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CREF Snapshots
22 months into the launch of Penn China Research & Engagement Fund (CREF), the program is witnessing sustained interest from Penn faculty members across the 12 Schools in understanding China through increasingly multifaceted engagement with and research on dynamic developments of the country. When the Provost launched the CREF Fund, the goals were:

- To highlight the Penn Wharton China Center as a preeminent space in China for knowledge exchange and professional consultation;
- To develop new, or strengthen existing, institutional and faculty-to-faculty relationships with Chinese partners;
- To support outstanding research projects from across the University that are poised to make significant contributions to their field;
- To increase the study and understanding of China at Penn and create opportunities for meaningful student engagement.

As of January 2017, CREF has supported a total of 25 projects at a funding level of approximately 4.85 million, enabling collaborations with over 55 unique Chinese institutional partners and 16 organizations located around the world. Moreover, the Fund is making impressive progress toward its four-fold goals.
II. Funding Overview

Total Funds Disbursed: $4.85 Million

- Provost Office: $2.45 Million
- Matching Funds: $2.4 Million
- Penn Partners: $1.36 Million
- China Higher-Education Partners: $0.1 Million
- Non-China Higher-Education Partners: $0.04 Million
- External Sources: $0.86 Million
- Other: $0.04 Million

Distribution of Funds by Principal Investigator's School

- SAS: 29%
- Design: 16%
- Vet: 13%
- Law: 12%
- Wharton: 12%
- Engineering: 5%
- Medicine: 5%
- Annenberg: 4%
- Dental: 3%
- SP2: 2%
- Nursing: 1%
Amount of Funding by Principal Investigator's School

Amount of Funding

Number of Programs

<table>
<thead>
<tr>
<th>School</th>
<th>Programs</th>
<th>Amount of Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS</td>
<td>8</td>
<td>$1,427,389</td>
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<tr>
<td>Design</td>
<td>3</td>
<td>$772,473</td>
</tr>
<tr>
<td>Vet</td>
<td>2</td>
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</tr>
<tr>
<td>Wharton</td>
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<td>Law</td>
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<tr>
<td>Medicine</td>
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</tr>
<tr>
<td>Engineering</td>
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</tr>
<tr>
<td>Annenberg</td>
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</tr>
<tr>
<td>Dental</td>
<td>1</td>
<td>$163,107</td>
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<tr>
<td>SP2</td>
<td>1</td>
<td>$119,623</td>
</tr>
<tr>
<td>Nursing</td>
<td>1</td>
<td>$49,629</td>
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</tbody>
</table>
Total Funding by Subject Areas

- Health and Healthcare: 38%
- Chinese Urban Development: 18%
- Innovation and Technology: 15%
- Chinese Business and Political Economy: 15%
- Media, Culture and Humanities: 14%
Distribution of CREF Projects' Collaborators

- Chinese Academic Institutions: 35
- Chinese Governmental Institutions: 1
- Private Organizations in China: 10
- Chinese Hospitals: 4
- International Partners: 15
- Penn Partners: 18
Matching Fund Sources

Penn 57%

External 36%

Higher Education (China) 4%
Higher Education (non-China) 1%
Other 2%
In its first two annual funding cycles, CREF has supported projects that will generate impact on multiple dimensions for both the Penn community and Chinese society. From creating cutting-edge China-related knowledge and insights for Penn, to offering opportunities for Penn students to travel to China and experience the country’s complex developments firsthand, to addressing issues of the highest priority in China, projects funded by CREF are steadily meeting goals that the Fund set out to achieve.

| **CREF Impact Summary**  
<table>
<thead>
<tr>
<th><strong>(as of October 2016)</strong></th>
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<tbody>
<tr>
<td><strong>25</strong></td>
</tr>
<tr>
<td>Total proposals supported</td>
</tr>
<tr>
<td><strong>55+</strong></td>
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<tr>
<td>Unique Chinese institutions</td>
</tr>
<tr>
<td><strong>16</strong></td>
</tr>
<tr>
<td>International organizations proposed as collaborators</td>
</tr>
<tr>
<td><strong>123</strong></td>
</tr>
<tr>
<td>Different events held at PWCC</td>
</tr>
<tr>
<td><strong>7,271</strong></td>
</tr>
<tr>
<td>Event attendees at PWCC to date</td>
</tr>
<tr>
<td><strong>90</strong></td>
</tr>
<tr>
<td>Students (estimated) will have opportunities to travel and study in China through student programs</td>
</tr>
<tr>
<td><strong>8</strong></td>
</tr>
<tr>
<td>New courses at Penn proposed</td>
</tr>
<tr>
<td><strong>10+</strong></td>
</tr>
<tr>
<td>Research papers to be published in first two years</td>
</tr>
</tbody>
</table>
I. CREF Projects on Health and Healthcare

Awareness of health issues and demand for health care have increased rapidly in China concomitant with increase in disposable income. Supply can hardly keep up with demand, and the system struggles with shortfalls in trained medical professionals at every level. At the same time, entrenched distrust permeates the healthcare sector, with frequent reports of extortionary practices at hospitals and even episodes of violence against doctors. At the same time, limited career mobility of doctors and excessive reliance on public hospitals have left many in the profession demoralized. Complicated further by deterioration in air quality in many Chinese cities and significant distrust of the food supply chain, public health issues are regarded by both Chinese citizens and the Chinese government as a top challenge to tackle. Improving healthcare delivery is a critical part of China’s Thirteenth Five-Year Plan (2015-2020).

With its time-honored interdisciplinary approach to address health issues in society and cutting-edge research in human and animal health, Penn is in a strong position to address complex health issues in China and help shape the future landscape of Chinese healthcare through Penn CREF.

Tackling Issues of Foremost Attention and Interest

Penn CREF projects take on public health issues of the highest priority to both the Chinese public and the Chinese government. Professor Jere Behrman (SAS), for example, in collaboration with Guangdong Children and Women’s Hospital, is leading an interdisciplinary team of experts in fields of medicine, psychology, and economics, to conduct a ground-breaking study that examines the effect of air pollution on fetal and infant development. Results of the study will not only generate new theories on health consequences of air pollution, but also shed light on the economic cost of pollution on Chinese labor productivity.

Improving Quality of Chinese Healthcare Delivery

Penn faculties are also dedicated to improving quality of Chinese healthcare delivery by offering world-class clinical and research training for Chinese medical professionals.

Dr. Syngcuk Kim (Dental) and Dr. Rosemary Polomano (Medicine) are leading two teams of Penn experts to offer professional training for Chinese practitioners in dental care delivery and pain education, respectively. These training programs not only target under-developed areas of Chinese healthcare to equip Chinese professionals with knowledge powered by leading research in the field, but also aim at generating sustainable impact by providing Chinese medical professionals with long-term guidelines, assessments, and protocols to enable quality healthcare delivery after the training.

Healthy and Efficient Food Production

In the field of animal health, Professors Dr. David Galligan and Dr. Thomas Parsons (Vet) are designing customized training programs for Chinese dairy and pork production experts. The programs are tailored specifically to address pressing challenges in the Chinese context, from improving reproductive efficiency, to mitigating environmental concerns from manual treatment, to addressing food safety and animal health concerns. To date, Dr. Galligan has delivered training programs to scientists and veterinary professionals.
representing over a million dairy cows, and is expecting to achieve a 12% improvement in yield per cow over the three-year period of the project.

**Flexibility to Accommodate Local Conditions and Realities**

In their research projects in China, Penn CREF recipients demonstrate considerate responsiveness to local partner’s needs and flexibility to adjust their projects to reflect local realities. Dr. Irene Wong’s (SP2) project on challenging mental health stigma in rural China not only invited more families than planned to the study to increase the project’s relevance to local communities, but also established a Community Advisory Board that includes key local stakeholders, from Chinese academic partners to members of the local government, to ensure compliance with local regulations and openness to local feedback. Similarly, after discovering higher-than-expected interest in learning more about performing cardiac MRI, Dr. Yuchi Han (Medicine) expanded her project to include three more Chinese hospitals in her training program (see “Exemplary Project at a Glance”). To gain an in-depth understanding of current production and health problems in Chinese dairy farms, Dr. Galligan spent a week visiting different herds in China to observe local conditions and engage in conversations with local managers and technicians.

II. CREF Projects on Chinese Business and Political Economy

With China now a key trade partner in virtually all markets, the recent slowdown in the Chinese economy has generated widespread concern not only domestically
but also in political and financial capitals around the world. Restructuring and rebalancing the Chinese economy to achieve sustainable growth, therefore, is a topic of global significance. With distinguished faculty members and extensive resources in the field of emerging economies and economic development, Penn is poised to address China’s growth issues and generate critical insights for a variety of stakeholders interested in a healthy Chinese economy.

Understanding Ownership Reform of SOEs

With funding from Penn CREF, a Wharton team led by Professor Marshall Meyer is delving into key questions of the next round of reforms of Chinese State-Controlled Enterprises (see “Exemplary Project at a Glance”). By partnering with Sinopec, a giant state petroleum company that has implemented a pilot mixed ownership project, the team aims at addressing key questions of China’s SOE reform such as the impact of state control on firm performance and evaluating alternative paths to SOE reform. The project is also conducting the first comprehensive analysis of China’s foreign investment policy and exploring the correlation of foreign ownership of Chinese firms and their performance, which will generate important implications on multinational corporations in China and provide further insights on China’s SOE reforms.

New Perspectives on the Past and Future of Chinese Economy

Professor Hanming Fang (SAS) takes a more granular approach to understand the Chinese economy at the provincial level, examining disparities in economic development within China. His research is also groundbreaking in that he attempts to empirically evaluate the impact of political factions and local accountability on provincial economic performance. The interdisciplinary project not only opens a new

Exemplary Project at a Glance:
Ownership Challenges and the Next Round of Reform of Chinese State-Controlled Enterprises

Principal Investigators: Marshall Meyer, Professor Emeritus of Management and Sociology
Co-Principal Investigators: Ann Harrison, Professor of Management and Professor of Business Economics and Public Policy; Minyuan Zhao, Associate Professor of Management; Linda Zhao, Professor of Statistics
School: The Wharton School
Project Goals: To understand ownership reforms in China, specifically (1) the next round of reforms—if and when it comes—of Chinese state enterprises, (2) the changing policy environment for foreign invested companies, and (3) the changing Chinese innovation environment and its implications for domestic and foreign companies
Key Deliverables: Construction and analysis of two datasets on firms in China; field work in several State Owned Enterprises (SOE) designated as pilot “mixed ownership” reform enterprises; 1 large conference in PWCC accompanied by 1 workshop intended for business and policy communities relevant to SOE reforms
Societal Impact:
- Targets challenges in ownership reform of Chinese SOE, one of the top priorities in China’s economic reforms that aim to reducing inefficiencies of SOE
- Examines China’s foreign investment policy thoroughly, which has significant implications for multinational corporations doing business in China
- Will generate significant insights on the effectiveness of mixed ownership reforms of SOE and address its applicability as a model for future of SOE reforms
- Assesses the innovation environment in China and its implications on domestic and international companies as China aspires to transition into an innovation-based economy
Educational Impact:
- Cleans up China Annual Industry Survey (AIS) datasets and merges it with publicly available datasets (i.e. intellectual property, foreign investment) to enable research on much more diverse topics for Penn
- Generates innovative insights on (1) policy concerns regarding restrictions of foreign ownership, and (2) consequences of state control on firm performance
Impact for Penn in China:
- Increases Penn’s contribution to understanding of China’s SOE reform.
- Establishes Penn as a reliable partner for advices on alternative path of SOE reform through workshops and conferences including SASAC (State Assets Commission) officials and prominent Chinese state enterprises

Exemplary Project at a Glance:
Ownership Challenges and the Next Round of Reform of Chinese State-Controlled Enterprises
possibility of incorporating political science perspectives in studying China's economic development, but also might generate important insights on addressing China's regional developmental inequalities.

Besides understanding China's economy in a contemporary context, Professor Jesus Fernandez-Villaverde's (SAS) Penn CREF project focuses on interactions between the Chinese economy and the world from a historical standpoint that has rarely been pursued by other scholars. In breaking with the old Eurocentric view of economic history, Professor Fernandez-Villaverde re-evaluates the important role China has played in the world economic development over centuries and addresses the important question of why China's economic leadership fell to backwardness in just a few centuries. Insights from his research will not only develop into a Benjamin Franklin seminar at Penn on China's role in global economic history, but also produce an unprecedented global economic history textbook that significantly incorporates China.

III. CREF Projects on Innovation and Technology

Innovation repeatedly appears as one of the central themes of Chinese government’s 13th Five-Year Plan, and it is clear that understanding innovation in the Chinese context is integral to the study of the contemporary Chinese society. Not only has China witnessed skyrocketing needs in developing state-of-the-art technologies to fuel its economic growth and become a global innovation powerhouse, it also has put increasing focus on creating a fertile ground for innovation.

Technological Innovation in the Chinese Context

From robotics to airport planning, Penn professors are harnessing the power of innovation to address challenges that have significant societal impact. Professor Jianbo Shi’s (SEAS) project, for example, collaborates closely with Chinese counterparts to leverage Penn Engineering’s cutting-edge research in robotics and machine learning to develop technologies particularly suited for development in China, from automated movement, to bio-inspired materials, to application of automation in rehabilitation. His project will not only enable Penn to sync up with China's technological innovation landscape, but also broaden Penn's educational impact to hundreds of Chinese graduate students through a co-organized summer school on robotics with China's Academy of Science.

Meanwhile, Professor Megan Ryerson’s (Design) project (see “Exemplary Project at a Glance”) strives to create innovative airspace design to address China's frequent air traffic congestion and challenges of developing airports in areas with hostile geographies and climate. Beyond tackling current challenges through innovation, her project also looks ahead into the future of China's development by designing urban air traffic control for drone delivery system in anticipation of Chinese booming usage of drones in the urban airspace.

Deciphering the Innovation Environment in China

Besides active involvement in developing innovative technological solutions in China, Penn CREF projects examine the general environment of innovation in China. By conducting comparative research with key Chinese legal scholars on comparing Chinese anti-monopoly law with regulations in the U.S. and the European Union, Professor Christopher
Yoo (Law) helps increase Penn’s presence in discussions shaping the future of Chinese competition law, which is key to the development of the necessary infrastructure for China’s healthy transition into an innovation-based economy. Professor Minyuan Zhao (Wharton), through analyzing employee mobility of IT professionals in China, strives to understand the booming phenomenon of employee entrepreneurship in China and its implications on business strategies and policies that affect innovation.

IV. CREF Projects on Chinese Urban Development

About 763 million Chinese live in cities according to data from World Bank, and McKinsey Global Institute predicts that China’s urban population will reach 1 billion by 2030. With such an unprecedented scale of urbanization, challenges from excessive energy consumption, to soaring housing prices, to insufficient provision of municipal services are likely to surface. As an institution that prides itself on interdisciplinary approach to address complicated urban issues, Penn is in a uniquely strong position to collaborate with Chinese partners to tackle the most pressing issues facing China’s urbanization.

Tackling China’s Biggest Urban Challenges

Penn Design’s ambitious China Research Program adopts a whole-of-school approach that draws on strengths from various Schools and departments at Penn to tackle the most pressing urban development issues that concern Chinese designers and policy makers. At its core, the project asks how Chinese cities can more effectively maximize the benefits and reduce social and environmental costs of accelerated modernity. Penn Design has developed an extensive, collaborative network of design schools, planners and designers to
examine critical issues that are shaping the lived experience in China today and for future generations (see “Exemplary Project at a Glance”).

To evaluate the macroeconomic impact of China’s urbanization on its economic development, Wharton Professor Susan Wachter is examining historical urban development in China and analyzing real estate price indices in China’s growing urban areas. Her research sheds light on the connection between rapid urbanization and real estate outcomes, an issue at the heart of China’s economic wellbeing as China grapples with overcapacity in the real estate sector and threats of a looming housing bubble.

## Urban Development Projects at a Glance

- **Number of CREF Projects:** 3
- **Total Funding:** $0.87 Million
- **Key Penn Schools:** Penn Design, Wharton, Arts & Sciences (SAS)
- **Key Chinese Partners:** Tsinghua University, Beijing Foreign Language University

### Exemplary Project at a Glance: The Penn Design China Research Program

**Principal Investigators:** Marilyn Jordan Taylor, Professor of Architecture and Urban Design, former Dean

**Co-Principal Investigators:** Richard Weller, Martin and Margy Meyerson Chair of Urbanism and Professor and Chair of Landscape Architecture; John Landis, Professor in the Department of City & Regional Planning; Stefan Al, Associate Professor of Urban Design; Randy Mason, Professor and Chair of the Graduate Program in Historic Preservation and Executive Director of PennPraxis; Nancy Davenport, Assistant Professor of Fine Arts, Photography

**School:** School of Design

**Project Goals:** To engage with pressing issues in China’s urban development over the course of the next decade

**Key Deliverables:** 2 roundtables, 2 design studios, 4 research seminars, 4 symposia, 2 dean’s forums at the PWCC

**Societal Impact:**
- Aims at addressing most pressing issues identified by key Chinese stakeholders in China’s booming urban development
- Establishes a sustainable platform for knowledge and information sharing to address how findings in China might be applied elsewhere in the world

**Educational Impact:**
- 4 research seminars and 2 design studios to be delivered at Penn and China (Tsinghua, Tongji, and Peking University) through close collaboration between Penn faculties and their China counterparts, focusing on topics from China’s urban preservation to the application of urban information technologies to construct intelligent cities in China
- Extensive engagement with local students and Chinese urban development landscape during research seminars and design studios, with hands-on projects on preservation of historic neighborhoods in China

**Impact for Penn in China:**
- Establishes Penn as a leader in long-term engagement with the academic, creative, and practical challenges of China’s urban development
- Frequent Penn Design symposia, roundtables, and forums in China position PWCC well as “the preeminent space for knowledge exchange”

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### A Tale of Two Capitals

CREF’s funding also allows Penn faculty to take their students to examine urban development by immersing themselves in China’s cities and exchange opinions with leaders from a variety of fields in China’s urban development. In May 2016, Chinese Language Program Director Mien-hwa Chiang and David Dettmann from Penn’s Center for East Asian Studies and the American Center of Mongolian Studies co-led a successful
two-week short term study abroad program comparing urban development in Ulaanbaatar and Beijing titled "A Tale of Two Capitals". The intensive short-term program not only enhanced students' language skills and cultural exposure, but also allowed them to comprehensively compare development of Beijing and Ulaanbaatar to understand the complexities and cultural, political context of urban development.

V. CREF Projects on Media and Culture

Booming interest in understanding China's culture has accompanied China's ascendance as a prominent player on the global stage. Meanwhile, scholarly attention shifted from understanding the impact of China's traditional culture to fathoming the contemporary landscape of Chinese culture, which includes online cultural life, social media, and unique experiences of Chinese society associated with these new phenomena.

Understanding the Contemporary Chinese Cultural Landscapes

Professor Guobin Yang's (Annenberg) "Pennovation Media Scholars" project strives to enhance Penn students' knowledge of and interest in the contemporary media landscape of China by engaging in field research on China's major media institutions and internet giants (see "Exemplary Project at a Glance"). The project not only improves students' understanding of China's contemporary media landscape and its influence in shaping Chinese culture, but also allows them to examine the social and political implications of evolving technologies and communication methods in China.

Professor Mark Liberman's (SAS) project delves into the intriguing linguistic diversity by analyzing variation in standard, regional and minority languages, which would hopefully contribute to China's effort to preserve non-standard dialects; his project also strives to improve the efficiency and validity of China's Standard Chinese language test by using "Big Data" methods to construct a database that documents the speech of today's Chinese young people in unprecedented detail and scale.

Understanding China's Cultural Interaction with the World

Professor Kathryn Hellerstein's (SAS) CREF project, on the other hand, takes a new look into China's culture by examining its interaction with other cultures. By examining 120 years of cultural exchange between China and Ashkenazic Jewry in Europe, Israel, and America, Professor Hellerstein advances knowledge on the depth, subtlety, and complexity involved in communicating commonality and difference and trying to arrive at mutual understanding between two distinct cultures, shedding light on issues of cultural exchange and translation that are central to a contemporary global dialogue.
Principal Investigators:
Guobin Yang, Associate Professor

School: Annenberg School for Communication and School of Arts and Sciences (Department of Sociology)

Project Goals: To bring 16 competitively selected Penn undergraduates on a study tour in China to help Penn students develop first-hand understandings and experiences of a rapidly growing, global media industry and its broader social and political ramifications

Key Deliverables: 1 credit-bearing 4-week summer institute in Beijing and Hangzhou; 1 international symposium on recent trends of media developments in China

Societal Impact:
• Serves as a platform for debating cutting-edge ideas on media and communication in China

Educational Impact:
• Introduces innovative pedagogies into Penn’s curriculum, from site-visits (from CCTV, Alibaba to local internet bars and e-commerce villages), field research, to hands-on projects
• Provides authentic “real-world” understanding of the complex Chinese media landscape through extensive opportunities for students to interact with end users of Chinese media, media professionals and government officials
• Allows for diverse perspectives and sharing of unique local knowledge by admitting student from Chinese partner universities

• Enhances undergraduate students’ global engagement through on-site learning in China

Impact for Penn in China:
• Enhances Chinese companies’ understanding of Penn and Penn Students, opens up potential collaborative opportunities between these companies and Penn
• Brings interested Penn faculty in the Annenberg School, the Department of Sociology and beyond into closer contact with Chinese researchers, industry leaders, and policy-makers.
• Spreads awareness of Penn through local media coverage and popular Chinese social media (wechat)

Exemplary Project at a Glance:
Pennovation Media Scholars in China
Looking Ahead

With three years remaining in the initial program of Penn China Research and Engagement Fund, it is a key time to think about how we can create more sustainability for Penn’s China engagement through CREF. Looking at the first two years of the CREF program, we can begin to draw some important preliminary conclusions and identify areas of focus or challenges going forward. First, we are witnessing a diverse set of Penn projects that organically cluster into the key areas outlined above. Second, while there has been broad distribution of Schools’ participation in Penn CREF to date, we want to ensure that we continue to reach a diverse and engaged group of faculty from multiple disciplines. Third, we want to stay focused on promoting research and other engagement initiatives, such as curricular, extracurricular, professional development, service-learning that give Penn students more access to the PWCC and align student opportunities with Penn’s research more directly. We look forward to pursuing these objectives in the coming years.
Prenatal Ambient Air Pollution and Fetal and Child Development in South China
(School of Arts and Sciences) This project will investigate the impact of high levels of air pollution on pregnancy and birth outcomes in China through conferences at the PWCC and Penn, which will produce scholarly volume(s), engage students and faculty at Penn, and reach wider policy and public audiences.

A Tale of Two Capitals: A Comparative Study of Development in Beijing and Ulaanbaatar
(School of Arts and Sciences) A one-year project offering an 18-day short-term study abroad program in Beijing, China and Ulaanbaatar, Mongolia, this project will provide ten fellowships for Penn students to continue learning Chinese speaking skills and literacy, and to study the development of two rapidly changing capitals.

The United States, China, and International Law (Penn Law) Today, the rise of new powers poses challenges to and opportunities for the status quo legal order and its capacity to address international economic, political, and other problems. This project brings together leading scholars from the U.S. and China to examine these issues, challenges and opportunities through conferences at the PWCC and Penn.

China in the Global Economic History (School of Arts and Sciences) This project will focus on the development of an innovative book on global economic history that spans from 1405 until today. The book will examine the key importance of institutional differences in legal systems among China, India, and Europe, and consider the interconnections between institutions, economics, and the environment.

Improving the Productive and Health Efficiency of the Chinese Dairy Industry (School of Veterinary Medicine) This project will focus on developing an integrated training program for upper level dairy managers over a three year period with three specific focus areas: Year (1) Nutritional Production Efficiency, (2) Reproductive Efficiency, and (3) Animal Health and Milk Quality.

New Horizons in East Asia (Wharton & Lauder Institute) The Lauder Institute intends to highlight significant curricular changes in the International Studies degree program. Lauder will pilot new curriculum development in the East Asia region, bringing together partners from the region to explore historic, current and future challenges related to East and Southeast Asia. Our project also supports faculty collaborations in support of coursework for the new curriculum and seed-money to begin an intercultural immersion for non-East Asia Program students.

Penn China Cardiovascular Imaging Project (Perelman School of Medicine) In China, the utilization of advanced cardiovascular imaging modalities for the diagnosis and treatment of complex cardiovascular disease is not well developed. This project uses a multi-faceted strategy (e.g., training and research), in collaboration with the cardiology departments in China (PLA General Hospital and Peking Union Medical Center Hospital) to address this problem.

Advancing Dental Research and Clinical Practice in China (School of Dental Medicine) Since 2010, Penn Dental Medicine (PDM) has been actively engaged in academic institutions and private dental care organization in China. The current PDM project will support high-level research Symposia on Bone, Biofilm and Stem Cells.

Linguistic Diversity in China (School of Arts and Sciences & Linguistic Data Consortium) The Linguistic Data Consortium (LDC) will extend its initiative on linguistic diversity in China, with specific emphasis on the documentation and analysis of variation in standard, regional, and minority languages. In particular, this project will conduct efforts under three interrelated headings: The Putonghua Test, Tone in Chinese Languages, and Language Change in China.
Ownership Challenges and the Next Round of Reform of Chinese State-Controlled Enterprises (Wharton)
The team will conduct a research program on ownership reforms in China. The program will focus on the next round of reform—if and when it comes—of Chinese state enterprises; the changing policy environment for foreign invested enterprises; and the changing Chinese innovation environment and its implications for domestic and foreign enterprises.

Building Capacity for Interprofessional Pain Education and Evidence-based Practice to Improve Perioperative Pain Care in China (School of Nursing)
The team will implement a 2-year project that engages Chinese colleagues in a partnership program to advance perioperative pain management and patient safety in China through interprofessional pain education and practice-based research.

Duration (School of Design)
Duration will explore Penn’s historic connection with Chinese architecture and our influence on the region over the years. The goal of the exhibit - through the exhibition and its fabrication - is to make evident the changes in societal influences and the development of Chinese architecture in China and its export to the West having an economic and cultural impact abroad.

The PennDesign China Research Program (School of Design)
In March 2015, Penn Design brought together 23 Deans, Professors and CEOs representing China’s top design schools and design firms for a day-long roundtable. The predominant research question to emerge from the "Coordinates" roundtable and now the overarching research question of this initial 2-year research funding application is “How can Chinese cities more effectively maximize the benefits and reduce the social and environmental costs of accelerated modernity?”

The Rise of the City in China (Wharton)
In conjunction with the Guanghua School of Management of Peking University, Penn IUR will conduct a research project that will focus on: the historical development of cities in China and metrics of urbanization including price indices; the financing of sustainable urban development in China and internationally; and urbanization in China and lessons learned for economic development.

Community in-Alliance for Recovery: Challenging Mental Health Stigma in Rural China (School of Social Policy and Practice)
Building on the expertise of a multi-disciplinary team of researchers in the fields of health communication, psychiatry, social administration and social work, the goal is to design, evaluate, and disseminate a family-based health messaging intervention to reduce stigma of mental illness among the general public in rural China.

Penn Media Scholars in China (Annenberg School for Communication)
Penn Media Scholars in China (PMSC) aims to bring 16 competitively selected Penn undergraduate students to China in 2017 and 2018 for a credit-carrying 4-week Summer Institute conducted in Beijing and Hangzhou.
Political Factions, Local Accountability and Economic Performance: Evidence from Chinese Provinces (School of Arts and Sciences).
This project will investigate the role of political factions and local accountability in explaining the variations in economic performance across counties in different provinces in China.

The New East Asia (The Lauder Institute).
In 2017, the program will expand its current coverage of Japan, China, and South Korea to include Southeast Asian countries such as Singapore. Penn CREF will support a symposium on integration of East and Southeast Asian economies, a summit on past and future challenges in East and Southeast Asia, and research and academic collaborations with partner institutions to build the curriculum.

China and Ashkenazic European Jewry: Transnational Encounters (School of Arts and Sciences).
The project aims to study 120 years of cultural exchange between China and Ashkenazic Jewry in Europe, Israel, examining the depth, subtlety, and complexity of what happens when writers grapple with communicating commonality and difference and trying to arrive at mutual understanding.

SEAS Global Immersion in China (School of Engineering and Applied Science).
Penn Engineering aims to develop an embedded course in 2017 for 15 undergraduate students to travel to Beijing and Shanghai for almost two weeks. The global immersion course aims at exposing Penn students to rapid technological development and business environments in China, and connect them with Chinese business leaders, educators and Penn alumni.

Improving the Productivity, Efficiency, and Sustainability of Chinese Pork Producers (School of Veterinary Medicine).
The US and China face questions about a sustainable model of pork production as societal concerns evolve regarding environment impact, antibiotic use, and animal welfare. The project aims to address these questions by hosting educational summits with leading swine academics, establishing a sustainability research exchange for Chinese students, and conducting an in-depth study on sustainability in the Pennsylvania Pork Industry.

Planning for Large-Scale Aviation Growth on the Ground and in the Air in China (School of Design).
This project will focus on researching challenges that airport planners and government officials face when developing new airports and redesigning complex airspaces to accommodate new air traffic, and address uncertainties that Chinese airlines face when launching new international aviation services.

Symposium and Summer School on “Pattern Recognition and Human Centered Robotics” (School of Engineering and Applied Science).
Penn Engineering plans to host an annual symposium and summer school at the PWCC to develop international engineering partnerships through robotics.

The project will compare Chinese anti-monopoly law and policy with both EU competition and U.S. antitrust law and policy.

Employee Mobility and Employee Entrepreneurship in China (Wharton).
This project will disentangle multiple factors that lead to employee mobility and employee entrepreneurship, using a newly available dataset on IT professionals in China. It will also analyze the implications for business strategy and economic policies.