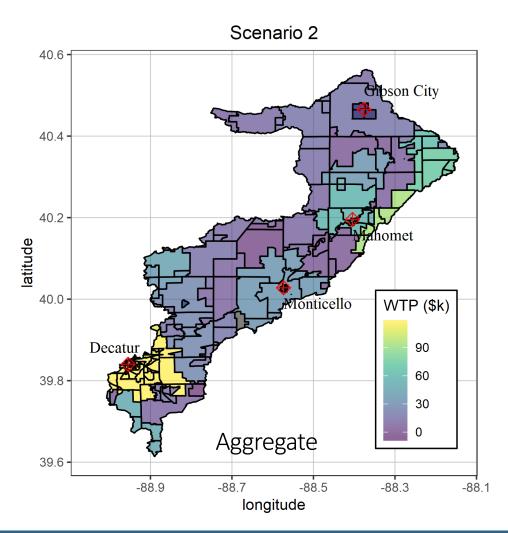
- N = 5,000
- 60k map images
- 30k total choice cards
- Mail-to-online distribution
  - tinyURL and QR
- Cards referenced in real-time

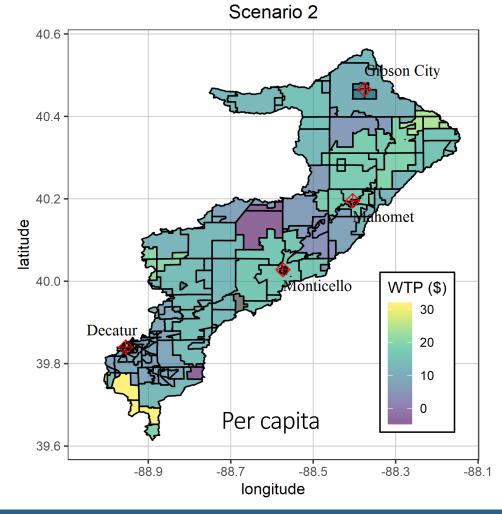
# Example Workflow



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# Application: WTP hotpots and the rural-urban divide (spoiler, rural residents value some improvements more)





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## Thank you!

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