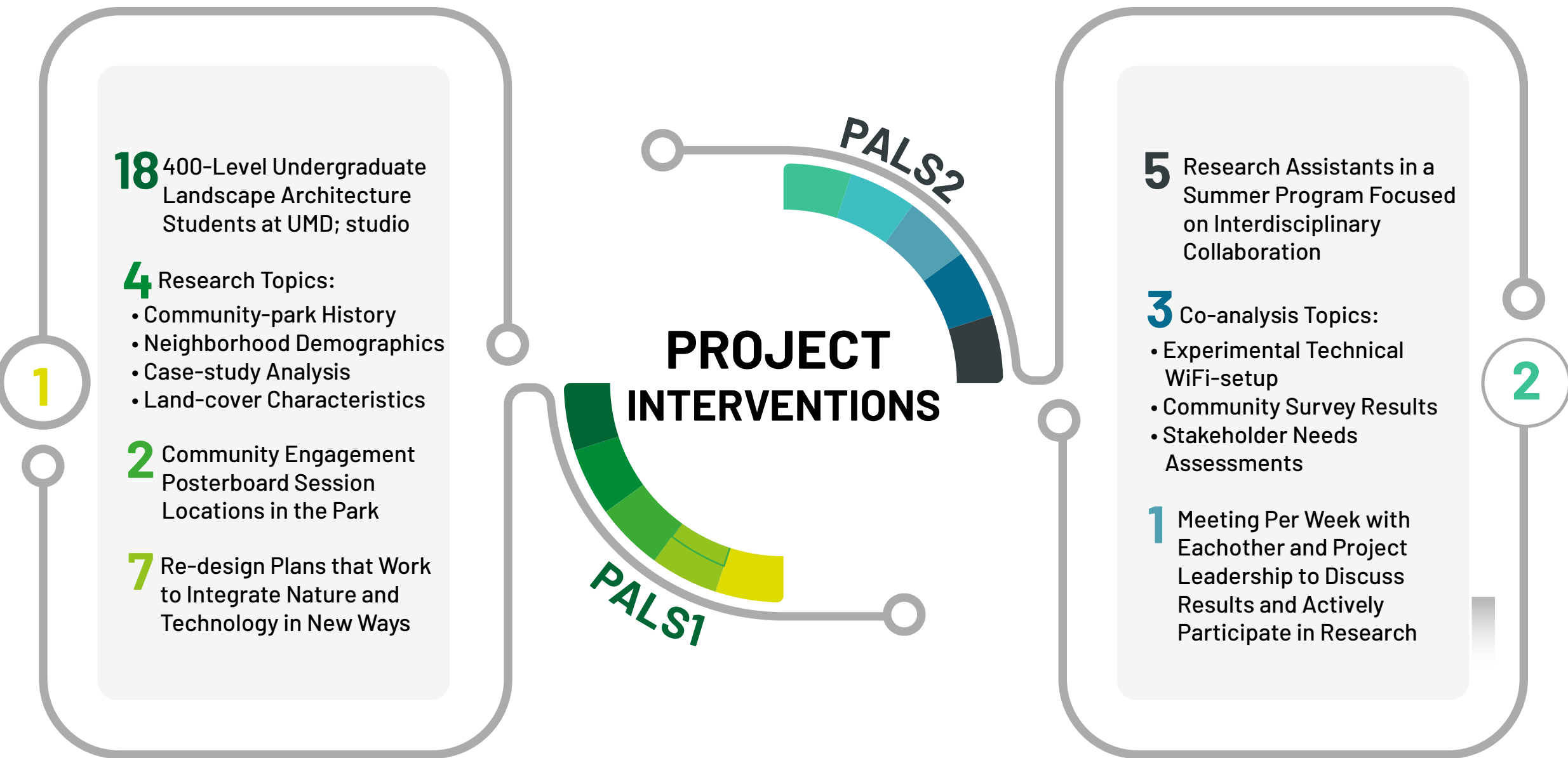


ABSTRACT

Broadband infrastructure in urban parks may serve crucial functions including an amenity to boost overall park use and a bridge to propagate WiFi access into contiguous neighborhoods. This project: SCC:PG Park WiFi as a BRIDGE to Community Resilience has developed a new model –Build Resilience through the Internet and Digital Greenspace Exposure, leveraging off-the-shelf WiFi technology, novel algorithms, community assets, and local partnerships to lower greenspace WiFi costs. This interdisciplinary work leverages: computer science, information studies, landscape architecture, and public health. Collaboration methodologies and relational definitions across disciplines are nascent –especially when paired with civic-engaged research. Student researchers (UG/Grad) are excellent partners in bridging disciplinary barriers. Their capacity to assimilate multiple frameworks has produced refinements to the project’s theoretical lenses and suggested novel socio-technical methodology improvements. Further, they are excellent ambassadors to community partners and stakeholders.



OVERALL CONTRASTING RESULTS

MODEL 1

Tried & True Approach

Produces Standardized Reliable Products

Civic Groups Love the Diversity of Action Plans

MODEL 1

Work is Group Based

Independence to Explore Topics or Themes of Interest is Limited

MODEL 2

Fosters Interdisciplinary “Dictionary Building” then used by the full team

Independence in Learning Outcomes

MODEL 2

Deepens Methodological Approaches

Allows for Student Stipends

MODEL 2

More Research Support Needed

Intensive Timeframe Needed

ACKNOWLEDGMENTS

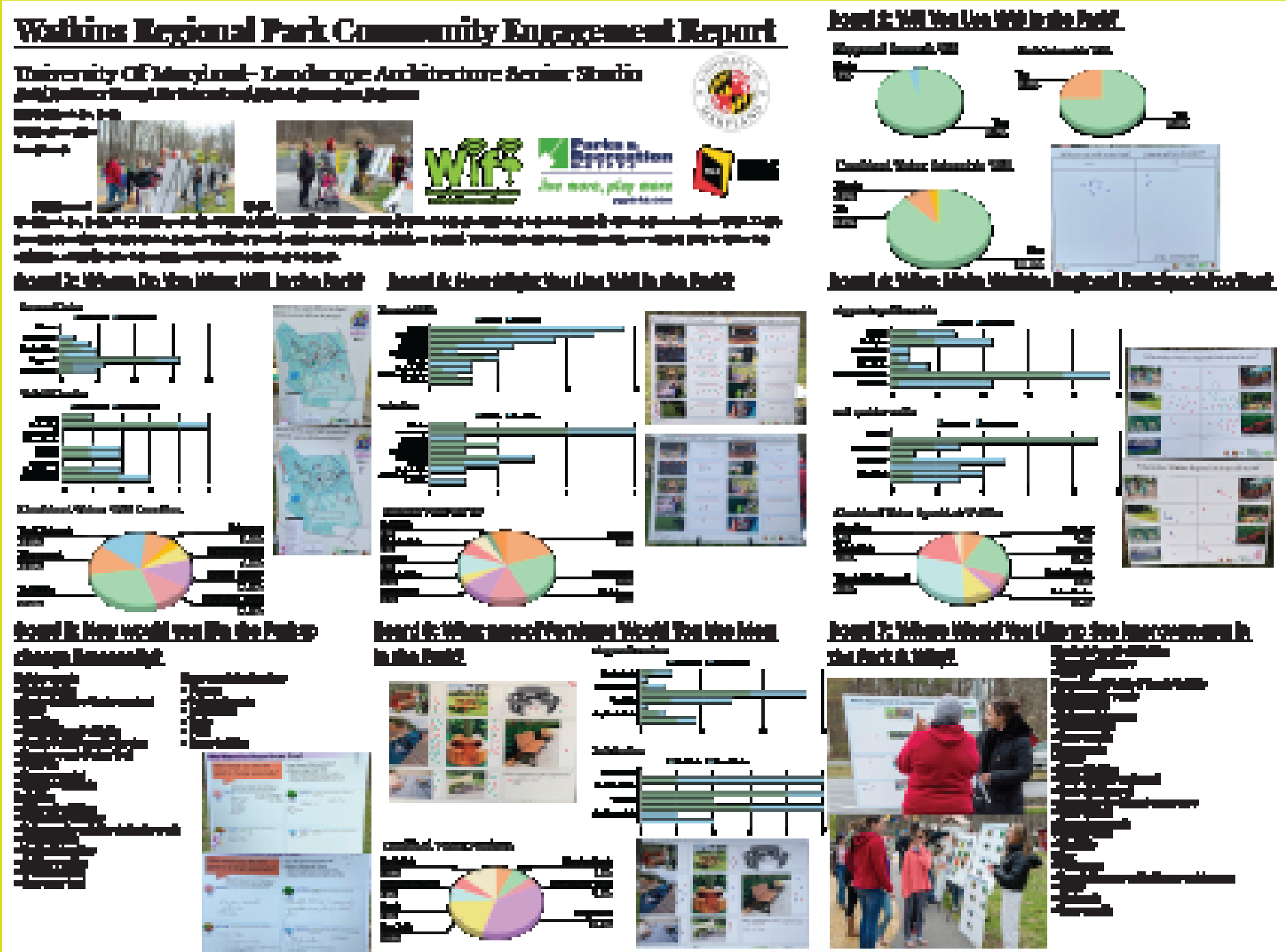
The team is grateful to all students who participated in executing the model interventions. Students whose work is presented in Model 2 results include: Irtaza Shahid, Yang Bai, Boyoung Park, Nitzan Koren, Marci-Ann Smith and Micaela Ada



MODEL 1



Community Engagement Results



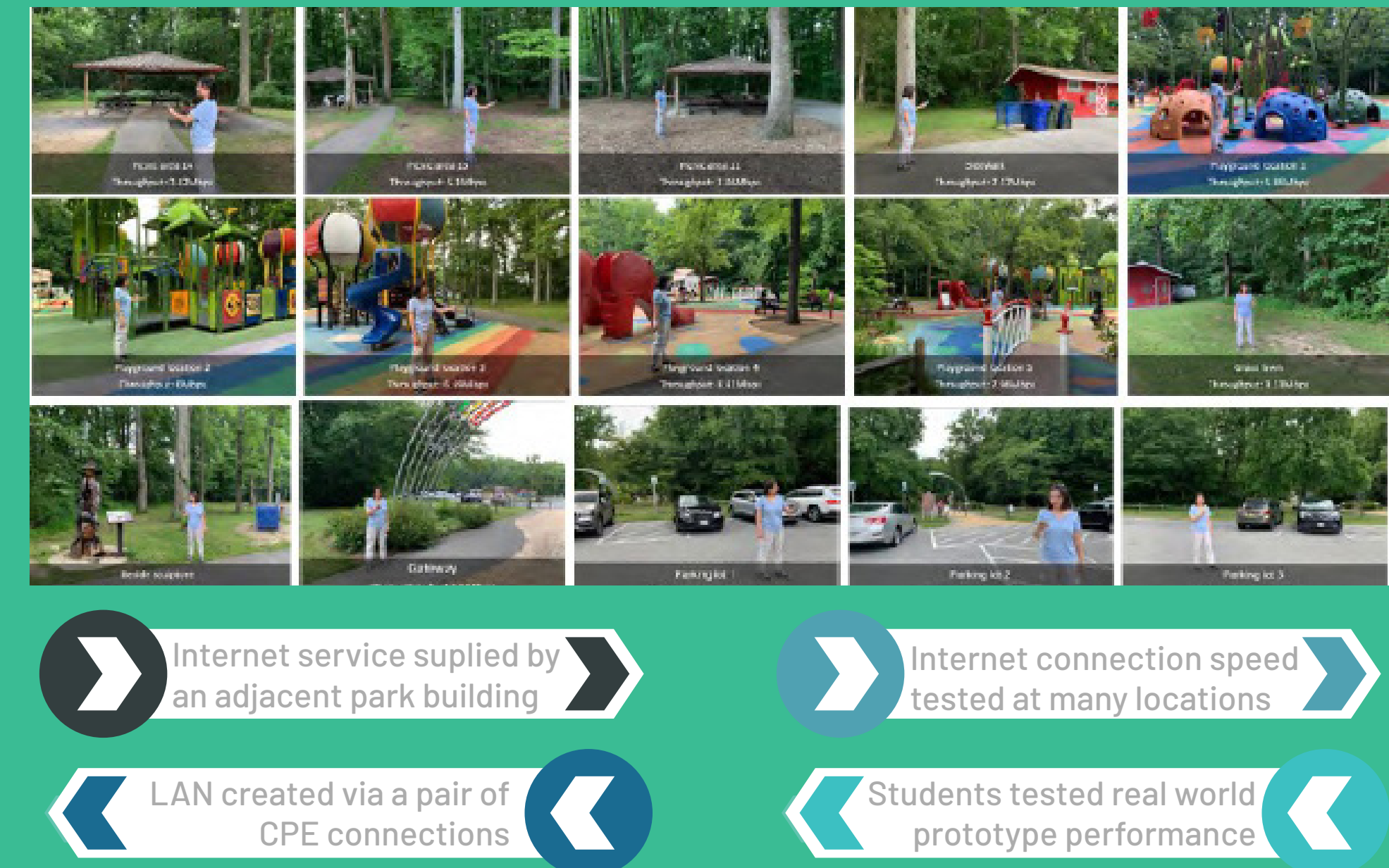
Design Solutions



MODEL 2



WiFi Prototype and Testing



Community Survey Results



Frameworks for Student Research Engagement on Interdisciplinary Civic-Engaged Projects

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