 Bold Solutions | Global Impact: Updating Our Strategic Plan

Vistasp M. Karbhari
June 2018
The Model 21st Century Urban Research University

FOCUS
- Global Impact through Enabling a Sustainable Megacity

GUIDING THEMES
- Health and the Human Condition
- Sustainable Urban Communities
- Global Environmental Impact
- Data-Driven Discovery

GUIDING ASPIRATIONS
- Transform the student experience by enhancing access and ensuring success
- Engage in high-impact research and scholarship
- Build on faculty excellence to strengthen academic programs
- Strengthen collaboration with corporate and nonprofit sectors
- Enhance visibility and impact through global engagement
- Lead in creativity, innovation, and entrepreneurship

OPERATIONAL PRIORITIES
- Undergraduate education
- Graduate education
- Professional/continuing education globally
- Research and economic development
- Faculty and staff
- Infrastructure and resources
Our Overarching Focus

- 100 years ago, two out of 10 people lived in cities
- By 1950 the number had grown to three out of 10
- Today more than 50% of the world’s population lives in cities
- DFW is moving rapidly to Megacity status
- As urbanization increases, so do issues of sustainability, infrastructure, social inequity, and health issues.

Enabling a Sustainable Megacity

- Megacities pose an unprecedented need for bold solutions on a global scale
- UTA is uniquely positioned to address epic challenges facing growing urban regions:
  - improving health care;
  - addressing aspects related to the built environment and creating more livable communities;
  - developing a workforce and catalyzing socioeconomic development;
  - managing our natural resources; and
  - harnessing the proliferation of data.
- UTA will leverage expertise to assist emerging megacities to become sustainable economically and enhance the quality of life
UTA focuses on health and the human condition from distinct, yet broadly encompassing, vantage points. UTA explores health management within physical, mental, emotional, and social contexts. Health innovations are distinguished by diagnostic, prognostic, and technological advancements that help people live longer, healthier, and happier lives.

**KEY INITIATIVES**

1. Established a new College of Nursing and Health Innovation (CoNHI) to enhance the health sciences focus.
2. Develop closer collaborations between UTA and the health sector through joint projects and appointments.
3. Establish a Center for Engineering in Medicine to enhance translational research.
4. Enhanced research foci in bioengineering, neurosciences, kinesiology, gerontology, and computational sciences, supporting the thrust through cluster and targeted hires.
5. Enhance the health focus in the College of Business (CoB).
6. Enhance the reach and impact of programs involving the School of Social Work (SSW).
Progress: Sustainable Urban Communities

UTA fosters sustainable urban communities through a focus on the natural, built, economic, cultural, and social environments. Learning from the past and present to ensure a sustainable future, we examine and interpret demographic changes and the broad spectrum of human capital.

KEY INITIATIVES
1. Established a new college integrating the School of Architecture and the School of Urban and Public Affairs.
2. Developed a new construction management degree.
3. Developed a new architectural engineering degree to meet critical workforce needs.
4. Established an Institute for Sustainability.
5. Establish a department/school of resource engineering in collaboration with Fort Worth and the corporate community.
6. Enhance research, teaching, and outreach in the area of urban communities through integration of efforts of existing centers and through key hires.
Progress: Global Environmental Impact

UTA addresses critical issues that affect our planet, including climate change, energy, water, natural disasters, and pollution. By analyzing global population dynamics, we are developing an understanding of our world—and solutions for its problems—through avenues ranging from environmental economics to history.

KEY INITIATIVES
1. Enhanced the Shimadzu Institute for Research Technologies to enable greater research in areas related to environmental science and built faculty strength in this area.
2. Establish a crosscutting institute to enable key thrusts in water and environmental impact.
3. Develop strengths in areas related to environmental policy.
4. Develop new programs focused on water resources, conservation, pollution, and disaster mitigation.
5. Establish a department/school of resource engineering.
6. Enhanced the continuing and professional education efforts aimed at environmental effects, regulation, and compliance.
UTA focuses on research that integrates big data from multiple fields and develops data analytics and science that explore data from a wide variety of sources. Data is used to discover and share new knowledge, as well as enhance current knowledge.

**KEY INITIATIVES**

1. Established a new degree in data analytics in the College of Business (CoB) to meet workforce needs.
2. Establish true multidisciplinary degrees in “data science.”
3. Established an Institute for the Predictive Performance of Materials and Structures as a national center of excellence to improve the integrity of engineered materials and structures.
4. Establish a Center for Modeling, Simulation, and Visualization.
5. Established thrusts in the digital humanities, media, and digital communications.
6. Developed strengths in data security and resilience through collaborations among the colleges.
Continued Planning for the Future

<table>
<thead>
<tr>
<th>FOCUS</th>
<th>GUIDING THEMES</th>
<th>GUIDING ASPIRATIONS</th>
<th>BUSINESS PLANS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Focus</td>
<td>Dimos, Lim, Karbhar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Themes</td>
<td>Lim</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GA1: Student Exp</td>
<td>Nagy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GA2: Research</td>
<td>Dimos</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GA3: Faculty</td>
<td>Lim</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GA4: Collaboration</td>
<td>Madden</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GA5: Global Impact</td>
<td>Lim</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GA6: Creativity</td>
<td>Dimos</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Business Organization</td>
<td>Davis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>University</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Auxiliaries</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Academic Affairs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Research</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Plans</th>
<th>Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Infrastructure</td>
<td>Hall</td>
</tr>
<tr>
<td>Communications &amp; Outreach</td>
<td>Jeter</td>
</tr>
<tr>
<td>Communications</td>
<td></td>
</tr>
<tr>
<td>Outreach</td>
<td></td>
</tr>
<tr>
<td>Talent &amp; Climate</td>
<td>Hood</td>
</tr>
<tr>
<td>Recruitment Enterprise</td>
<td>Johnson</td>
</tr>
<tr>
<td>Technology</td>
<td>Neyland</td>
</tr>
<tr>
<td>Enterprise</td>
<td></td>
</tr>
<tr>
<td>Teaching &amp; Learning</td>
<td></td>
</tr>
<tr>
<td>Research</td>
<td></td>
</tr>
<tr>
<td>Development</td>
<td>Robinson</td>
</tr>
<tr>
<td>Alumni</td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td></td>
</tr>
</tbody>
</table>

FOCUS
GUIDING THEMES
GUIDING ASPIRATIONS
BUSINESS PLANS
From 2018 to 2020 and Beyond

Why are we here?

- To educate students
- To create, disseminate, and apply knowledge
- To positively impact the communities we serve

FOCUS: ENABLING THE SUSTAINABLE MEGACITY

1. Be the intellectual center and the provider of intellectual capital / workforce for the Megacity
2. Be the research and innovation engine for the Megacity
3. Be the enabler of healthy living for the Megacity
4. Be the resource to ensure sustainable growth and resource delivery for the Megacity
5. Be the catalyst and connector for sociocultural and economic engagement globally for the Megacity
Some Directions

- Continue to build research strength including through true Centers/Institutes
- Continue adding to faculty depth and numbers
- Continue to grow enrollment selectively keeping in mind past targets, workforce needs, and unique opportunities to differentiate UTA
- Leverage existing initiatives/strengths
  - The Center for Transportation, Equity, Decisions and Dollars (C-TEDD)
  - Genomics Center
  - Digital Humanities, Forensics, Music & Entrepreneurship
  - Data analytics
  - Health, health care administration
  - Energy
  - Science in Human Services, Philanthropy
  - Urban education, special ed
- Develop a true continuum of knowledge linking schools, community colleges, the University, and the workforce (Lifelong learning from high school through career through degrees and credentials)
- Leverage digital expertise by UTA Digital
- Enhance the student experience through greater engagement with the community and the corporate world
A good hockey player plays where the puck is. A great hockey player plays where the puck is going to be - Wayne Gretzky

UTA’s goal is to be the Model 21st Century Urban Research University bridging access & excellence at an affordable cost