



Bloomington Sustainability Action Plan Climate, Energy, and the Built Environment Working Group Meeting Four Notes (Part 2)

24 April 2018

City Hall

6 pm – 8:30 pm

Topic: Identify challenges regarding urban sprawl and climate change adaptation and propose solutions.

Facilitator: Stephanie Richards

Computer notes: Steven Chybowski

Number of participants: 12 (Nolan Hendon, Erin Kunkel, Anees Azzouni, Molly O'Donnell, Darrell Boggess, Cynthia Bretheim, Jane St. John, Alex Jorck, Loren Stumpner, Autumn Salamack, Stephanie Richards, Steven Chybowski)

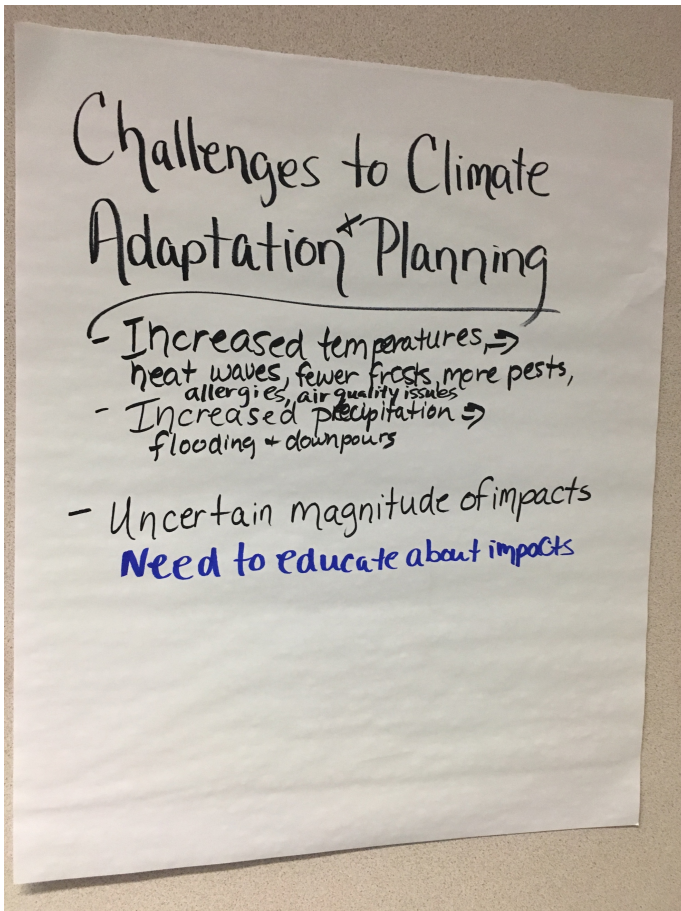
Summary of Purdue Reports on Climate Change Adaptation (Andrea Webster, Environmental Resilience Institute)

- Purdue is working on Indiana Climate Change Adaptation
- Purdue is releasing about 9, 10-page documents regarding how climate change is going to impact Indiana
- Increased temperatures, increased amounts of precipitation
- Heat implications – more heatwaves, decreasing number of extremely cold weather which causes an increase in pests (Lyme disease)
- More precipitation = more heavy downfalls and flooding
- Longer growing seasons
- Longer allergy season
- Worse air quality

Climate Change Adaptation

- Uncertainty
- Communication
- This topic is different as it's not that we have faced challenges before, we need to look at what we would need to do to move forward with evaluating climate change adaptation
- How do we insure that the City has an effective climate adaptation plan in the future?
- Leverage agriculture in communication
- Agriculture, pollinators, flooding, and tornadoes will all be affected
- Education about permaculture
- Make embedded energy in buildings demolished information available to those that could use it most (Chamber of Commerce, real estate, investors)
- Set relevant goals for each department
- Include broad participation in planning efforts
- Bring larger groups together to discuss issues
- Engage everyone including those without an interest in the sustainability project

- Encourage building carbon neutral buildings
- Upgrade storm water systems to prepare for climate adaptation and increased precipitation
- Increase wetlands as a buffer for increased flooding
- Restrict impermeable surfaces in new developments
- Project flooding impacts



Goals/Actions:

- Communicate impacts of climate change to community and make translatable to people
- Develop climate adaptation plan
- Before a climate change adaptation plan, we need a vulnerability assessment

Partners:

- IU
- Politicians
- Purdue
- City of Bloomington Utilities
- Monroe County
- Developers
- Farmers
- Large employers (Cook, IU Health)

Metrics:

- Completion of plan
- Resilience index

- STAR vulnerability ratings
- Permeable vs. impermeable surfaces
- Capacity of water our water system can handle

Goals - Climate Adaptation

* Develop climate adaptation plan

* Conduct vulnerability assessment

* Communicate impacts of climate change to community
+ make translatable to people
(e.g. Agriculture, Pollinators, Tornadoes)
+ relate changes in behavior to impacts
Flooding

* Education re: permaculture, embedded energy in buildings demolished

* Include broad participation in planning efforts, esp. larger organizations

* Set relevant goals for each department

* Bring larger groups together to discuss issues, esp. those who don't know a lot about issue now

* Encourage building carbon neutrality

* Project flooding impacts

* Upgrade stormwater systems

* Restrict impermeable surfaces in new developments

Metrics

- Completion of plan
- Resilience Index
- Vulnerability Rating from STAR
- Permeable vs. Impermeable Surface
- Monitor inches of rain relative to capacity prior to discharge

Partners

- IU
- Purdue
- Utilities
- Legislature
- County
- Developers
- Farmers
- Businesses (e.g. Cook, etc.)
- Large employers (IU Health)