Healthy Urban Environments (HUE)  
Arizona State University  
Spring 2020 Request for Proposals

HUE Project Leads  
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Healthy Urban Environments: Overview

- Investment of $1M/yr with initial commitment for 3 years from Maricopa County Industrial Development Authority.

- Objective to develop, demonstrate and deploy innovative, community-based approaches to mitigate urban heat and air quality.

- Focus on collaborative, community-driven solutions in partnership with stakeholders including municipal partners, non-profits, local businesses, private developers, schools and community groups.
First year of HUE Solutions Projects (2019) focused on leveraging existing partnerships and efforts within ASU.

In 2020-2021, priority will be given to proposals that: 1) originate from or prominently feature project leadership from non-ASU organizations 2) demonstrate practical, real-world implications or solutions which can be implemented within the project’s duration of 1 year.

We aim to leverage and amplify emerging or existing efforts which would benefit from additional financial, technical and logistical support from HUE.
2020 Solutions Proposals: Guidelines

**Project Themes**
All projects must address development, implementation and evaluation of solutions to heat and/or air quality.

- **Training & Evaluation**
  - Public, workforce, or management education and capacity building
  - Curriculum, workshops, tools, standards, equity evaluations, or community engagement programs

- **Demonstration**
  - Field or site-based pilot applications of design elements, materials, & techniques.
  - Novel transit stop design implementation and testing

- **Technology & Research**
  - Basic or applied research and development of novel tech and/or IP
  - Solar panel coatings to reduce NOx
2020 Solutions Proposals: Guidelines

**Project Teams**

Projects teams *must include*:

1. Team members from one or more non-university based organizations
2. At least one relevant researcher, or research group, based at ASU

All project teams should be:

- Interdisciplinary
- Target at least 1 project theme

**Non-University Based Organizations**
Municipalities, agencies, community or neighborhood groups, 501(c) non-profit organizations, real estate developers, commercial developers, local businesses, schools, or other relevant local stakeholders

**ASU Researcher or Research Team**

Please contact HUE if you have project ideas and would like assistance finding a relevant ASU partner

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2020 Solutions Proposals: Guidelines

Additional Project Funding Guidelines
• Funding requests should be focused on supporting development, implementation, and evaluation of heat and/or air quality solutions and mitigation techniques.
• Funds are not intended to underwrite capital improvement projects.
• Addressing vulnerable communities most likely to be affected by heat and/or air quality is desirable.
• Examples:
  • Acceptable: Using HUE funds to add or evaluate heat and/or air quality mitigation features for an existing capital improvement project (e.g. adding trees or shade structures and equipment to measure impacts).
  • Unacceptable: Using HUE funds to pay for significant construction or infrastructure costs (e.g. repaving asphalt surfaces).

Research Guidelines
• Research components of projects should have substantial field- or lab-based empirical components
2020 Solutions Proposals: Examples

1. Transit stop design & walkshed evaluation
   • Use evidence-based intervention to redesign a transit stop and improve thermal comfort; evaluate outcomes
   • “Walk-shed” analysis to understand transit user thermal exposure and experience traveling to and from this stop.

Photo credit: Phoenix Public Transit
2020 Solutions Proposals: Examples

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2. Redesigning asphalt parking infrastructure
   • Apply innovative design techniques and elements to improve performance of a parking lot with regards to heat, stormwater, and user experience; evaluate outcomes

Photo credit: Google Earth
2020 Solutions Proposals: Examples

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3. Citizen science program to monitor air quality
   • Engage citizens and communities in training and use of low-cost sensors to monitor and evaluate air quality.
   • Complement participation with educational materials or curriculum to improve air quality literacy and awareness; share results to support relevant action or interventions.
2020 Solutions Proposals: Timeline

- **Proposal Development**
  - Announcement & webinar
  - Proposal Submissions
  - Funding Released: projects begin
  - Project Evaluation and Conclusion

- December 2019
- February 2020
- April 2020
- April 2021
Questions?
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https://hue.asu.edu