

13: A Cyberinfrastructure and Communication-Based Model to Support a Synergistic Environment for Integrating and Institutionalizing Proven Practices

Anchor: CREST Cyber-ShARE Center of Excellence
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Vision: To transform UTEP into a university in which faculty are committed to sharing resources, collaboration is supported through recognition and rewards, effective EHR initiatives are extended across the university, discussion among diverse faculty members and administrators stimulates new ways of student preparation and advancement in STEM areas, and proactive strategies are employed to identify effective avenues for sustainability.

Challenge: Collecting and publishing research expertise at a university and keeping it current is crucial for building collaborations and promoting expertise. The challenge is in the integration of information about education and research efforts that can be maintained at multiple sites or databases: websites of faculty, departments, and colleges; personal computers; university databases; and specialized systems such as Digital Measures and Digital Commons.

Methodology: We address data integration by using Semantic Web technologies to harvest, expose, and disseminate UTEP’s expertise that can then be used to identify expertise on campus, establish collaborations, and match potential grant opportunities. The project focuses on: **i)** capturing profiles and faculty- and staff-initiated communities of practice; **ii)** developing a set of aligned ontologies describing research and education disciplines, UTEP’s priority areas and sub-discipline (research interest keywords) created by researchers, and **iii)** integrating research news stories from UTEP’s Office of University Communications.



EXPERTISE CONNECTOR
CONNECTING EXPERTISE, RESEARCH AND CREATIVITY

WHAT IS EXPERTISE CONNECTOR?

A publicly accessible portal to find and connect with people, centers, communities, research stories, and events at UTEP. It is the face of research and creative activities and is supported through a partnership with the Office of the Provost, Office of Research and Sponsored Projects and the NSF I3 program. People who are part of Expertise Connector move UTEP.

HOW MIGHT I USE EXPERTISE CONNECTOR?



- Discover people, communities, stories, centers, research, creative activities, expertise, events
- Promote people, communities, stories, centers, expertise
- Share communities, stories, centers, research, events

HOW DO I PARTICIPATE IN EXPERTISE CONNECTOR?

- By completing and certifying the marked fields in the Personal & Contact Information section in Digital Measures.
- By joining an I3 Move Community or by creating a new one.
- By attending events that connect people, communities and centers.

DISCOVER. SHARE. CONNECT.
expertise.utep.edu



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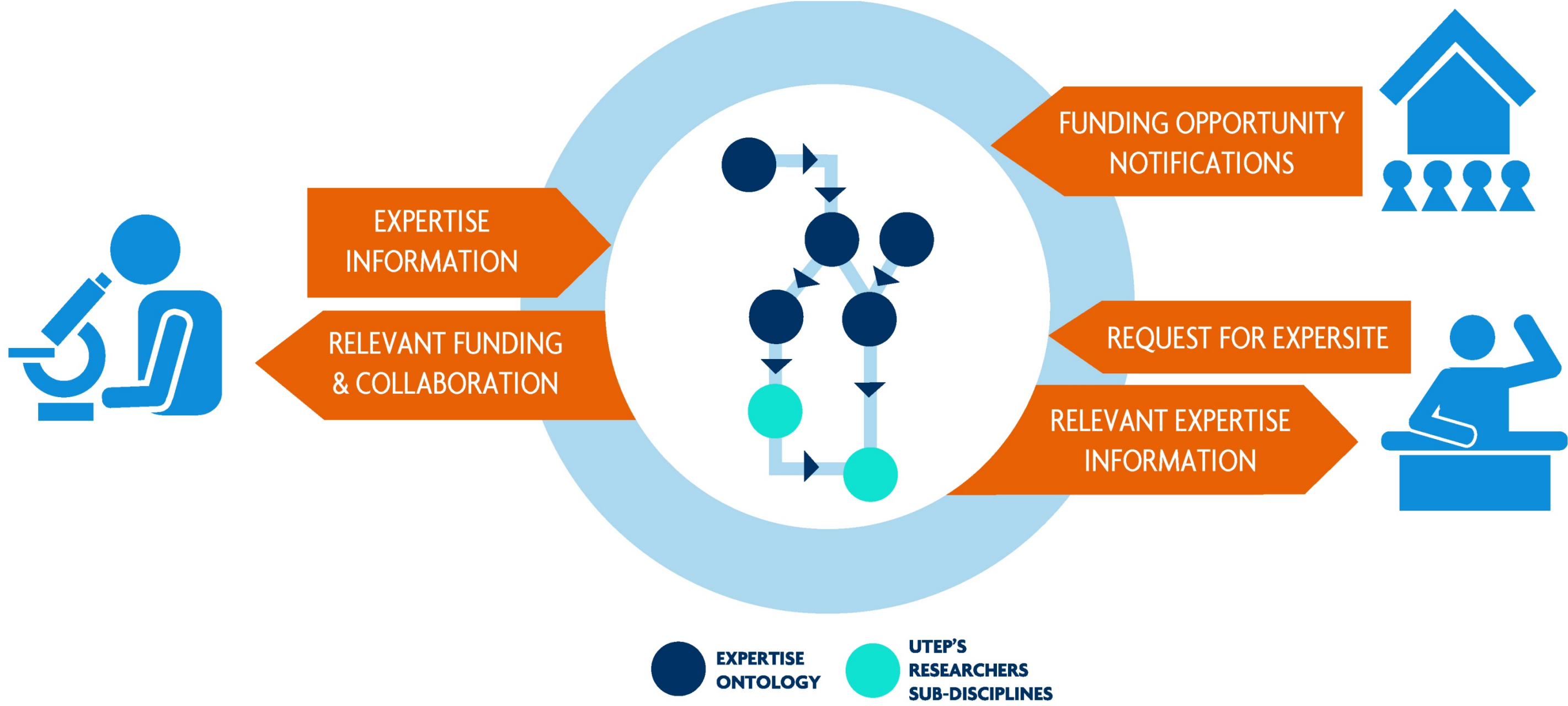
WHAT IS AN I3 MOVE COMMUNITY?

A group of individuals who hold an interest, concern, or passion and who interact regularly to **share** and **motivate** action. These communities connect people with people, people with experts, and people with information [e.g., resources on campus, related initiatives, and effective practices]. How will you move UTEP?

For more information visit
i3.cybershare.utep.edu/news
or email connect@utep.edu

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Overview of UTEP’s Expertise Connector System



EXPERTISE CONNECTOR
CONNECTING EXPERTISE, RESEARCH AND CREATIVITY

OFFICE OF RESEARCH & SPONSORED PROJECTS CONTACT

PEOPLE CENTERS COMMUNITIES RESEARCH STORIES EVENTS FIND

Back to results **Undergraduate Research iMove Community**

MEMBERS TAG CLOUD

cyberinfrastructure • requirements engineering • software engineering • verification and validation • workflows Chemical Education • global education • institutional transformation • STEM Education • student success • undergraduate research

- Create Related Effort
- Create Resource
- Create Event
- Invite Friend
- 3 members
- Manager's boards
- Join

NETWORKS

f

EVENTS

Feb 02 8:00

DESCRIPTION

The Undergraduate Research iMove Community connects faculty and professional staff who wish to share data, knowledge, experiences, and best practices in undergraduate research, scholarly and creative activities. UTEP's Campus Office of Undergraduate Research Initiatives (COURI) serves as the central unit on campus for facilitating undergraduate training in research, scholarly, or creative activities, enhancing student's academic success and professional development, and showcasing the results of their work.

ASPIRATIONS

The community aspires to: - Learn from members - Promote interdisciplinary undergraduate initiatives - Share effective practices - Learn about and disseminate undergraduate research opportunities

KEYWORDS

- professional development
- student development
- undergraduate mentoring
- undergraduate research
- undergraduate training

UTEP STRATEGIC AREAS

- Education for the 21st Century
- Demographic

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Screen shot of iMove Community Page: Connecting Effective Practices and Research

Institutionalization:

- Innovative, interdisciplinary research projects receive seed money through the Provost’s Interdisciplinary Research (IDR) Fund program.
- The Provost’s Office established the Campus Office of UG Research Initiatives.
- The Office of Research and Sponsored Project created a new position, Interdisciplinary Network Manager, that is responsible for facilitating connections on campus regarding interdisciplinary research and projects.
- The Center for Institutional Evaluation and Resource Planning established a Student Success Database.
- Graduate School hired a full-time Professional Development Director.

Outcomes:

- The Expertise Connector System is expected to be launched in April 2014.
- Communities are being formed in areas such as mentoring, peer leading, advising, gender in STEM, and UG research.
- Engagement Encounter events and an annual IDR Symposium provide opportunities for faculty to share effective practices and research interests.
- Faculty are engaged in graduate professional development and Fellow-Net, an effective practice approach, is now available to students across all disciplines.
- I³ surveys and interviews capture the positive changes at the university.