**February 17, 2020  
iWG Meeting: Resilience Chapter**

Attendees: Sandy Yoo, Ximing Cai, Morgan White, Meredith Moore, Bugra Sahin, Renee Wiley, Brian Bundren, Sarah Gediman, Bryan Johnson

**Resilience Questions for iWG**

None at this time

**Resilience Objectives**

1. Develop a coordinated urban biodiversity master plan that considers future climate conditions and an implementation working group to make the Champaign, Urbana, Savoy, and Campus metro area a model for.  
   Can this just go through the Resilience SWATeam? We could expand the team if needed.
   1. Including native plant species and/or species likely to do well with projected climate changes;
   2. Using tree canopy and other vegetation to curb heat island effect, manage stormwater, improve air quality, and reduce carbon dioxide in the atmosphere,
   3. Planting to support pollinator, insect predator, and bird habitat;
   4. Planting to support human health and wellbeing:
      1. minimize illness due to mosquitos and ticks, and
      2. reduce the adverse health and environmental impacts of lawn and other landscape maintenance practices;
      3. reduce anxiety and stress for people (beautification, aesthetics, green space, peace)
   5. Develop model ordinances for use in our metro area and to share with other communities;
   6. Develop monitoring programs to assess the effectiveness of practices, making the metro area a test bed for information and innovation;
   7. Develop community garden and/or food forest.
   8. <<Make sure the paragraphs reference the Landscape Master Plan, etc. so there is not double work.>>
2. Consistent with the biodiversity plan objective, coordinate rainwater management plans for the entire urbanized areas of the four entities. The total number of green infrastructure locations in this urban area will be shared annually on the iCAP Portal, starting in FY21.
   1. Design for rainwater management through green infrastructure, such as permeable pavement, bioswales, green roofs, rain gardens;
   2. Engage U of I F&S in preparing a rainwater management plan for campus that includes green infrastructure;
   3. Encourage developers to have Green Roofs on Green Street and other high traffic areas;
   4. Encourage developers to install permeable surfaces;
   5. Monitor performance of permeable pavements;
   6. Create drought management plan.
   7. Include a green infrastructure tour for ACES Open House and EOH.
3. Identify common principles and then develop a collaborative plan for environmental justice that will assess metro area resilience and actively address related issues. The plan should be written and publicized by Dec. 31, 2022, and it should include:
   1. Recognition of existing programs within the communities (see CCFD agency list);
   2. Identifying common principles – entities work independently;
   3. Have University of Illinois faculty and students conduct climate and other environmental vulnerability assessments of population on campus and in the communities;
   4. Incorporate resources to improve food security in vulnerable areas, such as shuttles, food trucks, and community gardens;
   5. Identify locations where cooling centers are needed for vulnerable residents, including an education component.
4. Collaborate with community groups and colleges to inventory existing certification programs and opportunities for green jobs and identify gaps by FY23.
   1. with an emphasis on employing at risk youth and adults in resilience jobs.
   2. such as green or renewable energy design and maintenance,
   3. food security program,
   4. National Green Infrastructure Certification Program (NGICP), and
   5. other new or expanding job markets.
   6. possibly involving F&S’ Diversity Summer Intern Program and Parkland College.
5. Take leadership in addressing the most pressing sustainability challenges in our local communities through collaboration with local governments and related community groups, by forming an advisory panel for coordinating efforts across jurisdictional boundaries. By September 30, 2022, select at least three major local sustainability issues to address and identify lead agency and key stakeholders.
   1. What about the 5th & Hill campaign (two blocks north of University Avenue)? That is a local environmental justice problem, just blocks from campus. Could the University support the campaign (without overshadowing the voices and concerns of the community residents and organizers)?
   2. Evolve Resilience Working Advisory Team into an advisory panel for the coordination of projects between the four cooperating entities.
6. Engage community members and local developers in climate action as outlined in previous objectives to extend the impacts from public to private land including:
   1. Identify joint regulations on major projects – such as LEED certification, solar, green roof, etc.
   2. Develop plans or explore potential to encourage residents to monitor conditions, such as basement flooding, and report so that decision makers have accurate data on conditions, practice effectiveness, and potential problem areas;
   3. Develop plans or explore potential for residents about best practices and provide training and incentives, through such things as stormwater utility fees, to implement BMPs;
   4. Develop plans or explore potential to utilize CCNet to spread awareness of local sustainability programs;
   5. Develop plans or explore potential to implement geothermal energy for extreme weather resilience;
   6. Develop plans or explore potential to de-centralize energy production;
   7. Develop plans or explore potential to identify carbon-free and emissions-free baseload energy generation options;
   8. Develop plans or explore potential to retrofit buildings for severe weather.
7. Support Vision Zero as a county-wide goal for safe and sustainable transportation.
8. Establish a local offsets program –
   1. Review peer institutions and offset programs available through a literature review by FY22.
   2. Develop a plan with wide stakeholder engagement on- and off-campus by the end of FY23.
   3. Initiate the plan by FY24.

**Student Suggestions,** applicable to various points above…

* “By 2022, the University will map all potential areas on and around campus for native plantings. By 2023, at least 50% of new plantings must be native, and increase that percentage 5% annually.”
* “By 2022, make an agreement between Champaign, Urbana, and the University to reduce mowing, at least a 10% reduction.”
* “2020 going forward, all new building construction and renovation must include at least one of the following,
  + Solar Panels
  + Green Space(s) (side of the building or on the roof, ideally)
  + A native plant garden
  + All new road/parking lot/paving construction and renovation must be permeable”
* “Re-purposing large grass and mulch patches besides quad spaces into native prairie patches and/or sustainable crops for people in need and for campus uses.”
  + Since this pertains to on and off campus lands, it should probably be pursued in conjunction with the Land and Water Team.