Crossing Boundaries - Sparking Collaborations

Beth Gibbons, American Society of Adaptation Professionals
Cooperstown, NY
America’s Most Perfect Village

Everybody says it, and what everybody says must be true.
- James Fenimore Cooper
“I remember Earth. I knew her when she was clean and green, mankind’s beautiful bride, sweet and lush and lovable...

- Heinlein, To Sail Beyond the Sunset
Climate Change Adaptation

- Moody’s Acquires 427
- Global Resilience Bonds Standards are released
- TCFD accelerates private risk disclosure
- Adaptation & Resilience Marketplace valued at $650 Million Annually.
Climate Change Adaptation

"Dear future generations: Please accept our apologies. We were rolling drunk on petroleum."

- Jules Vernes
Committee Chair Dem. Kathy Castor, FL
Nine Democrats: FL, NM, OR, CA, VA, IL, CO
5 Republicans: LA, VA, AL, GA, ND, WV

Committee Chair Dem. Brian Schatz, HI
Committee Members’ Home States: WI, CO, NV, NM, OR, MN, NM, RI
This map denotes the approximate location for each of the 14 separate billion-dollar weather and climate disasters that impacted the United States during 2019.
$2 Trillion Infrastructure Deficit

$3.9 Trillion Needed by 2025

ROI of Resilient Infrastructure $1 to $6
$2 Trillion Infrastructure Deficit

$3.9 Trillion Needed by 2025

ROI of Resilient Infrastructure: $1 to $6
And more....

"The beginning is always today“
- Mary Shelley
What gives you hope?

What motivates you?

What must we change?

Science fiction frees you up to go anyplace and examine anything. - Octavia Butler
Case Studies of Action, Adaptation, & Opportunity

Finance, Traditional Ecological Knowledge, Resilient Infrastructure, Water & Climate, Policy & Agriculture...

"The path of least resistance is the path of the loser."

- HG Wells
2018 Farm Bill & Soil Health Pilot

- American Coalition for Ethanol, Environmental Entrepreneurs, Minnesota Farmers Union, the Natural Resources Defense Council and the National Corn Growers Association

$4.3 Million in Forever Green Funding
- 2019 MN Legislative Session

“Not often does a Farm Bill include a project that is at the forefront of both agricultural and environmental policy. But that’s exactly what happened today... This first-of-its kind provision in the Farm Bill plants an important new seed for climate action while sending a clear market signal for entrepreneurs to innovate and invest in the expanding ag-tech sector. The soil health pilot program is an exciting example of what can be achieved when groups with diverse perspectives work constructively together with lawmakers.”

- E2 Co-Founder Nicole Lederer
Duluth Resilient Infrastructure

- Monthly High Records on Superior: June, July, August, September
- 77,000 tons of boulders (coming in 2020)
- $10 - $15 per next ½ mile of the lakewalk
- Larger stones, elevated boardwalk, and adapted retaining wall
PPP in Milwaukee Metropolitan Sewer District

- Resilient Infrastructure to unlock capital: $35 Million
- New PPP Goals of establishing 50 million gallons

“That's not being driven by a lawsuit or by poor financials. It's being driven by an understanding that if we're ever going to get ahead of these larger storms and if we're ever going to see the environment restored to what it was 40 or 50 years ago, we need to do something different than what we've been doing.”

- MMSD executive director Kevin Shafer.
A New Decade of Action 2020
Minnesota
Land of 10,000 Lakes
Growth & Opportunity Under a Changing Climate

Agricultural Growth

Population Growth

Ag-tech/water tech/industry growth

45 Million ppl
In neighborhoods flooding annually @ 3’ SLR
State, Tribes, Counties, Individuals...
Learn More

American Society of Adaptation Professionals

www.adaptationprofessionals.org