

Research, Innovation and Impact

FACULTY SENATE



BETSY CANTWELL

December 7, 2020



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Director, Communications

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Director, Sponsored Projects – Contracting Services

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Director, Sponsored Projects – Post Awards

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& Occupational Health

TAREN ELLIS LANGFORD
Director, Conflict of Interest

KAY ELLIS
Director, University Export Control Programs

SCOTT PRYOR
Manager, Training Program & Research Integrity Officer

DIRECTOR
University Animal Care

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Director
The Forge

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Assistant Vice President
Tech Launch Arizona

SANGITA PAWAR
Vice President, Operations
Research, Innovation and Impact

CAROL STEWART
Associate Vice President
Tech Parks Arizona

CENTERS & INSTITUTES

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Arizona Institutes for Resilience:
Solutions for the Environment and Society

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Director, BIO5

JOAQUIN RUIZ
Director, Biosphere 2

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Director, Confluencecenter for Creative Inquiry

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Director, Data Science Institute

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and Transgender Studies

JONATHAN SPRINKLE
Director, Transportation Research Institute

CHRISTOPHER A. SCOTT
Director, Udall Center for Studies in Public Policy

Existing RII Faculty Committees

Unit Name	Faculty Standing Committee Name
Arizona Institutes for Resilience	AIR Design Committee
Arizona Institutes for Resilience	AIR Justice, Equity, Diversity and Inclusion (JEDI)
Arizona Institutes for Resilience	Bridging Biodiversity and Conservation Sciences (BBCS)
Arizona Institutes for Resilience	Center for Climate Adaptation Science and Solutions (CCASS)
Arizona Institutes for Resilience	Climate Assessment for the Southwest (CLIMAS)
Arizona Institutes for Resilience	Institute for Energy Solutions (IES)
Arizona Institutes for Resilience	Desert Laboratory at Tumamoc
Arizona State Museum	Continuing Status and Promotion
Arizona State Museum	Market Adjustment Committee
Arizona State Museum	Annual Evaluation Committee
Arizona State Museum	Bylaws and Standing Rules
BIO5 Institute	Member Advisory Board
BIO5 Institute	Annual review committee
Conflict of Interest	Institutional Review Committee
Conflict of Interest	Executive Review Committee
Institute for LGBT Studies	The Institute for LGBT Studies Faculty Advisory Committee
Institute for LGBT Studies	TSRC Faculty
Research Integrity Program	University Committee on Ethics and Commitment
Research Laboratory & Safety Services	Institutional Biosafety Committee (IBC)
Research Laboratory & Safety Services	Laser Safety Committee (LSC)
Research Laboratory & Safety Services	Radiation Safety Committee (RSC)
Research Laboratory & Safety Services	Lab & Chemical Safety (projected to charter in 2021)
Tech Launch Arizona	Intellectual Property Policy Committee
Tumamoc Hill	Tumamoc Hill Advisor Council
Tumamoc Hill	Desert Laboratory Plant Ecology Working Group
University Animal Care	Continuing Status and Promotion Committee
University Core Facilities	Micro/Nano Fabrication Center
University Core Facilities	UA Genetics Core
University Core Facilities	TBIR - 3T
University Core Facilities	TBIR - 7T
University Core Facilities	TBIR - High Resolution Ultrasound (Vevo)
University Core Facilities	Imaging Cores LSN and Marley - Optical Microscopy
University Core Facilities	Imaging Cores LSN - Electron
University Core Facilities	Analytical & Biological Mass Spectrometry (co-operated as UACC Proteomics Shared Facility)
University Core Facilities	Flow Cytometry Shared Resource (Oversight Committee; co-managed with UACC)
University Core Facilities	Functional Genomics Core (co-managed with AZ Drug Discovery, College of Pharmacy)

RII Faculty Advisory Council (RIIFAC); kicking off 01/01/2021

- Standing committee charged with advising the Senior Vice President for Research & Innovation on matters pertaining to UArizona research activities
- Monthly meetings, members must attend 60%
- Composition
 - 2-year service, supported by RII office staff
 - 15-20 faculty members nominated by their dean/directors and approved by RII
 - Members must be participants in active research programs and demonstrate keen interest in research advancement and/or innovation at the UA
 - Ex-officio members: Chair or member designated by each of the chair of the Research Policy Council and the chairs of Strategic Planning and Budget Advisory Committee

ITHAKA Report 1/1/2020

Senior Research Officer Challenges

- Evolution from service to professional model, driven largely by growth in complexity, competitiveness, increasing need for external partnerships, compliance mandates, impact & reputation mandates, infrastructure costs and securing new, large, multi-disciplinary and/or more sustainable funding
- Strategies to develop research and innovation success have challenges associated with:
 - Responding to critical or immediate events
 - Developing approaches for Grand Challenges: partnerships, consortia, etc
 - Limited resources / focus on revenue models & fundraising
 - Heightened compliance responsibility & accountability
 - Increasing and articulating impact, influence funders & stakeholders
 - Research support – avoiding diminishing returns

F&A RECOVERY

THE EFFECTS OF RCM

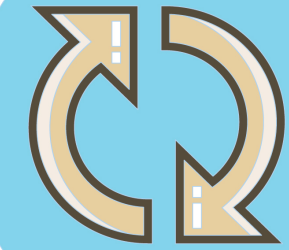
WHAT ARE F&A COSTS? *



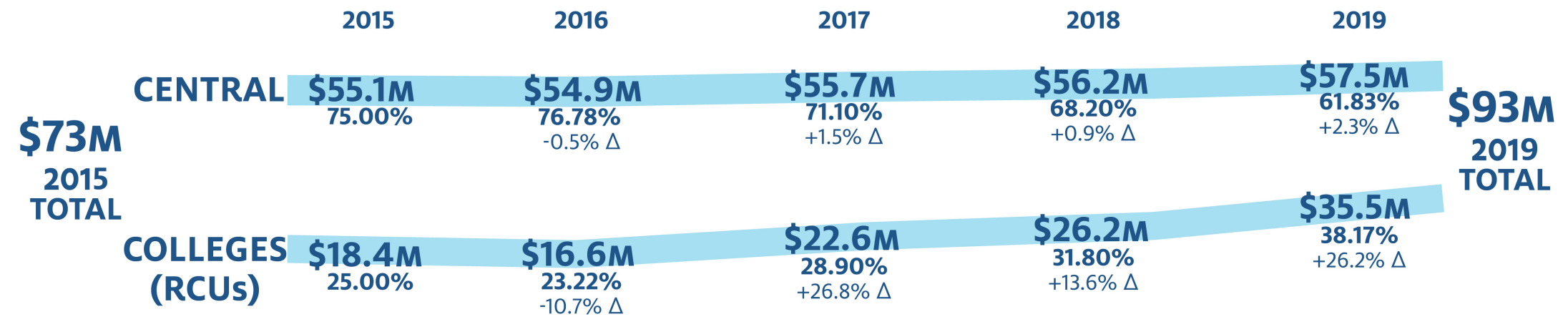
When universities perform research on behalf of the federal government through agency grants, contracts, or other agreements, "Facilities and Administrative" (F&A) costs are incurred (often "indirect costs" in vernacular).

WHAT IS F&A RECOVERY?

Funds are recovered from granting agencies as reimbursements to support the University for the costs of services and infrastructure provided in order for grants and contracts to operate with minimal overhead costs.



COLLEGE/RCU DISTRIBUTIONS INCREASE FASTER THAN CENTRAL

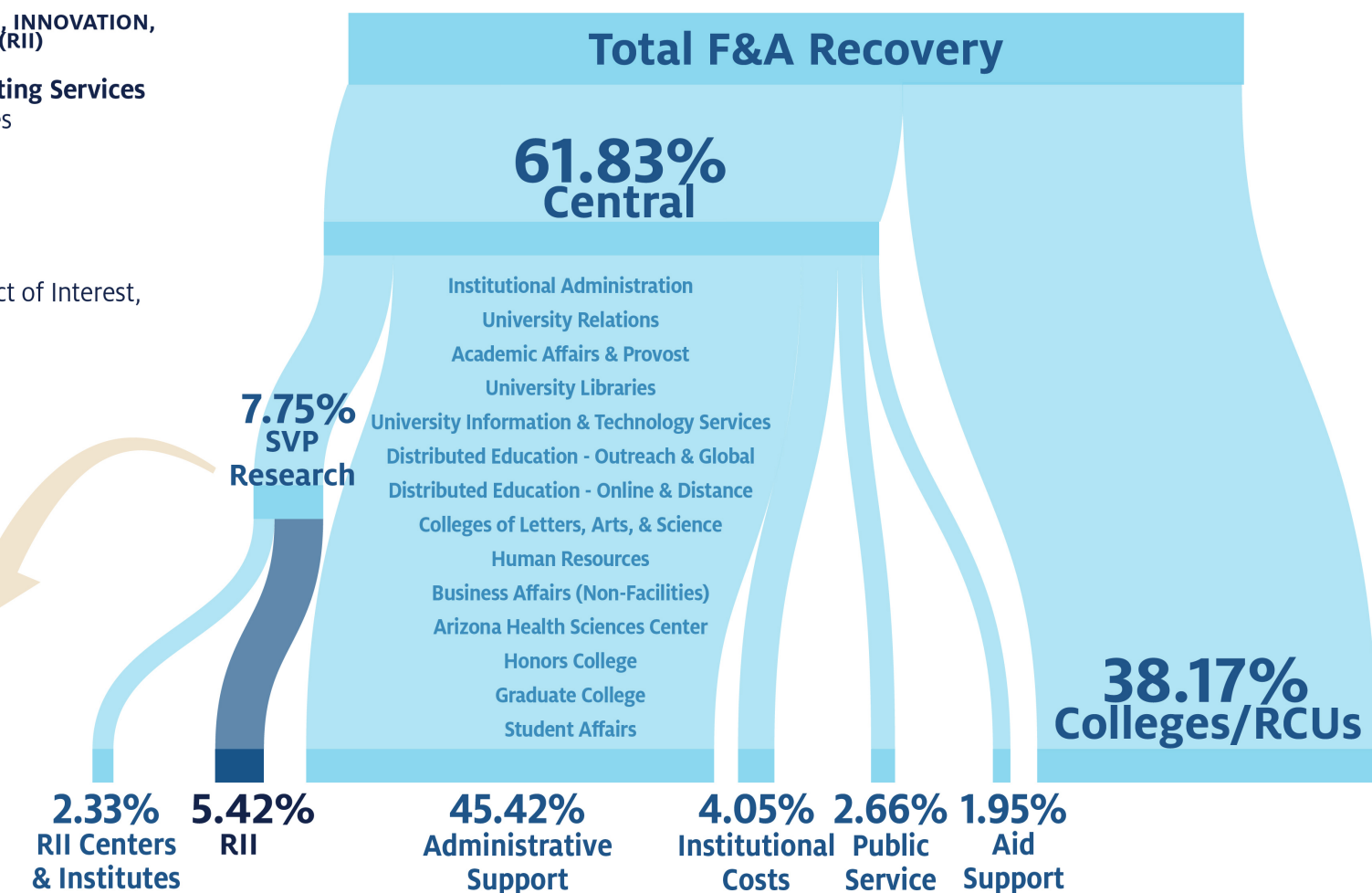
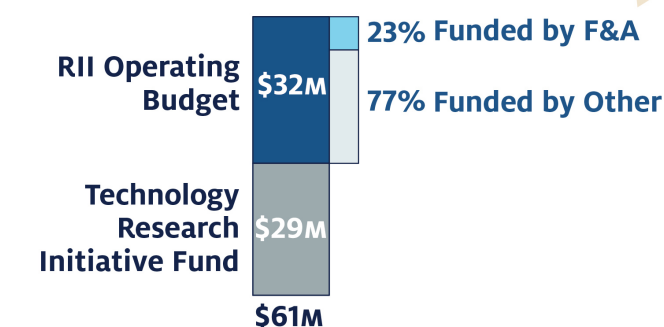


2019 COLLEGE/RCU, CENTRAL, AND RII UNITS SHARE THE FUNDS

SERVICES FROM RII RESEARCH, INNOVATION, & IMPACT (RII)

- Sponsored Projects Services and Contracting Services**
Pre- and post-award and contracting services
- Research Development Services**
Complex proposal development
- Compliance**
Human Subjects Protection Program, Conflict of Interest, Export Control, Research Integrity, Privacy, Research Laboratory & Safety Services
- Research Infrastructure**
Core facilities and research space
- University Animal Care**
Animal subject research

BUDGET FOR RII



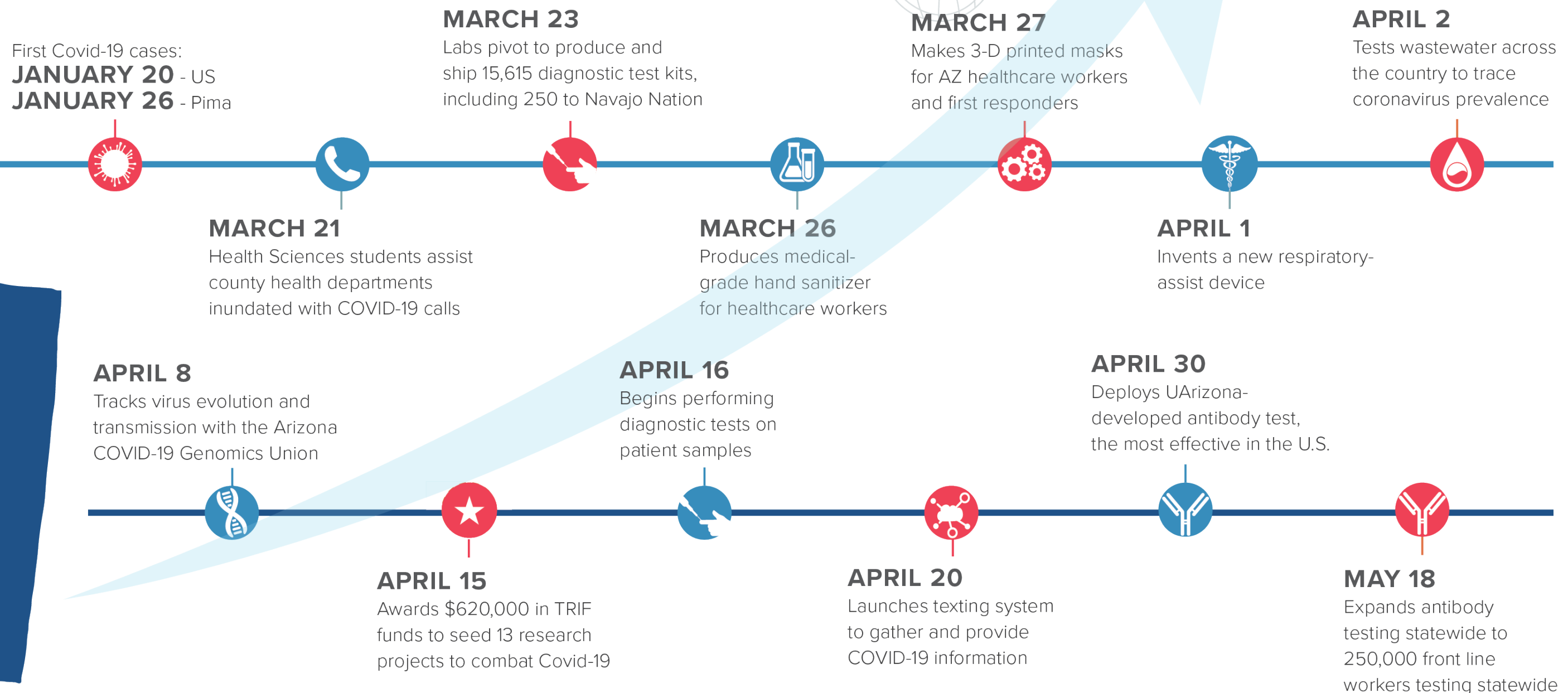
**Investments 2010-2019 enables
UArizona to pivot in 2020**

- University of Arizona Genetics Core
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- BIO5 Media Facility
- The Arizona Center for Drug Discovery
- Asthma and Airway Disease Research Center
- Data Science Institute

TRIF

& THE UNIVERSITY OF ARIZONA

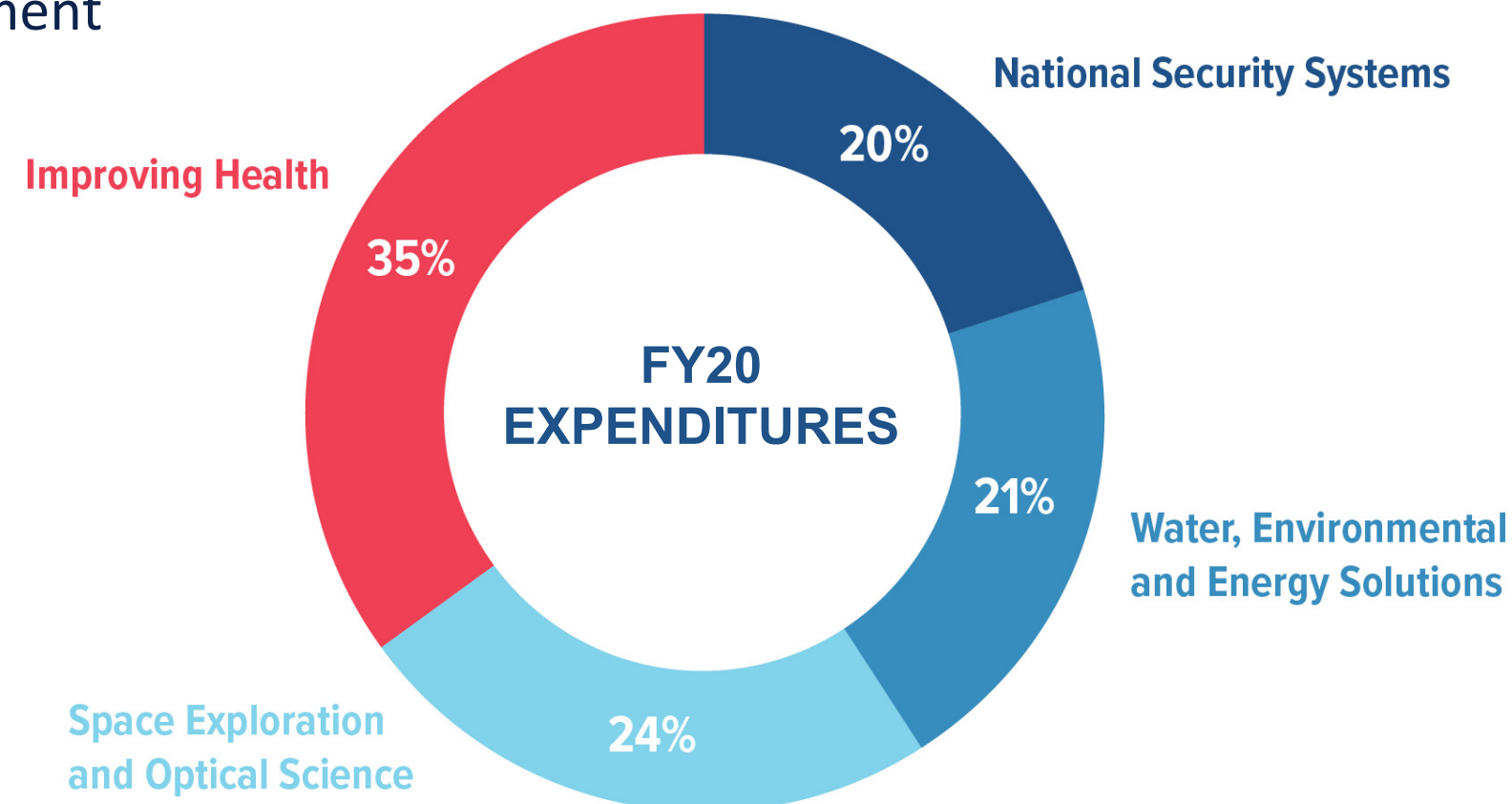
**The TRIF-funded research infrastructure already in place enabled
rapid response by researchers in the BIO5 Institute to tackle COVID-19**



Future of Technology and Research Initiative Fund (TRIF)

CURRENT INITIATIVES

- Improving Health; Water, Environmental & Energy Solutions; Space Exploration & Optical Sciences; National Security Systems, and Access & Workforce Development

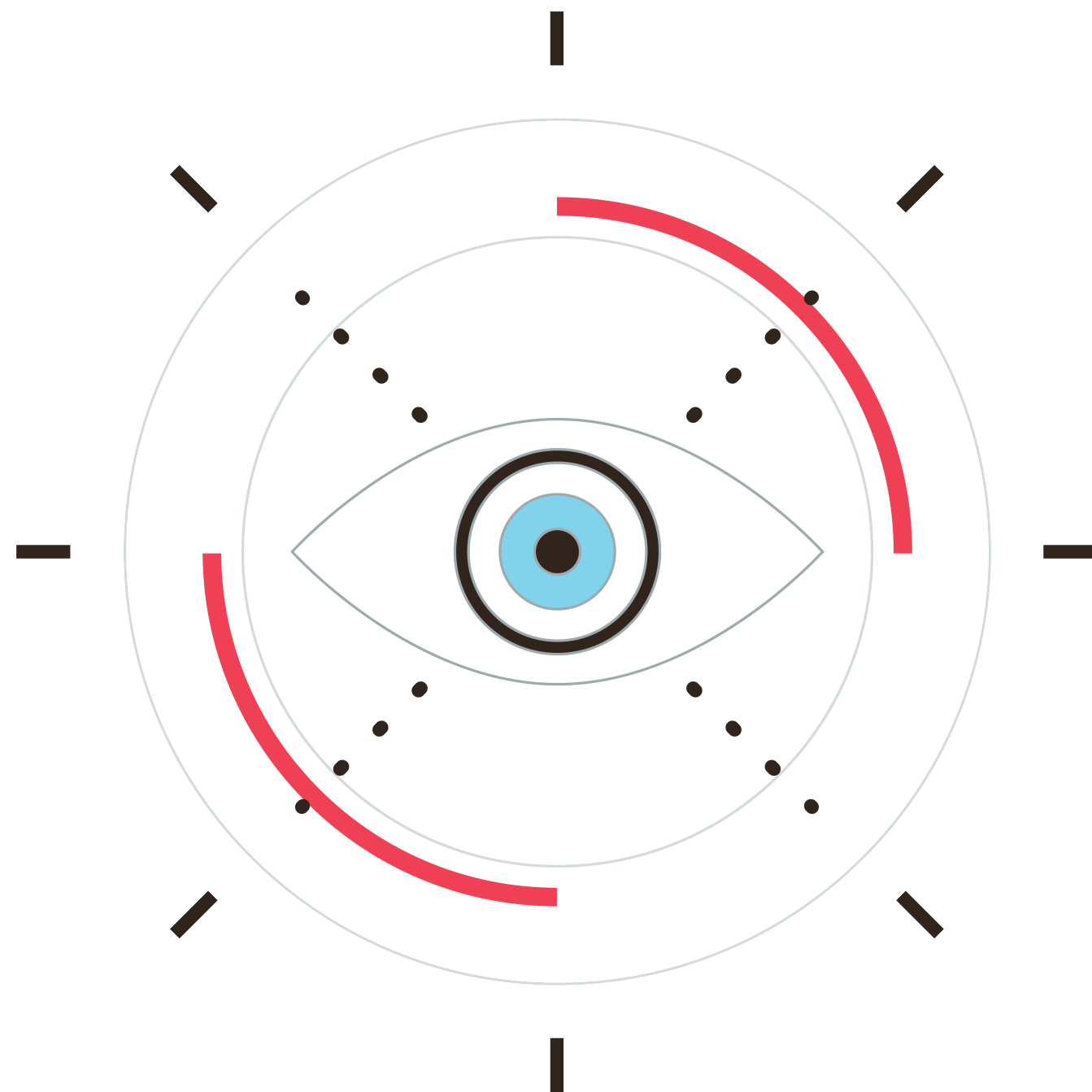


NEW INITIATIVES, Beginning FY22

- Health Futures, Resilience Science, National Security Systems, Space Exploration & Optical Sciences, Innovative Technology, and Access & Workforce Development
- Our TRIF allotment could vary year by year



- Anticipate and prepare the UA and our community for future challenges and opportunities
- Expand our impact and influence in the world
- Strengthen our creativity, resilience, and sustainability



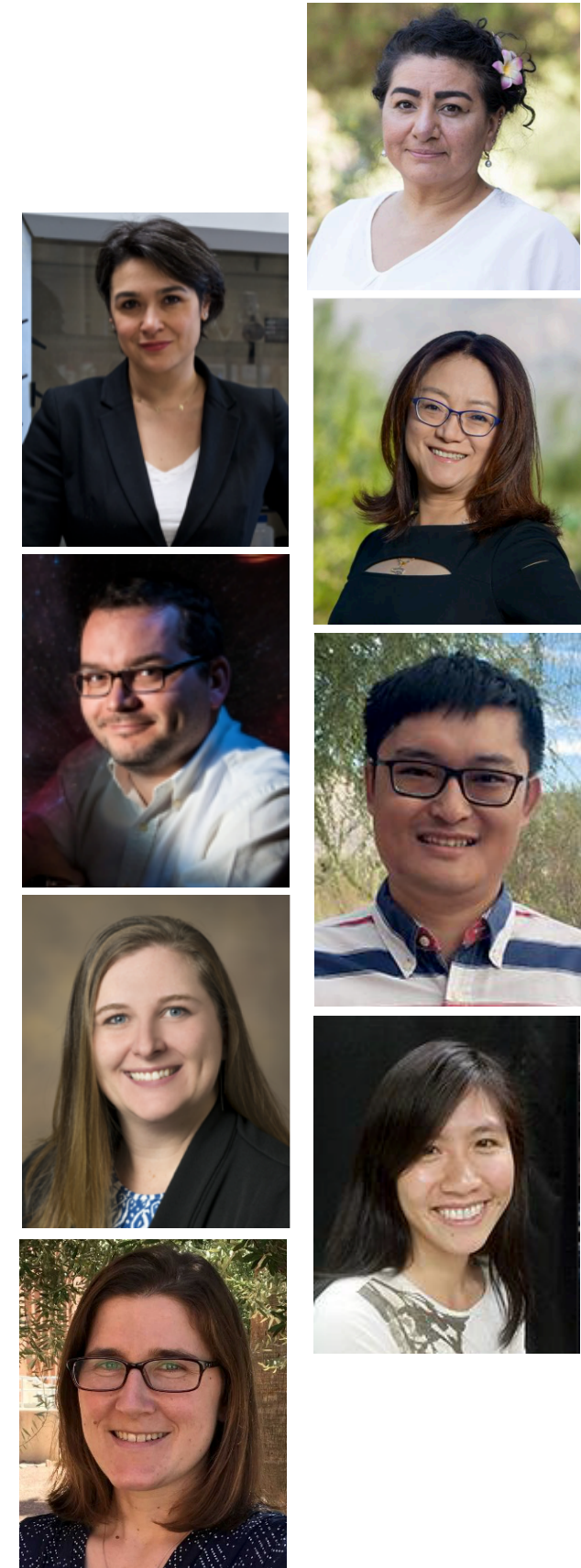
Eye on the Future

RII GOALS

- Anticipate and prepare the UA and our community for future challenges and opportunities
 - Apply broad and deep collaboration to anticipate and solve problems, produce enduring knowledge and develop our innovation ecosystem
 - Enhance the University's knowledge and capabilities through strategic investments in multidisciplinary centers & institutes, research & innovation infrastructure and faculty support
- Expand our impact and influence in the world
 - Design for inclusion, equity and diversity in all we do
 - Expand with whom and how we engage and partner
 - Enhance our institutional capabilities in infrastructure, faculty and student support through strategic investments in advanced technologies
 - Enable the UA to embrace innovation and an entrepreneurial mindset
- Strengthen our creativity, resilience, and sustainability
 - Innovate new business models and methods
 - Balance priorities
 - Design for distinctiveness
 - Continuously review governance
 - Ensure optimization of program/division structure

RII AWARDS

- Life on Ancient Earth and Alien Planets: NASA awarded ~\$12 million to UA astrobiology researchers Betul Kaçar and Daniel Apai – 2 of 8 awards.
- NSF Convergence Accelerator: 2 awards integrating multi-disciplinary human-centered research by junior faculty Zhesen Zhang (MSE, Op Sci) and Laura Condon (Hydrology & Atmo Science). The only two convergence accelerator awards in Arizona.
- NIH DP2 (New Innovator) Award: Alicia Allen (Clinical Translational Science, Family and Community Medicine, Public Health). First such award (DP2) to UArizona since 2010.
- Institute of Museum and Library Services: Dr. Berlin Loa, (iSchool), Knowledge River: National Impact on Diversity, Equity, and Inclusion in Libraries, Archives, and Museums enhances the UA's efforts to provide a diverse and inclusive education.



QUESTIONS?



THANK YOU