



Ministry of Higher Education and Scientific Research Strategy 4.0

“Egypt’s higher education and scientific research strategy ... Opportunities and Challenges”

Prof. Dr. Khaled Abd El- Ghaffar
Minister of Higher Education and Scientific Research

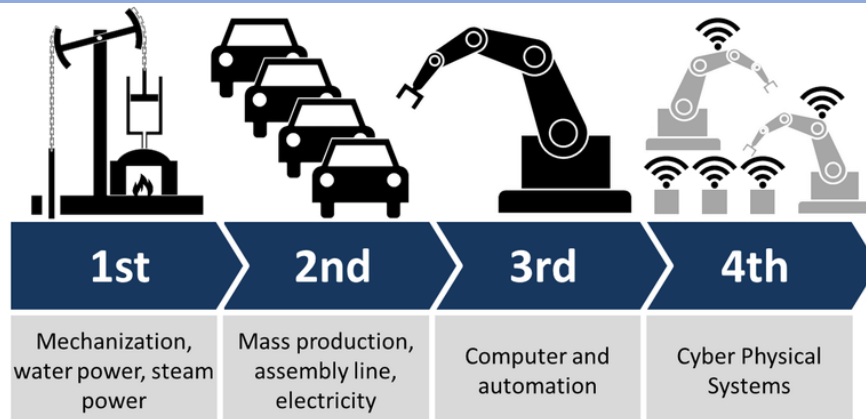


Higher Education and Scientific Research Strategy 4.0

Egypt seeks **Excellence** in Higher Education and Scientific Research

To be prepared for the

The Fourth Industrial Revolution



Source: by Christoph Roser at AllAboutLean.com)

Society 5.0



Source: www8.cao.go.jp



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Ministry of Higher Education
& Scientific Research

Addressing Challenges

Legislations

- 
- Scientific Incentives Law
 - International Branch Campuses Law
 - University Hospitals Law
 - Faculties of Medicine Law
 - Space Agency Law
 - Innovators Support Fund Law

Infrastructure

- 
- Smart Cities/Smart Universities
 - National Digitization Program

Technological Universities

8 New technological universities

New Universities

- 
- El-Galal University
 - King Salman University
 - Al-Alamein University
 - Canadian University
 - European University

New Programs

- 
- Faculties of Medicine
 - Faculties of Engineering
 - Integrated Learning



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Higher Education in Egypt: Facts and Figures

We educate

3 Million

students enrolled in
higher education
sector.





Egypt: Facts & Figure

Young population – Projection of Age Group Population

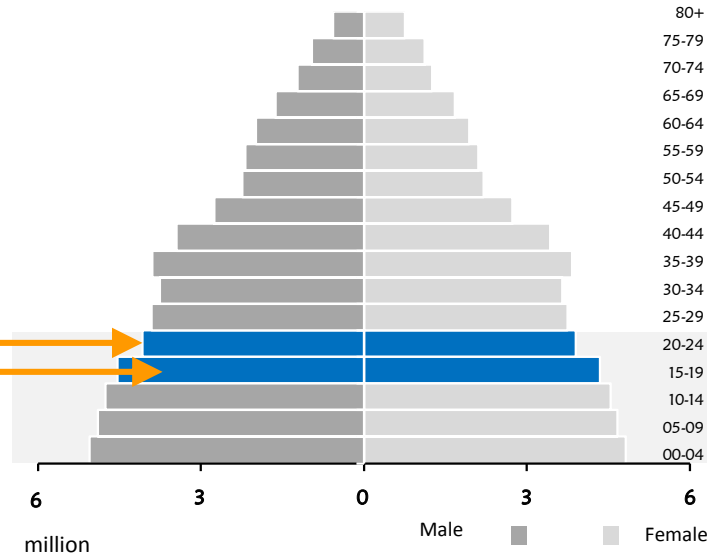
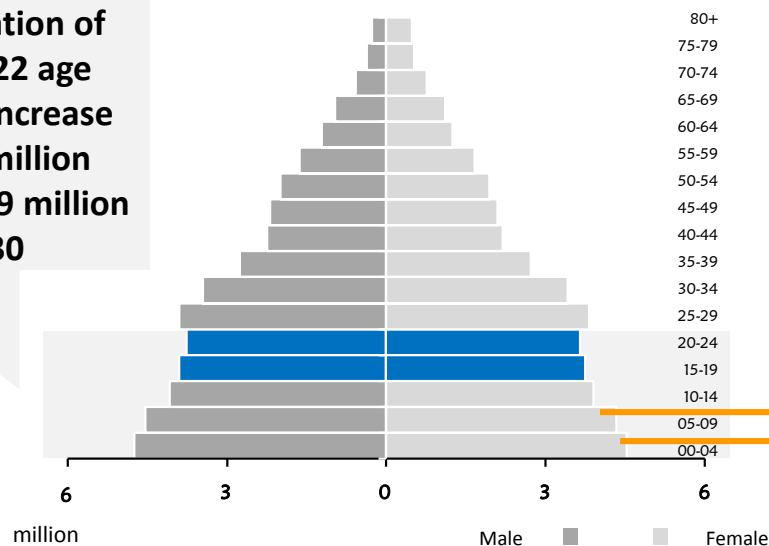
2030 population pyramid



2016 population pyramid



The population of the 18 to 22 age group will increase from 7.9 million currently to 9 million in 2030

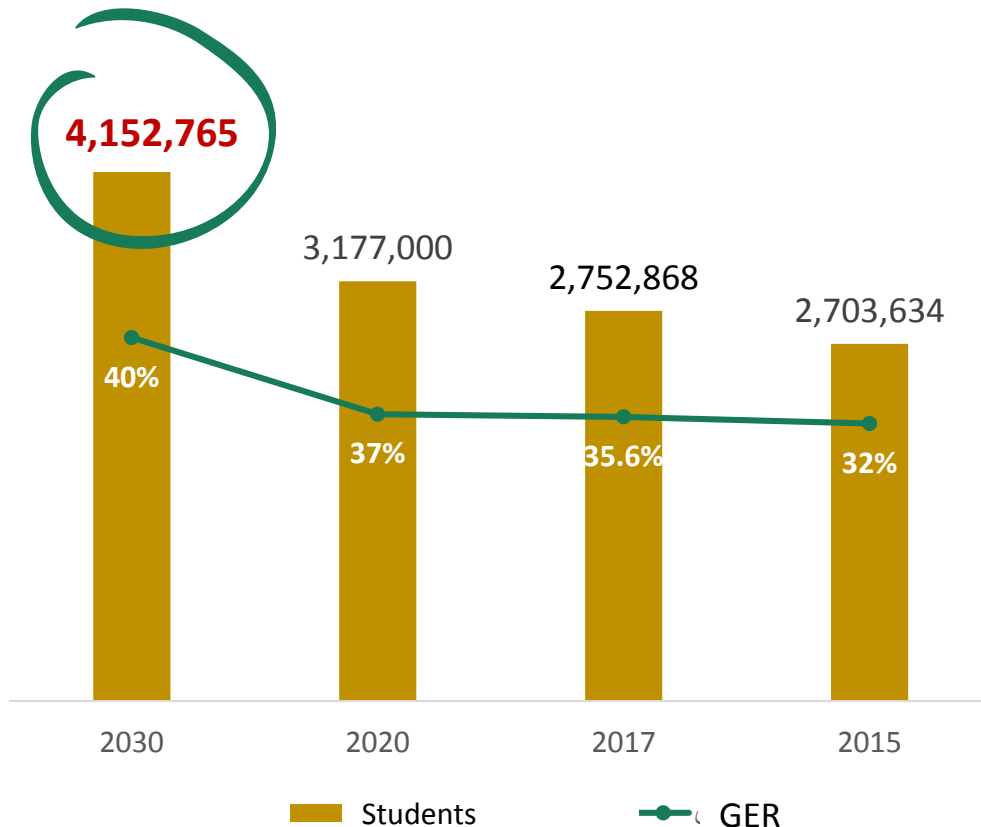


Total Population in 2017
104 million inhabitant



Egypt: Facts & Figures

High Demand on higher education Sector in Egypt



▶ To achieve our Target we must provide additional

100 thousand HE
opportunity BY 2020.

▶ In addition to

1 Million

from 2020-2030



Higher Education in Egypt: Facts and Figures

26 Public Universities

24 Private Universities

8 Technical Colleges (45 Institutes)

157 Private Higher Institutes

11 Private middle Institutes

Al-Azhar University

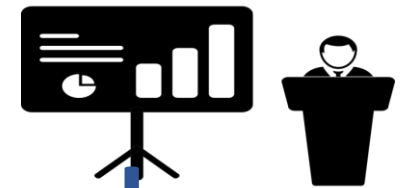


35% GER



120 Thousand

Teaching Staff



415 Thousand

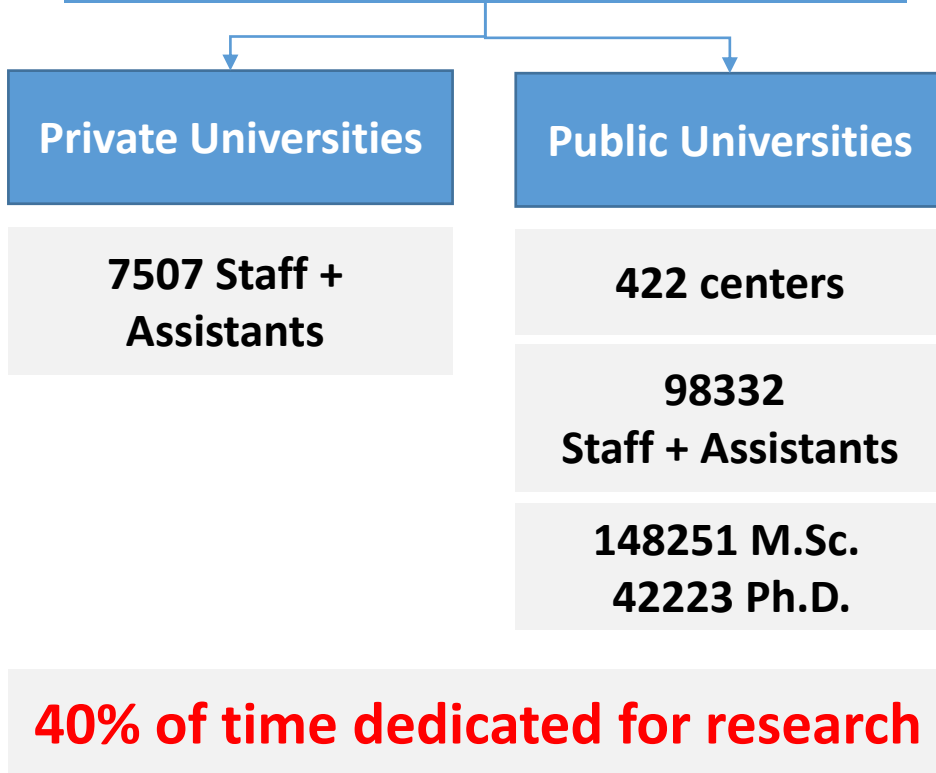
Postgraduate student



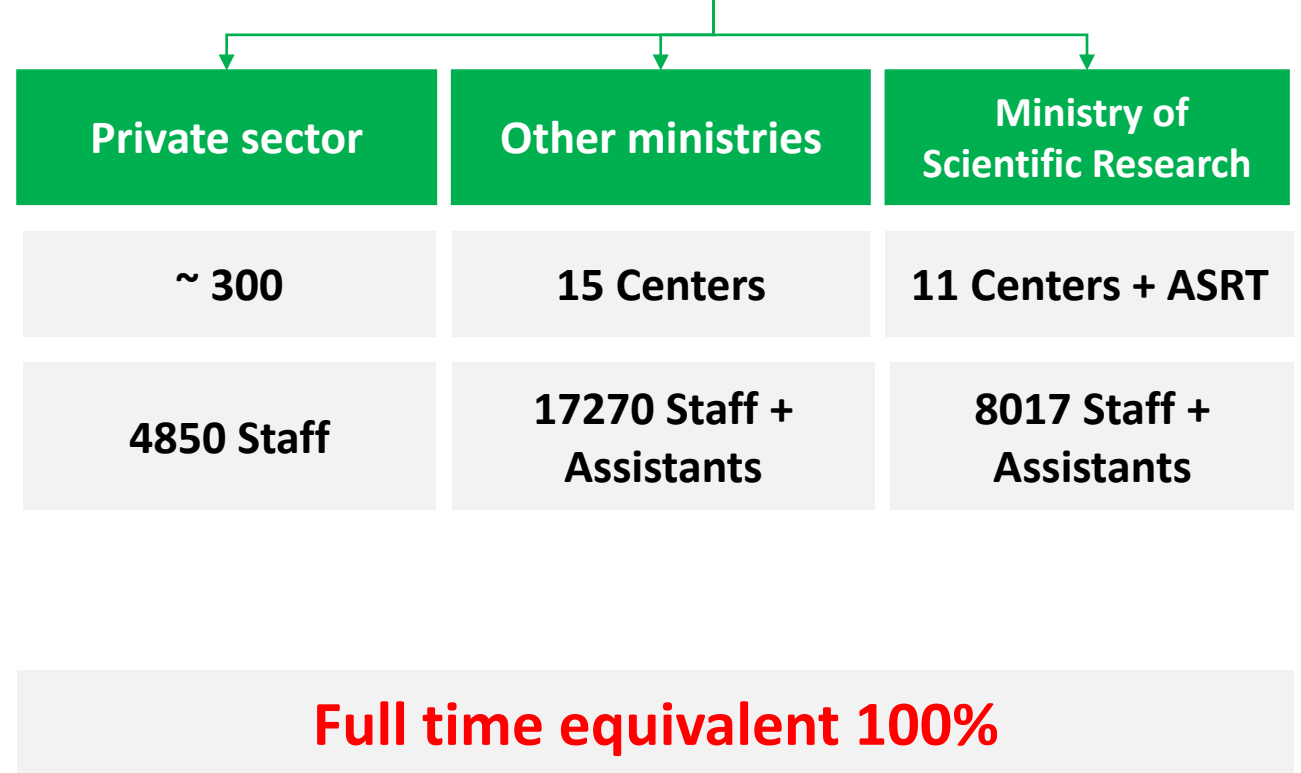
Egypt: Facts & Figures



Universities



Research Centers



More than 133,923 researchers, teaching staff members and assistants



Research Centers affiliated to the Ministry of Scientific Research

National Research Centre

National Institute of Oceanographic and Fisheries

Central Metallurgical Research and Development Institute

Theodor Bilharz Research Institute

Central Metallurgical Research and Development Institute

Research Institute of Ophthalmology

National Research Institute of Astronomy and Geophysics

National Institute of Standards

Central Metallurgical Research and Development Institute

National Authority for Remote Sensing and Space Science

City of Scientific Research and Technological Application



Research Centers of Other Ministries & Agencies

Ministry of Military Production: Center of Scientific and Technological Excellence

Ministry of Agricultural: Agricultural Research Center , Desert Research Center

Ministry of Agricultural: National Telecommunications Institute

Ministry of Education: National Center for Educational Research & Development

Ministry of Electricity and Energy: Atomic Energy Authority , Nuclear Materials Authority

Ministry of Health: General Organization for Teaching Hospitals and Institutes, National Organization for Drug Control & Research

Ministry of Housing: Housing and Building Research Center

Ministry of Investment: Tebbin Institute for Metallurgical Studies

Ministry of Planning: National Planning Institute

Ministry of Social Solidarity: National Center for Social and Criminological Research

Ministry of Water Resources: National Water Research Center

Ministry of Transportation: Transportation Research Institute



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Transforming Education

Egypt's journey to the future





21st-Century Skills

Foundational Literacies

How students apply core skills to everyday tasks



1. Literacy



2. Numeracy



3. Scientific literacy



4. ICT literacy



5. Financial literacy



6. Cultural and civic literacy

Competencies

How students approach complex challenges



7. Critical thinking/
problem-solving



8. Creativity



9. Communication



10. Collaboration

Character Qualities

How students approach their changing environment



11. Curiosity



12. Initiative



13. Persistence/
grit



14. Adaptability



15. Leadership



16. Social and cultural awareness

Lifelong Learning



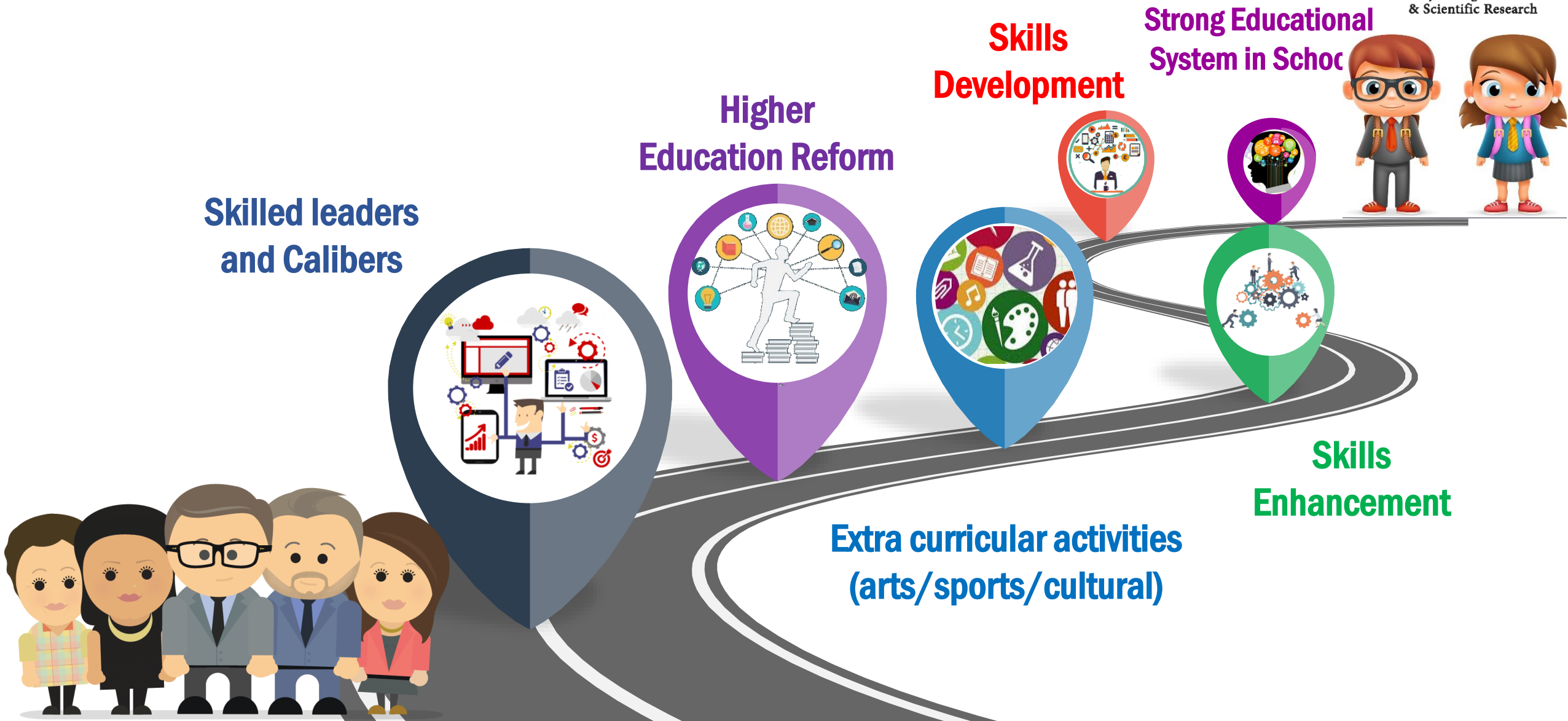
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Comprehensive Education System in Egypt



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Government Support : The New Strategic Plan

Higher Education Pillar

- Access to Higher Education.
- Quality of Higher Education.
- International Competitiveness.





HIGHER EDUCATION NEEDS A RETHINK TO TRAIN TOMORROW'S WORKFORCE

- How do we educate for the fourth industrial revolution?
- Are our education systems and programmes relevant to the fourth industrial revolution?
- How do we reconstruct our education systems so that they are relevant?





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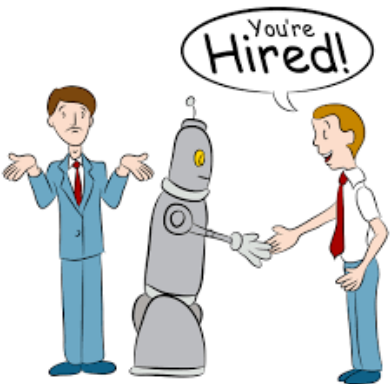
Future Jobs

Employment, skills and workforce strategy of the 4th industrial revolution

35% of jobs will disappear over the next 10 years.



47% of jobs will disappear over the next 25 years as a result of technological development and participatory economy.



Drones



Smart Cities



Encrypted
Currency



Autonomous
Vehicles



Jobs of
the
Future



Cyber Security



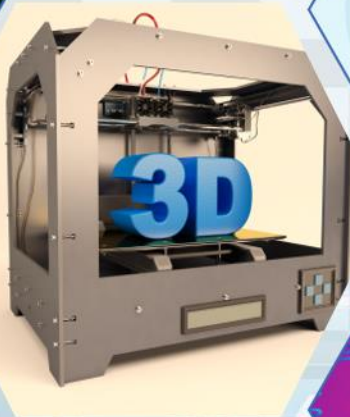
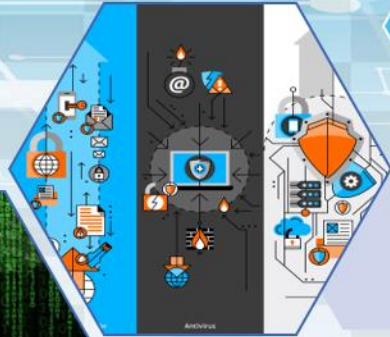
ARTIFICIAL INTELLIGENCE



Biometrics
Blockchain



Big Data



Augmented
Reality



“Society 5.0”



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INTERNET OF THINGS

A society in which people and objects are linked to create new value



ARTIFICIAL INTELLIGENCE

A Society in which information is exchanged when needed



INNOVATION

Society in capable of responding to the needs of different regions and environments



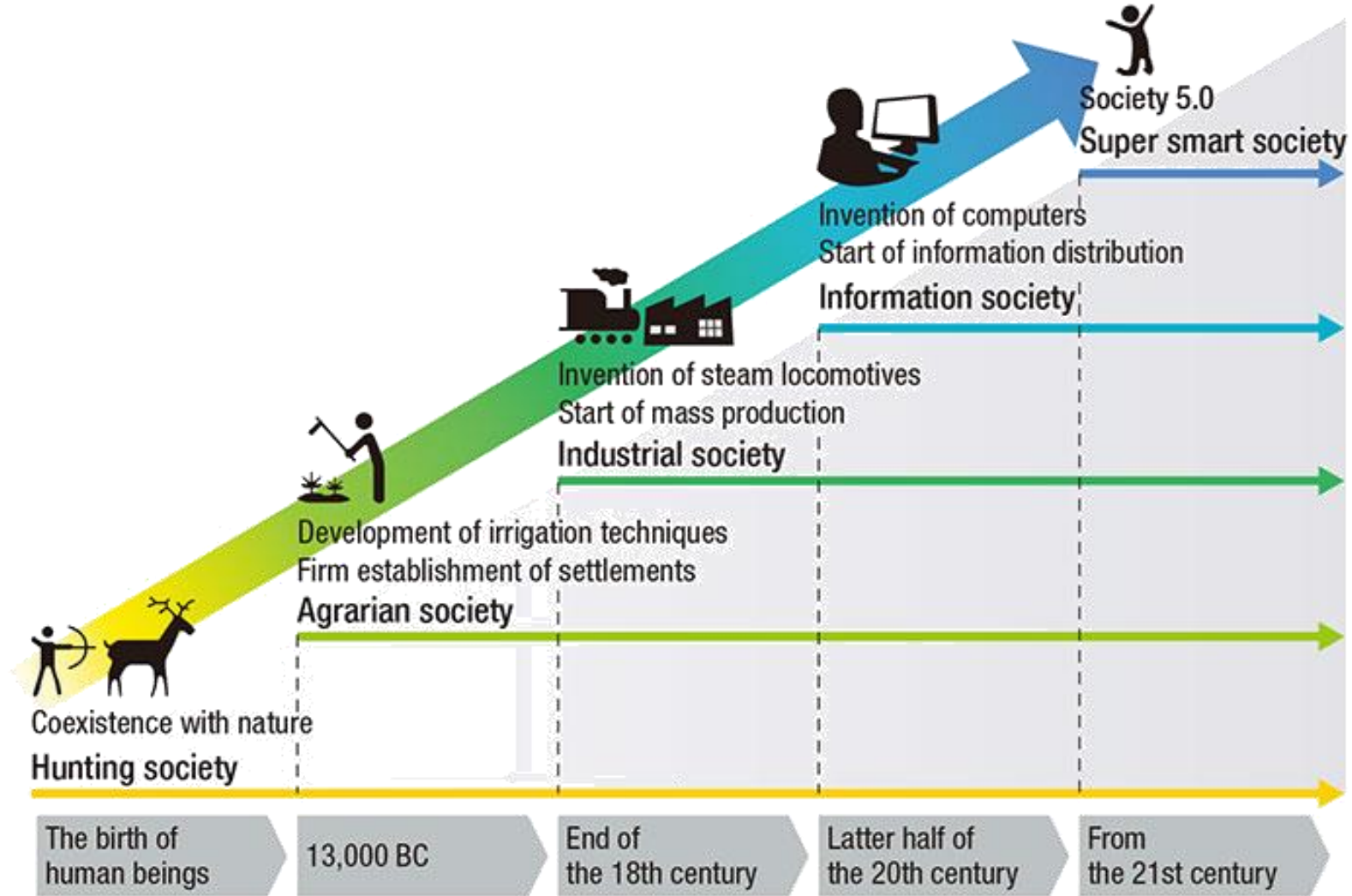
ROBOTICS

A society that expands human potential through automation



Society 5.0

Economic and
social innovation
by deepening of
Society 5.0



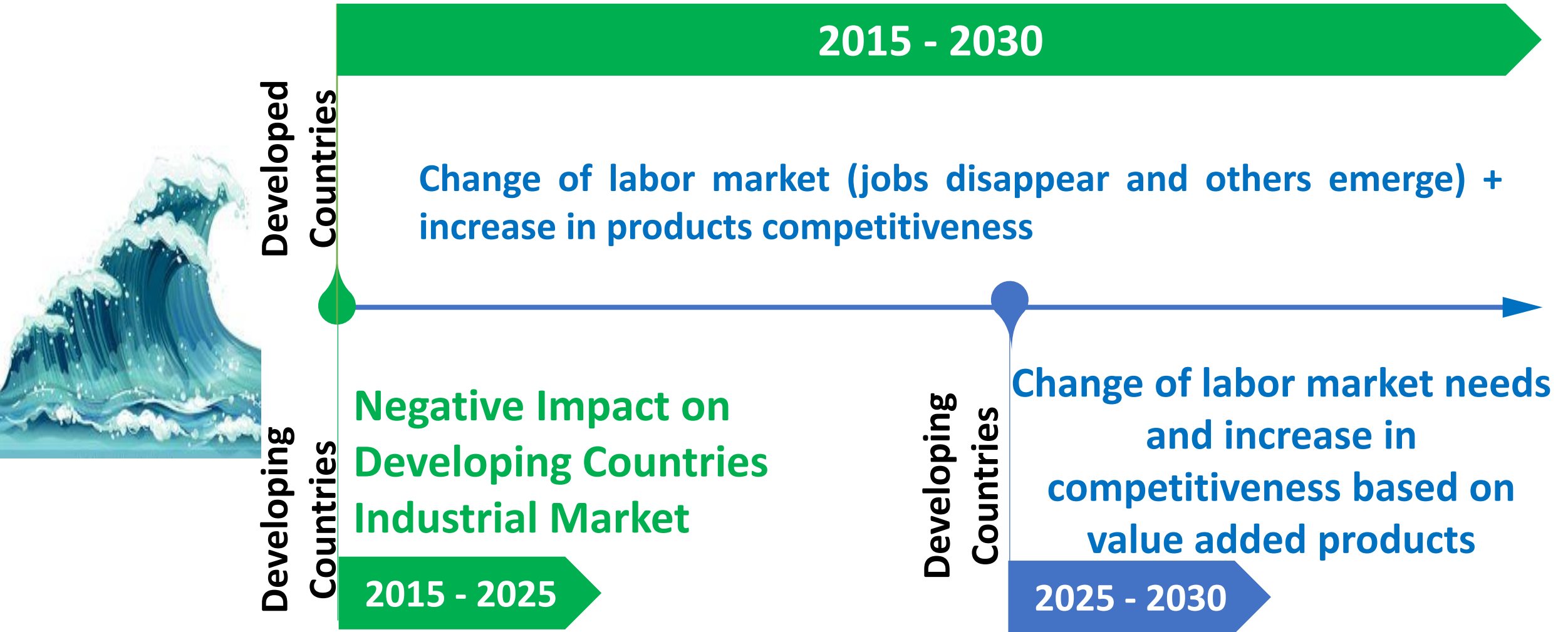
Source: Prepared based on materials from the Japan
Business Federation (Keidanren)



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Impact of Industry 4.0 on Industry and Internal Labor Market





Increase the number of higher Education Institutes

23 National Projects in Higher Education and Scientific Research

International Universities

- 1- El Glala University
- 2- Egyptian Science Academy
- 3- University of Alamein
- 4- New Mansoura University
- 5- King Salman University
- 6- Egyptian Japanese University
- 7- Zewil City for Science and Technology.

Governmental Universities

- 8- Matrouh University.
- 9- Luxor University.
- 10- Red Sea University.
- 11- New Valley University.

Technological Universities

- 12- New Cairo TU
- 13- Quesna TU
- 14- Beni Suief TU

IBCs

- 15- Canadian Universities
- 16- European University
- 17- American Complex
- 18- Global University
- 19- Hungarian Universities
- 20- UK Universities

Research Centers

- 21- Egypt Space Agency
- 22- Electronics Research Institute
- 23- National Institute of Astronomical and Geophysical Research.



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Research

Smart New Universities





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Values and Fundamentals governing the New Universities

Excellence

Integration

Transparency

**Respecting
Diversity and
Values**

**Effective
Decision-
making**

**Life Long
Learning**

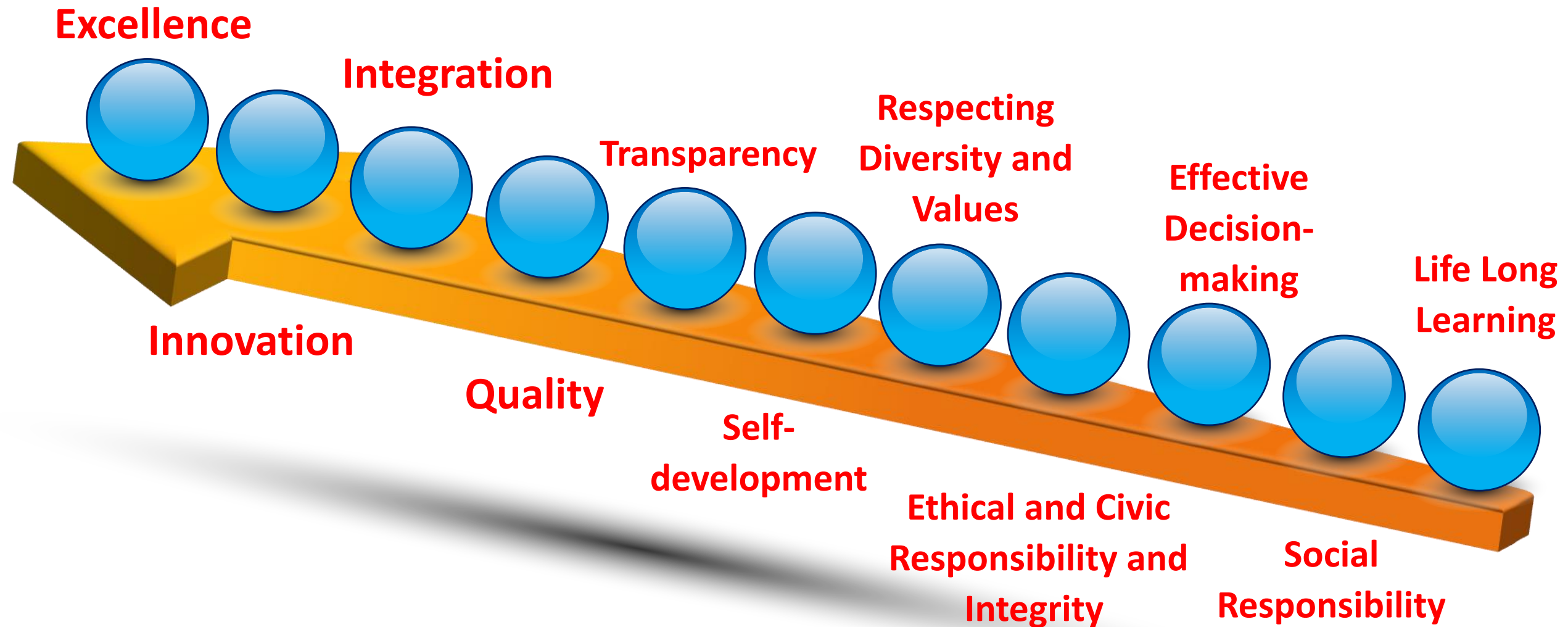
Innovation

Quality

**Self-
development**

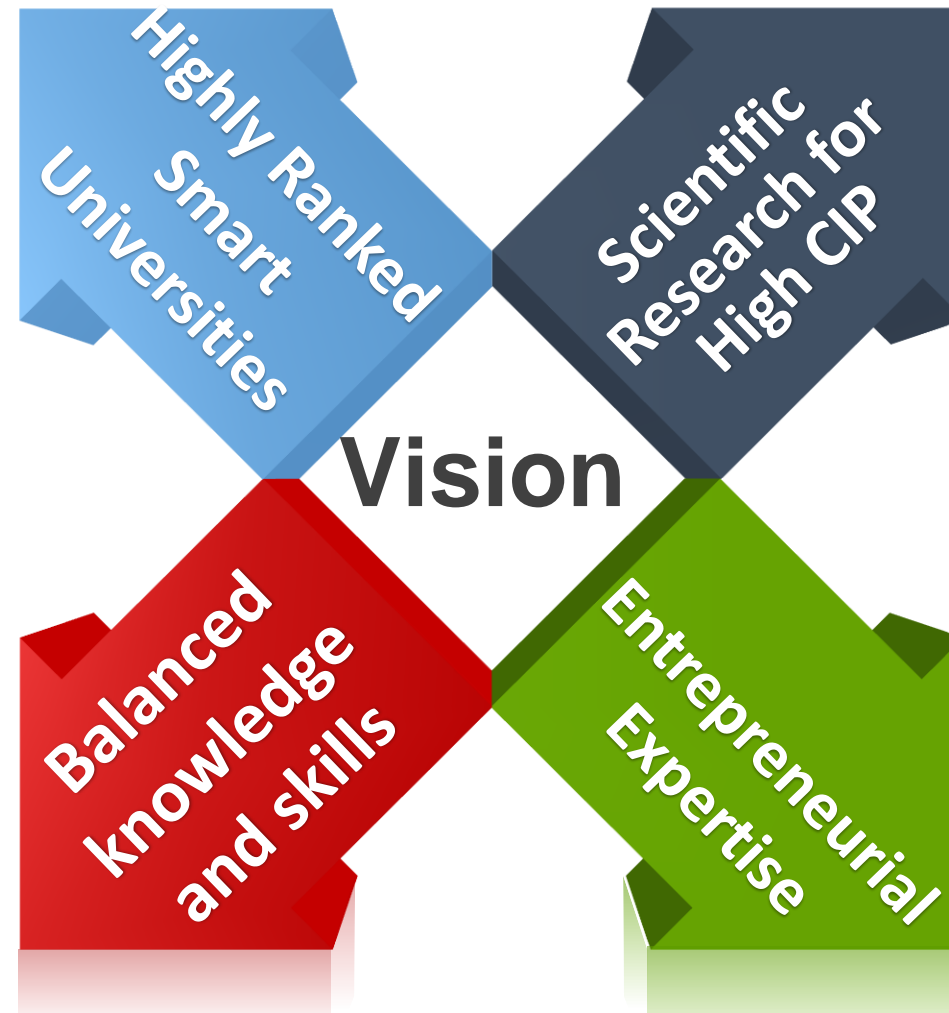
**Ethical and Civic
Responsibility and
Integrity**

**Social
Responsibility**





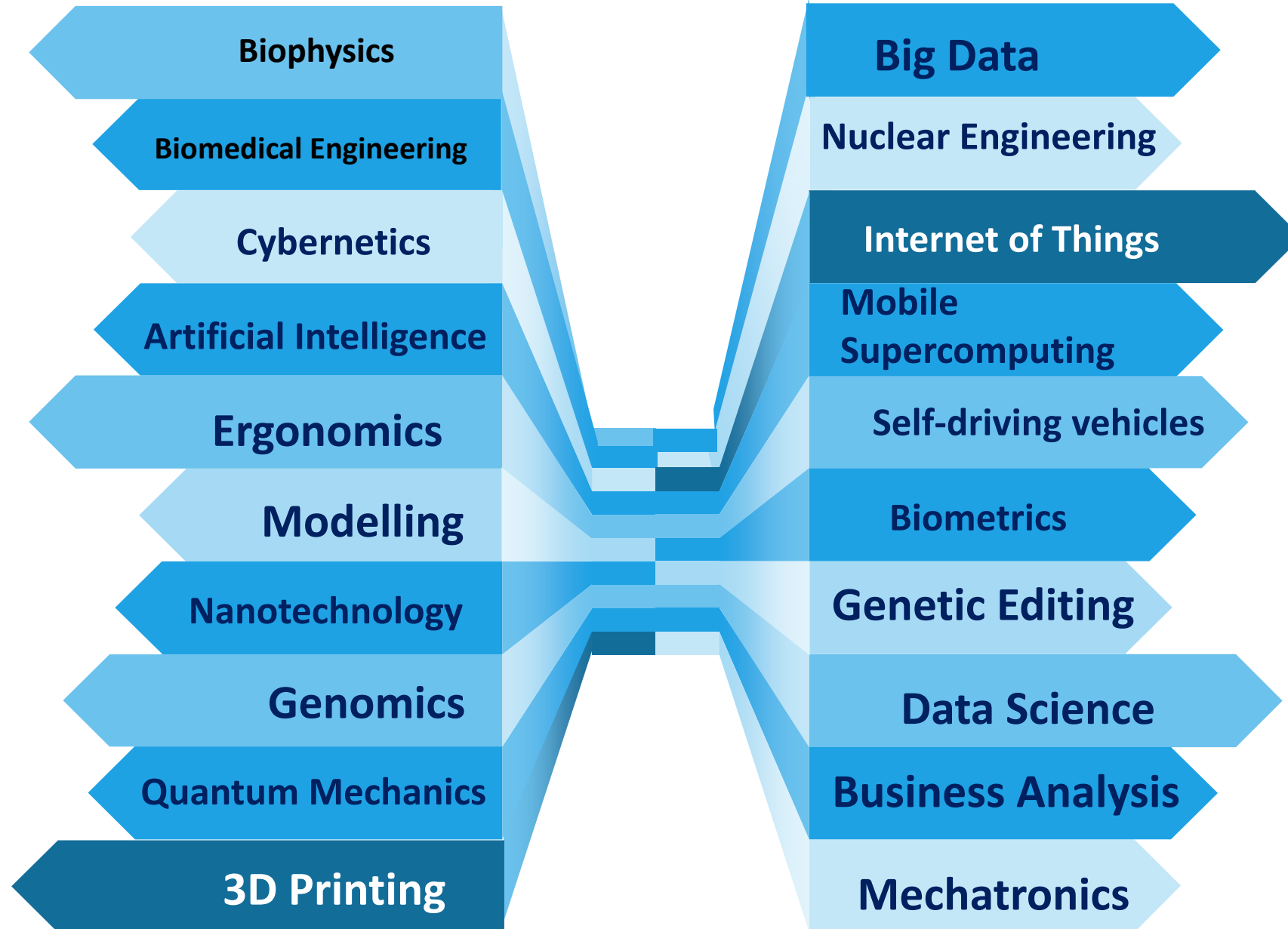
New Universities



New Subjects



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Smart University at Galala Mountain



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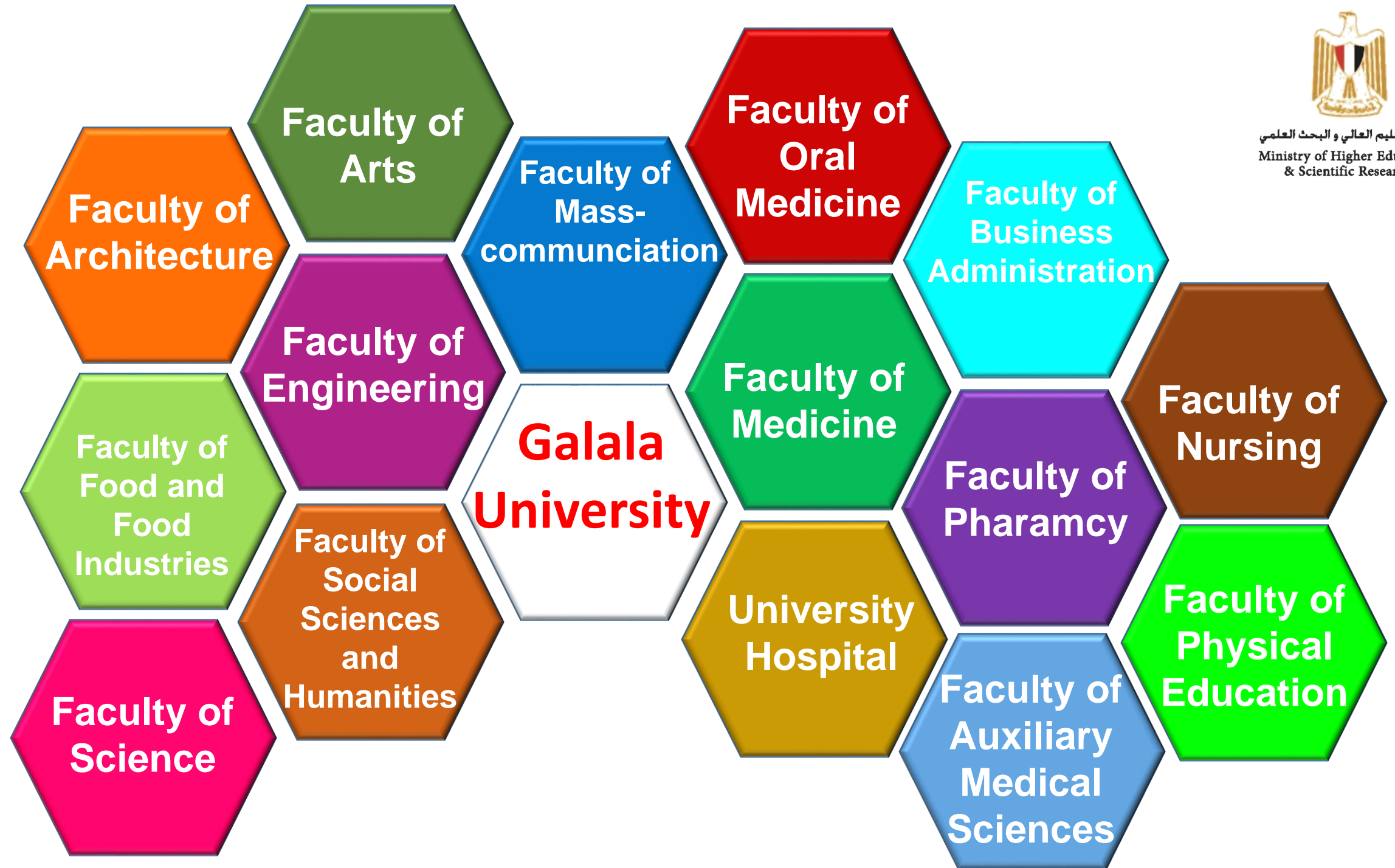
Smart University at Galala Mountain



President El-Sisi's weekly visit



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Smart University at Galala Mountain

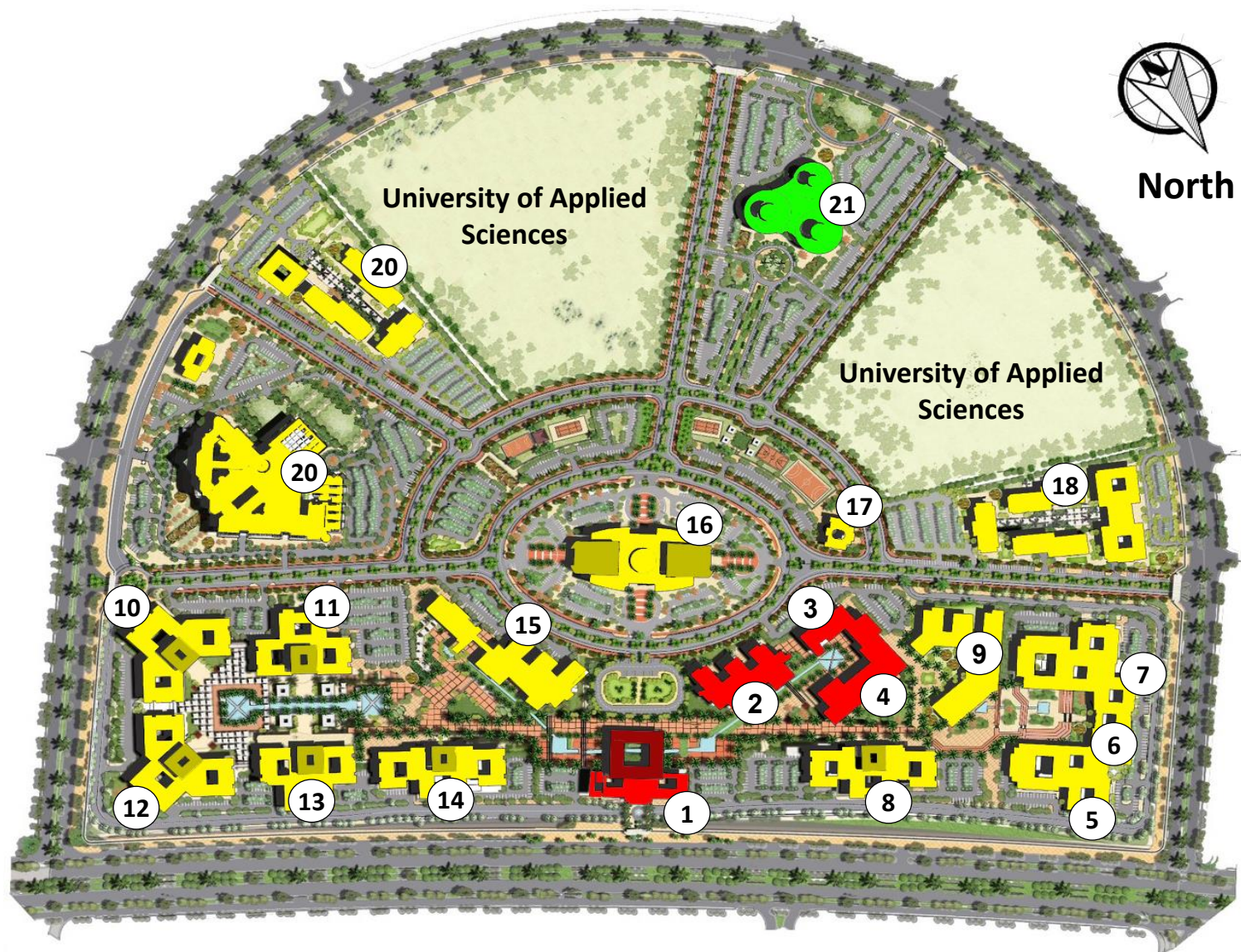


Smart University at Galala Mountain



وزارة التعليم العالي و البحث العلمي
Ministry of Higher Education
& Scientific Research

1	University main building
2	Faculty of Business Administration and Public Policies
3	Faculty of Social Sciences & Humanities
4	Faculty of Mass-Communication
5	Faculty of Engineering
6	Faculty of Architecture
7	Faculty of Arts
8	Faculty of Science
9	Faculty of Food and Food Industries
10	Faculty of Medicine
11	Faculty of Nursing
12	Faculty of Dentistry
13	Faculty of Physiotherapy
14	Faculty of Auxiliary Medical Sciences
15	Faculty of Pharmacy and Pharmaceutical Industries
16	Convention Centre
17	Mosque
18	Students and Professors Hostels (Males)
19	Students and Professors Hostels (Females)
20	University Hospital (400 bed)
21	Academy of Sciences

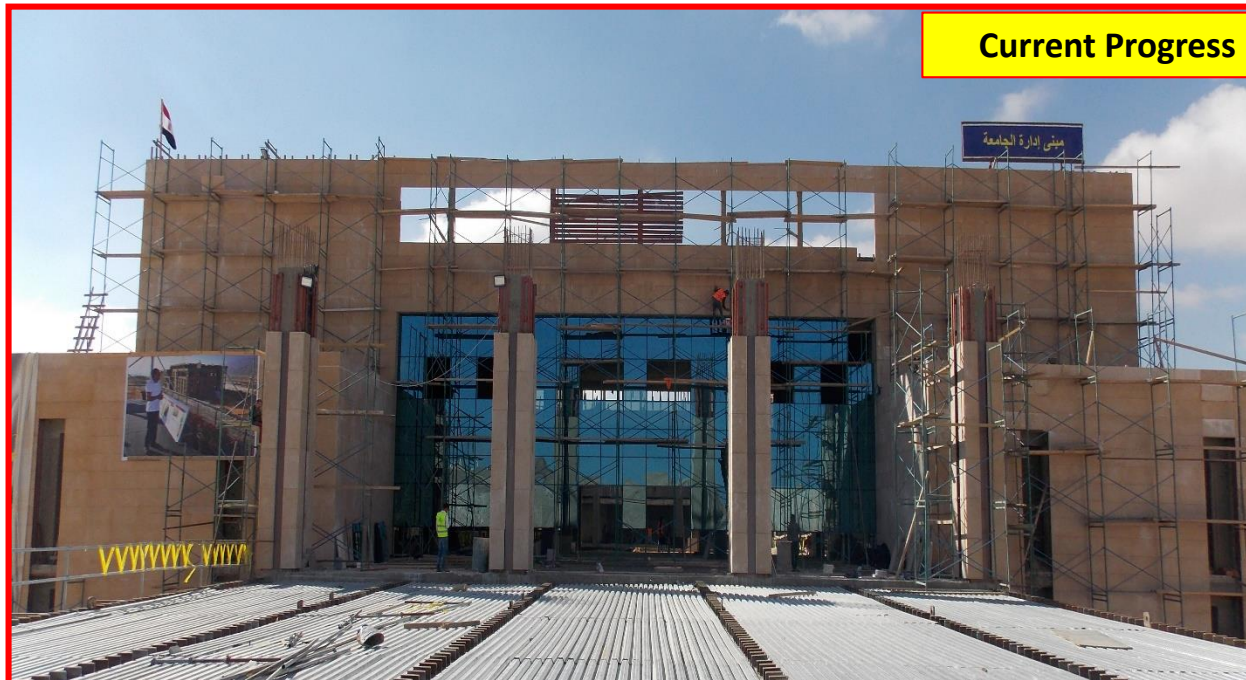




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Smart University at Galala Mountain

University Main Building





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Smart University at Galala Mountain

Faculty of Business Administration





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Smart University at Galala Mountain

Faculty of Mass-Communication



Academy of Sciences at Galala



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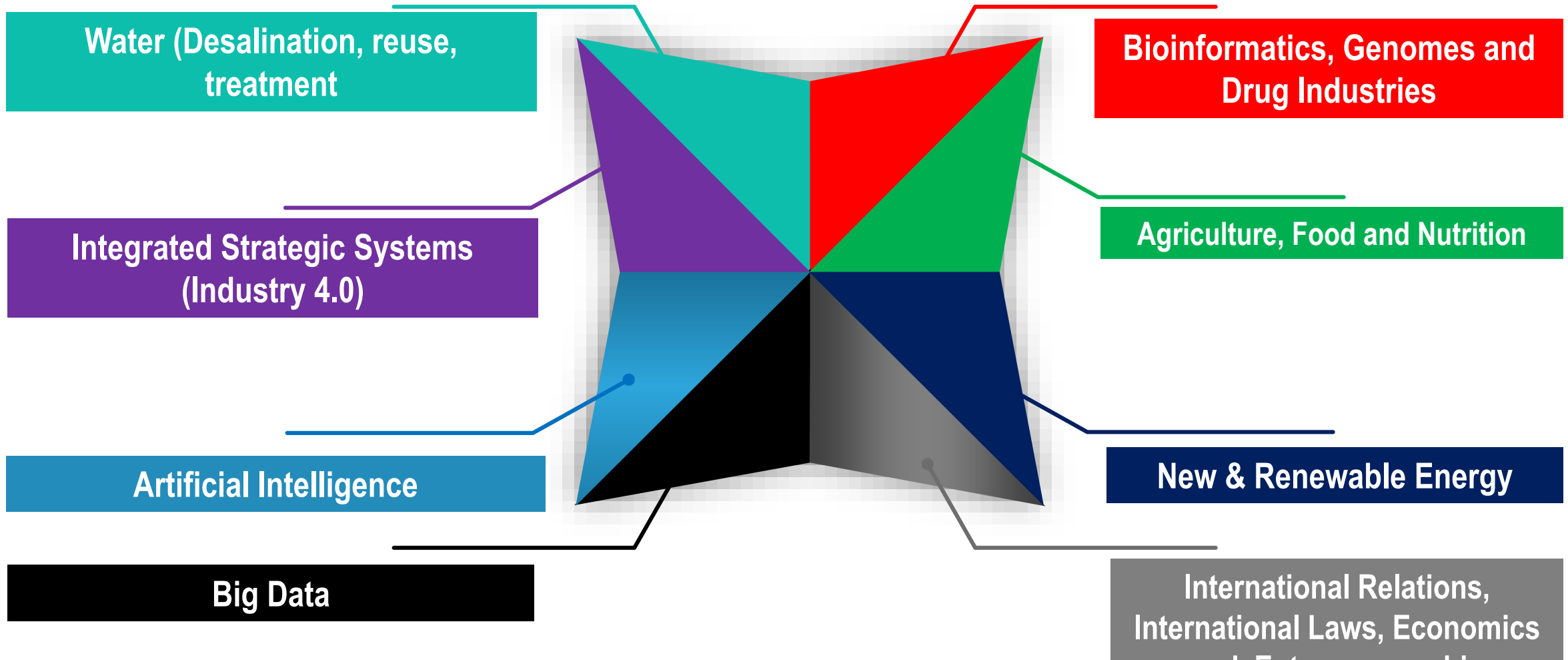
Faculty of Post-graduate Studies

Centers of
Excellences

Technology Valley
(Incubators and Startups)



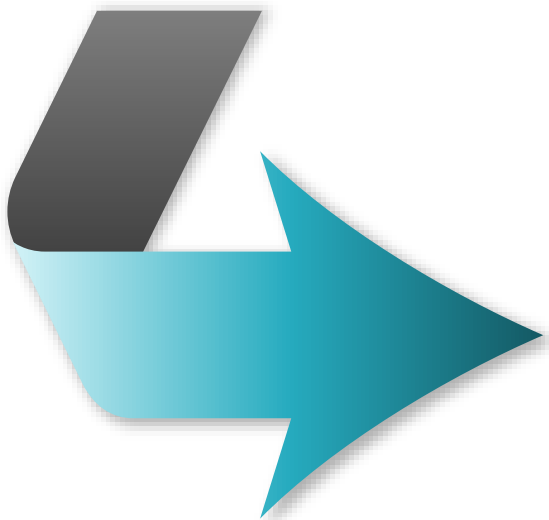
Main Focus of Academy of Sciences at Galala





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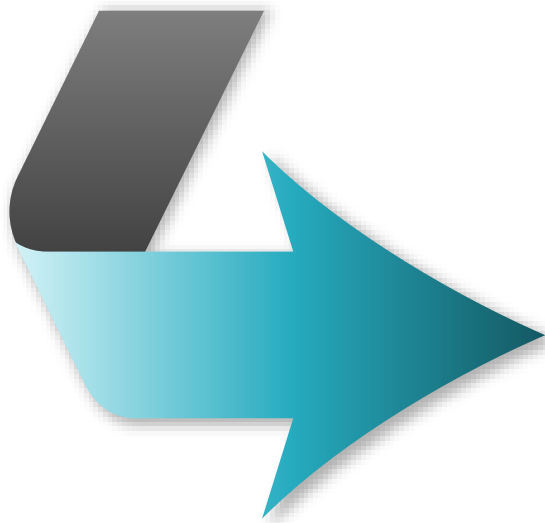
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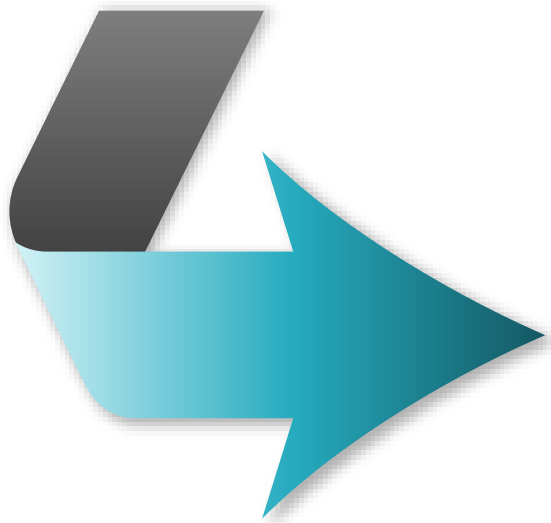
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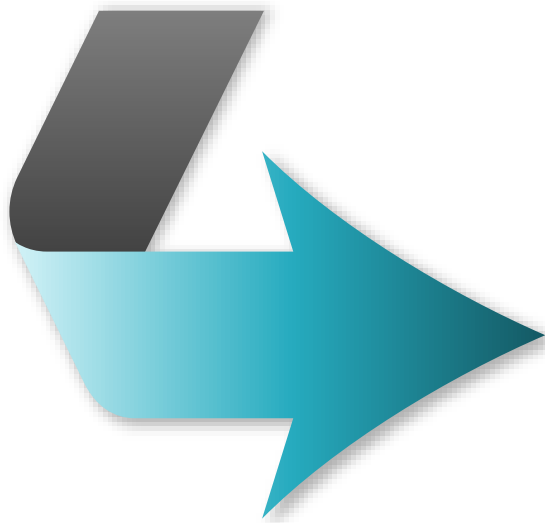
Smart University at Galala Mountain





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Smart University at Galala Mountain





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King Salman University in South Sinai



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King Salman University in South Sinai





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Ministry of Higher Education

King Salman University in South Sinai (Sharm El-Sheikh 64%)

Students Dorms

13/11/2018



Faculty of Tourism

13/11/2018



University Main Building

13/11/2018



Current Progress



Current Progress



Current Progress





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Al-Alamein International University for Science and Technology

Al-Alamein International University for Science and Technology



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Al-Alamein International University for Science and Technology





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Ministry of Higher Education
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Al-Alamein International University for Science and Technology

Faculty of Computer and Information Sciences and Faculty of Engineering

Current Progress



24/11/2018



Current Progress





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Al-Alamein International University for Science and Technology





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Egypt-Japan University of Science and Technology (E-JUST)

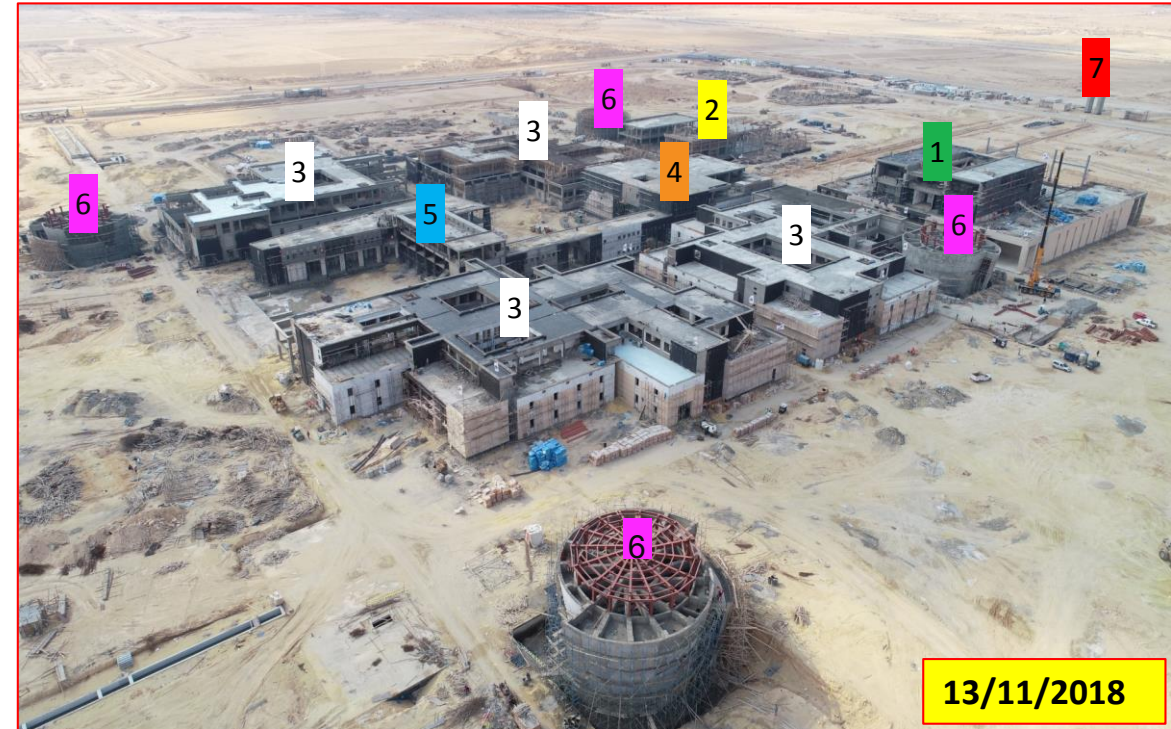


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Ministry of Higher Education
& Scientific Research

Egypt-Japan University of Science and Technology (Phase 1 & 2)



Phase 2



Students Affairs Building	5	4 Faculties of Engineering	3	Centers of Excellence	1
4 Auditoriums	6	The Library	4	Administrative Building	2
		Main Gate			7



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Egypt-Japan University of Science and Technology (Phase 1 & 2)



The Library





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Zewail City for Science and Technology



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Zeweil City for Science and Technology (Phase 2)





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Zewail City for Science and Technology (Phase 2)



University Main Building





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Zewail City for Science and Technology (Phase 2)



Students Affairs Building



Students Affairs Building



Students Dorms



Students Affairs Building



Students Affairs Building



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& Scientific Research

Electronic Research Institute

- S** Services and Infrastructure Building
- A** Environmental Research
- B** Robotics
- C** Power electronics and photovoltaic cells
- D** Informatics and Computer Sciences
- E** High frequency Circuits and microwaves
- F** Clean Room
- G** Microelectronics
- H** Central Technical Services
- I** Management
- K** Library
- M** Convention and Training Centre





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International Branch Campuses



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Canadian Universities Complex



UNIVERSITY
of Prince Edward
ISLAND

European Universities Complex



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EUE
EUROPEAN UNIVERSITY IN EGYPT
الجامعة الأوروبية في مصر



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& Scientific Research

European Universities Complex

الاتفاقات الاكاديمية مع الجامعات الدولية الاوروبية



England

إنجلترا



Austria

النمسا



Spain

أسبانيا



جامعة لندن



UNIVERSITY
OF LONDON

مدرسة لندن للاقتصاد والعلوم السياسية



THE LONDON SCHOOL
OF ECONOMICS AND
POLITICAL SCIENCE

جامعة ايست لندن



جامعة سنترال لانكشاير



جامعة يوهانس كبلر



جامعة التكنولوجيا - فيينا



جامعة كونست

kunstuniversität linz
Universität für künstlerische und industrielle Gestaltung



Universität für Bodenkultur Wien

جامعة بوندنكلتشر

جامعة بوليتيكنيك كاتالونيا



UNIVERSITAT POLITÈCNICA DE CATALUNYA

Catalonia University Poly-technique

جاري التفاوض

El-Sweedy Knoledge Hub



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أعمال صب اعمدة الدور الأول



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Ministry of Higher Education
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Egyptian University Ranking Worldwide

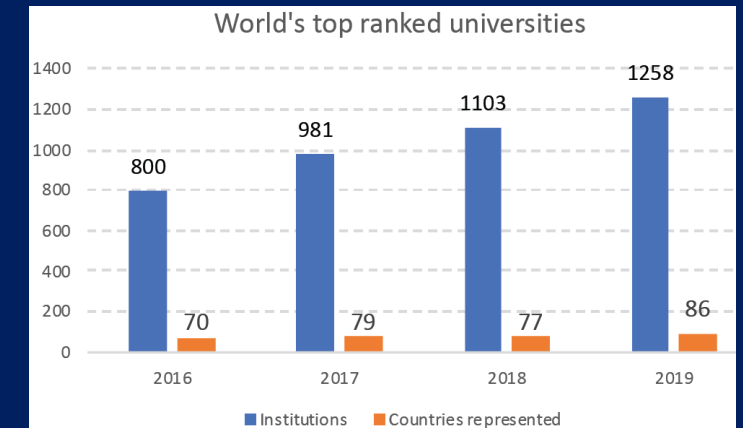




Egypt: Facts & Figures

Universities' Ranking

- “Times Higher Education”:
 - Egypt is **7th** most represented country.
 - In 2019, **19** ranked Universities out of 1200 total ranked universities with **111%** increase from 2018 (9 ranked universities)





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Ministry of Higher Education
Research

Egypt: Facts & Figures

Universities' Ranking



501-
600

Engineering &
Technology



401-
500

Engineering &
Technology



401-
500

Computer
Sciences

Egypt: Facts & Figures



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Universities' Ranking



Cairo University
101-150: Pharmacy and
Public Health

151-200: Veterinary Sciences

201-300: Dentistry & Oral Sciences

301-400: Clinical Medicine

401-500: Electrical & Electronic Engineering, Chemical
Engineering and Energy Sciences and Engineering



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Egypt: Facts & Figures

Universities' Ranking



Ain Shams University

**201-300: Pharmacy and Pharmaceutical
Sciences**

**401-500: Chemical Engineering and Electrical & Electronic
Engineering**

Egypt: Facts & Figures



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Universities' Ranking



Mansoura University

101-150: Veterinary Sciences

**201-300: Pharmacy & Pharmaceutical Sciences
And Dentistry & Oral Sciences**

401-500: Clinical Medicine

Egypt: Facts & Figures



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Universities' Ranking



Alexandria University

201-300: Veterinary Sciences
And Dentistry & Oral Sciences

301-400: Pharmacy & Pharmaceutical Sciences
And Electronical and Electronic Engineering

401-500: Chemical Engineering and Energy Sciences &
Engineering



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Egypt: Facts & Figures

Universities' Ranking



Beni Sueif University

201-300: Veterinary Sciences

401-500: Pharmacy and Pharmaceutical Sciences



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Egypt: Facts & Figures

Universities' Ranking



Assiut University

201-300: Veterinary Sciences

401-500: Pharmacy and Pharmaceutical Sciences



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Egypt: Facts & Figures

Universities' Ranking



Zagazig University

151-200: Veterinary Sciences

401-500: Pharmacy and Pharmaceutical Sciences



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Universities' Ranking



401-500:
Pharmacy and
Pharmaceutical
Sciences



401-500:
Pharmacy and
Pharmaceutical
Sciences



151-200:
Veterinary
Sciences

University Ranking of Emerging Economies “2019”



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Research Output of Emerging Economies “2018”



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Emerging Economies with the largest increases in research output in 2018



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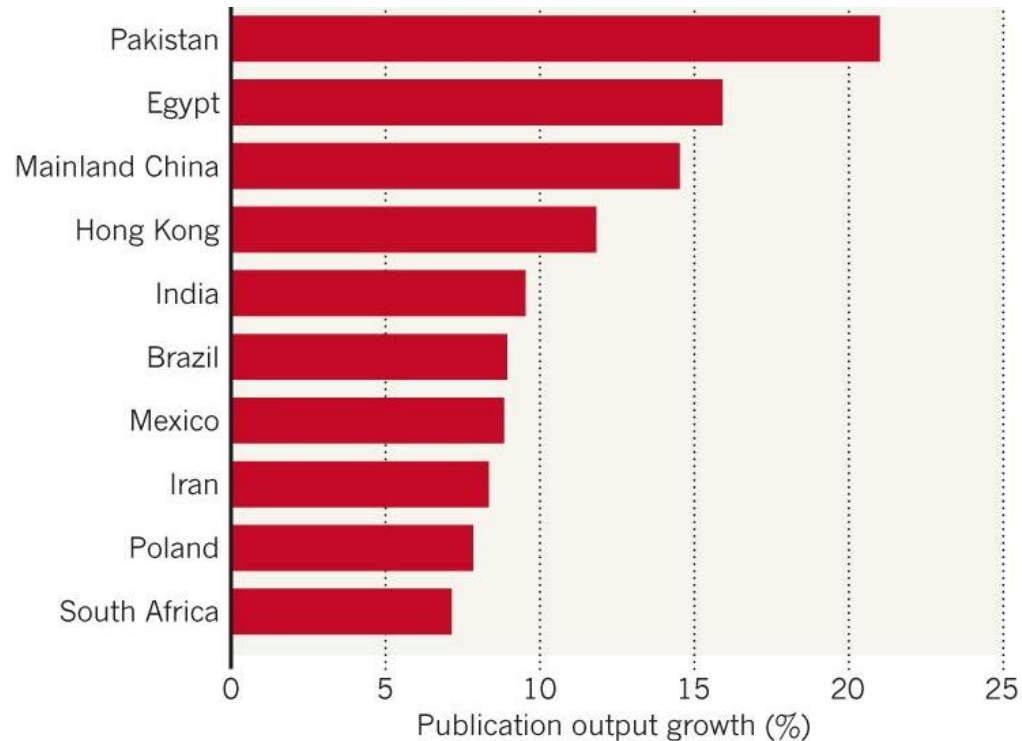


NEWS • 21 DECEMBER 2018

Egypt and Pakistan had highest rise in research output in 2018

Global production of scientific papers hit an all-time high this year, estimates show, with emerging economies rising fastest.

Anita Makri

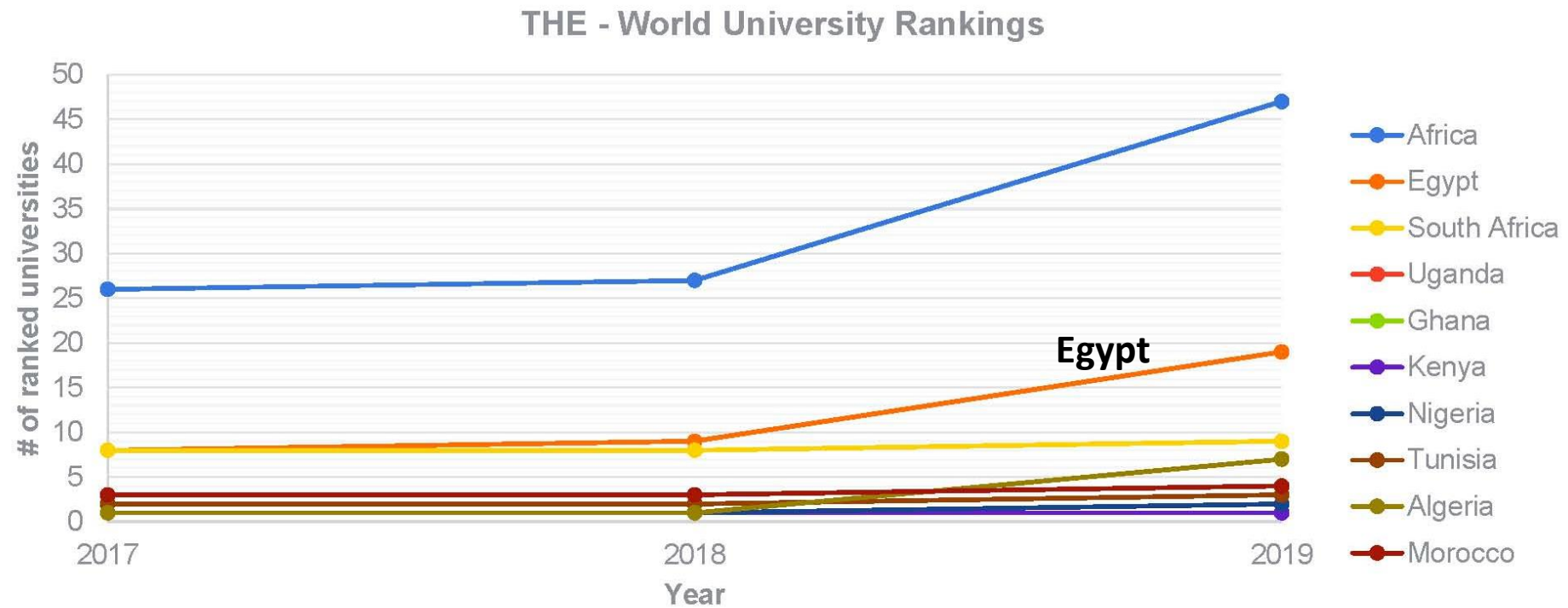


©nature





Facts & Figures: Egyptian Universities Ranking (Africa)





Comprehensive STI Strategy

Tracks	Effective Environment for Science , Technology and Innovation	Knowledge and Technology Transfer	
Pillars	<ul style="list-style-type: none">1- legislations2-Scientific Base3-STI system4-Basic & converging sciences5-Link academia/Industry6- International Cooperation7- Science & society8- Capacity Building for human resources.	<ul style="list-style-type: none">1-Health and well being2- New & Renewable Energy3- Water4-Food and Agriculture5-Environment6- Applied Technologies7- Strategic Industries(Textile, Pharmaceuticals, Electronics)8- Tourism9- ICT	<ul style="list-style-type: none">10- Emerging Technologies11-Education12-Media13-Political sciences14-Transportation15-Social sciences and Humanities
Tools	Fund, STI Policies, Follow Up, Monitoring and Impact Assessment		



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Nanotechnology



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Nanotechnology



Field Weighted
Citation

#48

Citations Count

#27

Research Output

#23



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Total Ranked Countries: 100

Scholarly Research Output: 266 of 20,705

Nanotechnology



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<input type="checkbox"/>	Countries & territories	Scholarly Output ↓	Views Count	Field-Weigh...	Citation Cou...
1. <input type="checkbox"/>	United States	5,139	180,878	1.77	82,198
2. <input type="checkbox"/>	China	3,022	98,398	1.60	48,359
3. <input type="checkbox"/>	India	2,462	80,035	1.18	20,263
4. <input type="checkbox"/>	Italy	1,115	54,049	1.74	13,931
5. <input type="checkbox"/>	Germany	1,071	38,438	1.70	16,102
6. <input type="checkbox"/>	United Kingdom	1,057	44,163	1.92	18,305
7. <input type="checkbox"/>	Iran	834	35,103	1.53	7,935
8. <input type="checkbox"/>	Spain	799	37,823	1.64	10,845
9. <input type="checkbox"/>	France	721	26,716	1.52	7,932
10. <input type="checkbox"/>	South Korea	687	27,864	1.48	8,871
11. <input type="checkbox"/>	Brazil	668	24,135	1.15	5,787
12. <input type="checkbox"/>	Japan	657	18,911	1.38	8,718
13. <input type="checkbox"/>	Canada	569	25,645	1.54	9,115
14. <input type="checkbox"/>	Russian Federation	553	15,009	0.88	3,072
15. <input type="checkbox"/>	Australia	528	23,796	2.15	11,267
16. <input type="checkbox"/>	Saudi Arabia	391	20,004	1.90	5,378
17. <input type="checkbox"/>	Malaysia	347	16,986	1.41	4,157
18. <input type="checkbox"/>	Singapore	327	18,043	2.57	9,087
19. <input type="checkbox"/>	Poland	325	12,017	1.06	2,479
20. <input type="checkbox"/>	Switzerland	294	13,324	1.95	5,187
21. <input type="checkbox"/>	Portugal	289	13,262	1.64	3,655
22. <input type="checkbox"/>	Netherlands	273	13,745	1.95	5,099
23. <input type="checkbox"/>	Egypt	266	8,930	1.35	2,495
24. <input type="checkbox"/>	Turkey	261	9,139	1.32	1,706
25. <input type="checkbox"/>	Taiwan	251	9,098	1.10	2,284

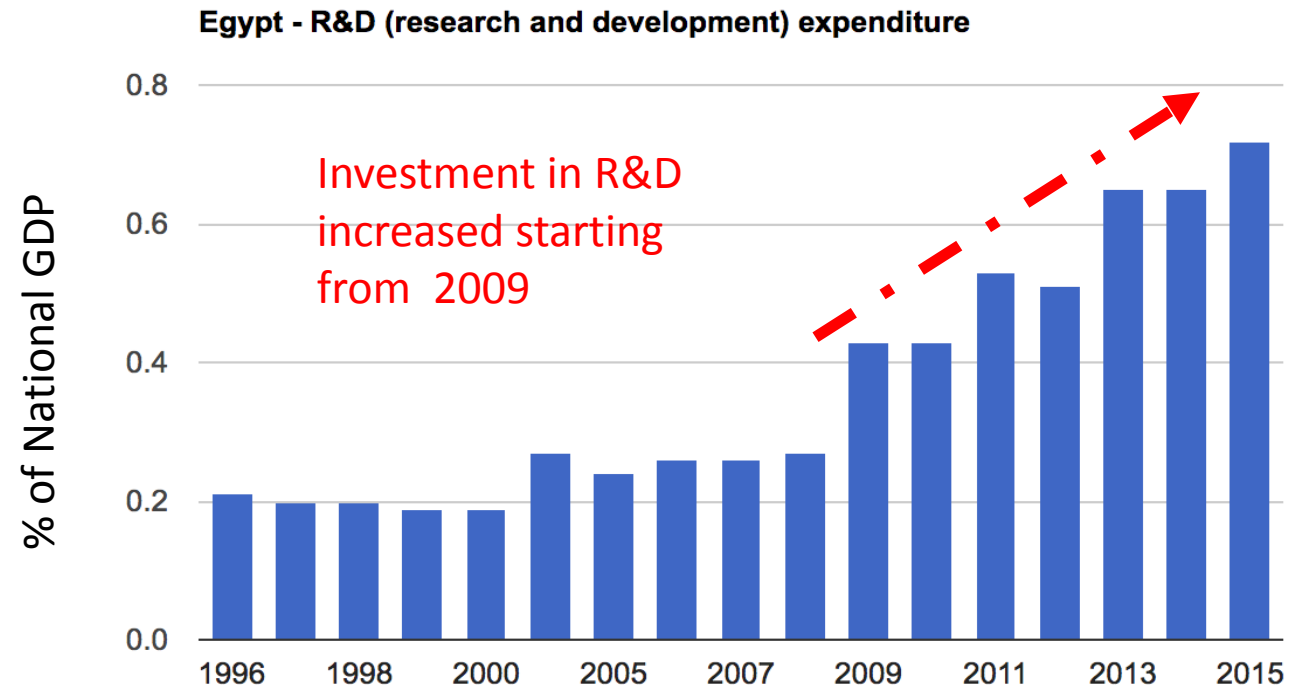
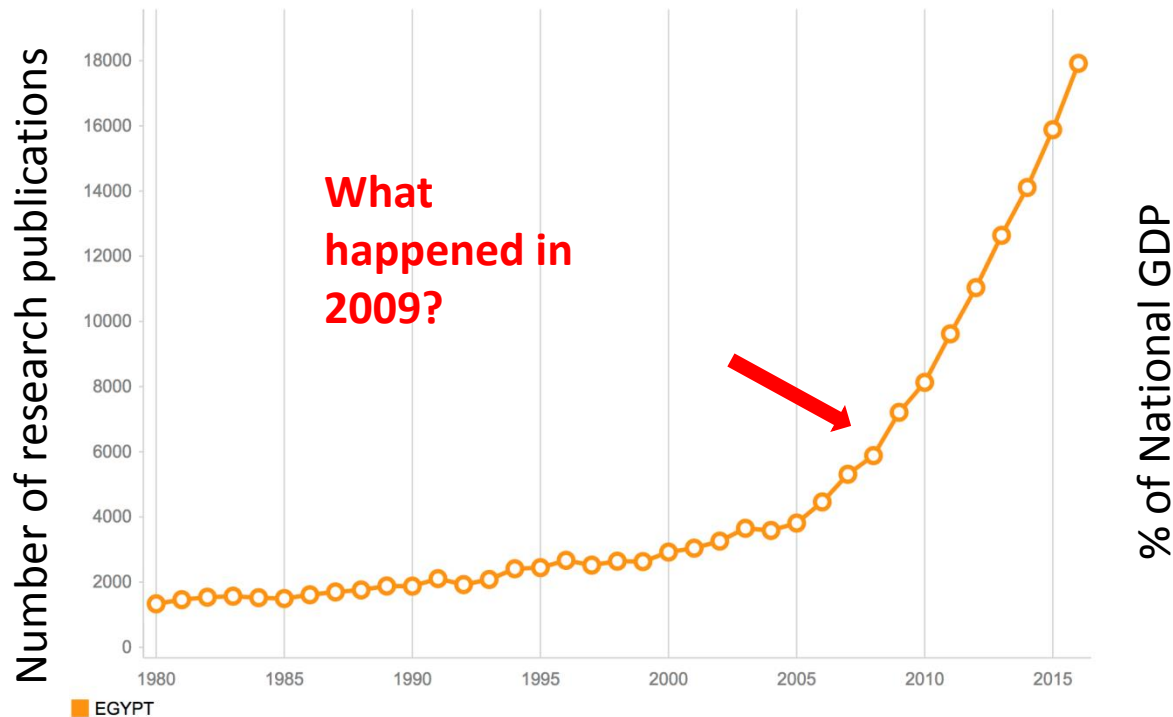


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Egypt: Facts & Figures



Sources: World Bank

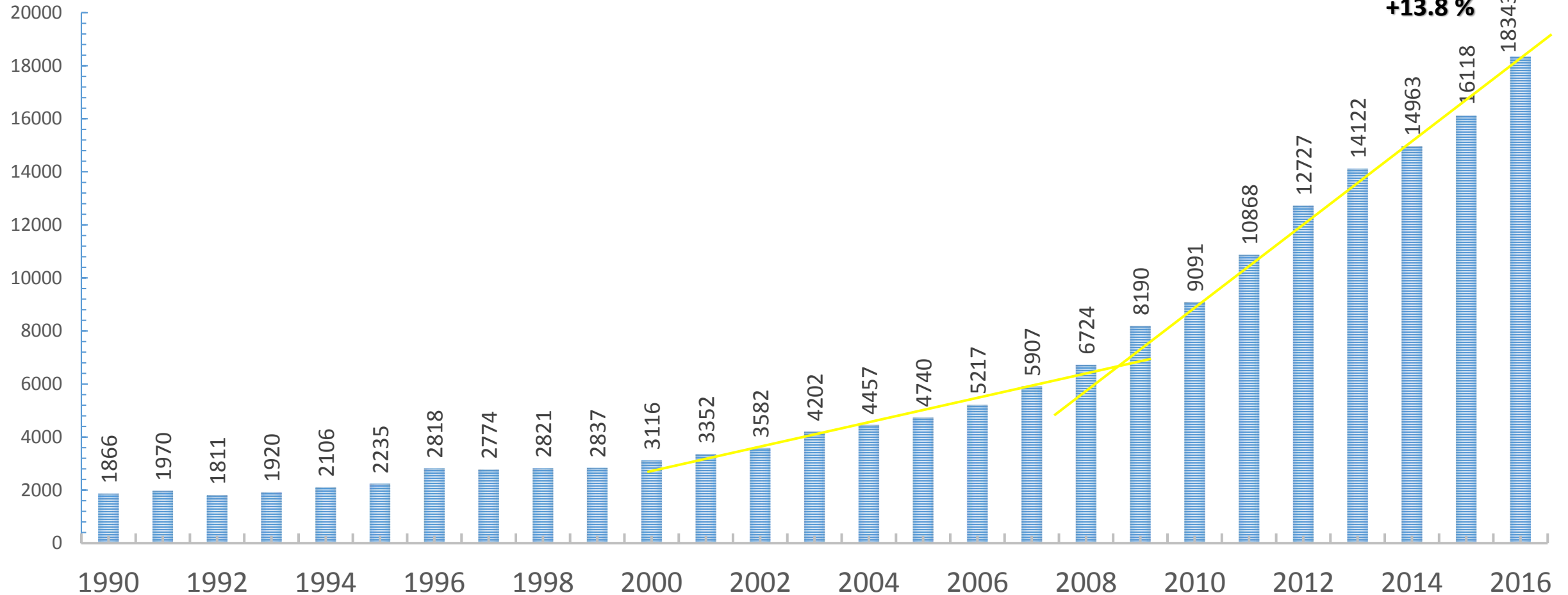
Egypt's R&D Expenditure





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NUMBER OF PUBLISHED RESEARCH IN INTERNATIONALLY CITED INDEXED JOURNALS (1925-2017) IS **218,300** PAPERS





Egypt: Facts & Figures

Overall Research Performance (2013-2018)

Scholarly output

107,448

Citation Count

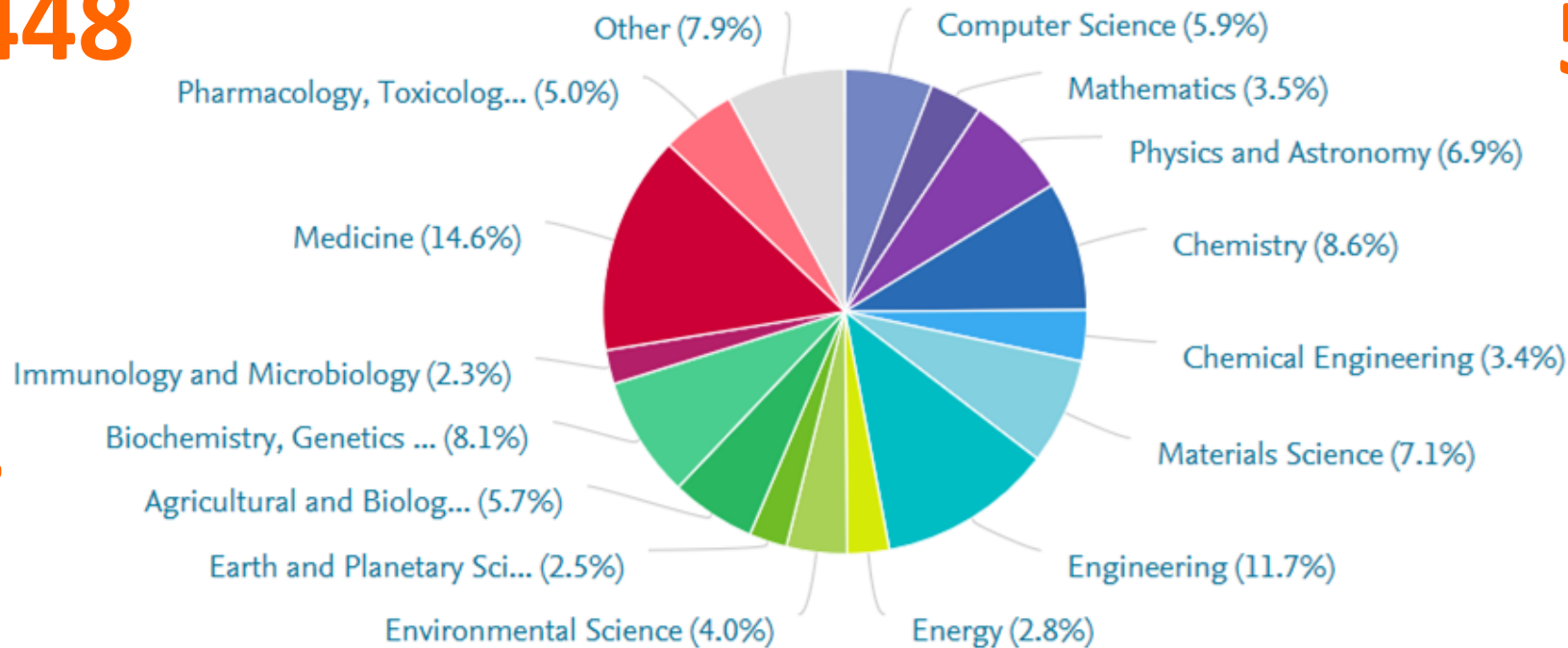
563,934

Authors

84,722

Citation per
article

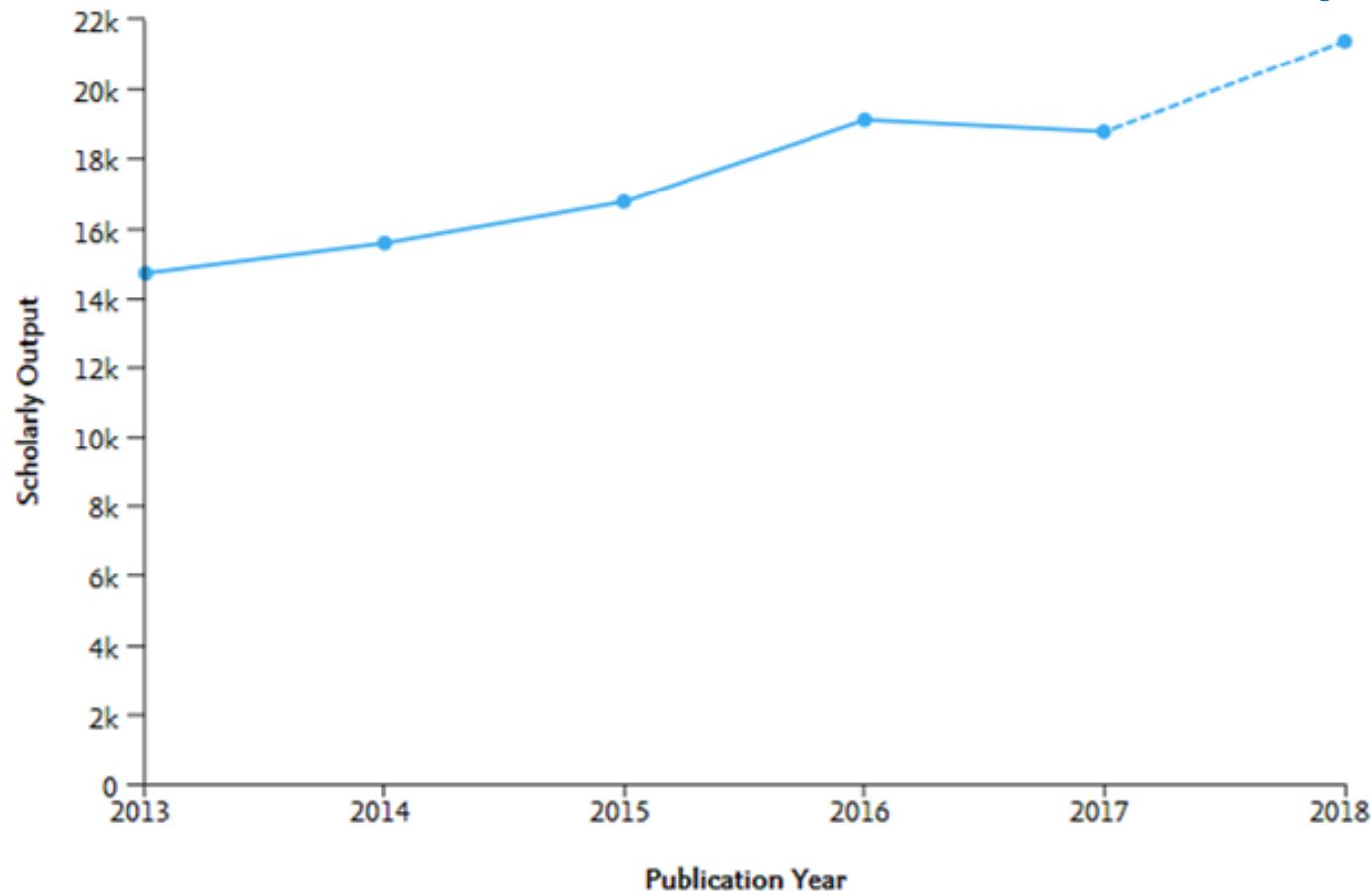
5.2





Egypt: Facts & Figures

Overall Research Performance (2013-2018)



Field weighted
Citation Index

1.00

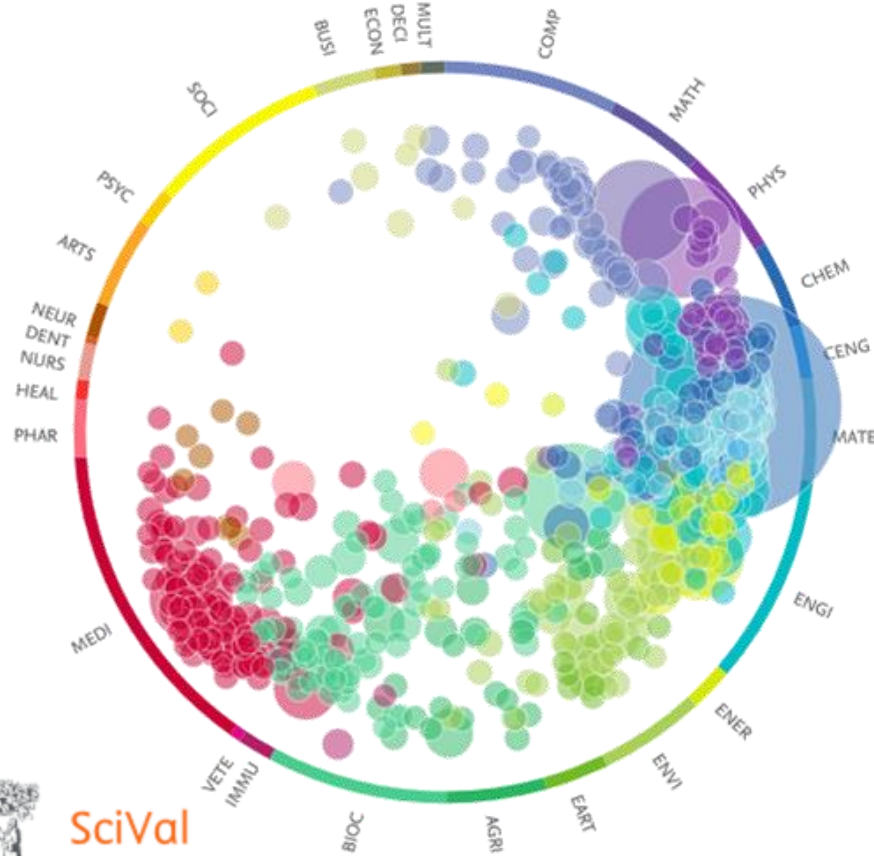




Egypt: Facts & Figures

Overall Research Performance (2013-2018)

Topics Prominence



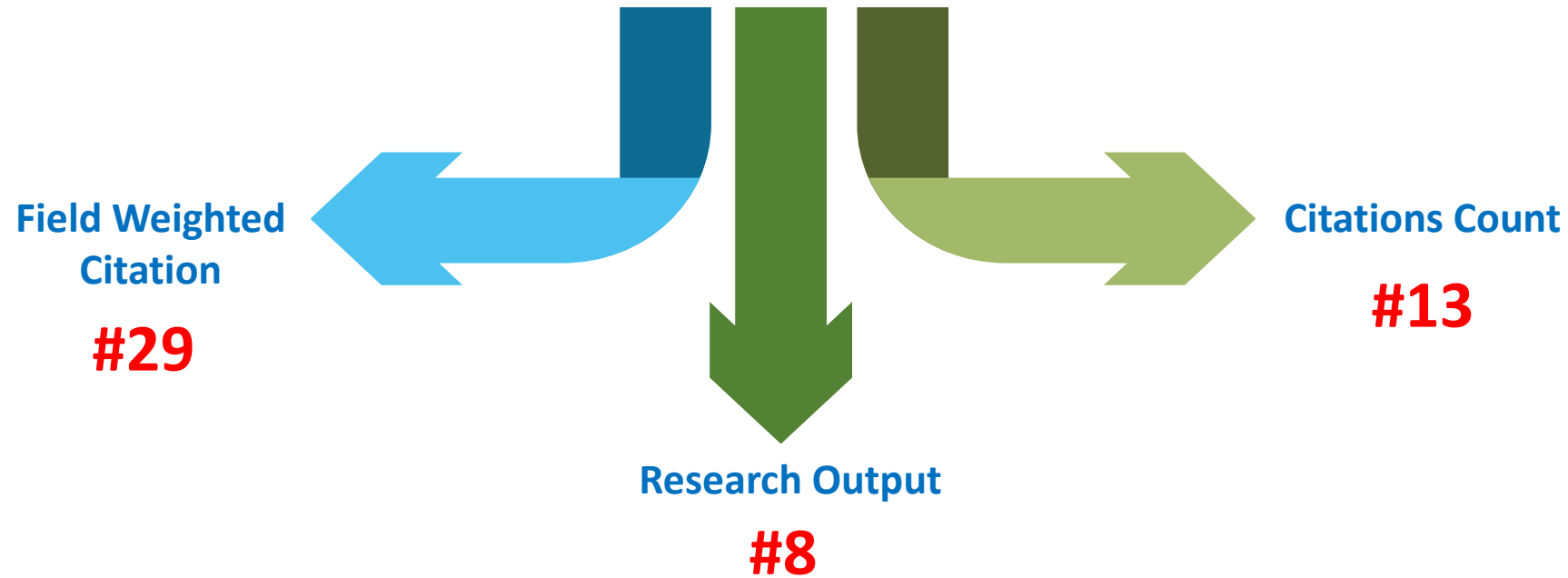
COMP	Computer Science	MEDI	Medicine
MATH	Mathematics	PHAR	Pharmacology, Toxicology and Pharmaceutics
PHYS	Physics and Astronomy	HEAL	Health Professions
CHEM	Chemistry	NURS	Nursing
CENG	Chemical Engineering	DENT	Dentistry
MATE	Materials Science	NEUR	Neuroscience
ENGI	Engineering	ARTS	Arts and Humanities
ENER	Energy	PSYC	Psychology
ENVI	Environmental Science	SOCI	Social Sciences
EART	Earth and Planetary Sciences	BUSI	Business, Management and Accounting
AGRI	Agricultural and Biological Sciences	ECON	Economics, Econometrics and Finance
BIOC	Biochemistry, Genetics and Molecular Biology	DECI	Decision Sciences
IMMU	Immunology and Microbiology	MULT	Multidisciplinary
VETE	Veterinary		





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Water Desalination



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Total Ranked Countries: 100

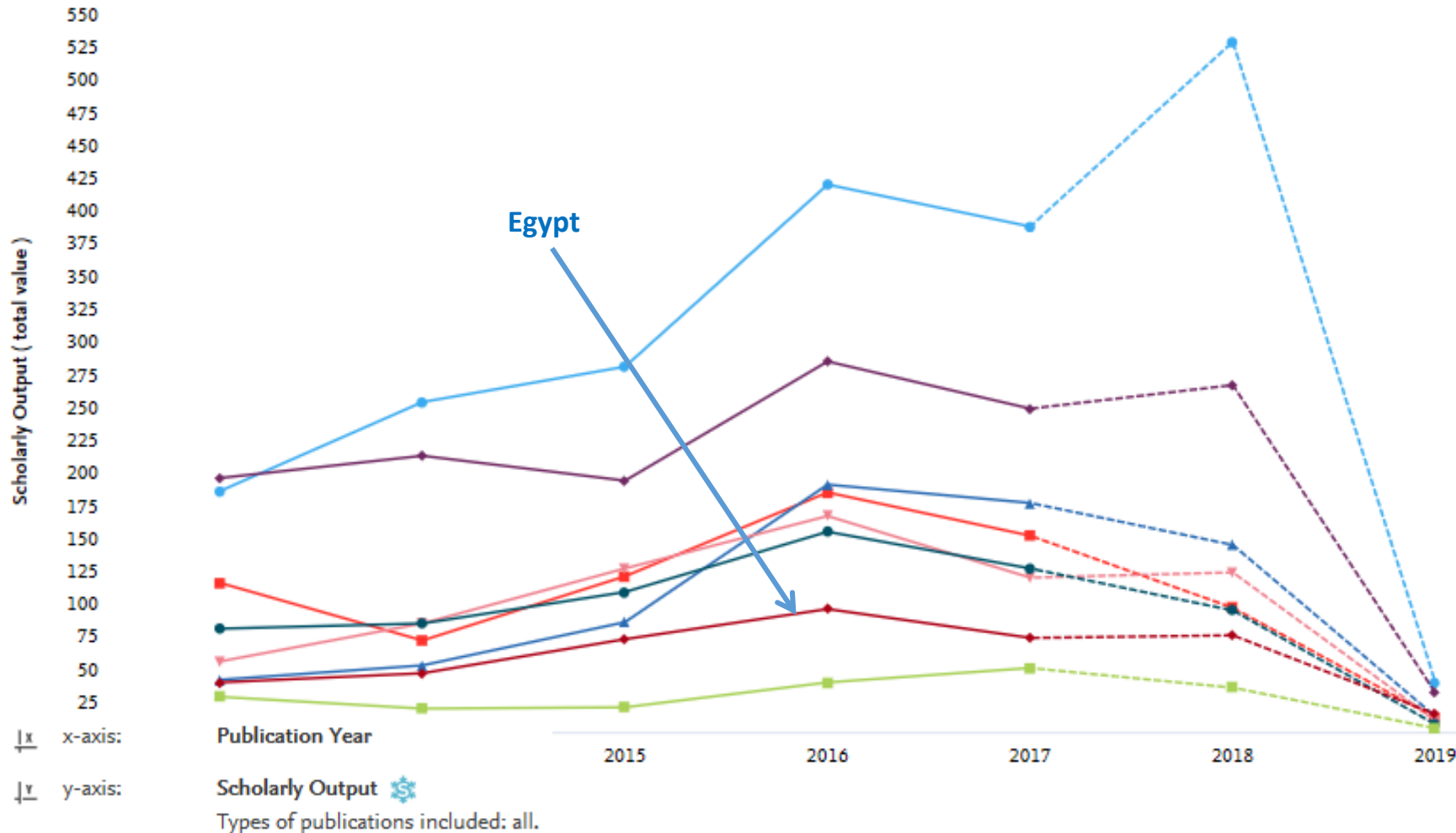
Scholarly Research Output: 408 of 10,282

Water Desalination



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Total Value of Research Output



Total 100 Countries & Regions in this research area: by Research Output

1. China
2. United States
3. South Korea
4. Iran
5. India
6. Saudi Arabia
8. Egypt
22. United Arab Emirates

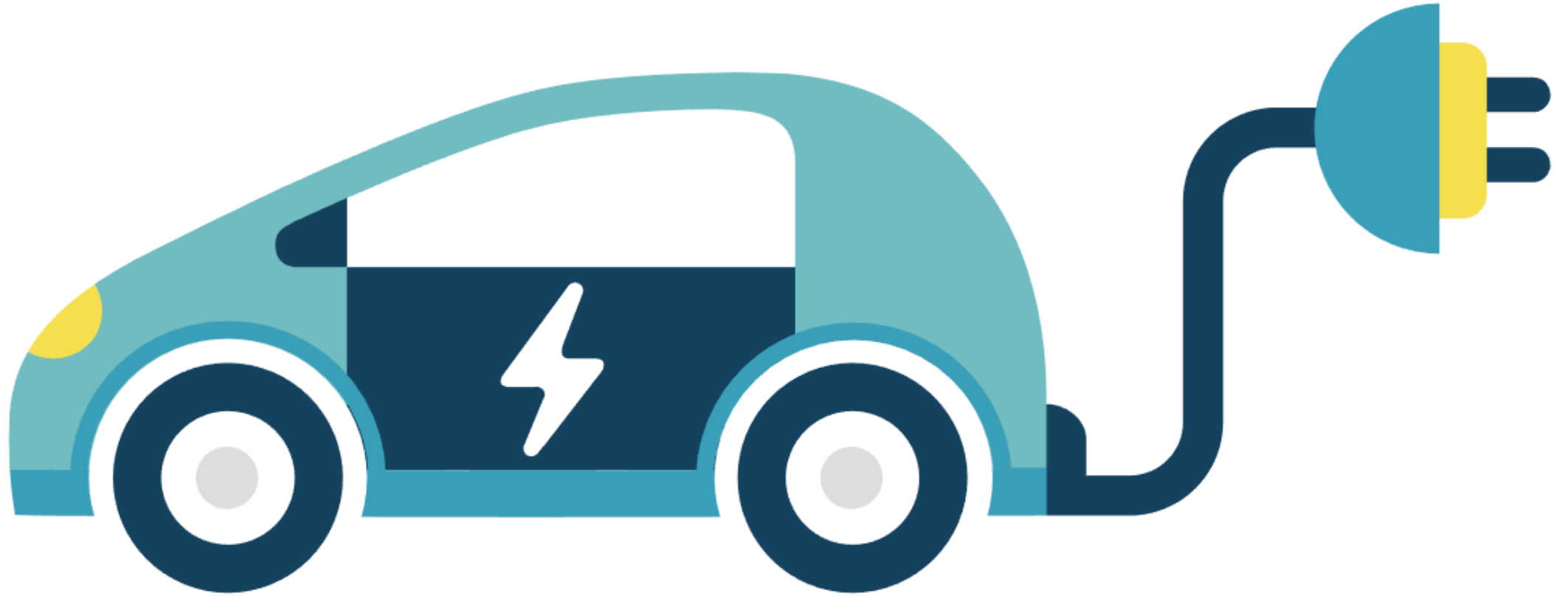


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Electric Vehicles



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Electric Vehicles



Field Weighted
Citation

#34

Citations Count

#35

Research Output

#41



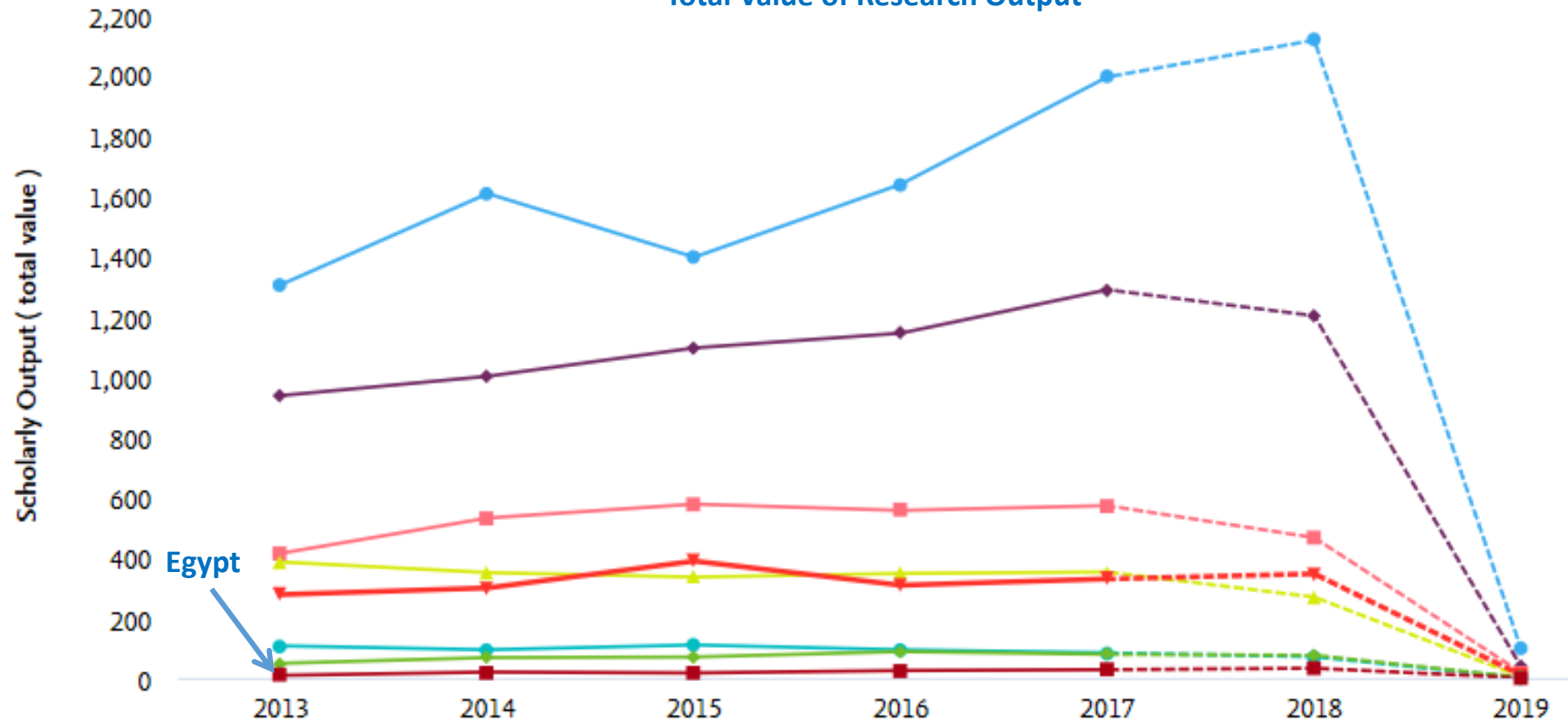
SciVal Total Ranked Countries: 100

Scholarly Research Output: 133 of 39,706



Electric Vehicles

Total Value of Research Output



Total 100 Countries & Regions in this research area: by Research Output

1. China
2. United States
3. Germany
4. Japan
5. South Korea
16. Taiwan
20. Singapore
41. Egypt

x-axis: Publication Year
y-axis: Scholarly Output
Types of publications included: all.
--- incomplete year



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Smart Agriculture



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Smart Agriculture



Field Weighted Citation

#76

Citations Count

#83

Research Output

#58

Total Ranked Countries: 100
Starting Year of Publication: 2017



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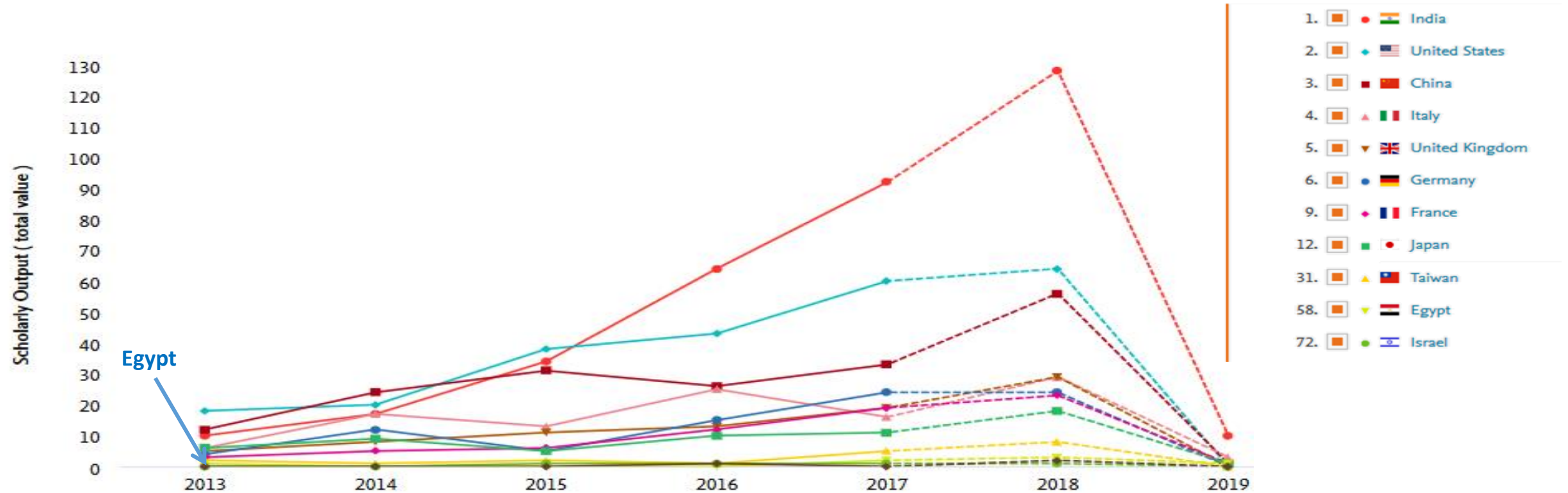
Smart Agriculture



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Total Value of Research Output

Total 100 Countries & Regions in this
research area: by Research Output



Metric details

x-axis:

Publication Year

y-axis:

Scholarly Output

Types of publications included: all.



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“Global Forum for Higher Education & Scientific Research:
Present and Future”



El-Massa Capital
New Administrative Capital





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Thank You

