



One Planet, One Penn



Environmental
Innovations Initiative

UNIVERSITY *of* PENNSYLVANIA

Progress Report, January 2023

From the Directors

Thinking of the gardening mantra of sleep, creep, and leap, we are quite pleased that we made steady progress through 2022, and we are now poised to for exponential growth. Even as we developed our own programs, we continued building relationships. While we are creating something new, we are fortunate to have an excellent foundation at Penn, and much of what we will accomplish will rely on the strength, creativity, and expertise represented in Penn's schools, centers, and offices.

Highlights from 2022 include the launch of our new website, a set of events at the Climate Negotiations in Sharm El Sheikh, a new faculty fellow program, and a growing set of research communities. Perhaps our most notable accomplishment is that each of Penn's 12 schools now has an academic climate commitment. Each of these statements is aligned with the disciplines and priorities of the school, so some are concise reflections of values and others offer details on ideas and actions. The important thing is that each one is authentic to the school, which gives us a firm foundation to unite and ignite around the theme of One Planet, One Penn.

This idea of One Planet, One Penn is to make constellations of our stars. Penn is home to extraordinary people and ideas, and our role is to elevate those assets and help build new and impactful relationships and outcomes. As we get to know our new President and new Provost, we hope to have the opportunity to collaborate with them to ensure Penn is leading the way to a more resilient society.

Finally, we are grateful to our team and to our partners within Penn for a productive year. At the same time, we can say with some confidence that the best is yet to come.



Kathleen D. Morrison
Faculty Co-Lead



Joseph S. Francisco
Faculty Co-Lead



Kathleen D. Morrison
Faculty Co-Lead

Sally and Alvin V.
Shoemaker Professor of
Anthropology and Chair
of Anthropology



Joseph S. Francisco
Faculty Co-Lead

President's Distinguished
Professor of Chemistry



Our Work

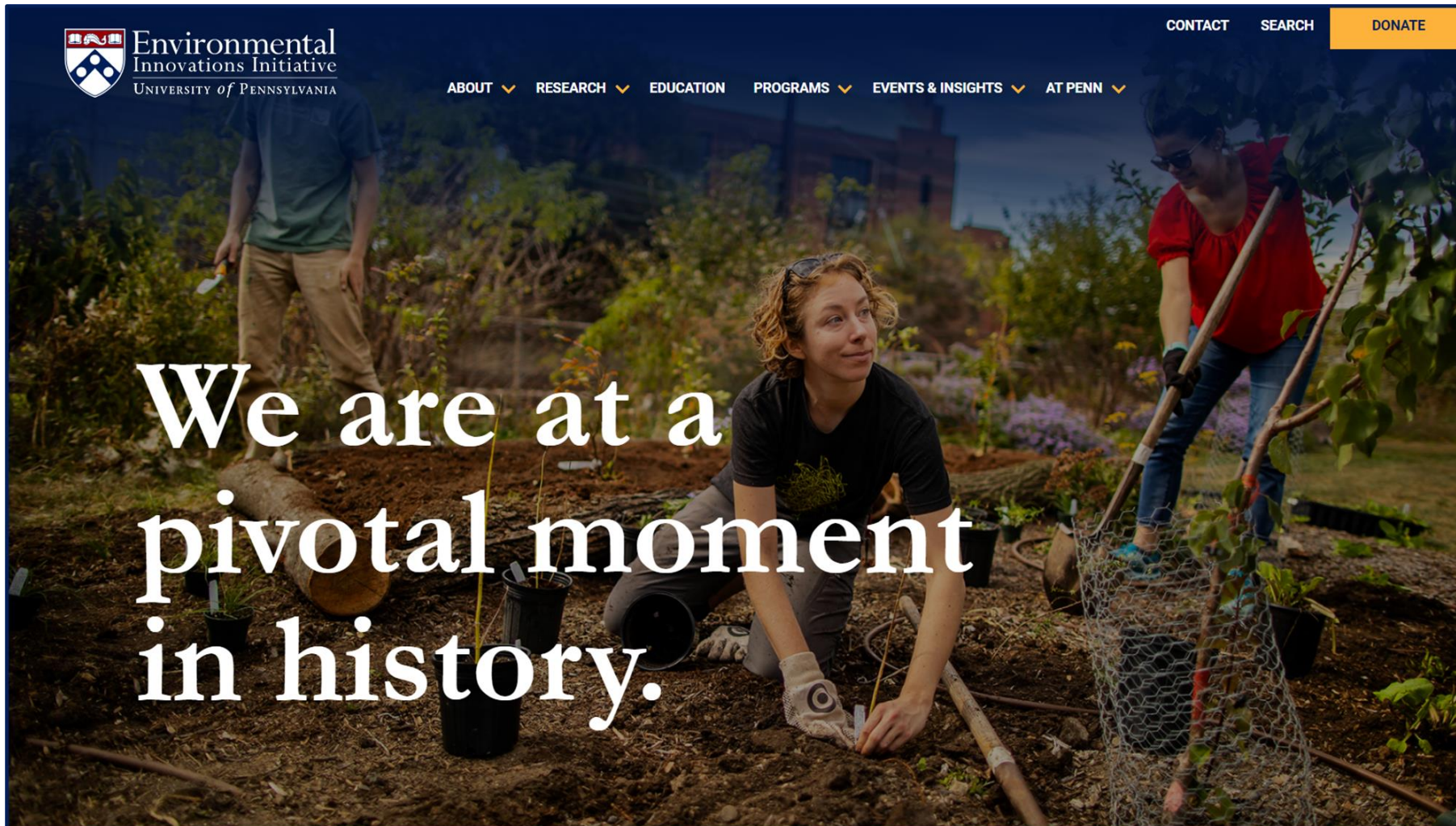
Our Vision is to inform the transition to a more resilient society and foster harmony with nature. **Our Mission** is to catalyze solutions to significant real-world environmental challenges.

We frame our work around the priorities of Stewardship of Nature, Climate Action, and Societal Resilience. As a program that is just entering its third year and is intended to be a catalyst, convenor, and amplifier for all of the University of Pennsylvania, we have identified four key tactics for our work:

- Elevate Penn's impact by connecting our scholarly activities with today's defining challenges and advancing the University of Pennsylvania as a leading resource.
- Address the social determinants of environmental challenges and develop effective solutions to human vulnerability by catalyzing transdisciplinary research.
- Develop models for transformative education that ensure that 100% of Penn students have the opportunity to learn about their capacity as changemakers.
- Foster collaboration and community across disciplines and boundaries through programming on campus, in Philadelphia, and in the world.

This report is organized by these priorities and tactics, with additional information on our team and our future at the end.

Elevate Penn's impact by connecting our scholarly activities with today's defining challenges.



We have created a website to both showcase what we do and guide users to schools, centers, etc. throughout Penn. With a blend of fresh and standing content and interactive tools, this site is intended to be a valuable resource to members of the Penn community and beyond.

Elevate Penn's impact by connecting our scholarly activities with today's defining challenges.

Challenges such as loss of biodiversity, our changing climate, and the resulting vulnerability of people and communities require multifaceted solutions. To leverage the distinctive strengths and priorities of Penn's 12 Schools, the Environmental Innovations Initiative worked with each School to establish a set of Academic Climate Commitments, each one tailored to reflect the disciplines and academic priorities of School.



School of Arts & Sciences
Academic Climate Commitment
Statement



The Wharton School Business
Solutions to Climate Change and
Loss of Nature



Communication and Climate
Commitments at the Annenberg
School for Communication



School of Dental Medicine Climate
Connection Statement



The Weitzman Design for Climate
Commitment: Resilience, Justice,
Decarbonization, and Creativity



Graduate School of Education
Environmental Justice
Commitment



School of Engineering and Applied
Science Energy + Sustainability
Signature Initiative



Penn Carey Law Climate Change
and Environmental Law



Perelman School of Medicine
Planetary Health Statement



School of Nursing Commitment to
Climate Justice



School of Social Policy & Practice
Climate Statement



School of Veterinary Medicine
Climate Connection Statement

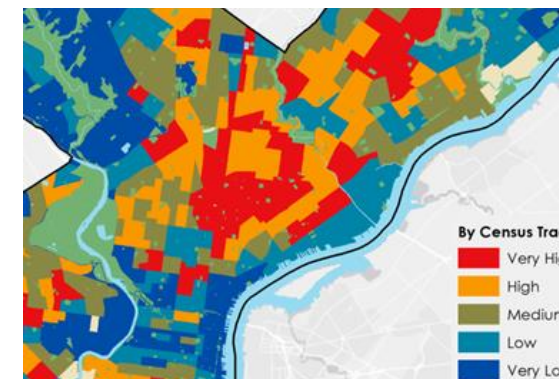


Address the social
determinants of
environmental
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transdisciplinary
research.

Using the UN Sustainable Development Goals as a classification system, we have mapped out correlations between global priorities and expertise at Penn. This graphic offers a visualization Penn's aggregate strengths – the size of the rectangle and the number in the corner indicate number of faculty. We will use the data from this work to create a searchable database.

Develop effective solutions to human vulnerability by catalyzing transdisciplinary research.

The Initiative catalyzes collaboration through a set of Research Communities, each which consists of an interdisciplinary group engaged in studying a common theme of broad environmental significance. Each must include at least one public-facing outcome and offer opportunities for students to get involved. Our current communities are highlighted here.



Growing Together: A Community-Based Initiative for Greening and Nutrition

Akira Rodriguez
Weitzman School of Design

Community: SAS-EES, Netter Center,
Temple U, Clean Air Council

Penn Regenerative Ag Alliance

Tom Parsons
School of Veterinary Medicine
Community: Weitzman, SAS, SEAS,
Annenberg, Kleinman, Perry World
House, Center for Stewardship
Agriculture and Food Security

Project-Based Learning for Global Climate Justice

Zachary Herrmann
Graduate School of Education
Community: Wharton, SAS,
Annenberg, PPEH, Urban Teaching
Assistantship Program, Collaboratory
for Teacher Education, Center for
Professional Learning, South Asia
Center

Adapting to Extreme Heat in Philadelphia to Increase Human Vitality

Russell Composto
School of Engineering and Applied
Science
Community: Weitzman, Wharton,
Penn IUR, Singh Center for
Nanotechnology



Support models for transformative education that ensure that 100% of Penn students have the opportunity to learn about their capacity as changemakers.

Courses are at the heart of this commitment, so the Initiative published an online curated collection of environment-related courses available to undergraduate and graduate students. Based on the most recent course catalog, the list has been cross-checked with academic units. It is possible to sort the inventory using over 16 topics including water, health, and climate, among others.

Foster collaboration and community across disciplines and boundaries through programming on campus.



Susanna Berkouwer
Wharton School



Henry Daniell
School of Dental Medicine



Julie Ellis
School of Veterinary
Medicine



Emily Falk
Annenberg School for
Communications



Teresa Gimenez
School of Arts & Sciences –
Latin American Studies



Barri Gold
School of Arts & Sciences
– English



Jon Hawkins
School of Arts & Sciences –
Earth & Environmental
Science



Zachary Hermann
Graduate School of
Education



Heather Huntington
School of Arts & Sciences –
Political Science



Farah Hussain
Perelman School of
Medicine



Chenyi Ma
School of Social Policy &
Practice



Sarah Kagan
School of Nursing



Chinedum Osuji
School of Engineering and
Applied Science



Megan Ryerson
Weitzman School of Design



Shelley Welton
Penn Carey Law School

We created a faculty fellowship program that includes representatives from each of Penn's 12 schools and from varied career stages. It is designed to foster community for incoming faculty and catalyze transdisciplinary dialogue for all.

Foster collaboration and community across disciplines and boundaries through programming on campus and in Philadelphia.

This was the third year for Penn Climate Week, and our first year as its administrative lead. With co-leadership by Penn Sustainability, faculty, and students, we highlighted the role of indigenous knowledges in addressing the climate crisis. The line-up of over 30 events included panel discussions, teach-ins, and hands-on volunteering activities. Several also incorporated collaboration with community groups and other Philadelphia universities.





Foster collaboration and community across disciplines and boundaries through programming in the world.

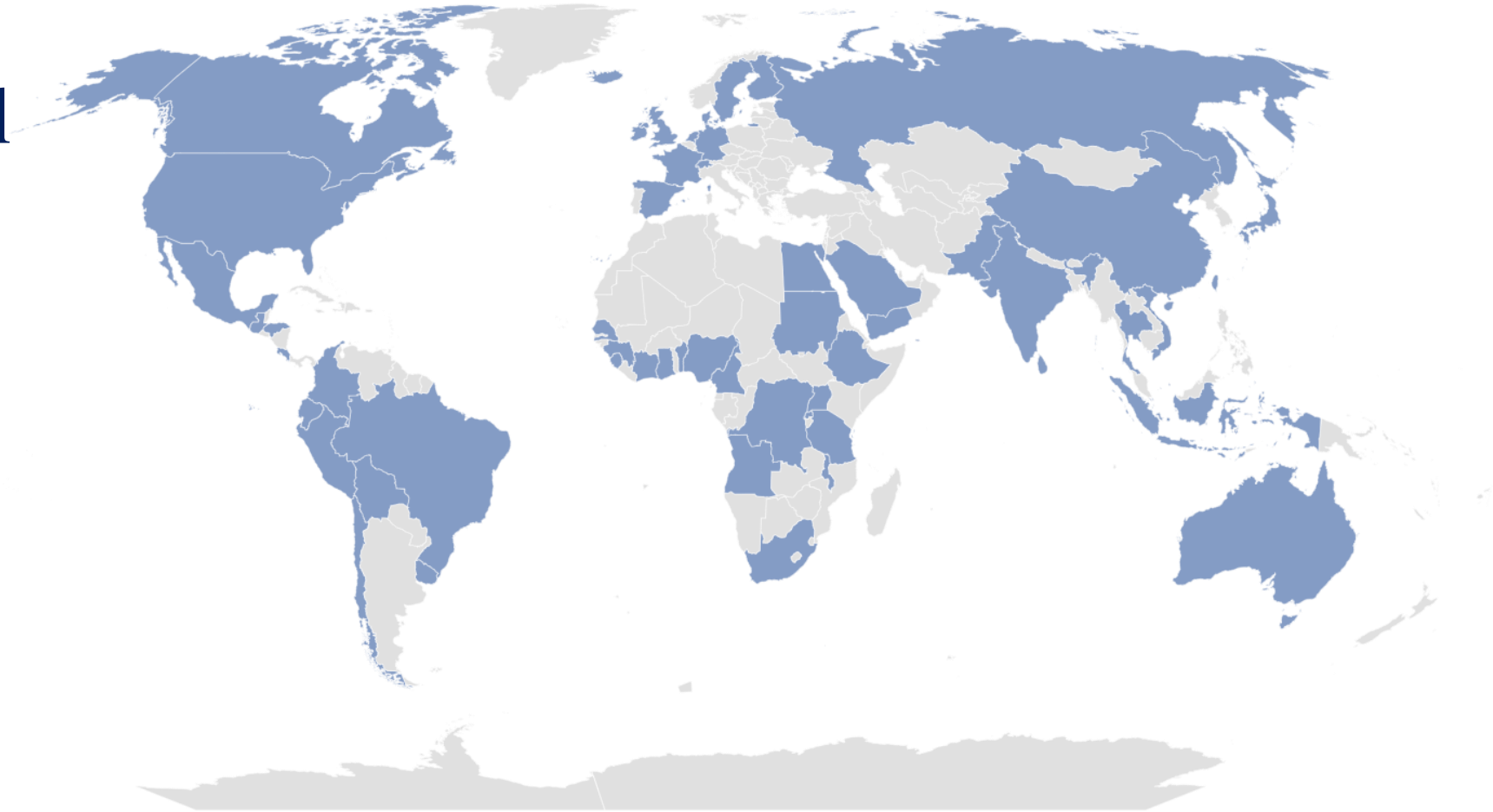


At the Sharm el-Sheikh Climate Change Conference (COP27) our presence included collaboration with Penn Global on the first-ever Penn networking reception at a COP and a seat on an official side event that explored how engaging citizens in science and empowering youth could contribute to climate action.

Foster collaboration

and community
across disciplines and
boundaries through
programming in the

Over 70 students from nearly 30 countries participated in the fifth iteration of the Global University Climate Forum this year. The Forum encourages students to implement their own ideas for local-scale projects with measurable outcomes in advance of global negotiations. The final reports will be featured in our online publication, The Knowledge Sector: The role of Higher Education Institutions in addressing Global Environmental Challenges.



Global University Climate Forum Participants

(COP 15, 2009; Rio+20, 2012; COP21, 2015; COP26, 2021; COP27, 2022)



What to expect in 2023

Elevated Impact

- We are launching the *One Planet, One Penn* series to unite and ignite activity throughout the University.
- We will partner with the 12 schools to substantiate the Academic Climate Commitments with baselines and key performance indicators.

Transdisciplinary Research

- Our research communities will grow and evolve, furthering Penn's impact and enriching opportunities for students.
- We will work with Penn's Institutes, Centers, and Offices on campus to current and advance a suite of applied research programs.

Transformative Education

- We will continue to showcase Penn's academic strengths and support filling the gaps.
- Our course, Humans and the Earth System: How it Works, How We Got Here, and How to Save Our Planet, will become an annual offering in the School of Arts & Sciences.

Collaboration & Community

- We will create additional fellowships and leadership opportunities for students.
- We will lead the effort to create a peer network of pan-university academic environmental programs.
- In collaboration with the International Sustainable Campus Network, we will lead the next iteration of the Global University Climate Forum.



Our Internal Advisory Committee



Nikhil Anand
Anthropology, School
of Arts & Sciences



Katherine Baillie
University
Communications



Katie Barott
Biology, School of
Arts & Sciences



Eugénie L. Birch
Penn Institute for
Urban Research



Dawn Bonnell
Office of the Vice
Provost for Research
(*ex officio*)



Michael Borda
Office of the Vice
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Melissa Calvert
Development &
Alumni Relations



Cary Coglianese
Penn Carey Law



Cornelia Colijn
Kleinman Center for
Energy Policy



Ocek Eke
School of Engineering
and Applied Science



Jared Farmer
History, School of
Arts & Sciences



Amy E. Gadsden
Penn Global



Femida Handy
School of Social Policy
& Practice



Andrew Hoffman
School of Veterinary
Medicine



Charles (Chaz)
Howard
Office of Social Equity
& Community



John L. Jackson, Jr.
Annenberg School for
Communication



LaShawn Jefferson
Perry World House



Marsha Lester
Chemistry, School of
Arts & Sciences



Sarah E. Light
The Wharton School



Jianghong Liu
School of Nursing



Michael Mann,
Earth & Environmental
Science, School of Arts &
Sciences



Irina Marinov
Earth & Environmental
Science, School of Arts



Nina Morris
Penn Sustainability



Hillary Nelson
Perelman School of
Medicine



Thomas Parsons
School of Veterinary
Medicine



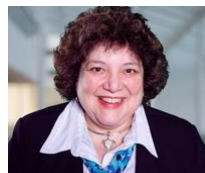
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School of Nursing



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Graduate School of
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Suzanne Rose
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Katherina Rosqueta
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Brigitte Weinstein
Penn Libraries



Michael Weisberg
Philosophy, School of
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Mark S. Wolff
School of Dental
Medicine

Our team



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Senior Director



TBD
Associate Director



Xime Trujillo
Research Coordinator



Karla Terroba
Program Coordinator

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