



CPS: Medium: Dynamic Pricing for Optimal Design of Sustainable Transportation Systems (1931980, 2019)

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Challenge:

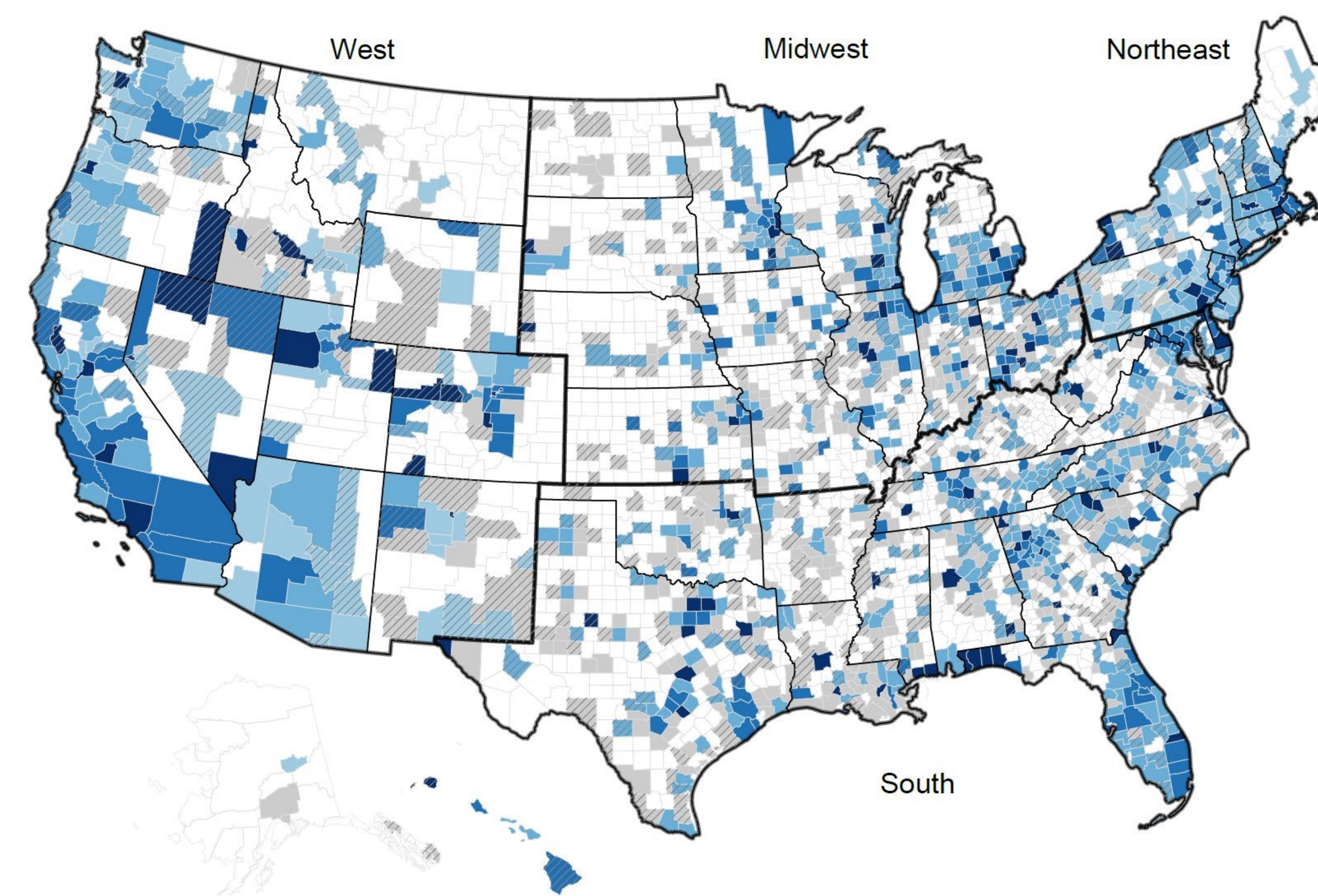
- Electric vehicle (EV) charging has behavior-influenced cost, infrastructure, and environmental implications

Solution:

- Dynamic pricing based on behavior, infrastructure, and environmental impacts
- Emphasis on behavior and multi-infrastructure interactions (e.g., parking and charging)

Project 1931980
 Georgia Institute of Technology
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Predicted Availability Issues



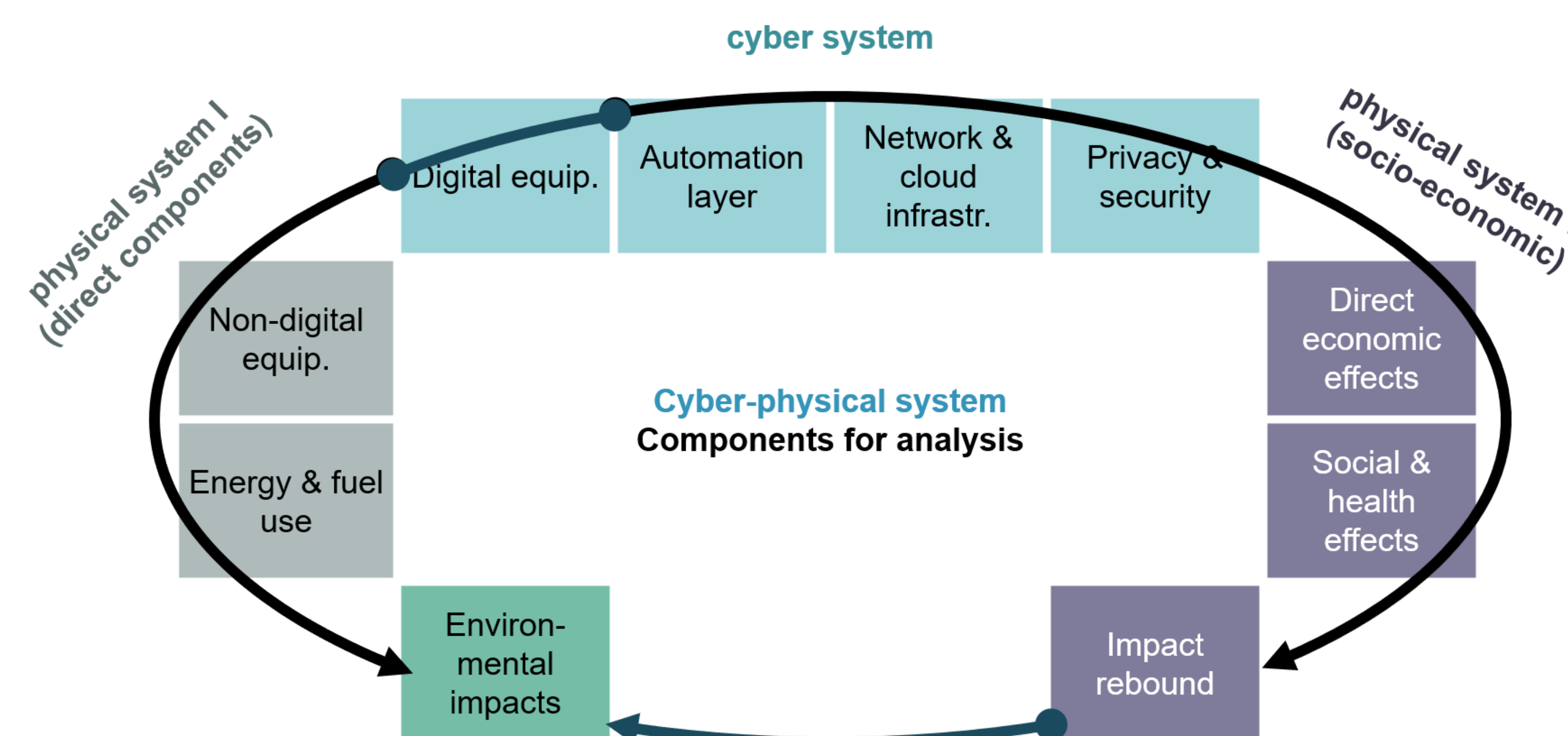
Ha, Marchetto, Dharur, and Asensio, (2021)

Scientific Impact:

- Understanding behavior + interactions with performance indicators can inform optimal human-in-the-loop system design

Broader Impact:

- EVs can reduce climate and air pollution impacts with lower operational costs
- Project includes computational curriculum development



Mulrow, Gali, Grubert (in prep)