Josef Korbel School of Global and Public Affairs
UNIVERSITY OF DENVER

Frederick S. Pardee Institute for International Futures



BUILDING A MORE KNOWABLE FUTURE

ANNUAL REVIEW 2025-2026



ABOUT US

Our Vision

A more knowable future.

What We Do

The Frederick S. Pardee Institute for International Futures helps people understand how global systems change over time. We build open data, modeling tools, and analysis that connect questions across development, climate, governance, economics, and international affairs.

At the center of our work is International Futures (IFs), Pardee's open-source, integrated forecasting platform. IFs supports scenario-based analysis across human, social, and natural systems.

Why It Matters

In a world shaped by overlapping pressures, short-term thinking can undermine strategy. Long-term, systems-based work helps clarify which trends are durable, where trade-offs emerge, and how choices in one area can ripple across others.

Who We Serve

We work with policymakers, researchers, international organizations, development practitioners, students, and others who need to reason across systems, uncertainty, and time.

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FROM THE DIRECTOR

Why clearer ways of thinking about the future matter now.



The "polycrisis" was in full effect this past year, with emerging challenges across conflict, governance, technology, energy, and the environment, to name but a few impacted domains. Following the headlines, markets, or social media can be overwhelming and distressing.

Our work at the Pardee Institute helps contextualize these short-term challenges by providing an empirical assessment of durable long-term trends that persist through periods of volatility. Using the International Futures (IFs) platform, we help decision-makers build stronger strategies that cut through the noise.

Our development analysis team worked with UN Women, UNIDO, UNEP, UNDP, Octopus Energy, the Institute for Security Studies, AUDA-NEPAD, and others to model the future of gender equality, industrial development, renewable energy, environmental transformation, jobs, and human well-being.

Our geopolitical analysis team made inroads in measuring abstract concepts that underpin international relations. Through datasets on leader travel, national power, diplomatic representation, mediation, demography, and international relationships, the team helped researchers, journalists, and policy audiences test claims that are often discussed only in broad terms.

Additionally, we began participating in the Scenario Evolution Process, an academic community initiative to build the next round of global socioeconomic development pathways.

We also invested significant effort in a new set of courses to teach our modeling approaches, supported by University of Denver seed funding. Our five-course microcredential launched in fall 2026 and is designed to provide a guided overview to students and professionals looking to expand their analytic toolkit to develop long-term strategic thinking skills.

All of these activities build tools and develop empirically grounded shared understandings of long-term, durable trends that can serve as the backbone of strategic planning. While the various interconnected crises will continue to rage, Pardee's grounding in long-term systems thinking can provide an anchor for your own mental model.



Jonathan D. Moyer
Director, Frederick S. Pardee Institute for International Futures
Associate Professor, Josef Korbel School of Global and Public Affairs, University of Denver

WHAT CAME INTO VIEW THIS YEAR



Four ways we are building understanding about long-term continuity and change



Mapping aspirations to plausible pathways.

What does it take to turn development goals into achievable futures?



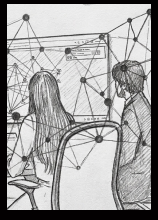
Opening scenario frameworks to change.

How should the tools we use to think about the future evolve?



Making influence visible through evidence.

What can gathering data on leader travel and other international interactions reveal about global influence?



Expanding our user base and entry points.

How can more people use IFs for long-term strategy and systems thinking?

The pages that follow show how Pardee brought these questions into sharper view and why they matter for people working to understand what may come next. They also feature additional applications of our data and tools, while spotlighting a selection of Institute priorities from the past year.



MAPPING ASPIRATIONS TO PLAUSIBLE PATHWAYS

What does it take to turn development goals into achievable futures?

The distance between a development goal and its realization is filled with choices, constraints, and connections. Progress on one goal can depend on changes in several others: gender equality is shaped by labor markets, institutions, and access to opportunity; industrial development affects demographics, automation, productivity, and energy; and energy choices can affect poverty, basic services, and climate outcomes.

This year, Pardee's development analysis team worked with partners to explore these connections through integrated scenario analysis that examined how different choices could shape development pathways over time.

In *Gender Snapshot 2025*, Pardee supported UN Women's analysis of future scenarios for gender equality and women's empowerment. The work examined how gender equality is shaped by labor markets, public institutions, household conditions, climate exposure, digital inclusion, and women's leadership.

With UNIDO, Pardee contributed forecasts and scenario analysis for the *Industrial Development Report 2026* and a follow-on policy brief on the future of jobs. That work examined how demographic change, automation, productivity, clean energy, and industrial policy could affect employment and development pathways through 2050.

In UNEP's *Global Environment Outlook 7*, Pardee researchers contributed IFs-based analysis to chapters examining the socioeconomic implications of environmental transformation pathways. The work connected environmental choices to long-term outcomes in poverty, hunger, mortality, resource demand, and human well-being.

That same logic shaped *Charged for Change*, a UNDP report produced with Pardee and Octopus Energy. Using IFs, the report examined how accelerated renewable energy expansion, paired with investments aligned to the Sustainable Development Goals, could affect poverty, malnutrition, water and sanitation access, costs, and warming pathways.

The team also helped build capacity for long-term planning through participation in the African Futures Conference and a workshop with Rwanda's National Council for Science and Technology, focused on implementing the government's Vision 2050 strategy.

International Futures provides the empirical basis for this work.

Our work over the year illustrates the ways in which questions about sustainable and international development can cross systems, confront trade-offs, and have lasting impacts.



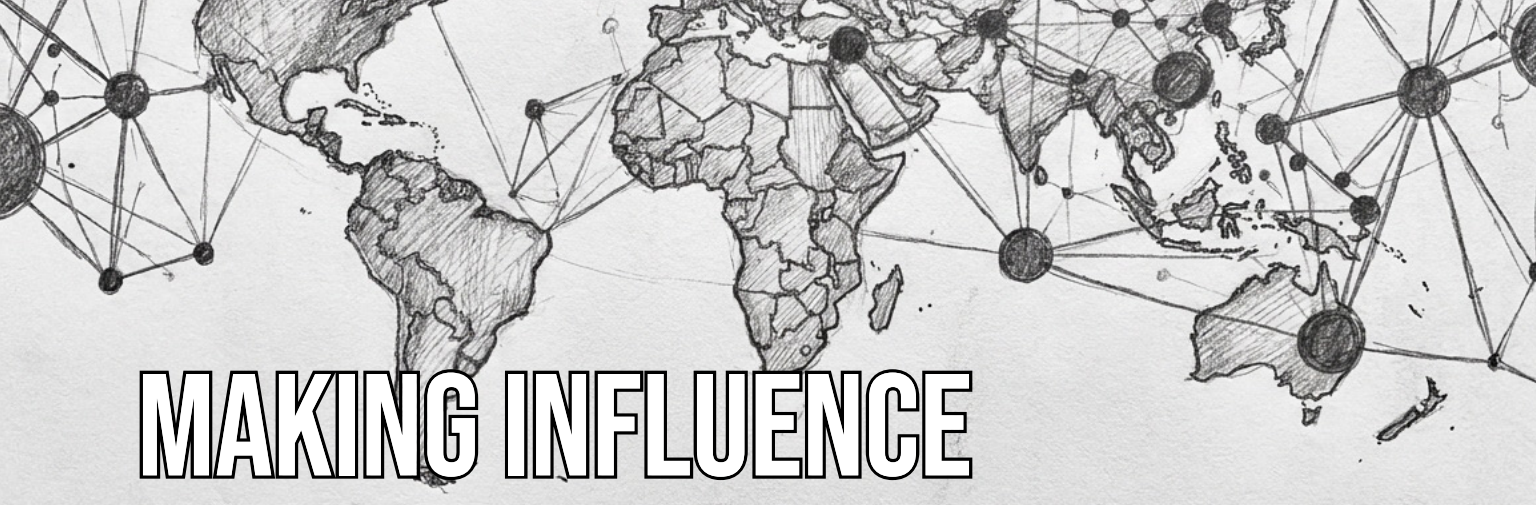
Pardee's International Futures (IFs) helps future-focused institutions examine questions that span decades and connected systems.

Its distinctive breadth is what makes this work possible:

5,000+ Historical data series	**2150** Scenario horizon
188 Countries	**800+** Variables

Because those features are integrated within one platform, IFs can analyze interactions across human, social, and natural systems in ways narrower tools cannot. That structure gives stakeholders a shared language and analytic foundation for examining how choices made today could ripple across systems and shape future risks, trade-offs, and opportunities.

By making assumptions, relationships, and results more transparent, IFs helps users move from separate views of the future toward a more grounded conversation about long-term planning and strategy.



MAKING INFLUENCE VISIBLE THROUGH EVIDENCE

What can gathering data on leader travel and other international interactions reveal about global influence?

Geopolitics is often described in shorthand: countries are rising or declining; powers may be dominant, aligned, or isolated. Pardee's geopolitical analysis team builds data to unpack these trends and the mechanisms behind them.

This year, the team continued to quantify how power and influence have evolved — and how they are expected to evolve — through changes in capabilities, relationships, and behavior. Work on leader travel, national power, diplomatic networks, immigration, climate risk, Africa-Europe relations, and broader global trends established an evidence base to ask and answer complex questions about the past, present, and likely future of the international system.

The Country and Organization Leader Travel dataset, or COLT, showed how diplomacy can be studied through observable behavior. Published research and public commentary used the dataset to examine where leaders travel, who receives visits, and how diplomatic attention changes over time. For example, *Agence France-Presse* reporting on papal travel brought COLT into public conversation about institutional change and geopolitical relationships.

Other Pardee datasets helped researchers and journalists examine influence from different angles. These included the Global Power Index and Formal Bilateral Influence Capacity Index and expanded work on UN voting data and diplomatic representation — data that formed the bedrock of Pardee's collaborative research efforts with the RAND Corporation benchmarking U.S. capabilities against major international competitors.

The team also connected domestic policy choices to international consequences. Pardee research examined how lower U.S. immigration rates could constrain long-term labor force expansion, dampening national economic capacity and shifting the balance of power relative to China — findings highlighted in *The Hill* and by Megatrends Afrika.

These datasets allowed researchers and journalists alike to push against overly simple narratives. Research on China-Africa relations examined whether Chinese engagement is as exceptional as some debates suggest. Work on Qatar showed how smaller states may build influence through mediation and relational position. And a climate and international relations chapter examined how climate pathways could reshape state capacity, cooperation, migration, trade, and power distributions.

Big questions these datasets help answer.

Pardee's Diplometrics portfolio helps make global influence more visible by turning diplomatic behavior, national capabilities, and international relationships into evidence that can be compared across countries and over time.



What do leader visits reveal about diplomatic attention?

COLT helps researchers examine where leaders travel, who receives visits, and how patterns of engagement reflect regional priorities, status, and relationship maintenance.

How is national power changing over time?

The Global Power Index helps compare long-term shifts in economic, demographic, technological, military, diplomatic, and relational capacity.

Where are influence and alignment strengthening or weakening?

The Formal Bilateral Influence Capacity Index, UN voting data, and diplomatic representation datasets help study relationships among states, institutions, and networks.

How do smaller states build influence?

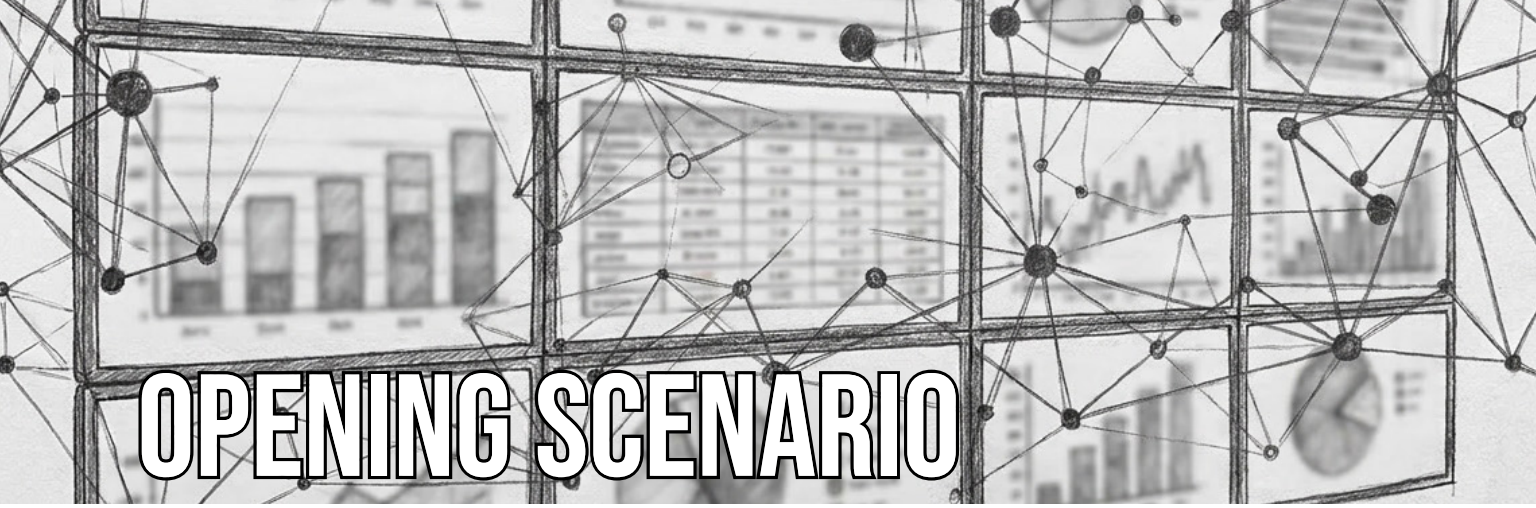
Diplometrics data can help examine mediation, access, diplomatic positioning, and other ways countries exercise influence beyond material power alone.

How do domestic choices intertwine with geopolitics?

Paired with IFs, these datasets help connect demography, migration, economic capacity, science and technology, trade, and governance to long-term shifts in global influence.

How can public claims about power be tested?

Diplometrics datasets give researchers a way to compare broad claims about power, influence, and alignment against observable patterns in travel, representation, voting, and state capacity.



OPENING SCENARIO FRAMEWORKS TO CHANGE

How should the tools we use to think about the future evolve?

This year, Pardee researchers published new quantified extensions of the Shared Socioeconomic Pathways (SSPs) in *Nature Communications*.

The paper introduces 188 new forecast indicators across 188 countries to operationalize all five SSP narratives within the IFs platform through 2150. The SSPs are a set of foresight narratives that research groups translate into long-range forecast scenarios for climate change, biodiversity, sustainable development, and related fields.

These new SSP forecasts draw on the strength of IFs and its broad interconnections within and across global systems. The approach used to create them integrates demographic, economic, governance, conflict, infrastructure, health, education, public spending, and other systems within a single framework.

This IFs-based integrated structure provides an internally consistent basis for testing risks, trade-offs, capacities, and planning choices whose consequences may unfold over decades.

Beyond enhancing SSP quantifications, Pardee also advanced the rigor, transparency, and accessibility of future-oriented analysis through its leadership in broader discussions about how scenario frameworks should evolve.

This year, Pardee helped launch and support the Scenario Evolution Process, or SEP, a multiyear, community-driven effort to consider how global socioeconomic scenarios should evolve for climate, development, nature, and biodiversity research.

Pardee's role has been both technical and convening. The Institute hosts the SEP website, co-chairs the Orchestration Working Group, and leads the global survey designed to gather input from people who produce scenarios and who use scenario-based information. SEP also includes a special issue in the journal *Futures* and workshops intended to widen participation from the scientific and policymaking communities.

Spotlight

INTERNATIONAL FUTURES, TWENTY YEARS LATER

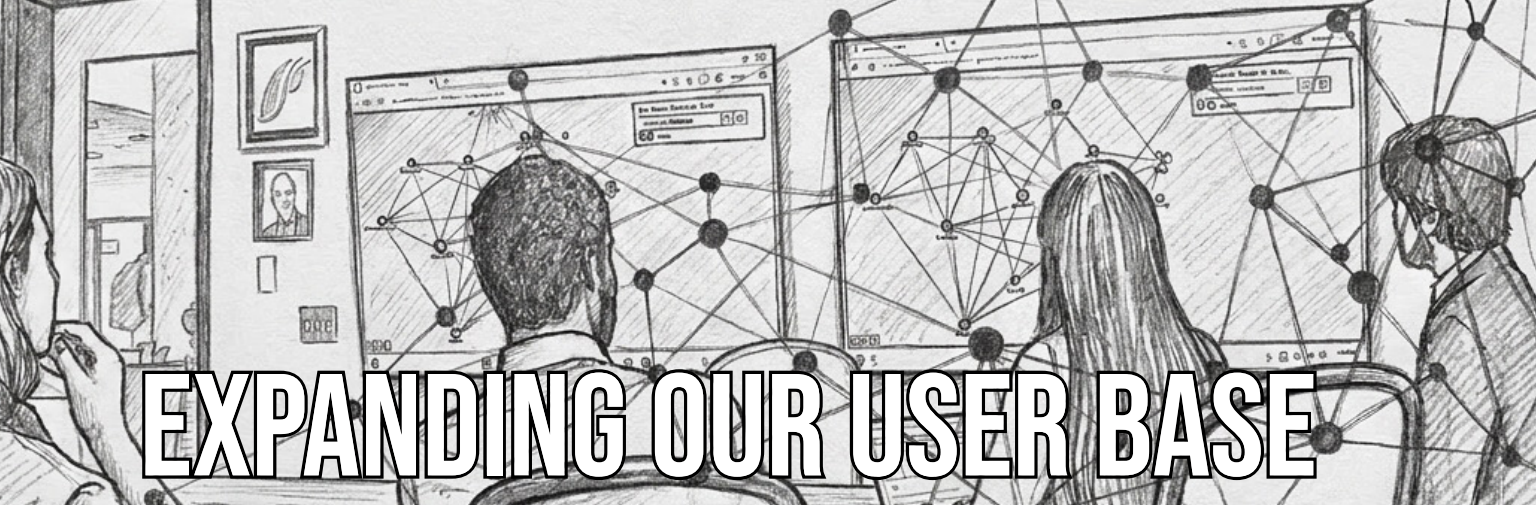
This year marked the release of the fifth edition of *Exploring and Shaping International Futures*, a canonical text for International Futures (IFs) users.

Written by Pardee's founding director, Barry B. Hughes, the book introduces new and seasoned users alike to the structure and use of IFs, Pardee's open-source, integrated forecasting platform. For new users, the book offers a practical entry point into IFs. Experienced users will find an updated guide to the model's structure, applications, and role in long-term scenario analysis.

Published 20 years after the fourth edition, the new volume addresses both enduring and emerging global issues, such as climate change and geopolitical shifts, along with major advances in IFs. Drawing on contemporary issues and dynamics of global change and organized in part by the Sustainable Development Goals, it guides readers through scenario analysis across human development, environmentally sustainable development, and national and global sociopolitical systems.

The fifth edition covers substantial enhancements to IFs, including new and expanded modeling in education, health, infrastructure, water, and governance. These advances broaden the range of questions IFs can help users examine, which underpins much of the work featured in this review: from gender equality and industrial development to environmental transformation, renewable energy, jobs, and long-term planning.

Exploring and Shaping International Futures guides users in comparing plausible pathways, testing assumptions, and thinking more clearly about national, regional, and global futures for today's world.



EXPANDING OUR USER BASE AND ENTRY POINTS

How can more people use IFs for long-term strategy and systems thinking?

IFs is open source, but meaningful access takes more than making the platform available. Users need a way into the platform, a working understanding of its assumptions and architecture, and practice translating questions that matter for planning, strategy, and public decision-making into structured, model-informed analysis.

This year, Pardee expanded that access in several directions, working through universities, policy spaces, and partner networks to build a broader community of practice around International Futures: people who can use IFs with enough skill and care to bring structure to questions about long-term risks, trade-offs, and opportunities.

IFs classroom instruction abroad.
In Serbia, Keith Gehring's Fulbright-supported teaching and public engagement introduced IFs to students, academics, practitioners, and broader audiences examining the country's long-term development choices. One participant modeled a Serbia that prioritized security as regional threats rose, shifting investment away from research and growth. Over time, the scenario showed a slower economy and a state less able to afford the security it had prioritized. The exercise helped turn a familiar national story into a testable long-term pathway.

As Gehring reflected, "Every audience already knew Serbia's story: strong schools, weak governance. What surprised them was seeing where that leads over 30 years, and what surprised me was that it surprised them."

IFs international workshops.
Pardee also advanced IFs learning through participation in the African Futures Conference and a workshop with Rwanda's National Council for Science and Technology that focused on the government's Vision 2050 strategy, described earlier in this review.

A new online IFs-based microcredential.
At the same time, the Institute launched *Strategic Forecasting with IFs*, a university-backed online microcredential designed to give professionals a structured path into the platform.

Together, these efforts expand entry points into IFs and grow a community of practice equipped to use long-term, integrated analysis in pursuit of a more knowable future.

Spotlight

STRATEGIC FORECASTING WITH IFs ARRIVES

We are excited to announce the launch of *Strategic Forecasting with International Futures (IFs)*, a fully online, self-paced learning program that equips analysts with the quantitative tools and practical skills to frame uncertainty through analyzing long-term continuity and change.

Many institutions face consequential decisions that must be made under near-term pressure, even when their full effects unfold over decades. The future cannot be predicted with certainty, but it is discernible. The Pardee Institute's International Futures (IFs) integrated assessment model helps extend the horizon of analysis, using empirically grounded scenarios to show how today's risks, trade-offs, and opportunities may evolve over time.

For decades, future-focused institutions and organizations, such as the U.S. National Intelligence Council, the UN system, and the African Union, have used IFs to structure analysis of possible longer-term development, geopolitical, and environmental futures.

And with this microcredential, others can build that capacity.

Course 1 | Introduces users to the IFs platform, trend analysis, simple scenario creation, and data analysis.

Course 2 | Lays the conceptual foundation for navigating the assumptions, structures, and theory behind IFs-based analysis.

Courses 3–5 | Detail the model architecture that connects human, social, and natural systems relationships in IFs.

By the end of the program | Learners will build practical skills to analyze long-term trends; compare scenarios under different assumptions; assess trade-offs across connected systems; communicate uncertainty and strategic implications; and use IFs outputs responsibly, with attention to assumptions, limits, and context.

KEY QUESTIONS FOR OUR DATA AND TOOLS

A collection of illustrative use cases

This year, our data and tools supported analyses spanning a range of issue areas, levels of analysis, and time horizons. These questions illustrate the range of inquiry Pardee's data and tools supported this year, both inside and outside the Institute.

How do technology and behavior change drive sustainable, equitable development?



How much does automation change the global employment outlook?

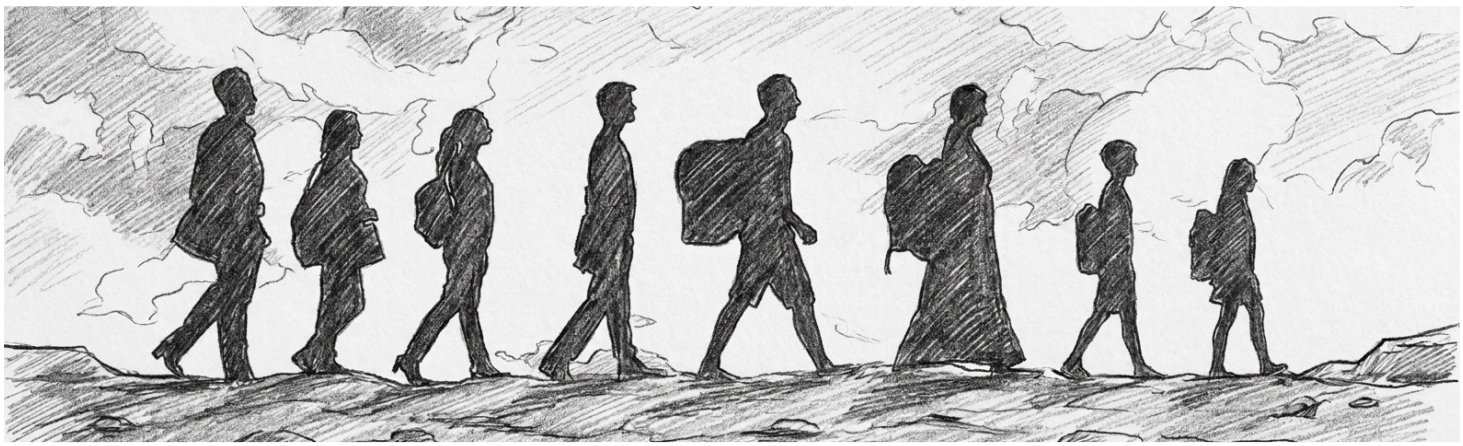
Can developing countries industrialize and reduce emissions at the same time?

Which systems most constrain long-term outcomes for women and girls?

Can technology change patterns of demographic decline?

How might climate change affect geopolitics through mitigation?

How can scenario planning identify policy leverage points across alternative futures?



How can multilateral mediation shape a country's global influence?

How can we test claims about foreign influence in Africa?

How could U.S. policy slow or accelerate China's rise in global power?

What does papal travel reveal about the Catholic Church's changing global footprint?

How does immigration policy affect national power?

What is changing in Germany's long-term global position and what does that mean for Europe's global role?



LOOKING TO THE HORIZON

Where can we go from here?

This year's work addressed the tension named in the director's letter: crises collapse time. They pull attention toward what is immediate, urgent, and visible, often making it harder to see the systems moving beneath them. Conflict, governance, technology, energy, environment, and human well-being can appear as separate stories, even as they shape one another over time.

The Pardee Institute helps widen the frame. Across development analysis, geopolitical data, scenario frameworks, IFs training, and expanded access, the Institute helped stakeholders look beyond immediate disruptions to connect the choices, systems, and effects that unfold over decades.

That work does not make the future predictable. It makes the future more discernible by giving people evidence, tools, and shared language to test assumptions, compare pathways, and build strategy with the long view in mind.

The work featured in this review sits within a broader year of research, convening, teaching, and public engagement. The pages that follow offer selected highlights from Pardee's events, presentations, awards, publications, and media uptake from September 2025 to August 2026.

Events, presentations, and awards

September 1, 2025 | IFs Network Diagram enhancements go live

September 9, 2025 | The ISS and Pardee explore Africa's development pathways in panel discussion with Korbel students

September 18, 2025 | Moyer presents on UNHQ global risk report at webinar launch

September 19, 2025 | Pardee receives DU seed funding to develop online IFs microcredential

October 6, 2025 | Pardee featured in DU research impact report

October 9, 2025 | Pardee launches Korbel *Lunch and Learn* research series with COLT

October 13, 2025 | Moyer and Meisel join Korbel's *Great Issues* foresight session

October 21, 2025 | Hanna participates in ISS-led African Futures Conference

November 21, 2025 | DU Advancement spotlights Pardee Institute for high-impact research

December 16, 2025 | Moyer presents on U.S. economic outlook at AMG Bank

December 31, 2025 | Meisel and Stimson's Burrows article ranks among *War on the Rocks'* most-read pieces in 2025

February 3, 2026 | Moyer delivers *Keeney Peace Lecture* at Bluffton University

February 4, 2026 | Pardee hosts *Charged for Change* report launch

February 5, 2026 | Pardee presents energy model insights at *Charged for Change Lunch and Learn*

February 12, 2026 | Pardee helps launch global Scenario Evolution Process (SEP)

February 25, 2026 | Pardee wins DU Research Impact Award

March 1, 2026 | Gehring awarded Fulbright for IFs-based training abroad

March 19, 2026 | Moyer presents on SDG 9 and the reshoring trap in lecture series

March 28–June 6, 2026 | Gehring teaches "Modelling Global Futures" at the University of Belgrade

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Events, presentations, and awards continued

March 30, 2026 | Moyer brings long-term lens to Colorado Climate Week higher ed panel

April 12, 2026 | Meisel presents global power research at the Federation of German Industries and German Federal Foreign Office

April 17, 2026 | Moyer and Kunz join Korbel's *Reimagining Africa's Future* panels

April 30, 2026 | Pardee hosts *Lunch and Learn on SEP* for Korbel research seminar

May 5, 2026 | Hanna leads IFs training for Rwanda's National Council for Science and Technology

May 28, 2026 | Gehring guest lectures at University of Osijek (Croatia) on IFs

June 12, 2026 | Moyer joins World Economic Forum foresight gathering

June 19, 2026 | Gehring hosts workshop on modeling Serbia's development futures

June 30, 2026 | Pardee co-hosts SEP webinar sharing early signals on scenario evolution

June 30, 2026 | Gehring joins AI Ability 2026, an international conference on artificial intelligence, as a panelist

July 6, 2026 | Gehring presents on Serbia's long-term development

July 9, 2026 | Gehring models Serbia's political and economic trajectories for the U.S. Embassy in Belgrade

July 24, 2026 | Gehring explores futures without population growth at American Resource Center in Belgrade

August 11, 2026 | Gehring guest lectures on IFs at Belgrade Institute of Economic Sciences

August 27, 2026 | Moyer joins WEF discussion on frontier AI and cybercrime



Publications and media mentions

BOOKS AND BOOK CHAPTERS

December 9, 2025 | Moyer, Hanna, and others co-author chapters in *Global Environment Outlook 7*

March 17, 2026 | Moyer and Meisel publish chapter on climate and international relations in *Handbook on the Geopolitics of Sustainability*

June 5, 2026 | Founding director Hughes publishes the fifth edition of *Exploring and Shaping International Futures*

COMMENTARIES

August 21, 2025 | Meisel examines Africa's "China challenge"

September 9, 2025 | McKee and Meisel share COLT insights with the public in *The Conversation*

May 11, 2026 | Meisel examines immigration and U.S. power in *The Hill*

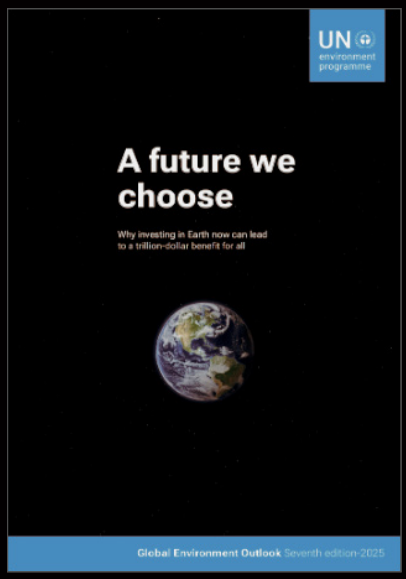
June 11, 2026 | Meisel analyzes U.S. demographic change for Megatrends Afrika

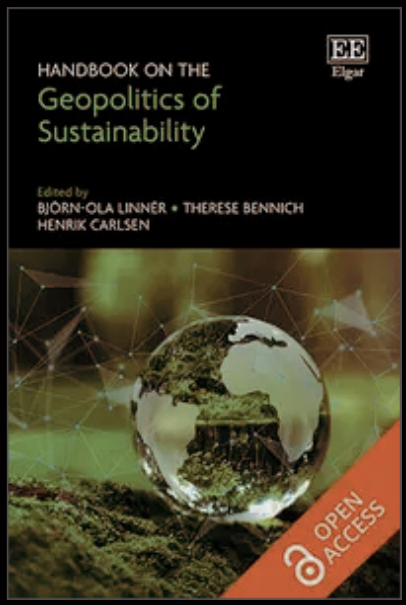
August 26, 2026 | Meisel explores what a "mini-polar" future could mean for Africa and Europe

JOURNAL ARTICLES

July 24, 2026 | *Nature Communications* article presents IFs-based SSP projections to 2150

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Publications and media mentions continued

MEDIA MENTIONS

November 28, 2025 | *AFP* features COLT data in papal travel coverage

December 11, 2025 | *Expresso* examines Germany's changing power position

December 23, 2025 | *Expresso* covers U.S. power and China's rise using the Global Power Index (GPI)

December 25, 2025 | *Expresso* explores U.S. power under Trump using GPI

April 12, 2026 | *SAIS Review* features Pardee influence datasets

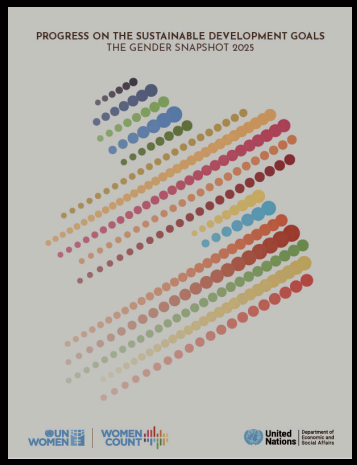
August 17, 2026 | *Foreign Affairs* article on Africa's demographic opportunity cites IFs

REPORTS AND BRIEFS

September 15, 2025 | UN Women releases *Gender Snapshot 2025* with Hanna as a contributor

November 26, 2025 | UNIDO launches Industrial Development Report 2026 with Pardee-informed analysis

March 23, 2026 | UNIDO publishes future of jobs policy brief co-authored by Hanna





Acknowledgments

This annual review reflects the work of many people across the Pardee Institute. Pam Hoberman led the report's content design and development. Jonathan Moyer, Collin Meisel, Taylor Hanna, Peter Stansbery, and Megan Livengood contributed as co-authors. AI-assisted tools supported drafting, editing, organization, and creative development under Pardee team oversight.

The core team listed here enabled the research, operations, partnerships, data systems, communications, and platform development that shaped this year's work.



Divya Sravani Bandi | Systems Developer

Janet Dickson | Senior Advisor

Keith Gehring | Affiliated Faculty

Taylor Hanna | Director of Research Development (formerly, Associate Director of Development Analysis)

Pam Hoberman | Director of Operations

Barry Hughes | Senior Scientist and Founding Director

Abdelrahman "Bido" Ibrahim | Research Associate

Mohammod Irfan | Senior Scientist

Samantha Kunz | Senior Research Associate

Kylie McKee | Research Associate and Program Manager

Collin Meisel | Director of Analysis

Jonathan Moyer | Director

Caleb Petry | Model Development Researcher

Deva Sahadevan | Senior Research Associate

José Arevalo Solórzano | Lead Systems Developer

Peter Stansbery | Grants and Business Manager

Yutang Xiong | Lead Data Operations Manager

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Acknowledgments continued



Students are central to Pardee's research model. Across roles, our Research Aides (RAs) strengthened the data, tools, analysis, and communication that make long-term research usable.

This year, as part of the IFs Resource team, Pardee Fellows supported the infrastructure that keeps IFs robust and useful by cleaning datasets, updating model inputs, testing scenarios, reviewing literature, interpreting results, and contributing figures, tables, and written analysis for deliverables.

RAs advanced the COLT and Core Diplometrics datasets through source research, data cleaning, coding, web scraping, treaty harmonization, and diplomatic representation tracking. Marketing and Communications students helped translate and promote Pardee's work for wide-ranging audiences across a variety of platforms.

We extend a special thanks to our student team leads who helped supervise this work:

COLT
- Hamzah Clark
- Em Loeber
- Frederica Manno
- Trever Paulus
- Anna Rehm
- Jacob Tonozzi
- Anna Zapata
- Vincent Ziliak

Core Diplometrics
- Oluwatoyin Alaba
- Elijah Kruger
- Maya Rai

Data Updates
- Norah Shamin

Fellows
- Ethan Sullivan

Marketing and Communications
- Brittany Porte

"We believe that the future is unpredictable but also discernible through the study of long-term, durable trends and systems thinking."

Josef Korbel School of
Global and Public Affairs
UNIVERSITY OF DENVER

Frederick S. Pardee Institute
for International Futures

DATA, TOOLS, AND ANALYSIS FOR A MORE KNOWABLE FUTURE.

To view recent work, learn more about IFs, or stay connected to future releases, visit www.pardee.du.edu.