



# Comprehensive Strategic Partnership Between Iran and China AmirKabir University of Technology



**NEXUS**  
NEXUS & HSE CENTER

Bahram Taheri

AKUF, Nexus & HSE Center, Nexus & HSE Advisor to Vice President, DOE

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# China in Brief

## Formation

- First pre-imperial dynasty c. 2070 BCE
- First imperial dynasty 221 BCE
- Republic established 1 January 1912
- Proclamation of the People's Republic 1 October 1949
- Current constitution 4 December 1982
- Last polity admitted 20 December 1999

**Gini (2018)** ▲ 46.7<sup>[12]</sup>  
high

**HDI (2018)** ▲ 0.758<sup>[13]</sup>  
high · 85th



**Ethnic groups** Majority Han Chinese  
55 minorities<sup>[d]</sup> [show]

**Religion** 73.6% No religion or Folk  
15.8% Buddhism  
5.5% Salvationist sects  
3.6% Christianity  
1.5% Islam<sup>[1][2]</sup>

## Population

- 2019 estimate ▲ 1,400,050,000<sup>[9]</sup> (1st)
- 2010 census 1,340,910,000<sup>[9]</sup> (1st)
- Density 145<sup>[10]</sup>/km<sup>2</sup> (375.5/sq mi) (83rd)

## GDP (PPP)

- 2020 estimate
- Total ▲ \$29.471 trillion<sup>[11]</sup> (1st)
- Per capita ▲ \$20,984<sup>[11]</sup> (67th)

## GDP (nominal)

- 2020 estimate
- Total ▲ \$15.269 trillion<sup>[11][note 1]</sup> (2nd)

## Area

- Total 9,596,961 km<sup>2</sup>  
(3,705,407 sq mi)<sup>[9][7]</sup>  
(3rd/4th)
- Water (%) 2.8%<sup>[h]</sup>

# Iran in Brief

**GDP (PPP)** 2019 estimate

- Total ▼ \$1.471 trillion<sup>[7]</sup> (18th)
- Per capita ▼ \$17,662<sup>[7]</sup> (66th)

**GDP (nominal)** 2019 estimate

- Total ▲ \$458.500 billion<sup>[7]</sup> (25th)
- Per capita ▲ \$5,506<sup>[7]</sup> (95th)

**Gini (2016)** ▲ 40.0<sup>[8]</sup>  
medium

**HDI (2018)** ▼ 0.797<sup>[9]</sup>  
high · 65th



## Establishment history

- Median Empire c. 678 BC
- Achaemenid Empire 550 BC
- Parthian Empire 247 BC
- Sasanian Empire 224 AD<sup>[4]</sup>
- Safavid dynasty 1501<sup>[5]</sup>
- Afsharid dynasty 1736
- Zand dynasty 1751
- Qajar dynasty 1796
- Pahlavi dynasty 15 December 1925
- Islamic Revolution 7 January 1978 – 11 February 1979
- Current constitution 24 October 1979
- Latest amendment 28 July 1989

## Area

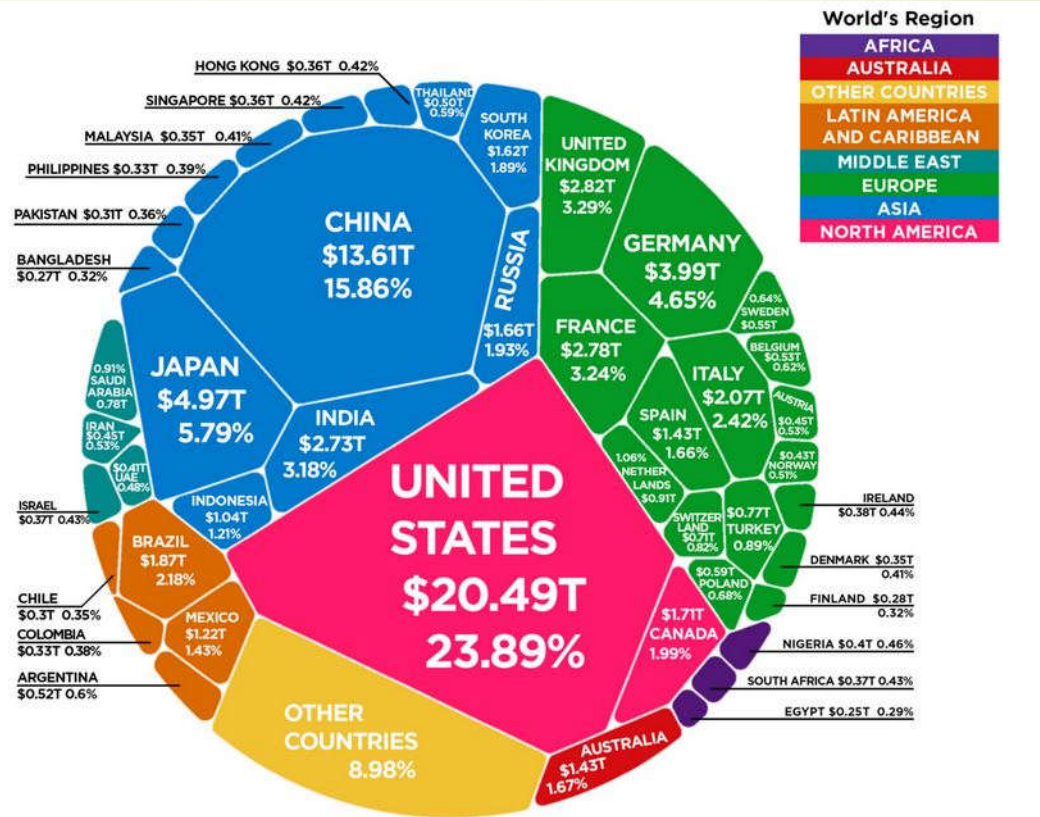
- Total 1,648,195 km<sup>2</sup> (636,372 sq mi) (17th)
- Water (%) 7.07

## Population

- 2019 estimate 83,183,741<sup>[6]</sup> (17th)
- Density 48/km<sup>2</sup> (124.3/sq mi) (162nd)



# World Economy, 2018 86 Trillion Dollars



Article & Sources:  
<https://howmuch.net/articles/the-world-economy-2018>  
<https://databank.worldbank.org>



# The Structure of Agreement

- ▶ consists of 20 articles, specifying the roadmap of developing and deepening Tehran-Beijing ties in:
  - ▶ “Political”, 6 Articles
  - ▶ “Executive Cooperation”, 4 Articles
  - ▶ **“Human and Cultural”, 2 Articles**
  - ▶ “Judiciary”, 4 Articles
  - ▶ Security and Defense, 2 Articles
  - ▶ and Regional and International, 2 Articles



## C- Human and Cultural Domain

- ▶ 12- Both sides shall enhance their cooperation in the fields of
  - ▶ academic and higher education,
  - ▶ exchange of professors and students,
  - ▶ scientific cooperation
  - ▶ transfer of new technologies
  - ▶ and execution of joint projects.



清華大學  
Tsinghua University

### University rankings

#### Global – Overall

<b>ARWU World</b> <sup>[53]</sup>	29
<b>QS World</b> <sup>[54]</sup>	15
<b>THE World</b> <sup>[55]</sup>	20

#### Regional – Overall

<b>QS Asia</b> <sup>[56]</sup>	3
<b>QS BRICS</b> <sup>[57]</sup>	1
<b>THE Asia</b> <sup>[58]</sup>	1

#### National – Overall

<b>BCUR National</b> <sup>[59]</sup>	1
<b>QS National</b> <sup>[60]</sup>	1
<b>THE National</b> <sup>[61]</sup>	1



The traditional He Tang Yue Se (*moonlit pond*) is part of the Qing Dynasty Prince's Residence and Garden located on the grounds of Tsinghua University



A glimpse of Xichun Garden, a Qing Dynasty garden on Tsinghua University campus



Built in 1917, the Grand Auditorium with its Jeffersonian architectural design is a centerpiece of the old campus





# TsingHua Departments

- ▶ Academy of Arts and Design
- ▶ School of Aerospace Engineering
- ▶ **School of Architecture**
- ▶ **School of Civil Engineering**
- ▶ **School of Economics and Management**
- ▶ **School of Environment**
- ▶ PBC School of Finance
- ▶ School of Humanities
- ▶ **School of Information Science and Technology**
- ▶ School of Journalism and Communication
- ▶ School of Law





# TsingHua Departments

- ▶ School of Sciences
  - ▶ Department of Mathematical Sciences
  - ▶ Department of Physics
  - ▶ Department of Astronomy
  - ▶ Department of Chemistry
  - ▶ Department of Earth System Science

# Depiction of Closed vs Open Industrial Processes

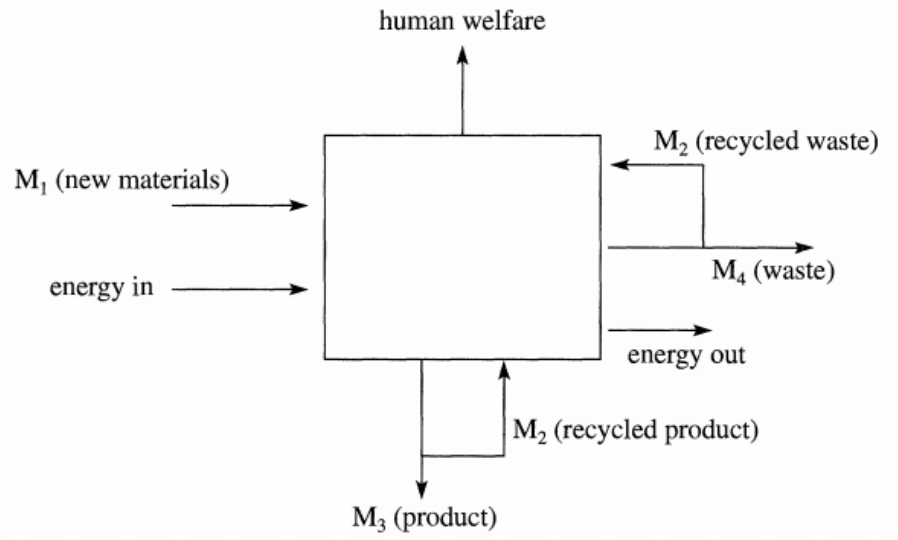


Figure 2. Simplified box diagram of the traditional industrial flow system.

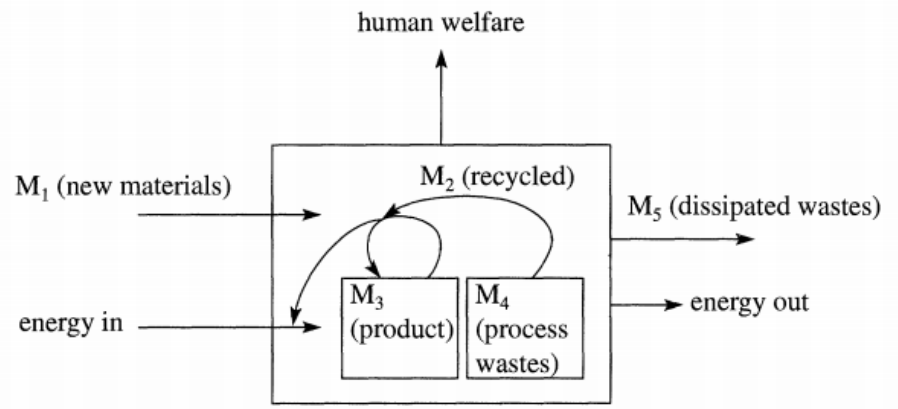
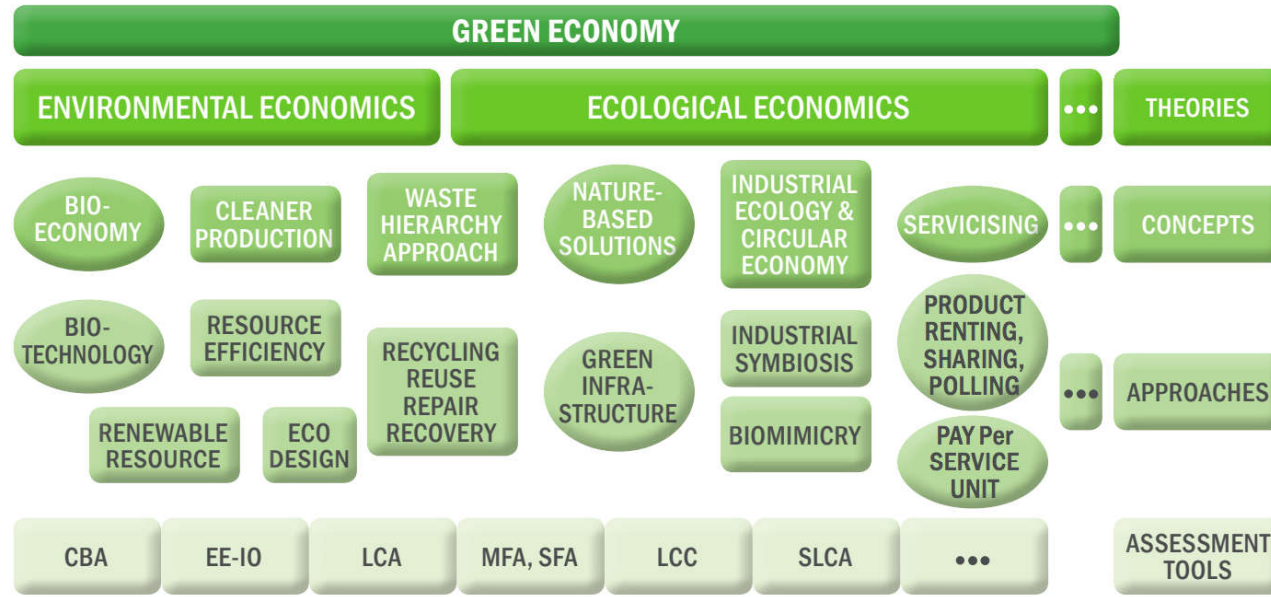


Figure 3. A simplified box diagram of a possible industrial flow system, with a revised boundary showing increased internalization of industrial responsibility for reuse and recycling.

# Green Economy



## Environmental benefits

- Climate change mitigation
- Improvement of resource efficiency
- Reduction in fossil fuel dependency
- Reduction of air and water emissions
- Reduction in loss of biodiversity

## Economic benefits

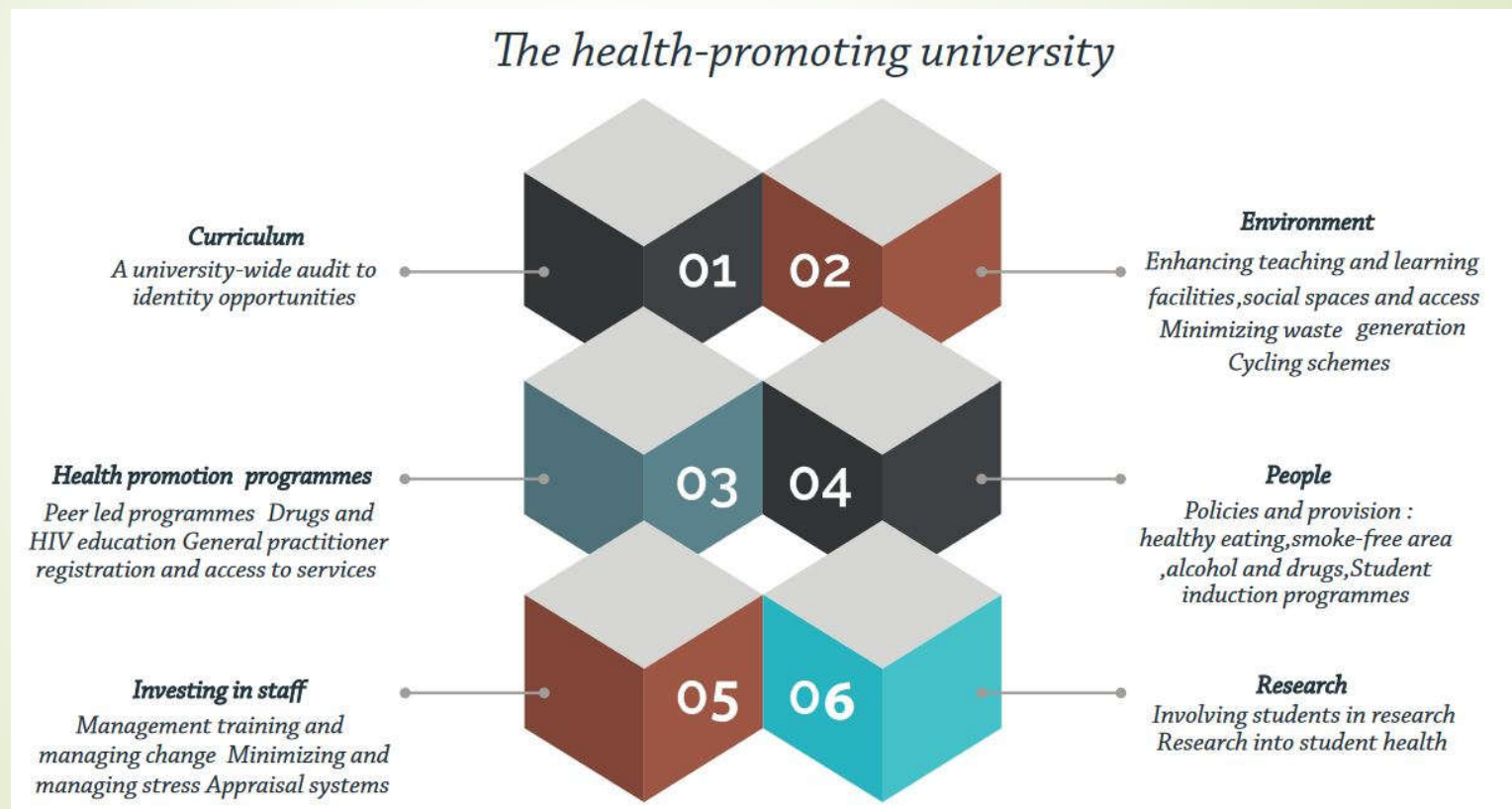
- Improvement in economic growth, productivity and competitiveness
- Accelerated innovation, through correction of market failures in knowledge

## Social benefits

- Reduction of env. induced health problems and risks
- Increased resilience to natural disasters, commodity price volatility economic crises
- Job creation and poverty reduction
- Improved regional equality
- Improved access to environmental services & amenities

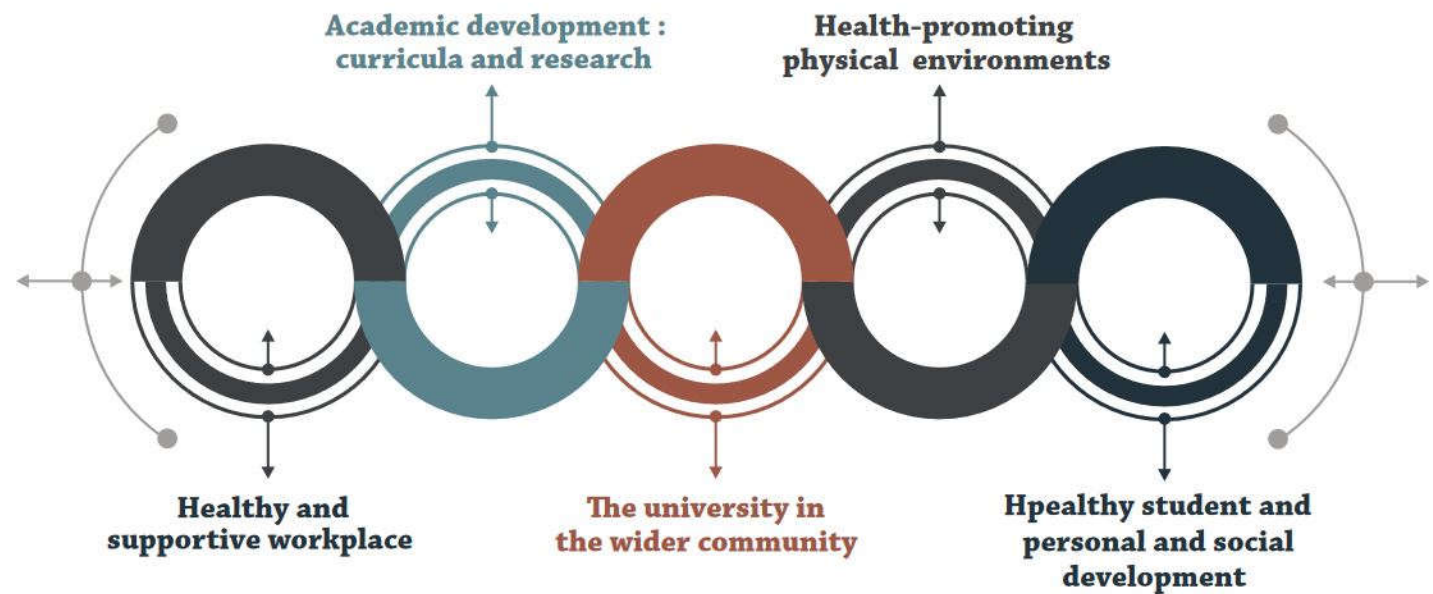


# Elements that Should be Covered



# Healthy University Agenda

## Policy and planning





Amirkabir University of Technology  
(Tehran Polytechnic)

## Contact Us

<http://nexuscenter.aut.ac.ir/>  
[bahramtaheri101@yahoo.com](mailto:bahramtaheri101@yahoo.com)  
**0912-471-0422**

**AmirKabir University Foundation  
Nexus & HSE Center  
AmirKabir**

**University of Technology**

•021 6697 8961

•021 6697 8962

**Iran, Tehran, Enghelab Avenue, Saeed  
alley, Naeni Deadend, # 5, 2<sup>nd</sup> floor**

