



UTSA[®]

The University of Texas at San Antonio[™]

Discussion: Bold Future

Kimberly Espy, Provost and Senior Vice President
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CACP is a model for engaged learning, career readiness, and industry and community partnerships:



International Curricula



Community Impact



Preservation



International Collaboration



Cultural Sustainability



Environmental Sustainability

- *Supplies crucial workforce, performs research and scholarship to enhance the built environment, a model for student success, while supporting our mission/vision as an Hispanic-Serving Institution*

Opportunity to build on past success, and Create new opportunities for growth, innovation, and excellence in these fields of study:

- Highly interdisciplinary fields and workforce
 - Design Build Environment
 - As seen in integrated project delivery
 - As seen where urban planners work with real estate, finance, public policy, designers, geologists, sociologists, ...
- Benefits to integrating into education
 - Increase critical thinking
 - Recognition of bias
 - Tolerance for ambiguity
 - Acknowledgement and appreciation of ethical concerns

UTSA is known worldwide for its “cyber” brand....

Innovative “digital” programs around the globe:

geomatics TU Delft



University College
London: Design for
Manufacturing

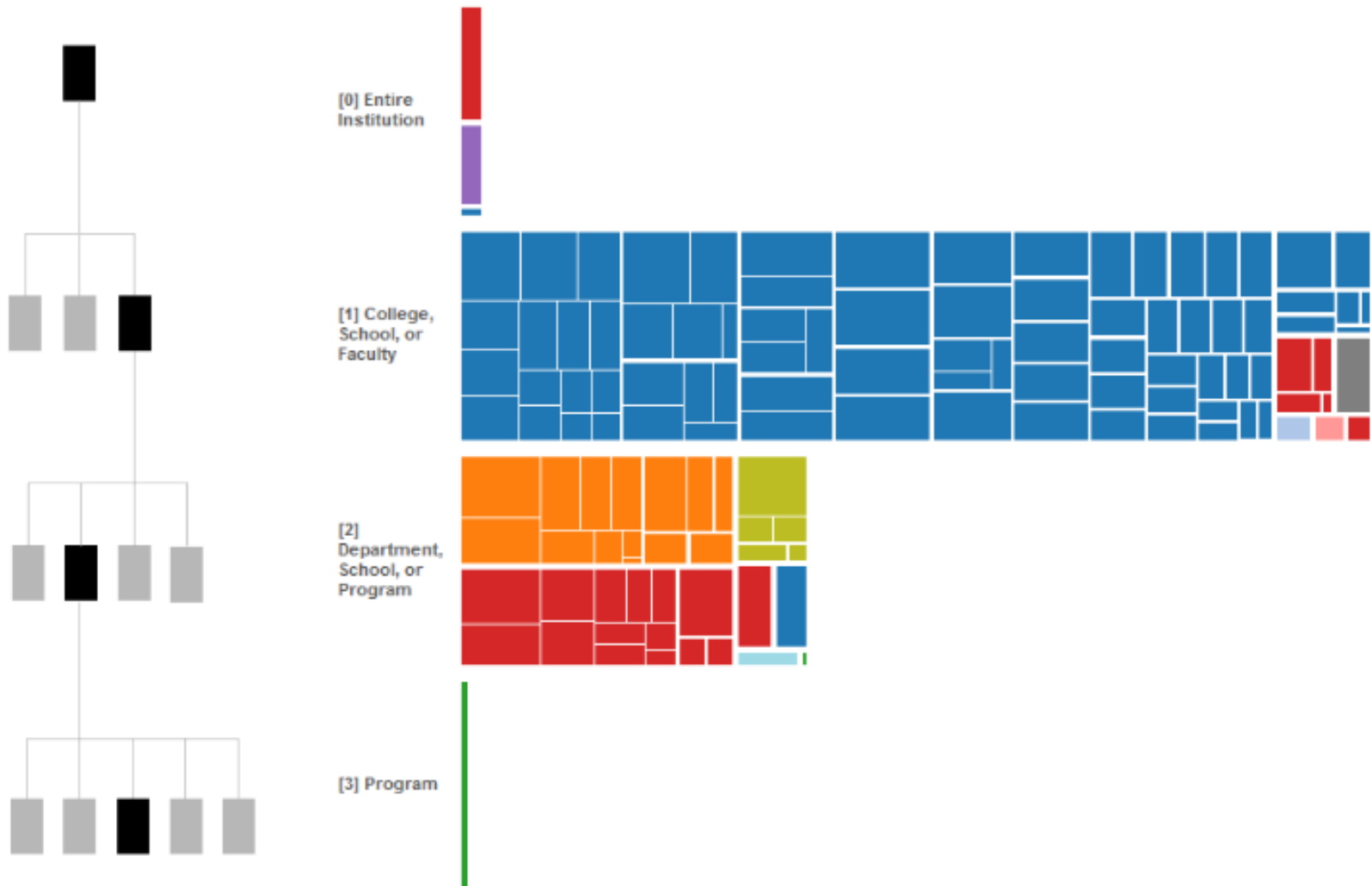
MIT: computational
tools, processes,
theories



Harvard: Masters in
Design Engineering,
joint between School
of Design &
Engineering

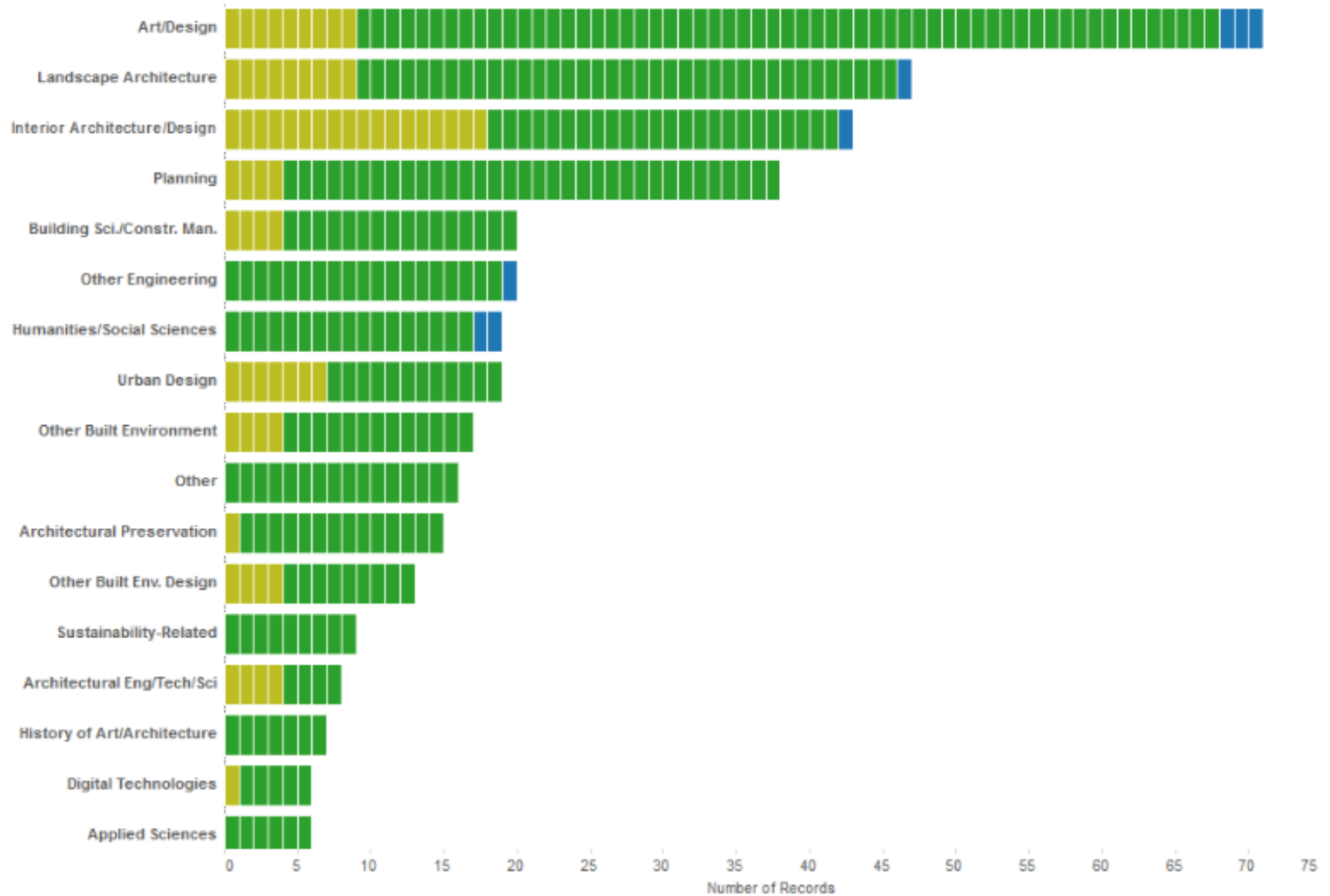
Architecture Within Academic Institutional Structures

Leadership at ACSA schools by administrative level, academic unit type, and role

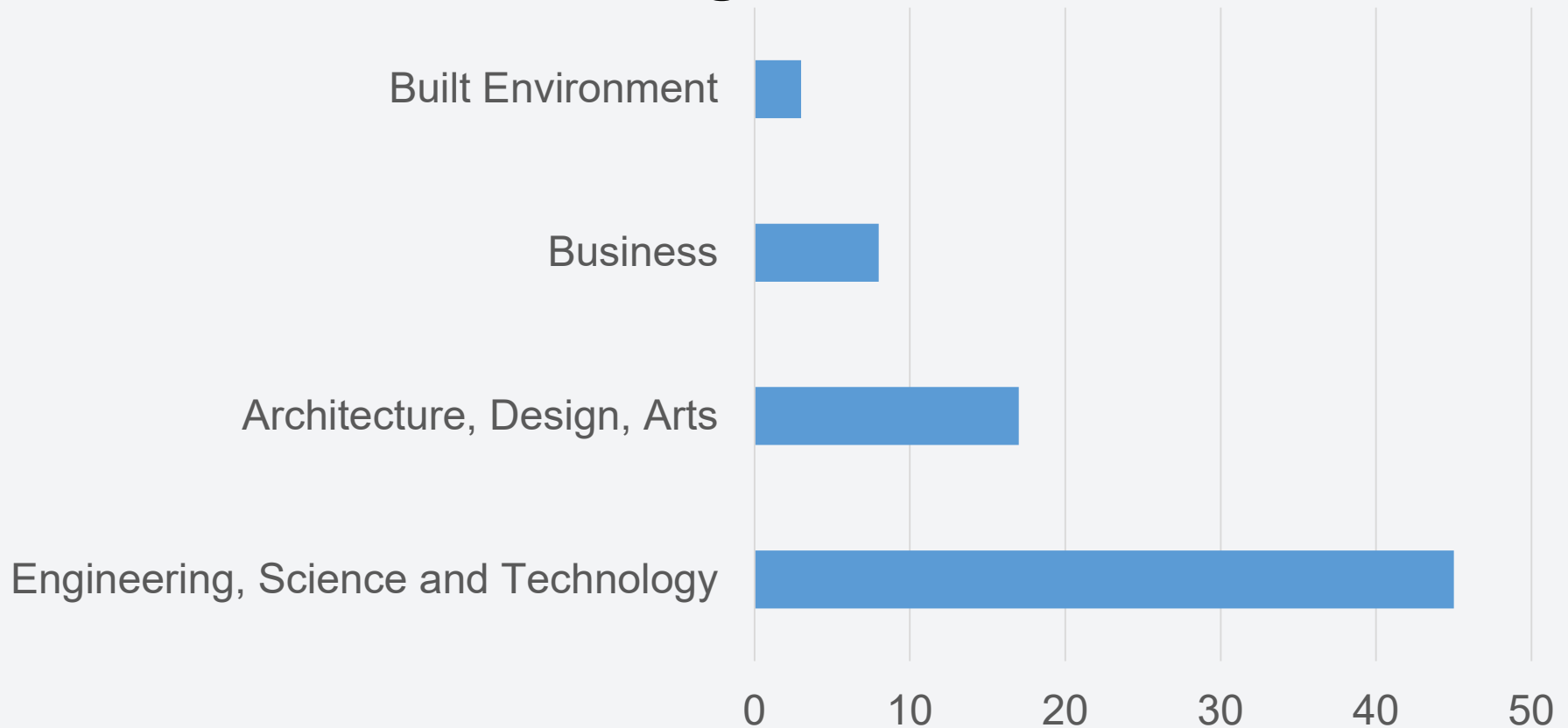


Architecture's Sibling Disciplines in ACSA Schools

Disciplines at the lowest administrative level where architecture is co-housed with other programs



American Council for Construction Education (ACCE) Accredited Programs in Colleges or Schools of...



Engineering has new opportunities for collaboration that increase alignment with modern workforce needs:

- Conduct design-build between architecture, construction, and engineering students
- Implement sustainability elements throughout their curricula...leading to LEED certification
- Collaborate with social, sustainability, resilience experts/students in senior design solutions
- Integrate authentic learning experiences throughout student groups, competitions, and social networking

“Digital” Technologies are interlaced throughout the acceleration of changes across the entire A/E workforce:

- Remote workers
- Cloud computing
- Mobile devices
- Web conferencing

- Speech recognition
- Artificial intelligence
- Online learning
- Internet-of-things

- *All Architecture, CSM, Engineering graduates must be ready to embrace, introduce, and champion newest smart connected technologies for their employers.*
- *Hispanic, First Gen and other URM's - we need to be intentional providing experiential education that addresses the “digital divide” and readies students for the integrated A/E environment*

My goals:

- Enhance student success, through promoting transdisciplinary curricular and experiential learning opportunities
- Prepare students for the modern integrated, collaborative workforce
- Take particular, active steps to well prepare our Hispanic, First Gen and other URM students for prosperous futures
- Increase UTSA's ability to successfully compete for extramural funding opportunities to address grand challenges
- Promote cross-cutting collaborations internally with other campus units, potentially through exploring joint faculty appointments or other mechanisms
- Promote external collaborations with industry, non-profits, and other academic institutions, including those committed to HSI partnerships
- Promote community collaborations, particularly in sustainable, smart, connected cities and infrastructure that also support our distinctive cultural heritage and future.

How do we.... leverage the existing *strong community engagement* and *people-centered approaches* that currently thrive in CACP, co-infuse respective strengths with collaborating disciplines,

- Sustainability
- Advancing San Antonio's rich cultural heritage and history
- Community engagement

in a bold, innovative, forward-looking, aligned vision that inspires donors, attracts high quality students and prepares them for the integrated workforce, and accelerates discovery and application?

Practical considerations:

- Take advantage of synergies to reduce technical and materials resources duplication
- Improve access to existing Student success programs
- Increase access to robust administrative support
 - *Development team*
 - *Academic Finance*
 - *Grant support*
- *Launch Shared PhD program tracks*

Proposed HCaP-like Initiative: *Integrative Design*

Use “HCaP-like Taskforce” process to:

Study and recommend multiple potential structures that bring together the disciplines/academic program currently administered by the colleges of engineering and CACP **under one administrative college home.**



Tremendous resource development potential:

- A new structure founded on **bold** ideas of interdisciplinary programs and professional preparation that enable the success of our students in the workforce;
- Enables Tri-directional impacts, with benefits to all disciplines, e.g.:
 - Infuses innovative design => Construction, Engineering
 - Infuses Low-Impact Development & Sustainability => Engineering
 - Infuses “Smart, Connected” => Construction, Architecture
 - Infuses Cultural Preservation => Engineering
 - Infuses Cost, Schedule, Performance => Architecture, Engineering
- Inspires donors with the **bold** aspirations – first in class
 - Shapes needs for new facilities, programs, and other infrastructure
 - *For example, a new building as a home for a school of interdisciplinary programs to design smart and connected infrastructure...*
 - *Endowments to support new faculty, new programs*

Proposed HCaP-like Initiative: *Integrative Design*

- Phase I Task Force: *Developing the Vision*
 - Inventory the current landscape of academics, research, experiential learning, and workforce development to develop notional structures for an organizational unit within COE that addresses the disciplines of Architecture, Construction and Planning;
 - Create notional models that align and connect disciplines to thrive
 - Identify innovative partnerships that help further their potential for faculty growth and student success.

⇒ Vetting

⇒ Administrative decision-making

Process Parameters:

Any proposed organizational structure must:

- Be innovative, exciting and **bold**
- Increase visibility and distinctive “brand” of all represented disciplines
- Advance the present and future workforce needs for our city, region and state
- Enhance opportunity for growth and/or enhancement of programs and research/scholarship for Architecture, Construction and Planning
- Synergize with and contribute to COE’s [Shape the Future](#) strategic vision
- Leverage strong administrative and academic support services in a single, strong administrative college home
- Capitalizes on synergies to increase success in the IRM model

Proposed HCaP-like Initiative: *Integrative Design*

- Phase II: *Implementing the Vision*
 - Charged following completion of Phase I
 - Addresses college naming and other key matters
 - Broader membership representation across all disciplines
 - Plan transition logistics

⇒ Implementation

Taskforce Process:

- Led by Dean Browning
 - Supported by Dr. Shannon Heuberger
- Widely Representative Taskforce Membership:
 - Focusing on: architecture, construction, planning and engineering disciplines;
 - Including also: environmental sciences, geography, business, art, public administration
- Resource members:
 - Assist in obtaining institutional data from IR, VPREDKE, and VPAA
- “3 X 3” Subcommittee Structure

Timeline Option A:

- Complete Phase I by October 2020 by working through Summer 2020
 - Deliver research by mid-June
 - Deliver notional models by mid-September
 - Forums/outreach late September
 - Decision ~ October
 - Launch of Phase II

Timeline Option B:

- Complete Phase I by February 2021 by suspending work over Summer 2020
 - Deliver research by October 1
 - Deliver notional models by early December
 - Forums/outreach in January
 - Decision ~ February
 - Launch of Phase II

Next up:

- Complete Qualtrics to be distributed later this week:
 - Call for nominations to serve
 - Identify cutting edge approaches, programs, ideas for Taskforce consideration
 - Input to Taskforce on any specific matters to address
- Spec-out Initiative for April launch

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