2. Internal and external collaboration



AESIS workshop on institutional structures for societal impact of science

David M. Lodge
Francis J. DiSalvo Director

Cornell Atkinson Center for Sustainability
Professor

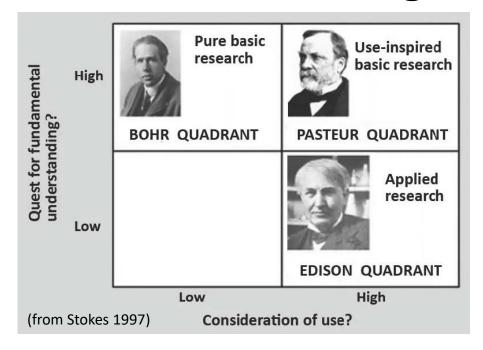
Dept. Ecology & Evolutionary Biology, Cornell University

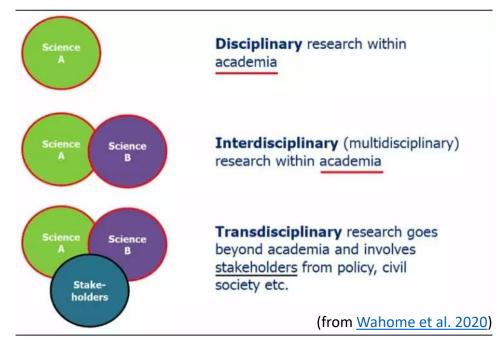


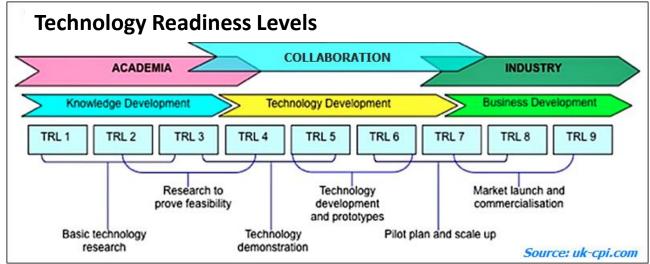




What Kind of Knowledge do Universities Privilege?





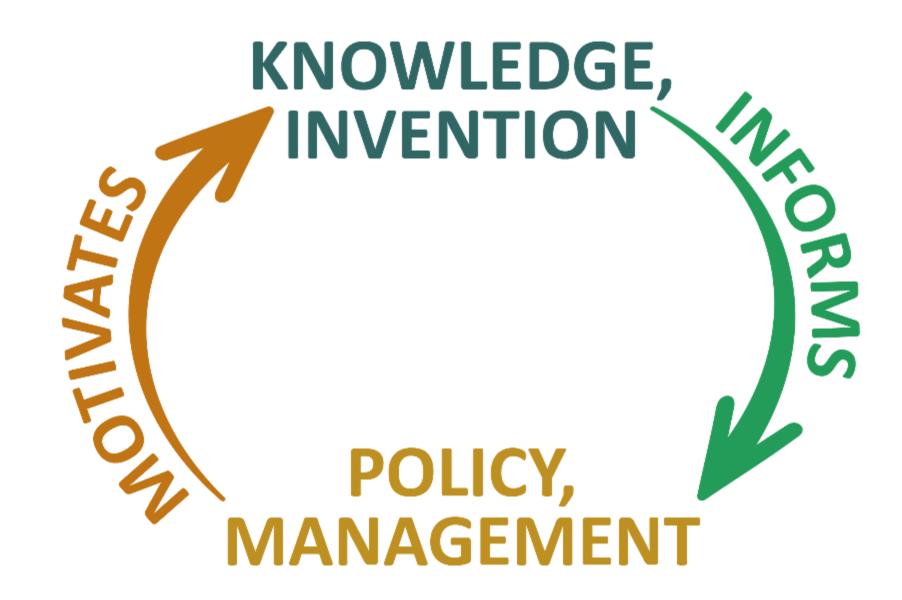




Breaking down the silos and spanning the boundary between the university and the "real world"





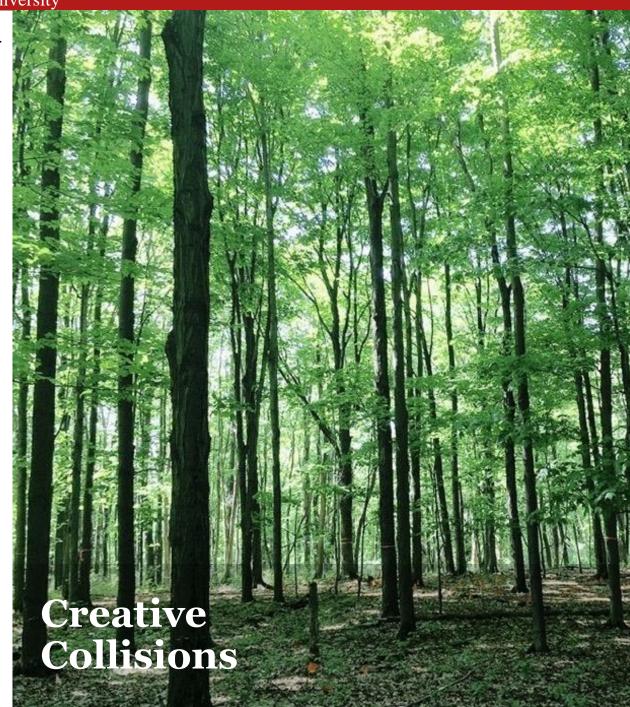




Cornell University

Co-produced transdisciplinary priority setting







Cornell University

Building on Cornell Strengths

Atkinson "Knowledge-to-Action" themes connect transdisciplinary research and practice to build resilient rural-urban systems.

Reducing Climate Risks

Cutting greenhouse gas concentrations and mitigating their impact

Accelerating Energy Transitions

Increasing the demand and capacity for renewable energy and creating a more resilient power grid

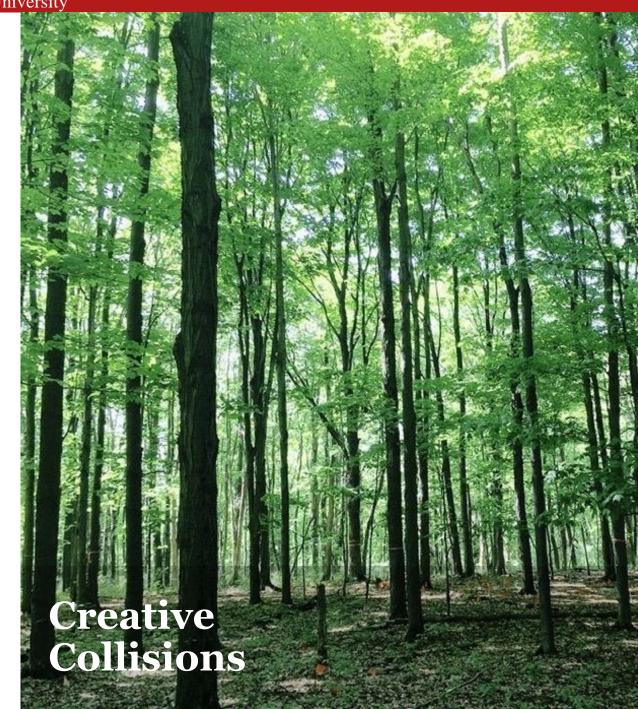
Increasing Food Security

Improving food production, processing, and distribution to meet nutritional needs and improve livelihoods and ecosystem health

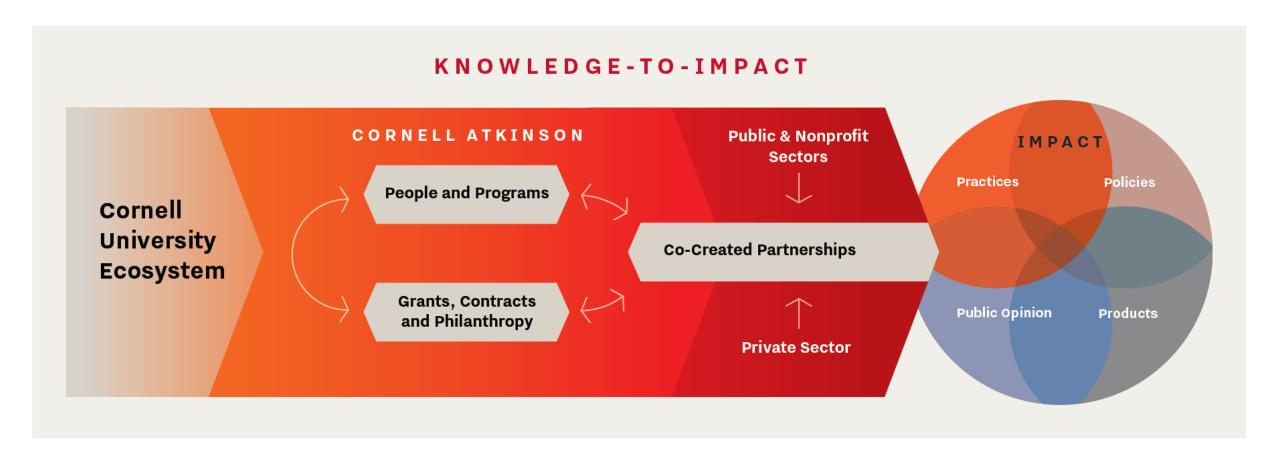
Advancing One Health

Ensuring humans, animals, and ecosystems flourish together



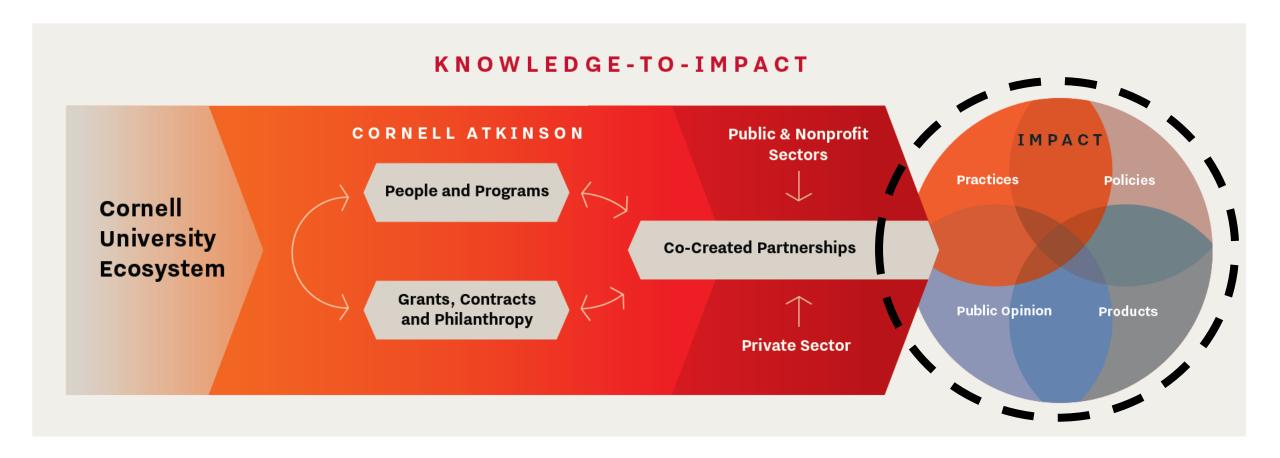


Cornell Atkinson Center for Sustainability: Theory of Change



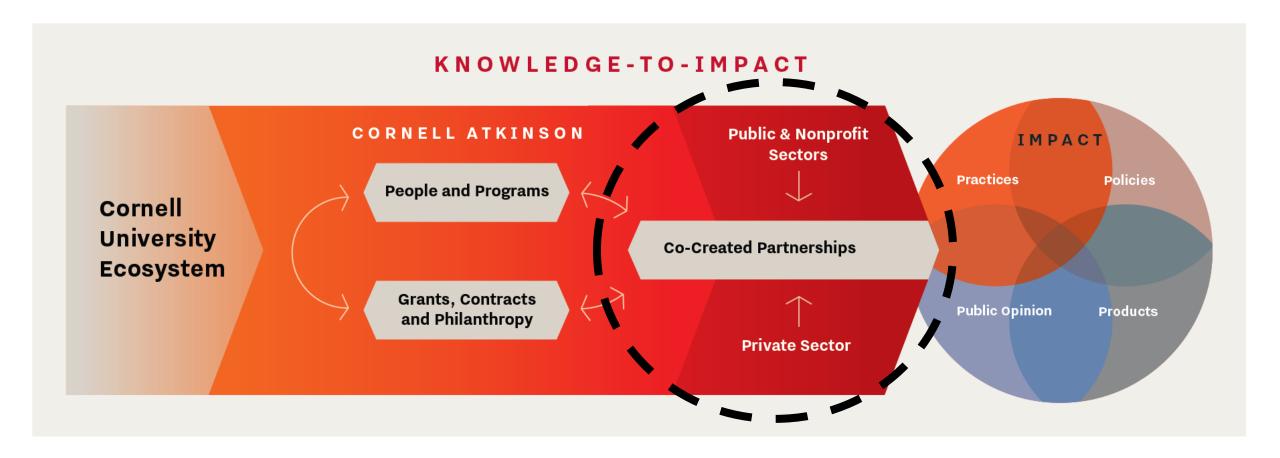


Impact: Public Opinions, Practices, Products, and Policies



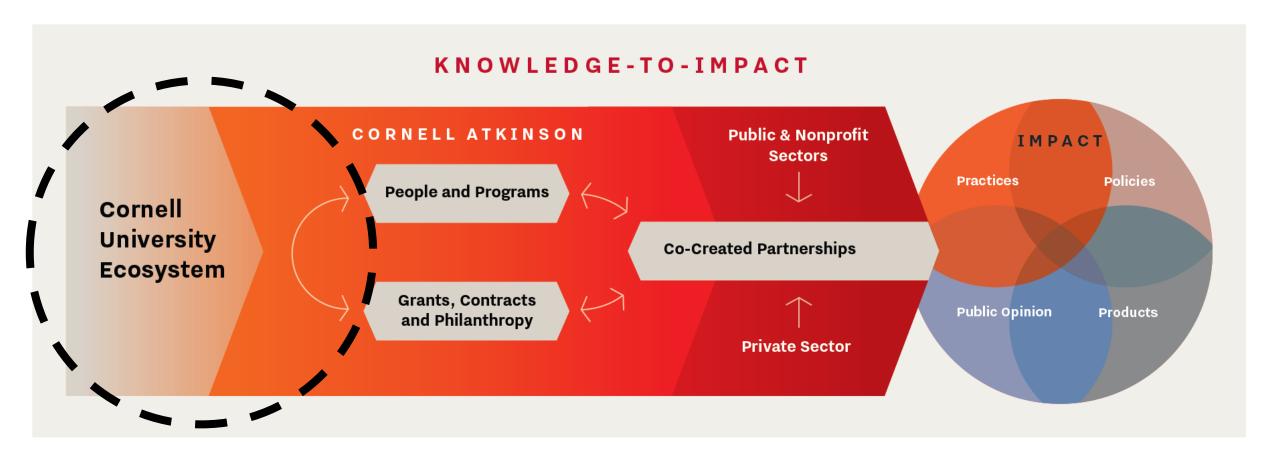


External Partnerships



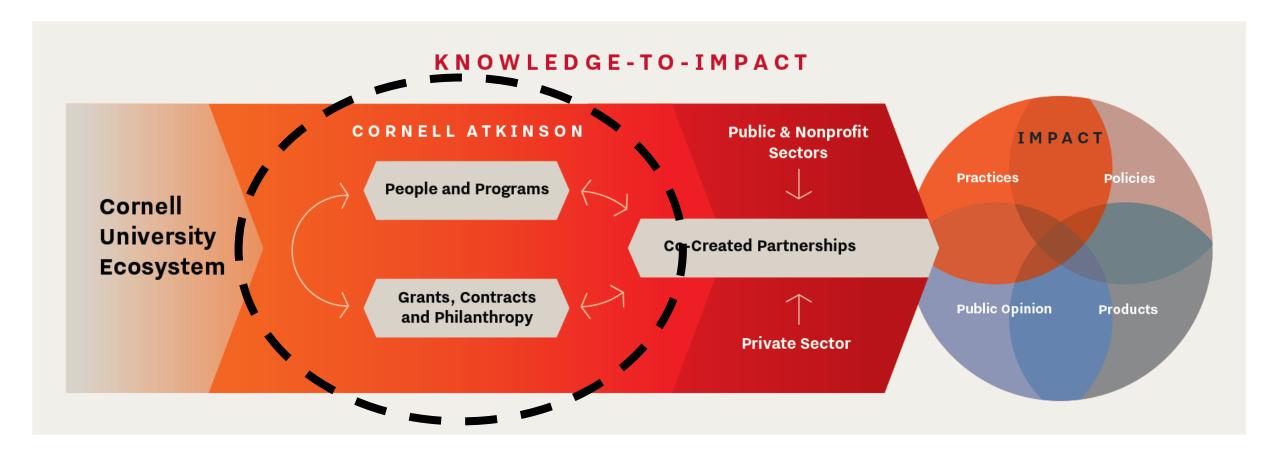


Traditional University Intellectual and Infrastructure Assets





Value Add from Cornell Atkinson: Connecting Internally & Externally





Value Add from Cornell Atkinson: Seed funding programs

Academic Venture Fund



Our premier funding initiative, this \$1.5 million annual program supports seed grants in the \$50,000-\$150,000 range that are multidisciplinary and have

the potential to propel a good idea forward so that it can make a measurable impact. Projects often include engagement with external partners from industry, government, nongovernmental organizations, and foundations.

Innovation for Impact Fund



This program links Cornell researchers to leading external organizations working on policy and programs around the world. The IIF builds capacity and

shortens response time to emerging and critical challenges. IIF awards finance joint projects with The Nature Conservancy, CARE, and Environmental Defense Fund to foster sustainable solutions for food security, energy transitions, one health, and economic development.

Rapid Response Fund



The RRF facilitates urgent or time-sensitive sustainability research, workshops, and other activities. The RRF is a source of funding for smaller projects that cover a broad

range of sustainability initiatives. RRF proposals are evaluated by the Atkinson Center's leadership team on a rolling basis.

Summer Mentored Research Grants



Cornell Atkinson is piloting an initiative to support faculty-led undergraduate summer opportunities in sustainability research, to prepare undergraduates to conduct

independent research in a collaborative environment.

Cornell Atkinson Postdoctoral Fellowships



This unique postdoctoral program seeks creative and highly motivated early-career researchers to work in tandem with Cornell faculty and external partners to

address pressing world needs through research and implementation of sustainable solutions. Up to four postdocs are chosen each year for two-year appointments.

Graduate Research Grants



Cornell Atkinson's Small
Grants Program supports
Cornell graduate students
and postdocs with funding for
research that aligns with our
working group themes of

increasing food security and reducing climate risks.



Public Opinion, Thought leadership

John Tobin (Dyson School of Applied Economics & Management)

- Transition Finance for Regenerative Agriculture Systems Partnering with farmers to drive sustainable agriculture investment
- 2020: Leads "Financing Nature" report
- 2022: Report provides key framework for Biodiversity COP15 Negotiations

Report and Biodiversity COP15 delegation supported by Cornell Atkinson





Practices: corporate and private

Peter Woodbury, Christina Tonitto (Integrative Plant Science Soil and Crop Sciences)

– Cornell FAST-GHG Tool Connects Farmers to Walmart Climate Goals

Received 2020 Cornell Atkinson Support for Calculator for Soil & Fertilizer Emissions





Product

David Erickson (Mechanical & Aerospace Engineering) & Tobias Hanrath (Civil & Environmental Engineering)

United Airlines, Dimensional Energy Reach Green Fuel Pact

Supported by a 2016 Academic Venture Fund Award







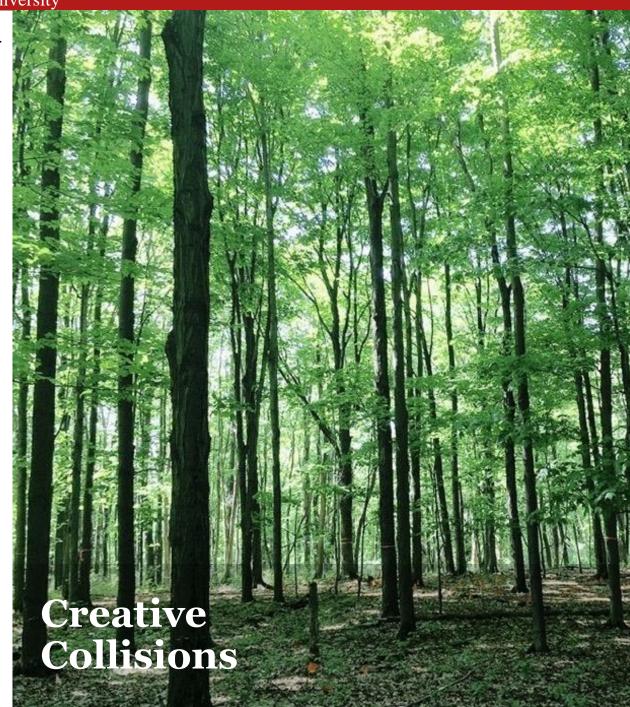




Cornell University

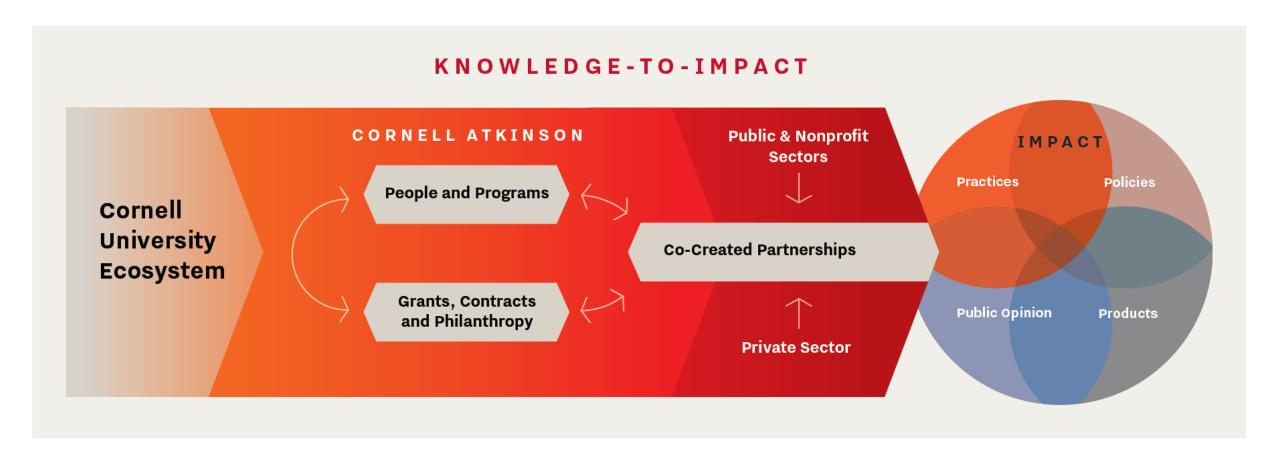
Co-produced transdisciplinary priority setting





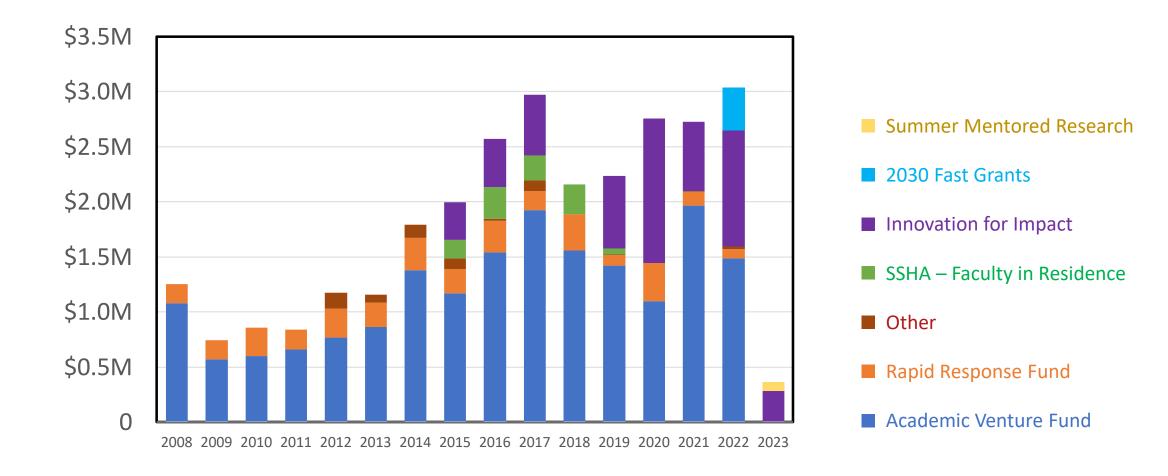


Cornell Atkinson Center for Sustainability: Theory of Change





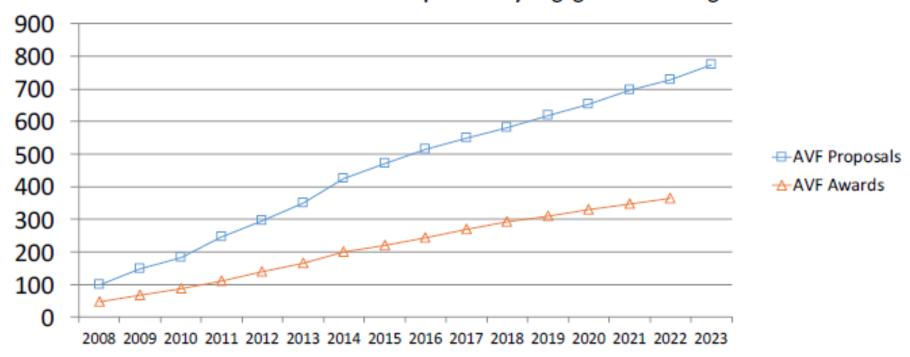
Cornell Atkinson Grant Programs – proximate metrics (outputs)





Faculty engagement

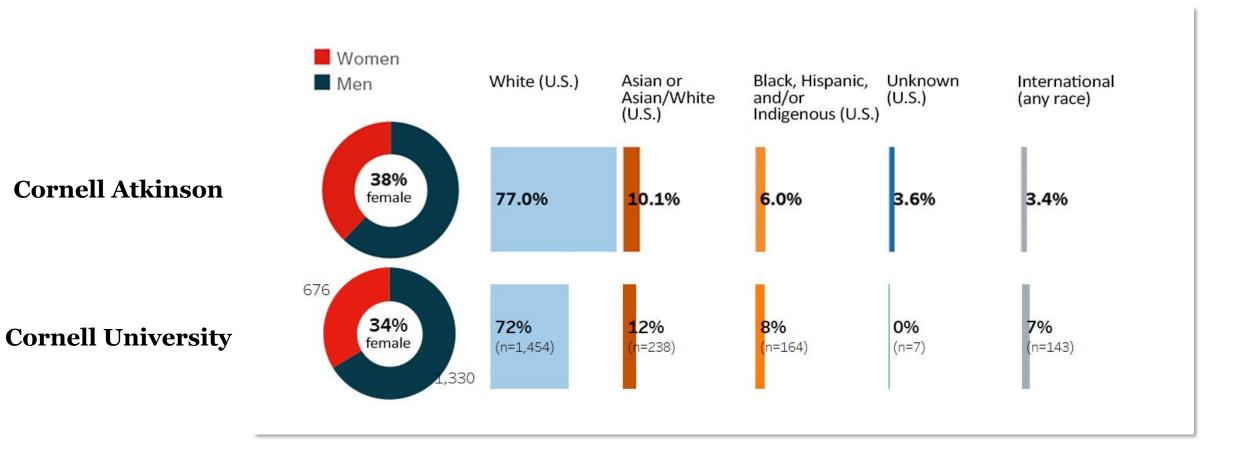
Cumulative Number of Unique Faculty Engaged in AVF Program





Faculty Diversity

2008-2022





2023 Faculty Follow-on Funding Survey

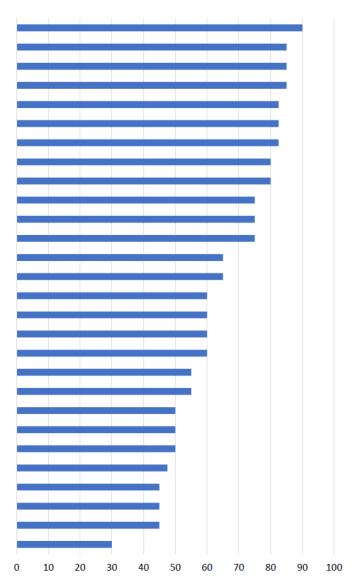
 Total Cornell Atkinson Funding Received: 	\$13.7M
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- Surveyed Funded Faculty Fellows (2017-2022): 221
- Response Rate: 66%
- Respondents Reporting Follow-on Funding: 53%
- Follow-on Funding: \$88.7M
- Return on Investment: 6.5



Strategic partnerships

Partner Health Score

















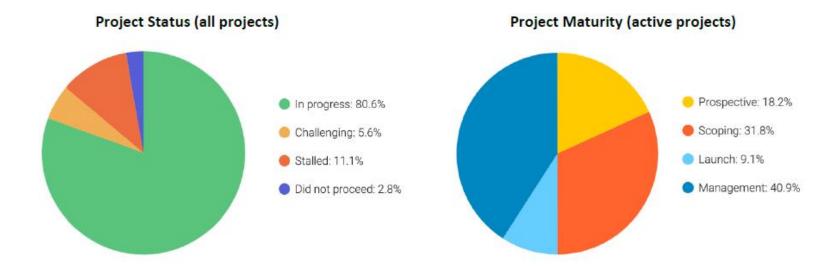


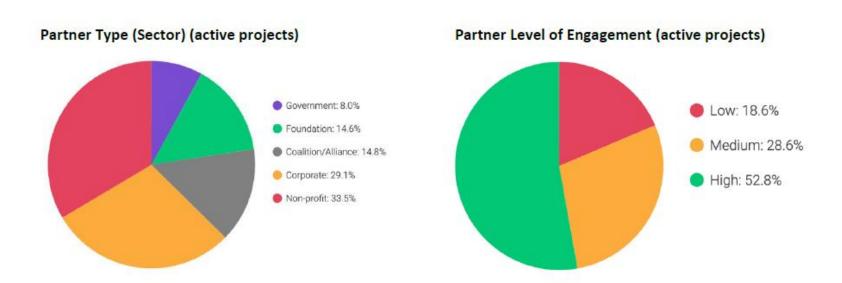






Partnerships and IIF projects







Ultimate metrics (outcomes) are harder to measure

	Instrumental Impacts	This research led to changes to plans, decisions, practices, or policies.
	Conceptual Impacts	This research contributed to changes in people's knowledge about or awareness of an issue.
	Capacity-Building Impacts	This research contributed to enhancing the skills, expertise, or resources of an organization or group of people.
2 - 2	Connectivity Impacts	This research led to new or strengthened relationships, partnerships, or networks that will endure after the project ends.
	Social Impacts	This research has contributed to beneficial changes to society (often a longer-term impact).
	Ecological Impacts	This research has contributed to beneficial ecological or environmental changes (often a longer-term impact).



Arizona Institutes for Resilient Environments and Societies Societal Impacts Assessment Report 2022

How AIRES Contributes to our Region and the World

Alison M. Meadow | Gigi Owen | Nupur Joshi Research Impacts and Evaluation







