

**Future Ready Graduates  
Eurasian Higher Education Leaders' Forum 2019**

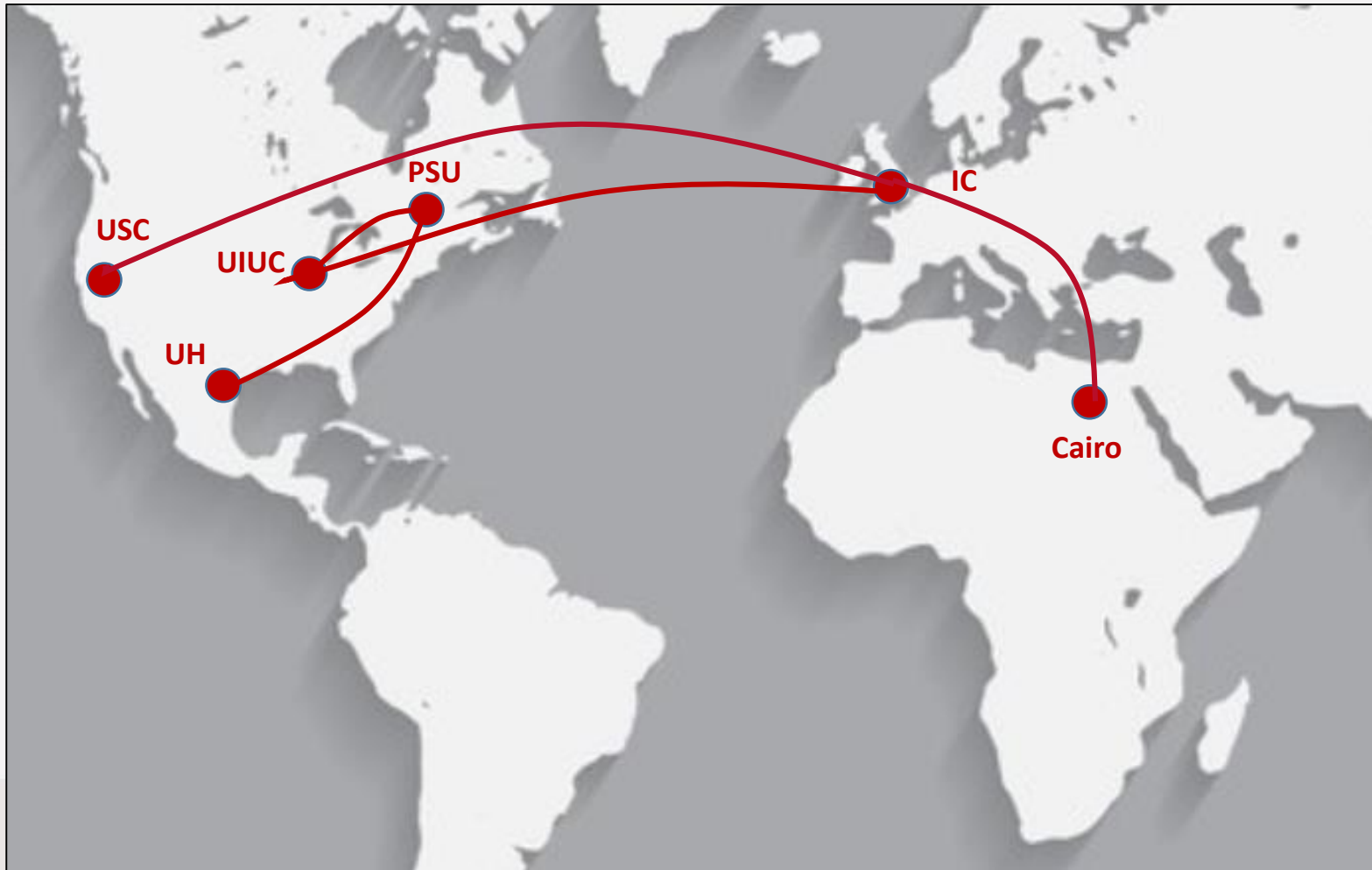
**Shaping the Industry-Academe Ecosystem**

**A Complex Issue of Context,  
Definition and Diversity**

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# Geography and Technical Culture



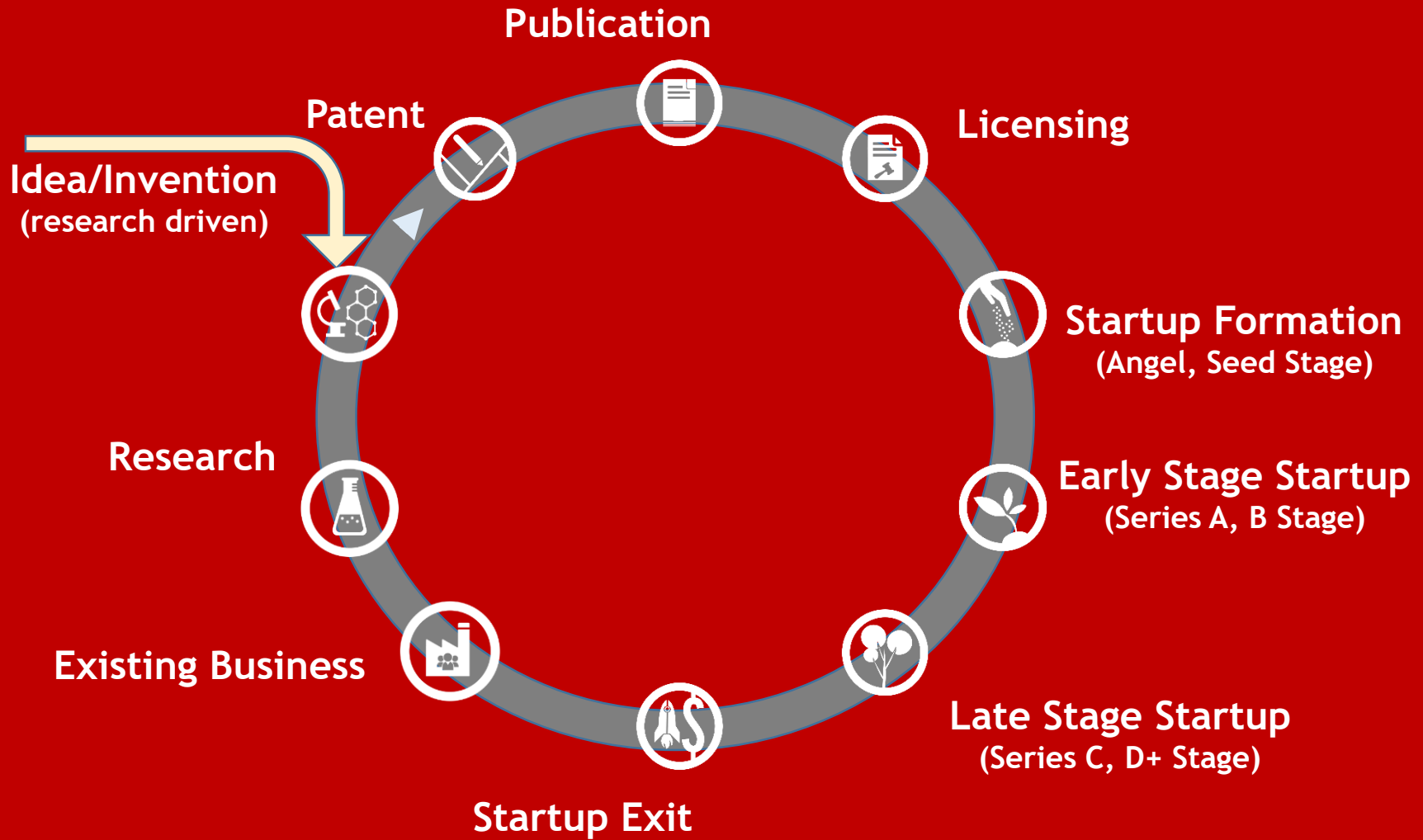
# Contextual Issues First

- ❑ **Is there a crisis?**
- ❑ **Will there be a crisis?**
- ❑ **Universities Characterized by:**
  - **Numbers – University R and University H**
  - **Market – University O and University I**
  - **Student Background and Destination – R and H again**
  - **Most Important Value Added – TMC and City of Houston**

# The Innovation Ecosystem

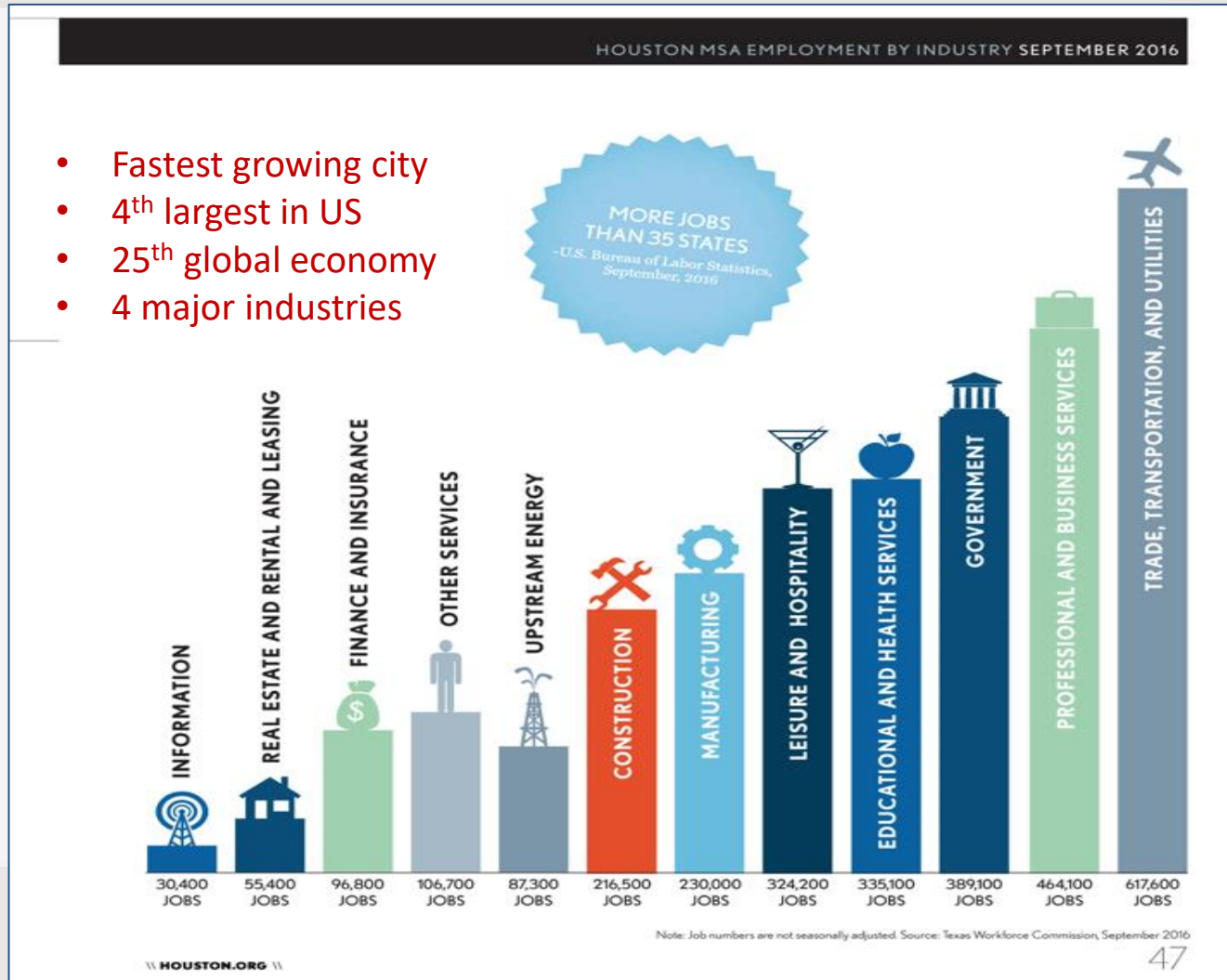
- ❑ **Overused and Not Understood**
- ❑ **Have worked quite well thus far**
- ❑ **Role of US government limited to IUCRCs, SBIRs, STTRs**
- ❑ **State and city leadership have a role to play**
- ❑ **Correlation between GPA and entrepreneurship**
- ❑ **If we have to manage the innovation-academe ecosystem**
  - **Define**
  - **Assess**
  - **Identify**
  - **Train**

# The Innovation Ecosystem - Define, Assess



# The Innovation Ecosystem - Assess, Identify

- Fastest growing city
- 4<sup>th</sup> largest in US
- 25<sup>th</sup> global economy
- 4 major industries



# The Innovation Ecosystem - Train

## □ Students

- Formal – Entrepreneurship degrees, IP management certificates
- Vocational – Internships, bridging fund

## □ Faculty

- Semi-formal – Startup workshops, faculty cafes
- Practical – Active Industry Liaison Office, significant access to funds and support

# Success Story

## Up-and-coming University H

- ❑ First-in-family college students 60% of students
- ❑ Total 76,000 students in 4 universities (UHV, UHCL, UHD and UH)
- ❑ Highest IP income in the USA for universities with no medical school
- ❑ Incubation space is 100% full and there is a waiting list
- ❑ Started attracting major established companies worldwide
- ❑ In Top 100 Global Universities with US utility patents
- ❑ Embraced and strongly supported by the Houston innovation ecosystem
- ❑ Won Innovation & Economic Prosperity University Award of APLU





[www.uh.edu/innovation](http://www.uh.edu/innovation)

UNIVERSITY of  
**HOUSTON**  
DIVISION OF RESEARCH

<p><b>10 million</b> PATIENT ENCOUNTERS PER YEAR</p>	<p><b>180,000+</b> ANNUAL SURGERIES <i>TMC begins one surgery every three minutes</i></p>	<p><b>750,000</b> ER VISITS PER YEAR</p>	<p><i>With 1,345 total acres &amp; \$25B in GDP, TMC is the</i> <b>8th largest</b> BUSINESS DISTRICT IN THE U.S.</p>	<p><i>TMC offers over</i> <b>9,200</b> TOTAL PATIENT BEDS</p>	<p><i>TMC's campus encompasses</i> <b>50 million</b> DEVELOPED SQUARE FEET</p>
<p><i>Home to the</i> <b>WORLD'S LARGEST CHILDREN'S HOSPITAL &amp; WORLD'S LARGEST CANCER HOSPITAL</b> <i>Texas Children's Hospital and The University of Texas MD Anderson Cancer Center</i></p>			<p><b>OVER 25,000 BABIES DELIVERED PER YEAR</b> <i>TMC delivers one baby every 20 minutes, resulting in approximately 26,280 births per calendar year.</i></p>		
<p><b>13,600+</b> TOTAL HEART SURGERIES</p>		<p><b>\$3 billion</b> IN CONSTRUCTION PROJECTS UNDERWAY</p>		<p><b>106,000+</b> TOTAL EMPLOYEES</p>	