Indigenous Design Thinking

Honoring Place & Space

Wanda Dalla Costa Institute Professor, HIDA Associate Professor, Del E. Webb School of Construction

IT Professional Community Day May 23, 2019 Jacob Moore Associate Vice President, Tribal Relations Office of Government & Community Engagement



Tribal Map





The 22 tribal governments located within the boundaries of Arizona are independent tribal nations.

It is important to begin with an understanding of the legal foundation of tribal self governance.





The 22 tribal governments within the boundaries of the state of Arizona are not just a single list of tribal governments.



They have ancestral ties and interact with one another in dynamic ways based on land, language, culture, and long-standing relationships.



Demonstrated

Commitment



ASU Charter

ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public values; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves.



Arizona State University is located in Indian Country; there are 22 tribal nations in Arizona.

The Tempe campus sits on the ancestral homelands of those American Indian tribes that have inhabited this place for centuries, including the Akimel O'odham (Pima) and Pee Posh (Maricopa) peoples.

In keeping with the design aspirations of the New American University, ASU seeks to embrace our place, connect with tribal communities, and enable the success of each American Indian student.

We reaffirm the university's commitment to these goals and acknowledge that everyone, the entire ASU community, is responsible for their achievement.

Excerpts from President Michael Crow Letter, October 2015



American Indian

Programs & Services



Academic Programs & Centers

American Indian Student Support Services (AISSS) American Indian Studies (Bachelors & Masters) Construction in Indian Country (Engineering) Center for Indian Education (Education) Mary Lou Fulton Teachers College (Education) Office of American Indian Projects (Social Work) Indian Legal Program (Law) American Indian Policy Institute (Policy and Capacity Building)

Labriola National American Indian Data Center



Demonstrated Commitment

Over **3,000** American Indian students

American Indian students from over **187** tribal nations

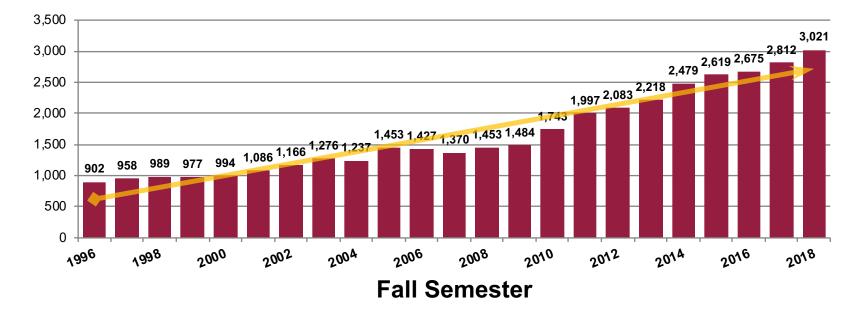
Over 30 American Indian faculty

40 American Indian staff

Specialized certificate and degree programs



American Indian Student Enrollment



*Beginning in 2010, figure reflects students who self-identify as American Indian solely and/or in addition to one or more ethnic/racial identities, as per updated federal reporting categories.

University Office of Institutional Analysis First Day Fall 2018



Fall 2018 AI/AN Enrollment

44J Graduate	
Doctoral	88
Masters CER/NDG	322 35
58 Law	
1 ST Professional	37
Masters	21
1099	New Students
1 st Time Freshme	
Transfers Non-Degree	430 3
Grad/Law/Readm	•

2,518	Undergraduate
Freshmen	410
Sophomore	472
Junior	756
Senior	819
Non-Degree	3
Post-Bac	58
By Campus Tempe Downtown	1,254 461
West	127
Poly	146
Online	1,015
CAHLC	5
Tucson	6
CAC/AWC/EAC	7

357

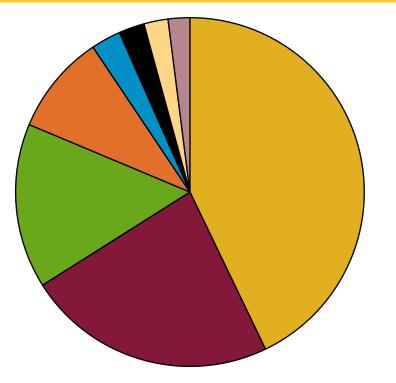
Majors Represented

4

Yavapai Apache Nation Students with Tribal Scholarship Masters 1 MSW 1 MFA Undergraduate 1 Psychology 1 Exercise & Wellness 1 Online Student



Fall 2018 American Indian Tribal Representation



□ Other 1,301 (42.9%)

■Navajo 703 (23.2%)

■ Unknown 464 (15.3%)

■ Cherokee 282 (9.3%)

■ Chocktaw 84 (2.8%)

■ Pima 72 (2.4%)

□ Tohono O'Odham 68 (2.2%)

■ Apache 61 (2.0%)

Total ASU Enrollment — 111,291 Total American Indian Enrollment — 3,035 (2.7% of Total Enrollment)



2019 American Indian Students Registered

for Spring Graduation:







Indigenous Placekeeping

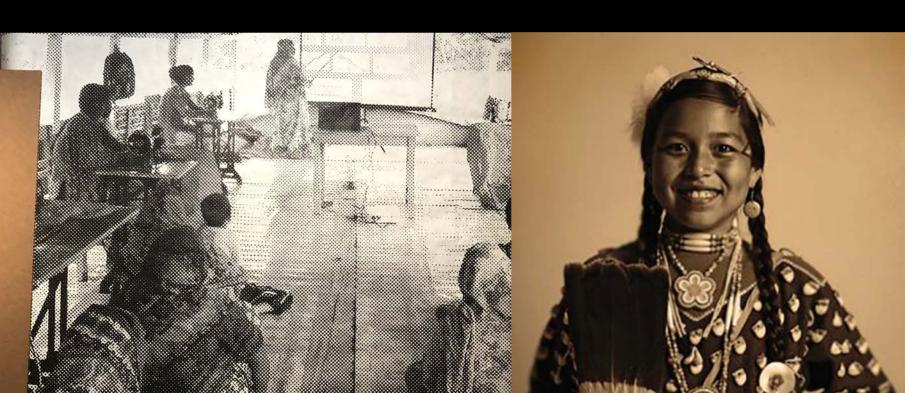
Case Study: Campus Design and Planning





Indigenous Design Collaborative (IDC)





IDC – a vehicle to undertake Placekeeping work in AZ

A **community-driven design program** co-developing solutions (rural and urban).

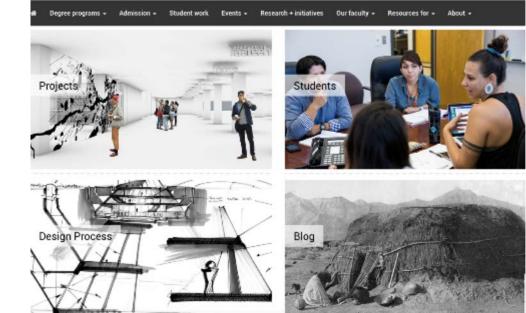
Team

- Tribal partners +
- industry partners +
- interdisciplinary students

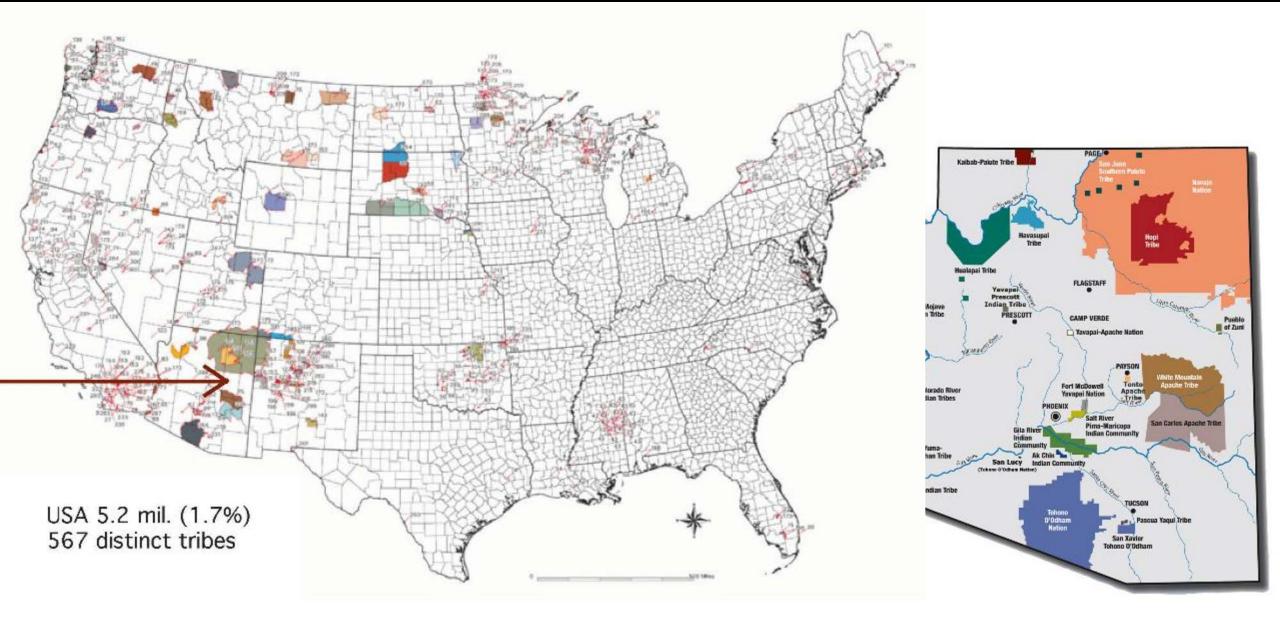


Form / Research+ inductives / Indigenous Design/Tollaborative

The Indigenous Design Collaborative (DC) is a community driven design and construction program, which brings together tribal community members, industry and a multiple sectionary team of ASL solutions and have hybric codes on and co-develops on uppers multiple and any which brings together tribal community members, industry tribal sustainable nousing to urbain indigenous bace keeping studies. The intestitue prioritizes historical understanding community originary members, and grows design torinking, technological innovation, local version (Vel genes, holds be systems solutions for thinking, and co laboration with local presentations).



Why Phoenix? 22 tribal communities in AZ



Why ASU? Diversity in design students

Arizona has the **second largest (55K) number of K-12 Native students in USA**, surpassing California (43K) and only behind Oklahoma (116K).

522 Native Design Students

Method

Indigenous Placekeeping Framework (IPKF)

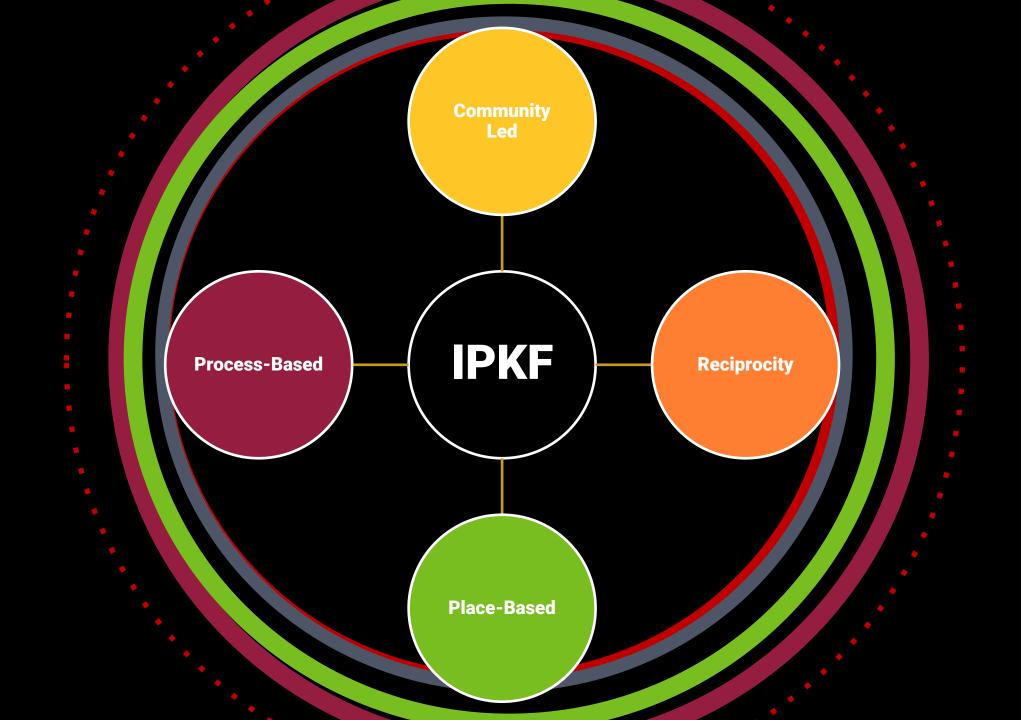
SOLAR EAR

An estimated 65% of people living with hearing loss reside in underserved countries, yet only 10% use hearing alds. Betteries, hard to find in remote areas, are also the largest expense. In 2002, a team in Botswana-the majority deaf-designed an affordable quality hearing aid and a solar charger, costing only \$100 compared to \$1,800 for conventional aids. This product innovation allows children to attend school, and edults to work. In China, the Botswanana trained deaf workers, reversing a policy that prohibited the deaf from electronics jobs. In Brazil, Solar Ear further developed a low cost digital hearing aid.

nile Ntshekimang, Medasta Hylmuda, Bacah Plori, Hamard Instain, Gudisa Tacheologian Trust (Gaborana, Butanona) DIVISIONILI 2002 present



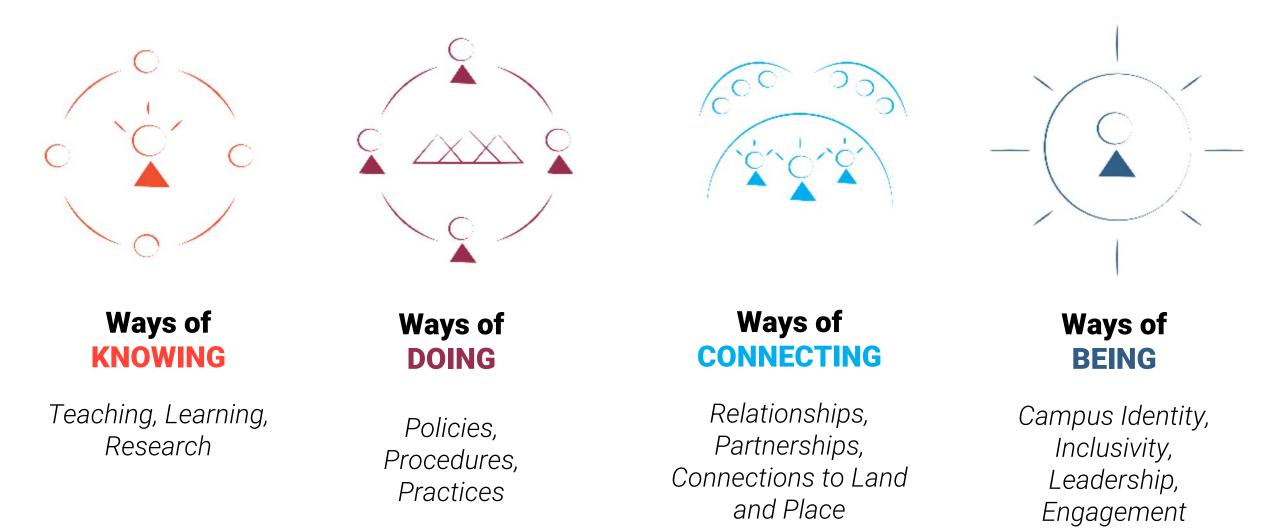
trigger haptic vibrations when a physical hazard in detected, using various patterns to differentiate obstacles and distances.



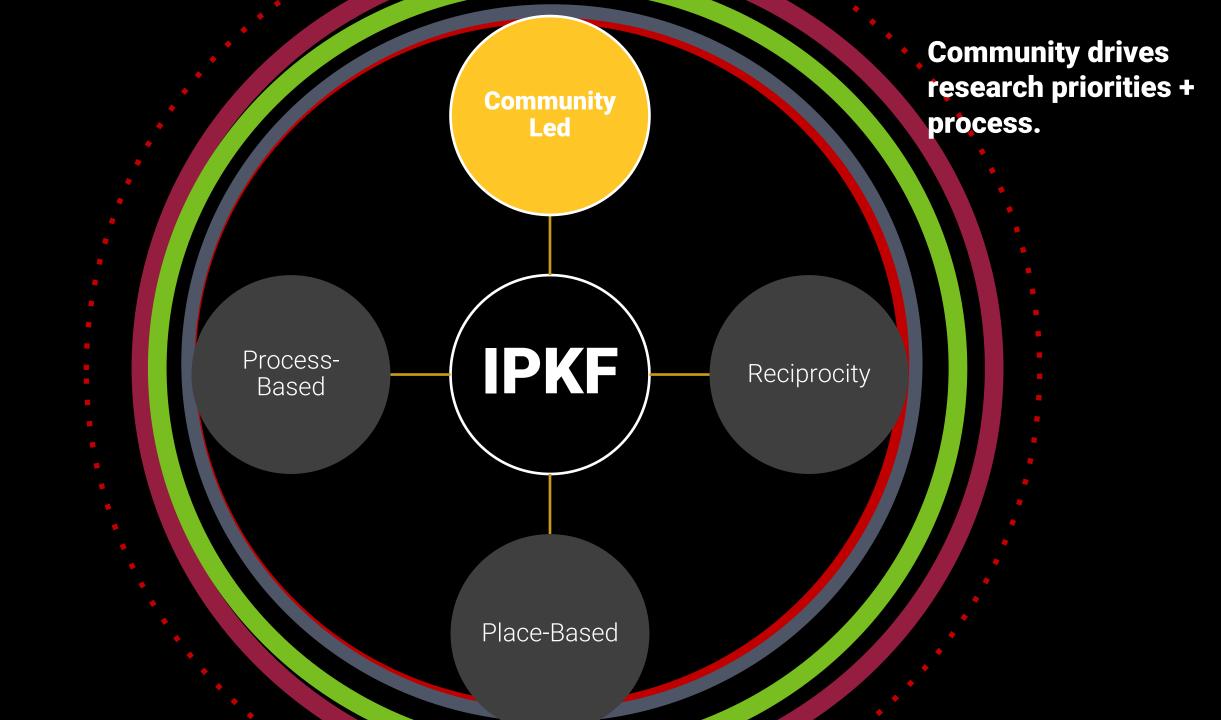
Key attributes of Indigenous learning

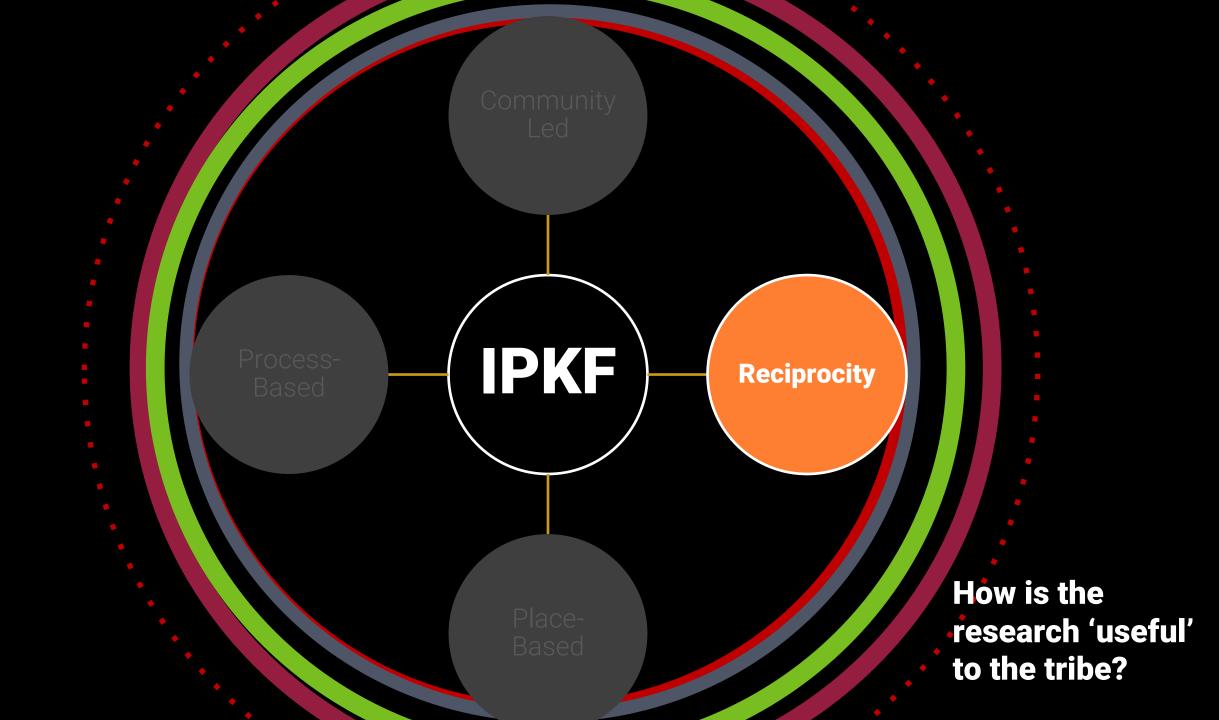
- 1. Learning is holistic.
- 2. Learning is a lifelong process.
- 3. Learning is experiential in nature.
- 4. Learning is rooted in Aboriginal languages and cultures.
- 5. Learning is spiritually oriented.
- 6. Learning is a communal activity, involving family, community, Elders.
- 7. Learning is an integration of Aboriginal and Western knowledge.

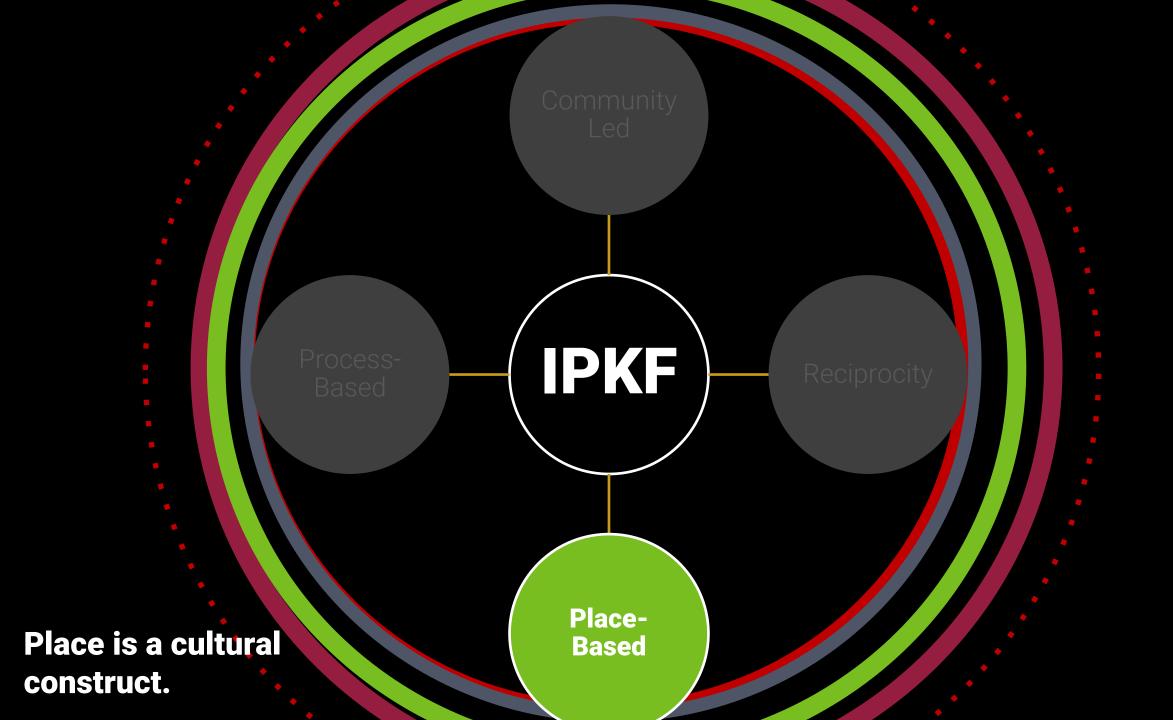
Bringing holistic worldviews to higher education

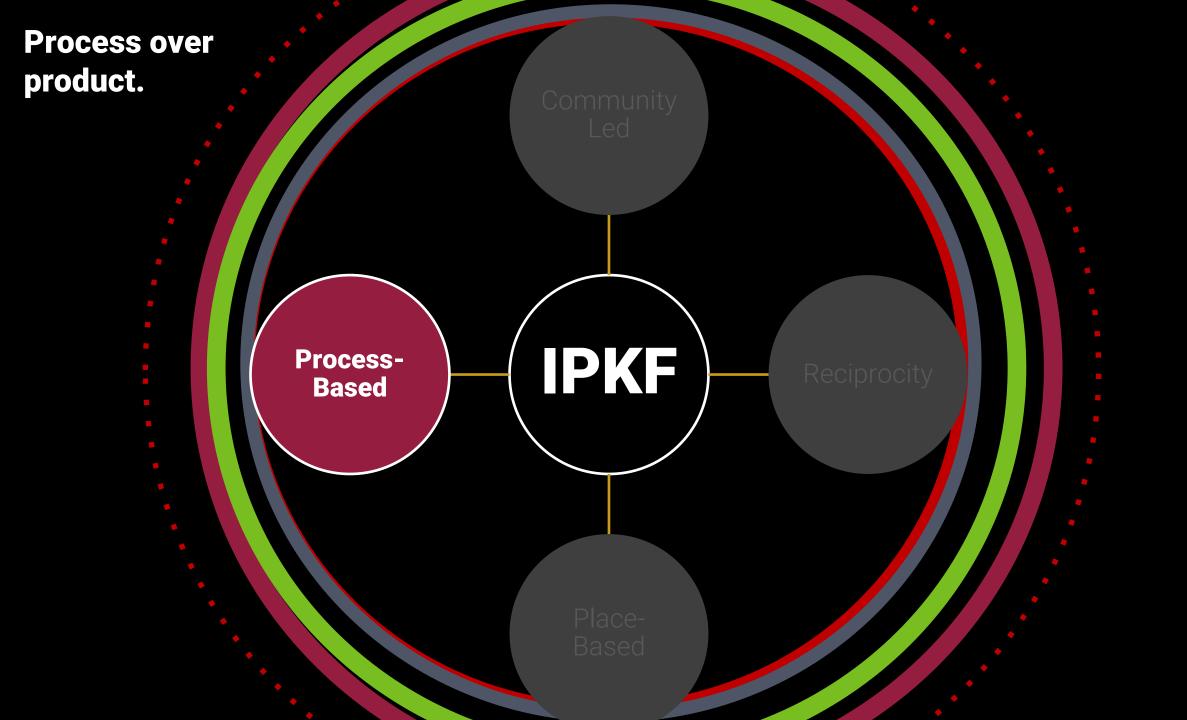


https://www.ucalgary.ca/indigenous-strategy/files/indigenous-strategy/indigenous-strategy_publication_digital_feb2018.pdf



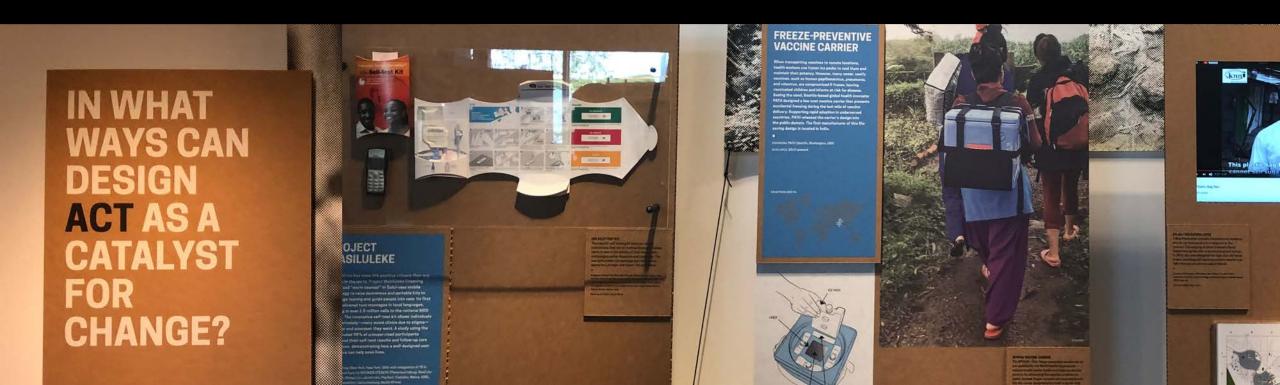


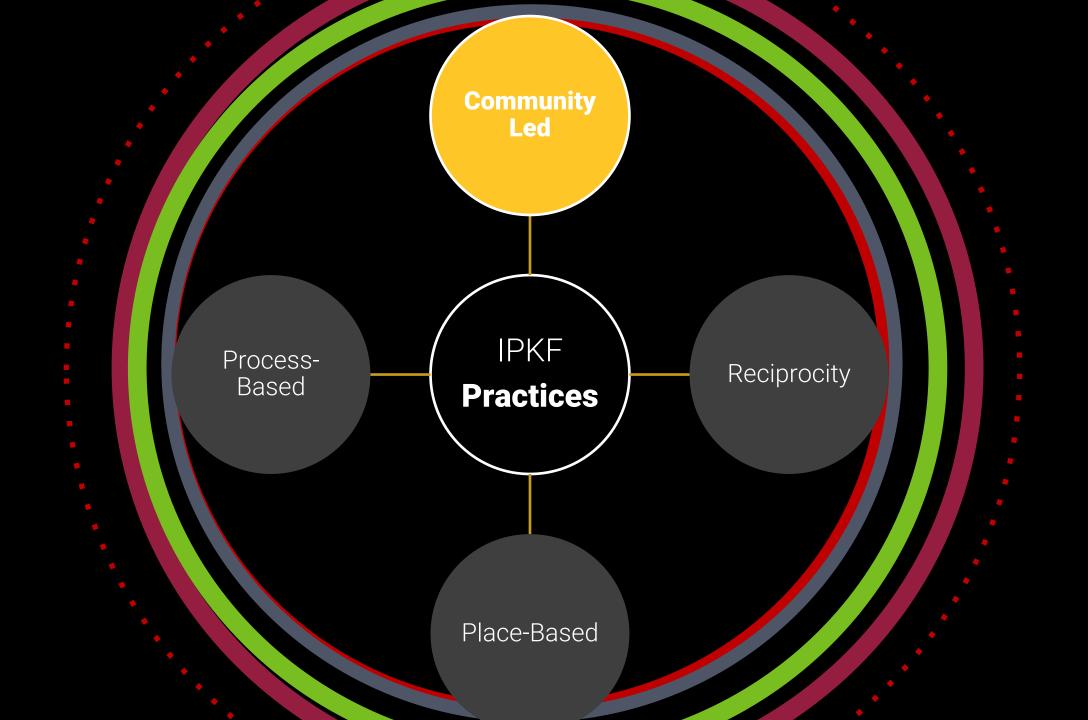






ASU Indigenous Placekeeping on ASU's Campus





PRACTICE: User (Student) Defined Priorities

Welcoming campus

Community Led

- Reducing invisibility
- Indigenous faculty
- Multi-generational learning
- Places to gather
- Cross-cultural awareness

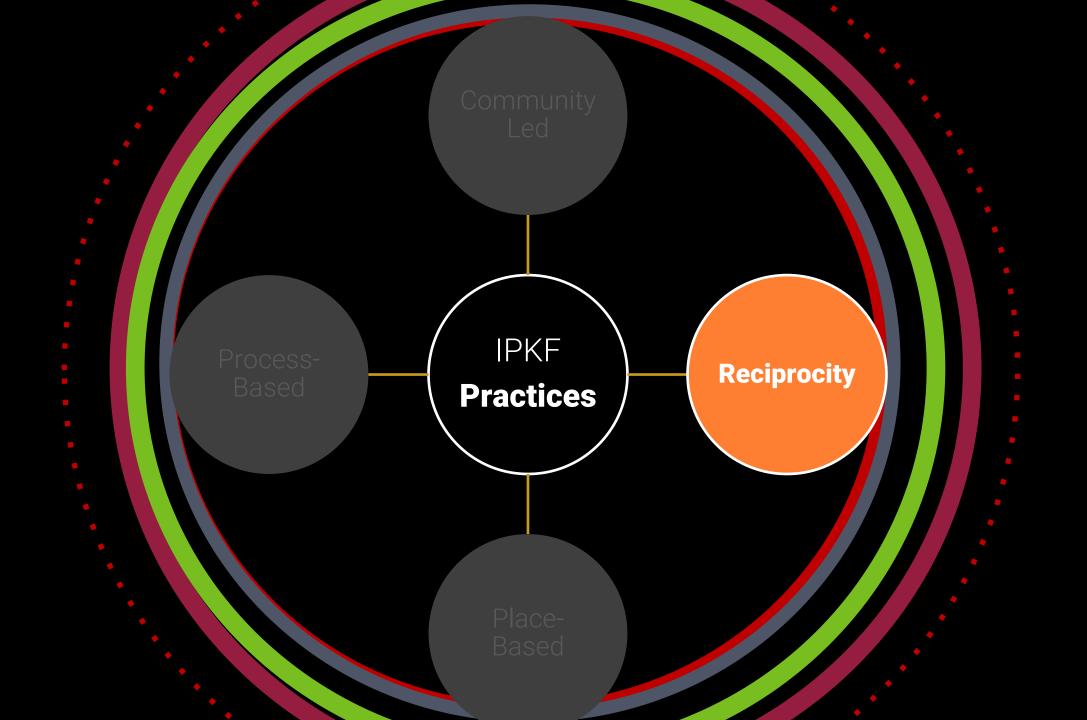


Community Led

PRACTICE: Expanded Process: Community Members

Practitioners + Faculty + Students + Community





PRACTICE: Creating Welcoming Places

16 Design Proposals for ASU's Campuses

Reciprocity

How to make Indigenous students and their kinship networks feel welcome?



PRACTICE: Awareness + Scholarships

Arizona State University

ASU Home + My ASU Colleges and Schools + Mag and Locations + Directory | SIGN IN

ASU Now: Access, Excellence, Impact

Expert Oil/ Thought Huddle Sun Davil Shelf Life **ASU Thrive**

Students reimagine ASU campus with designs that better reflect Native cultures

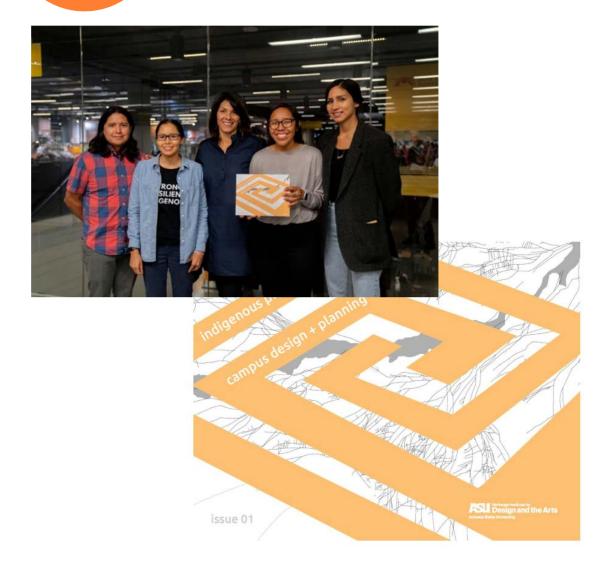
November 13, 2018

and the factor of

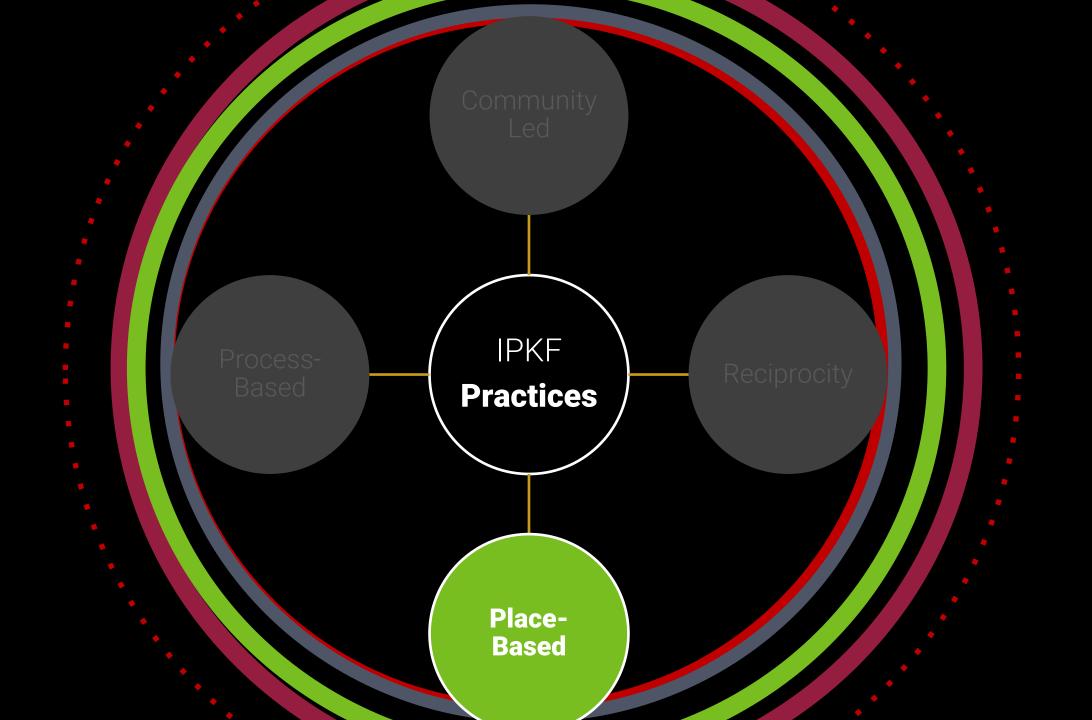
Their work is gathered into new book, 'Indigenous Placekeeping,' launched Tuesday evening at workshop

Arizona State University has more than 3,000 Native American students, and a group of them has created a powerful proposal to redesign the campus to reflect their oulture. The ideas include adding pottery symbols to Sun Devil Stadium, building a 'welcome wall' to include the languages of the 22 tribes in Arizona, and building a storytelling pavilion and gathering place.

The concepts came from six Native American students who took a studio course last year with Wanda Dalla Costa, institute Professor in the Herberger Institute for Design and the Arts. Dalla Costa said that when she came to ASU three years ago to teach construction



Reciprocity



Place-Based

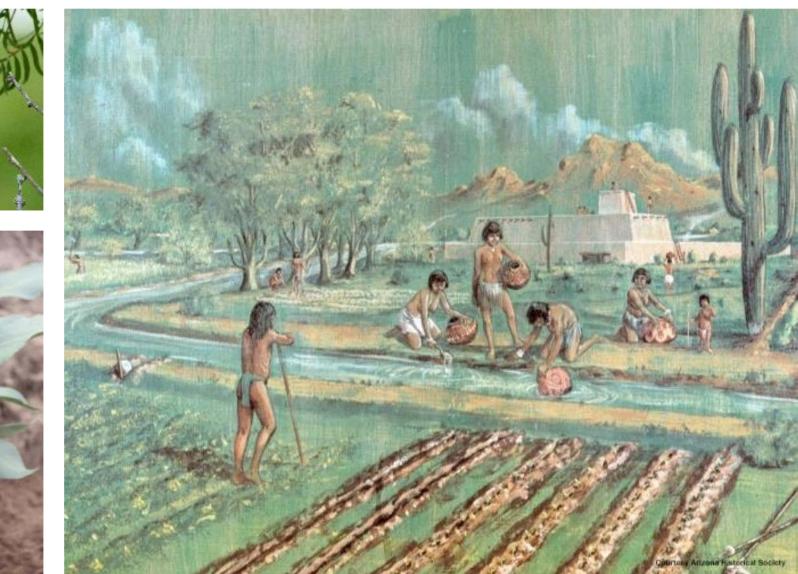
PRACTICE: Tour and Listen with locals (lived experience)





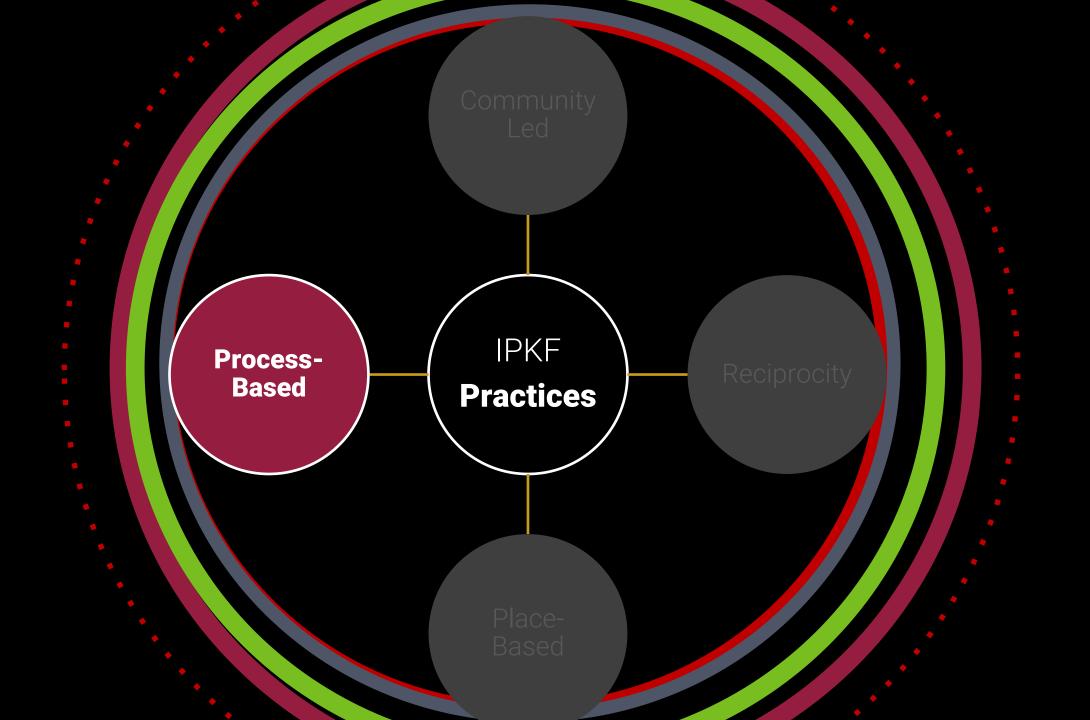
PRACTICE: Recognize Deep History











PRACTICE: Indigenous Protocol

Protocol

Process-Based

- Acknowledge territory
- Offer a meal
- Data sovereignty
- Honorariums



PRACTICE Data + Qualitative Research

Process-Based



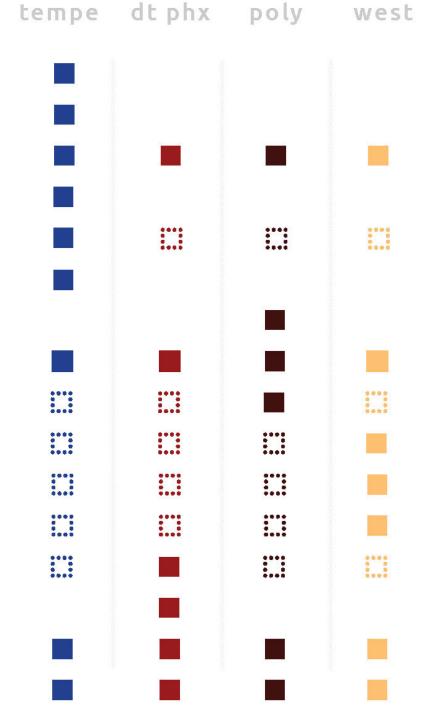
Action

Indigenous Placekeeping on Campus



design ideation

- hayden library: indigenous design
- 2 Indigenous center for leadership + elders lodge
- 3 storytelling pavillion + gathering space
- 4 i'itoi (maze) agriculture center
- 5 indigenous language greeting/welcome wall
- 6 sundevil 365 stadium
- 7 keeping house: center for cultural preservation
- 8 multilingual signage
- 9 interpretive walkways
- 10 art of local Indigenous artists
- 11 naturalistic playground + childcare
- 12 solar panel indigenous artwork
- 13 repurposing walls with Indigenous artwork
- 14 Indigenous art + media visitors center
- 15 reflection + meditation installations
- 16 ASU policy: Indigenizing ASU's Design Aspirations

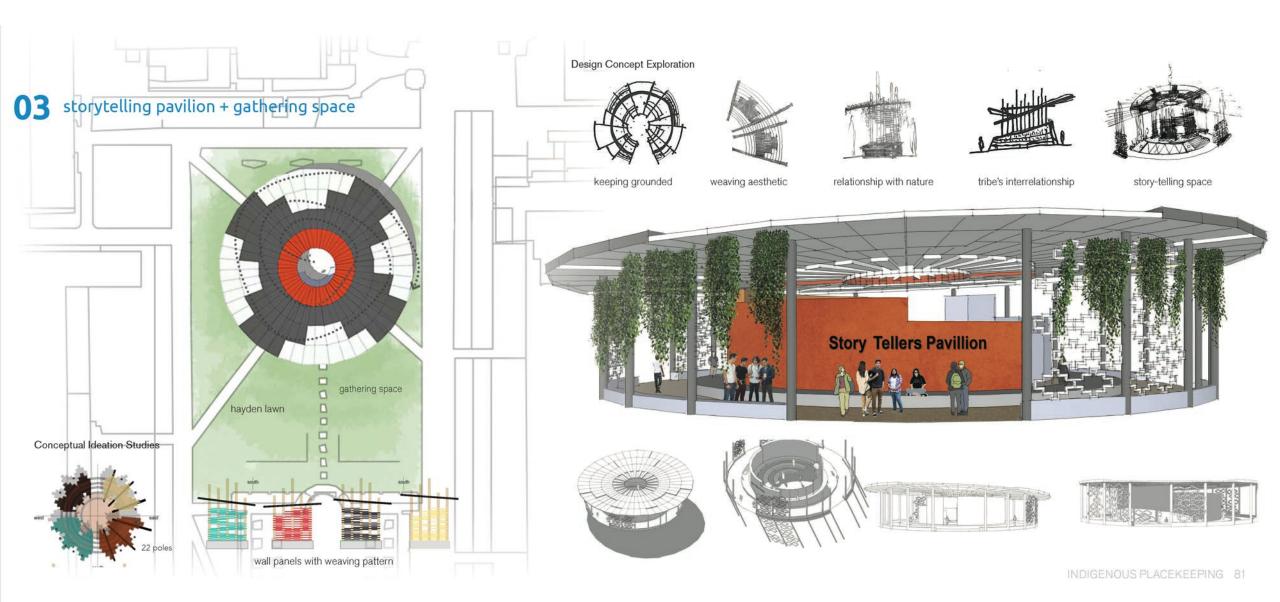




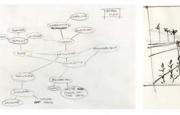


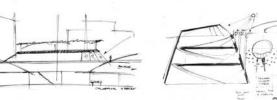


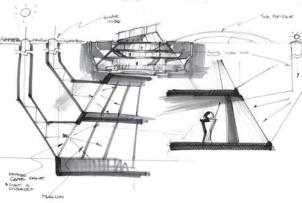




04 i'itoi (maze) agricultural center









Level 1 - is dedicated to congregation and celebration as represented by the man/ woman's birth into the physical world as told in the story of the "Man in the maze."

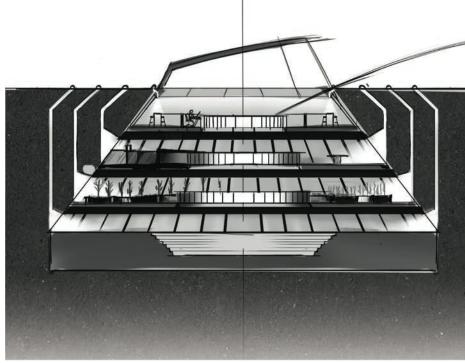
putton schools

OPENINO

Level 2 - is dedicated to education which would be represented by a co-working space where students and faculty can work and collaborate.

Level 3 - is dedicated to rejuvenation which is represented by a food court that serves healthy food and comfort food from Indigenous nations.

Level 4 - is dedicated to **celebration** which is represented by a place to grow edible and medicinal native crops for food, prayer and ceremonial purposes.













05 indigenous language greeting/welcome wall

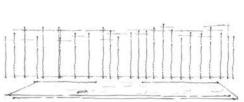
Cocopah Áwka Fort Yuma Quechan Kamughotmoovak Gila River Sap AIC Havasupai Gum-u Hopi Loloma Hualapi Gumyu Kaibab Band of Paiute Maik'w Navajo Yá'át'ééh Pascua Yaqui Lios em Chania san Carlos Apache Dagot'ee San Juan Southern Paiute Maik'w Salt River Pima Maricopa Sapi Ma'sma Tohono O'otham S~ke: a tas White Mountain Apache Dagot'ee Yavapai Apache Dagteh Yavapai Prescott Gum'yuuh Zuni Pueblo Keshi















07 keeping house: a center for cultural preservation





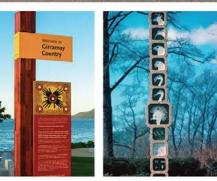
















TER

Sielcome Bacchara is Miniwan graantin; Chase respect this land of arcs

Sesson Tiyang

interpretive walkway



art from local indigenous artists



INDIGENOUS PLACEKEEPING 91

1 naturalistic playground + childcare



12 solar panel indigenous artwork



NDIGENOUS PLACEKEEPING 93

13 Indigenous artists re-purposing walls



14 Indigenous art & media visitors center







INDIGENOUS PLACEKEEPING 95

reflection + meditation installations







indigenizing ASU's design aspirations

01 leverage our place

ASU embraces its culture. socioeconomic and physical setting.

• Acknowledging local people of this land and recognizing that this campus is on Indigenous lands included on all course syllabi.

02 enable student success

ASU is committed to the success of each unique student. . Using on campus TV screens to encourage Indigenous Students by proving simple words of encouragements in different Native languages. Creating a personal connection with each student.

05 value entreprenuership

ASU uses its knowledge and encourages innovation.

.> Create more cross discipline collaboration course opportunities for Indigenous students. Working on projects or proposals with local native communities.

06 be socially embedded

ASU connects with communities through mutually beneficial partnerships.

.>> Bring in Indigenous elders to talk with students about the importance of education and what can be done to help Indigenous communities. Elders are important to Indigenous peoples which can create motivation for current or incoming students.

03 transform society

ASU catalyzes social change by being connected to social needs.

Incorporate more Indigenous issues and cultural history in class. Create a connection to Indigenous students through course work an lectures to address the issue of student invisibility among Indigenou: students.

07 conduct use inspired reasearch

- impact.
- connect with students on campuses, and/or create a one centralized magazine hub for students to work collectively with staff and surrounding Indigenous communities.

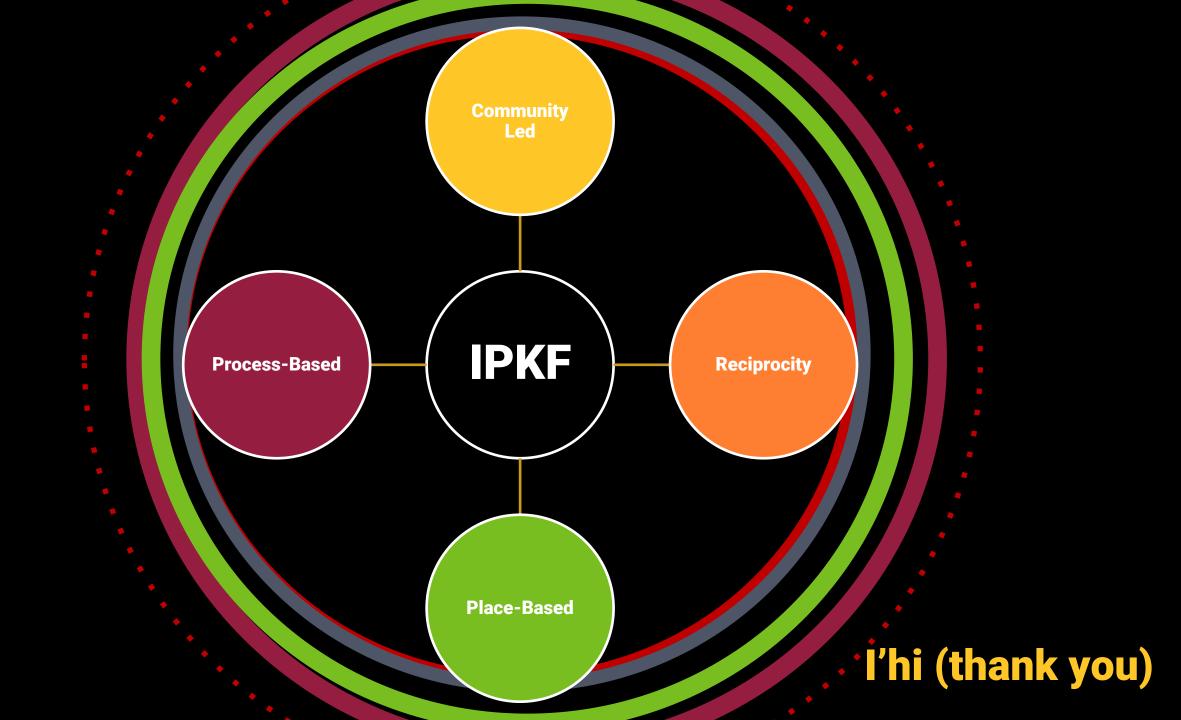
04 fuse intellectual disciplines

ASU creates knowledge by transcending academic disciplines.

Introduce hands on or creative workshops for Indigenous students o each of ASU's four campuses that directly connects with Indigenous culture and/or history.

08 engage globally

- ASU engages with people and issues locally, nationally and internationally.
- Conduct more Indigenous lecture series with Indigenous scholars, ... designers, writers, architects, contractors, etc. with all range of disciplines from all around the world.



Discussion



