



**A Systematic Review of the
Impact of Internationalization
on Higher Educational Quality
in Middle East and North
African (MENA) Countries:
A Focus on Algeria and Iraq
By**

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Introduction

This systematic review aims to provide valuable insights for policymakers, educators, and researchers working in the region. It emphasizes the importance of considering regional contexts and local factors when planning and implementing internationalization strategies in higher education while acknowledging the potential limitations in data availability and generalizability of findings to other MENA countries.





Internationalization of Education

“The process of integrating an international, intercultural or global dimension into the purpose, functions or delivery of post-secondary education”.

(Knight, 2004, p. 11)

“Second World War & end of the Cold War” (De Wit 2001, p.xi)

Internationalization is as a transformation from a national to an international institution (Luis et al., 2023)



Research Questions



Question 1

What are the positive and negative outcomes of internationalization on the quality of education in MENA countries?



Question 2

What are the key trends and patterns in the internationalization of education in MENA countries?



Question 3

How have these trends and patterns evolved over time?



MENA Region

Middle East and North Africa

The Middle East and North Africa (MENA) region includes approximately 21 countries, according to the World Bank (2020).

UNICEF groups 20 countries as MENA: includes 20 countries/territories: Algeria, Bahrain, Djibouti, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, Somalia, Sudan, Syrian Arab Republic, Tunisia, United Arab Emirates and Yemen.



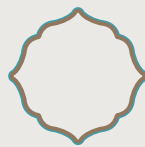
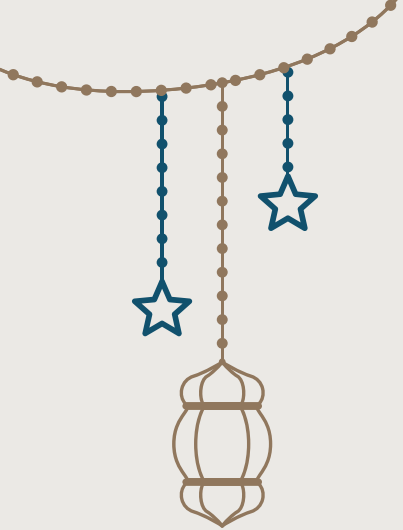


Algeria is located in North Africa with historical ties to France, while Iraq is in Western Asia with historical influences from the Ottoman Empire and the West.

These countries have received less individual attention within the MENA context regarding internationalization.

Why Algeria and Iraq?





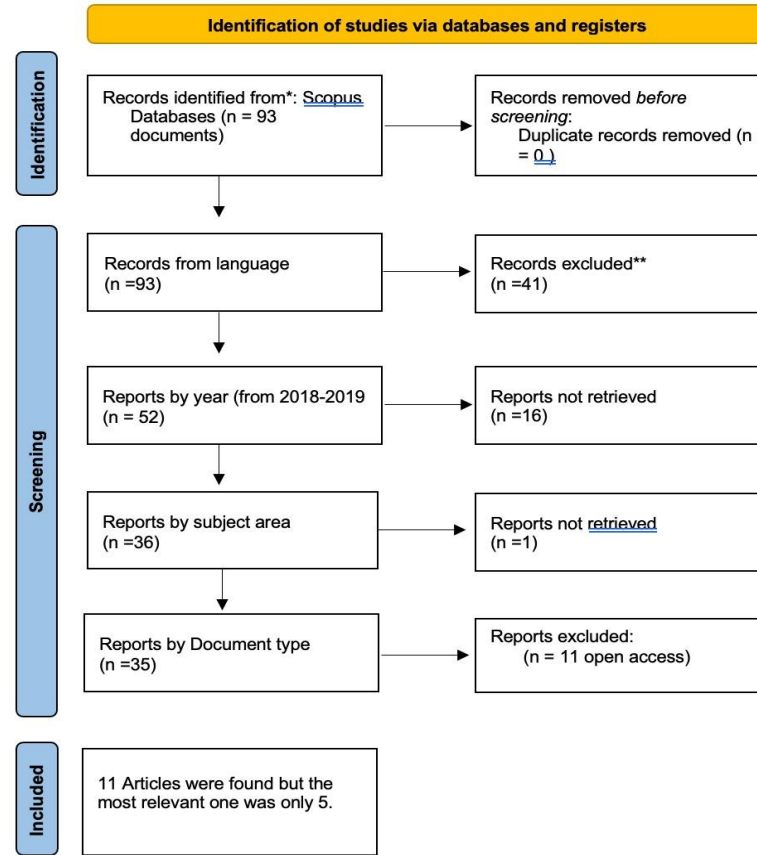
Methodology



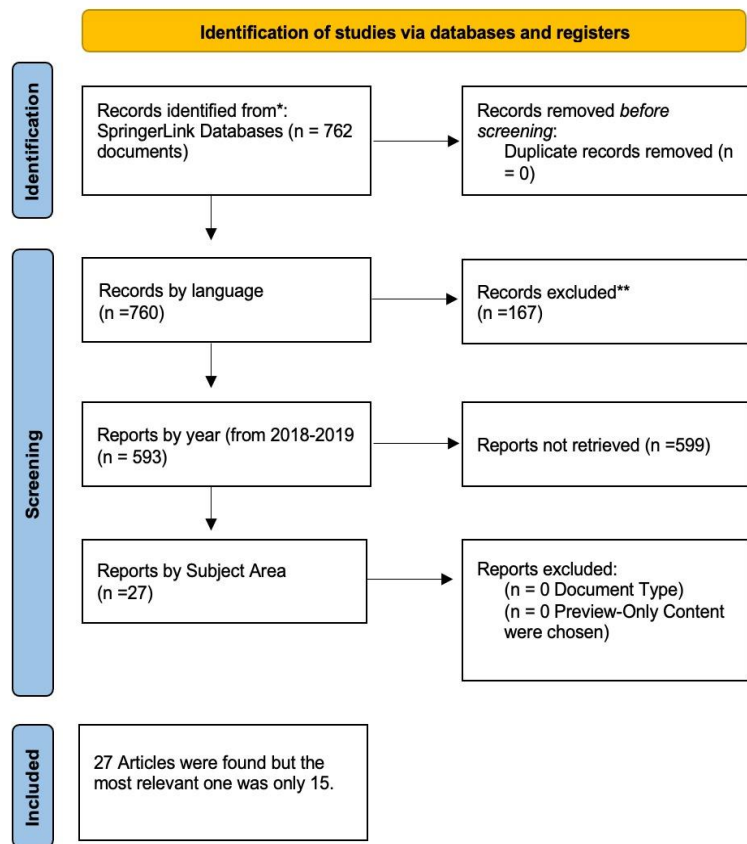
Methodology

“Systematic literature review is a type of review that collects multiple research studies and summarizes them to answer a research question using rigorous methods” (Gough, Oliver, and Thomas, 2017: 5).

The Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) statement, commonly referred to as PRISMA 2009, was introduced in 2009 to enhance the transparency and quality of systematic reviews and meta-analyses (Panić et al., 2013).



| Scopus Database Results | | | | | | | |
|-------------------------|---|--|------|--|----------|-----------------------------------|---------------|
| | Authors | Title | Year | Source title | Cited by | Publisher | Document Type |
| 1 | Mameche Y.; Omri M.A.; Hassine N. | Compliance of accounting education programs with international accounting education standards: The case of ies 3 in Tunisia | 2020 | Eurasian Journal of Educational Research | 9 | Ani Publishing | Article |
| 2 | Golding D.; Kopsick K. | The colonial legacy in Cambridge Assessment literature syllabi | 2019 | Curriculum Perspectives | 6 | Springer International Publishing | Article |
| 3 | Fakoussa R.; O'Leary S.; Salem S. | An exploratory study on social entrepreneurship in Egypt | 2020 | Journal of Islamic Accounting and Business Research | 6 | Emerald Group Holdings Ltd. | Article |
| 4 | Hamid, S., Alzouebi, K., Akinci, F., Zengul, F. | Examining the association between educational attainment and life expectancy in MENA region: A panel data analysis | 2018 | Health Planning & Management | 4 | Wiley | |
| 5 | Farid S.; Baines D. | Pharmacoeconomics Education in the Middle East and North Africa Region: A Web-Based Research | 2021 | Value in Health Regional Issues | 3 | Elsevier Inc. | Article |
| 6 | Pacheco E.-M. | International Student Well-Being and the Influence of Politics | 2020 | Rethinking Education Across Borders: Emerging Issues and Critical Insights on Globally Mobile Students | 2 | Springer Singapore | Book chapter |
| 7 | Arar K.; Zohri A.-A.; Alhouti I.; Chaabani Y.; Sawalhi R.; Salha S. | A critical analysis of education policy in turbulent times: A comparative study | 2023 | Power and Education | 1 | SAGE Publications Ltd | Article |
| 8 | Belarbi A.K.; El Refae G.A.; Aissani R.A. | Internationalization of Education and the Brain Drain Paradox: Case of the Mena Region | 2023 | Journal of Higher Education Theory and Practice | 0 | North American Business Press | Article |
| 9 | Aravena F.R. | The difficult task of peace: crisis, fragility and conflict in an uncertain world | 2019 | The Difficult Task of Peace: Crisis, Fragility and Conflict in an Uncertain World | 0 | Springer International Publishing | Book |
| 10 | Khine M.S. | Handbook of Research on Teacher Education: Pedagogical Innovations and Practices in the Middle East | 2022 | Handbook of Research on Teacher Education: Pedagogical Innovations and Practices in the Middle East | 0 | Springer Nature | Book |
| 11 | Farhat H.; Alinier G.; Helou M.; Galatas I.; Josse D.; Campbell C.; Olim N.; Handan Dökmeçi A.; Heriza M.; Chebbi H.; El-Aifa K.; Jaafar A.; Souissi S.; Amor A.B.; Castle N.; Al-Shaikh L.; Abougala W.; Dhiab M.B.; Laughton J. | Exploring attitudes towards health preparedness in the Middle East and North Africa against chemical, biological, radiological, and nuclear threats: A qualitative study | 2024 | Journal of Contingencies and Crisis Management | 0 | John Wiley and Sons Inc | Article |



Methodology

Analysis

Comparison

Scopus: 05 used

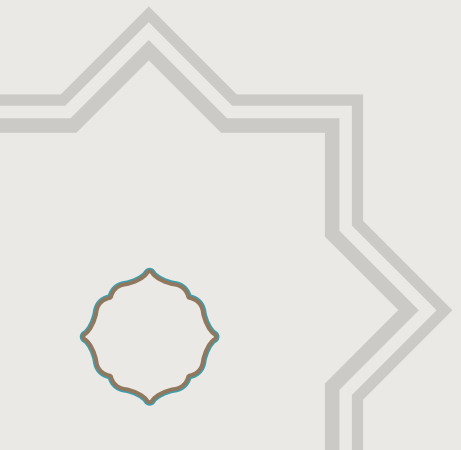
SpringerLink: 15 used

| | SpringerLink Database Results | | | |
|----|--|--|------------------|--------------------|
| | Authors | Item Title | Publication Year | Content Type |
| 1 | Hassan Abouabdelkader, Barry Tomalin | Diversity Education in the MENA Region | 2023 | Book |
| 2 | Prof. Adnan Badran, Prof. Elias Baydoun, Dr. John R. Hillman | Higher Education in the Arab World: Research and Development | 2022 | Book |
| 3 | Adnan Badran, Elias Baydoun, John R. Hillman | Major Challenges Facing Higher Education in the Arab World: Quality Assurance and Relevance | 2019 | Book |
| 4 | Teresa Brawner Bevis | A World History of Higher Education Exchange | 2019 | Book |
| 5 | Adnan Badran, Elias Baydoun, Joelle Mesmar | Higher Education in the Arab World | 2022 | Book |
| 6 | Adnan Badran, Elias Baydoun, Sandra Hillman, Joelle Mesmar | Higher Education in the Arab World | 2023 | Book |
| 7 | Pedro Nuno Teixeira, Jung Cheol Shin | The International Encyclopedia of Higher Education Systems and Institutions | 2020 | ReferenceWork |
| 8 | María Sagrario Salaberri-Ramiro, Abderrazak Zaafour | Sustainable Policies and Strategies in the MENA Region for Teaching English as a Foreign Language | 2023 | Chapter |
| 9 | Sarah Elaine Eaton | Second Handbook of Academic Integrity | 2024 | ReferenceWork |
| 10 | John Waterbury | Reform of Higher Education in the Arab World | 2019 | Chapter |
| 11 | Mohamed Chatatou | Understanding and Maximizing Diversity Education in the MENA Region | 2023 | Chapter |
| 12 | Joseph Zajda | Third International Handbook of Globalisation, Education and Policy Research | 2021 | Book |
| 13 | Nadia Badrawi, Maha Rashwan | Networking and Initiatives on Quality Standards and Integrity in Higher Education in the Middle East | 2023 | ReferenceWorkEntry |
| 14 | Teresa Brawner Bevis | US-Middle East Exchange in the Early Twenty-First Century | 2019 | Chapter |
| 15 | Nadia Badrawi, Maha Rashwan | Networking and Initiatives on Quality Standards and Integrity in Higher Education in the Middle East | 2024 | ReferenceWorkEntry |
| 16 | Teresa Brawner Bevis | The Rise and Fall of International Education Exchange | 2024 | Book |
| 17 | Abdeljalil Akkari | Higher Education in the Arab Region: Globalization, Privatization and Prospects | 2021 | Chapter |
| 18 | Mansoor Alaali | COVID-19 Challenges to University Information Technology Governance | 2022 | Book |
| 19 | Teresa Brawner Bevis | The Late Twentieth Century (1979-1999) | 2019 | Chapter |
| 20 | Adrian CurajJamil Salmi, Cezar Mihai H,j | Higher Education in Romania: Overcoming Challenges and Embracing Opportunities | 2022 | Book |
| 21 | Rasha Sharaf, Hany Helal | The Relationships Between Universities and Governments in the Arab World | 2020 | Chapter |
| 22 | Joelle Mesmar, Adnan Badran | The Post-COVID Classroom: Lessons from a Pandemic | 2022 | Chapter |
| 23 | Teresa Brawner Bevis | Camelot: 1960-2000 | 2024 | Chapter |
| 24 | Teresa Brawner Bevis | Approaching Midcentury | 2019 | Chapter |
| 25 | Fernando M. Reimers | Education and Climate Change | 2021 | Book |
| 26 | Mohammed A. Khasawneh, Nael H. Thaher, Rida A. Shibli, Wejdan S. Abu Elhaja, Ahed M. Alwahadni | Bolstering Economic Growth in the Arab Region Through Commercialization of Research Outcomes | 2022 | Chapter |
| 27 | Teresa Brawner Bevis | A Beckoning: 1945-1960 | 2024 | Chapter |



Findings

Based on found literature



Results

Key trends and patterns in the internationalization of education in MENA countries:

- ❖ **Establishment of Quality Assurance Mechanisms:** Significant trend towards establishing QAAs in MENA countries since early 2000s.
- ❖ **Regional Collaboration and Networking:** Increased engagement in regional collaboration and networking efforts to enhance education quality.
- ❖ **Enrollment Numbers and International Student Mobility:** Egypt and Nigeria have the largest higher education systems in Africa, with millions of students enrolled. The MENA region is witnessing high outbound international student mobility.

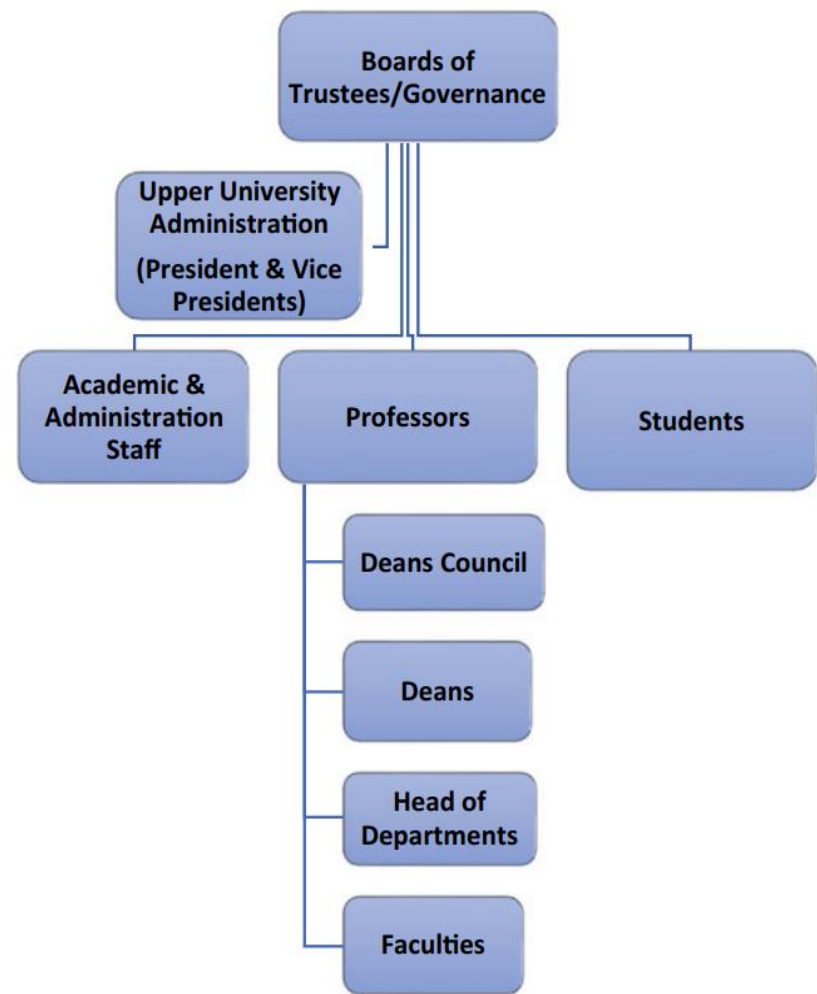


Fig. 5.2 The structure of governance of higher education systems in the Arab world

Key trends and patterns in the internationalization of education in MENA countries

- ❖ UAE hosts over 40 international branch campuses, which represents almost one-quarter of all international branch campuses worldwide (Becker, 2015). The University of Wollongong (Australia) was the first foreign university to be accredited by the UAE Ministry of Higher Education and has operated in Dubai since 1993. It offers undergraduate as well as graduate programs (MBA and PhD).
- ❖ Population Characteristics: The MENA region comprises 54 African countries and 14 Middle Eastern countries with a combined population of 1.4 billion.



Table 4.1 Arab universities and institutes of higher education

| Country | Government universities | Private universities | Colleges and institutes | Total |
|----------------------|-------------------------|----------------------|-------------------------|-------|
| Algeria | 50 | 0 | 56 | 106 |
| Bahrain | 3 | 9 | 4 | 16 |
| Egypt | 25 | 26 | 158 | 209 |
| Iraq | 35 | 12 | 59 | 106 |
| Jordan | 10 | 19 | 7 | 36 |
| Kuwait | 2 | 4 | 9 | 15 |
| Lebanon | 1 | 36 | 12 | 49 |
| Libya | 14 | 6 | 78 | 98 |
| Mauritania | 1 | 7 | 0 | 8 |
| Morocco | 14 | 5 | 31 | 50 |
| Oman | 1 | 7 | 22 | 30 |
| Palestine | 9 | 12 | 10 | 31 |
| Qatar | 2 | 8 | 6 | 16 |
| Saudi Arabia | 27 | 12 | 21 | 60 |
| Somalia | 1 | 17 | 0 | 18 |
| Sudan | 35 | 19 | 53 | 107 |
| Syria | 8 | 22 | 4 | 34 |
| Tunisia | 13 | 15 | 27 | 55 |
| United Arab Emirates | 3 | 30 | 41 | 74 |
| Yemen | 10 | 20 | 18 | 48 |
| Total | 264 | 286 | 616 | 1166 |

Key trends and patterns in the internationalization of education in MENA countries

- ❖ **Global Competitiveness Index:** The text highlights the natural ranking of global competitiveness in 2019, where the UAE emerges as the leading Arab country with an index of 75.0.
- ❖ **Contribution of Universities to Research:** Universities play a significant role in research and development globally.
- ❖ **Distribution of Research Funding:** In the Arab region, research is predominantly funded by the government sector (70%).
- ❖ **Expenditure on R&D:** The Arab world has generally failed to allocate 1% of their GDP spending to R&D, as recommended by the United Nations Conference in 1979.
- ❖ **h-index:** Tunisia ranks first among Arab countries in the h-index.

Table 1 Ranking of Arab countries according to the Research, Development and Innovation Index 2016

| Arab Countries | Ranking according to the Research and Innovation Composite Index | Ranking according to research and development | Ranking according to innovation | Ranking according to enabling environment and infrastructure |
|----------------|--|---|---------------------------------|--|
| UAE | 1 | 1 | 1 | 2 |
| Qatar | 2 | 2 | 6 | 1 |
| Saudi Arabia | 3 | 3 | 2 | 3 |
| Tunisia | 4 | 6 | 5 | 6 |
| Kuwait | 5 | 7 | 11 | 4 |
| Lebanon | 6 | 5 | 3 | 11 |
| Bahrain | 7 | 15 | 4 | 5 |
| Jordan | 8 | 10 | 7 | 9 |
| Oman | 9 | 8 | 13 | 8 |
| Morocco | 10 | 16 | 9 | 7 |
| Egypt | 11 | 4 | 14 | 13 |
| Djibouti | 12 | 14 | 8 | 15 |
| Palestine | 13 | 11 | 12 | 17 |
| Syria | 14 | 13 | 15 | 16 |
| Algiers | 15 | 17 | 16 | 12 |
| Mauritania | 16 | 18 | 10 | 18 |
| Yemen | 17 | 9 | 17 | 20 |
| Sudan | 18 | 12 | 18 | 19 |
| Libya | 19 | 19 | 19 | 10 |
| Iraq | 20 | 20 | 20 | 14 |

Key trends and patterns in the internationalization of education in MENA countries

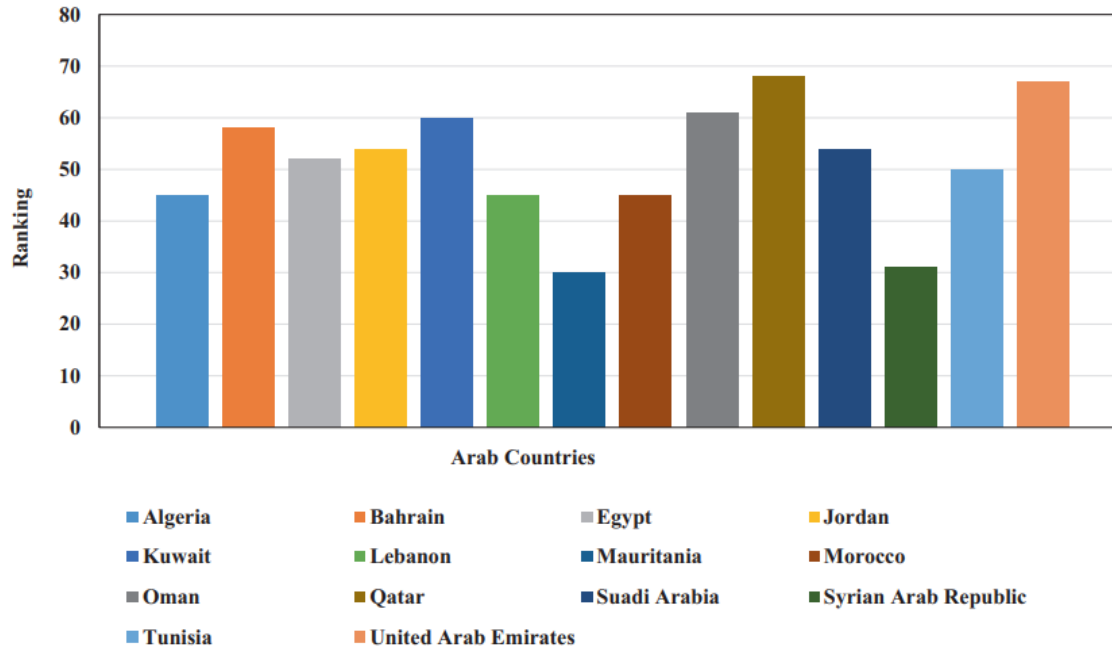


Fig. 2 General enabling environment of the Arab world in the Global Knowledge Index 2019. Data visualized from Knowledge [4All.org](https://www.knowledge4all.org/) (All values are normalized to a scale from 0 (worst) to 100 (best))

Shift towards STEM subjects (science, technology, engineering, and mathematics)

Promotion of interactive approaches and innovation

Increasing collaboration between academia and business

Massification

Negative outcomes of internationalization on the quality of education in MENA countries:

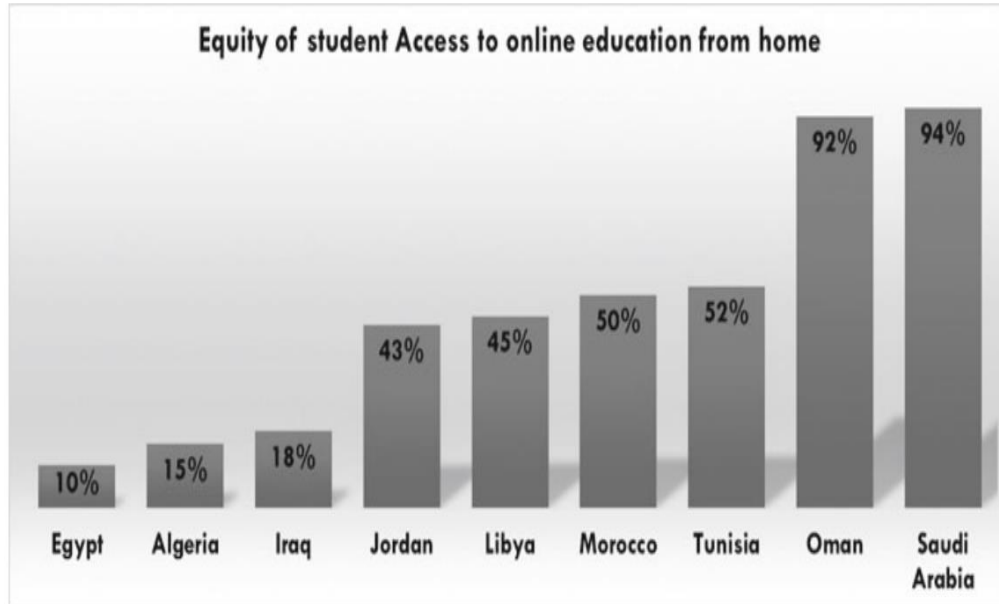


| Levels | |
|---------------|---|
| Government | ✓ |
| Institutional | ✓ |
| Classroom | ✓ |

Fig. 4.1 Some of the challenges facing the Arab higher education



Negative outcomes of internationalization on the quality of education in MENA countries:



- ❖ The Arab Gulf countries have been the largest recipients of transnational higher education globally, whilst Australia, the UK, and USA have been the largest providers” (Wilkins, 2011, p. 73) Transnational education is transferred through three different forms: distance education, branch campus, and partner-supported delivery in joint venture.
- ❖ According to Wilkins (Wilkins, 2011), the Arab Gulf countries “have been the largest recipients of transnational higher education globally, whilst Australia, the UK, and USA have been the largest providers” (Wilkins, 2011, p. 73)

Fig. 7 Equity of student access to online education from home in the Arab World

Negative outcomes of internationalization on the quality of education in MENA countries:

- ❖ Addressing skills gap in higher education: Despite progress in promoting innovation and entrepreneurship, there remains a significant skills gap facing NA universities.
- ❖ Challenges in accreditation and recognition: The excerpt highlights the challenges facing Arab countries regarding the accreditation and recognition of e-learning credentials and certificates.
- ❖ Integration of student perspectives: The excerpt also highlights the importance of integrating student perspectives in assessing e-learning quality.
- ❖ Focus on Information Technology: Information technology plays a crucial role in reshaping education in the MENA region.
- ❖ Government Investment in Research and Development: Political upheavals in 2011 spurred increased R&D funding in countries like Algeria, Jordan, Morocco, Tunisia, and Egypt.

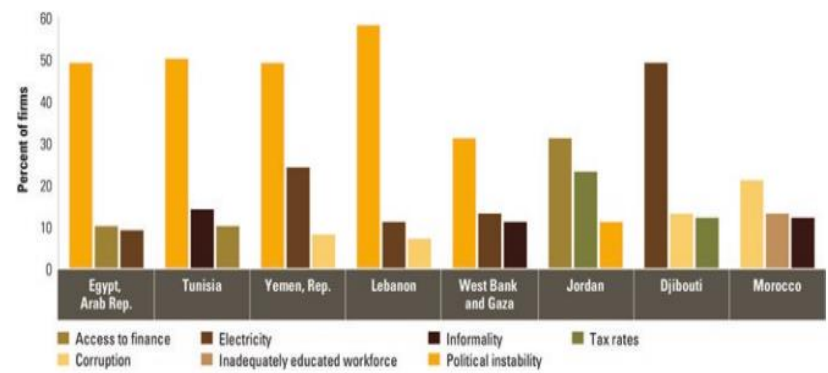


Fig. 2 Political instability is most commonly chosen as top obstacle by MENA surveyed firms (2013/14). (Source EBRD [33], Fig. 2.5)

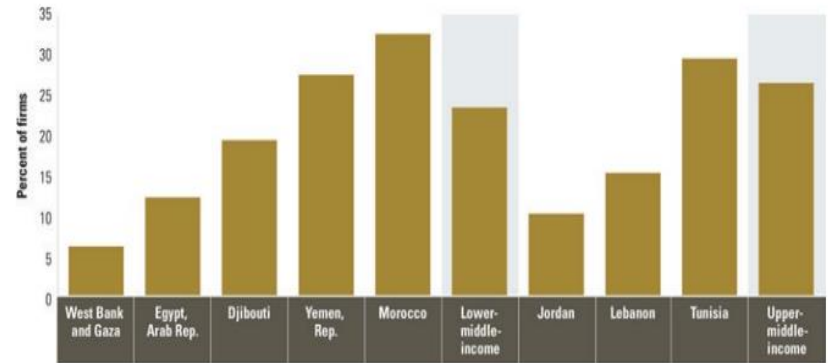
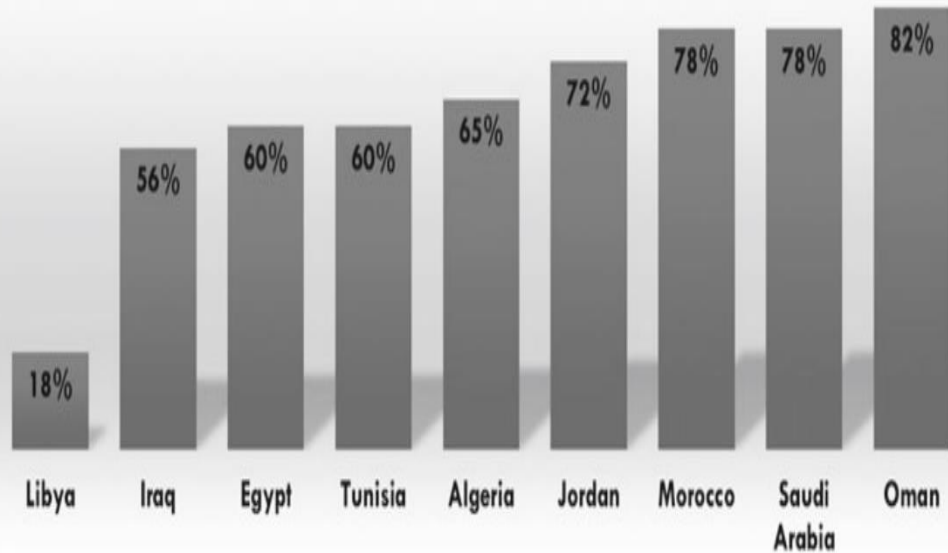


Fig. 3 The proportion of firms reporting and inadequately educated workforce as a severe constraint. (Source: EBRD [33], Fig. 4.11)

Positive outcomes of internationalization on the quality of education in MENA countries

Provision of sufficient training and capacity building



- ❖ The 1998 UNESCO strategy of internationalization of education, which is viewed as the only pathway to enhance education, scientific research, and innovation, seeks to adopt international standards in all related education academic activities such as teaching, improving academic program curricula, student and faculty exchange, polarization of field experts, acquiring soft communication skills, and seeking international cooperation and partnership in research, education, and training



Fig. 8 Provision of sufficient training and capacity building at higher education institutions in the Arab World

Table 01: Arab region countries with quality assurance agencies

| No. | Country | Has Quality Assurance Agency | Agency Name |
|-----|---|------------------------------|---|
| 1 | Kingdom of Bahrain | ✓ | Education and Training Quality Authority |
| 2 | Kingdom of Saudi Arabia | ✓ | National Commission for Academic Assessment and Accreditation |
| 3 | Qatar | ✓ | Council for Higher Education |
| 4 | Sultanate of Oman | ✓ | Oman Academic Accreditation Authority |
| 5 | Kuwait | ✓ | National Bureau for Academic Accreditation and Education Quality Assurance |
| 6 | United Arab of Emirates | ✓ | The Commission for Academic Accreditation |
| 7 | Yemen | ✓ | Yemeni Council for Accreditation and Quality Assurance |
| 8 | Libya | ✓ | Center for Quality Assurance and Accreditation of Higher Education Institutions |
| 9 | Lebanon | ✓ | Center of Quality Assurance |
| 10 | Sudan | ✓ | Evaluation and Accreditation Commission (EVAC) |
| 11 | Egypt | ✓ | National Authority for Quality Assurance and Accreditation of Education |
| 12 | Tunisia | ✓ | Tunisian Agency for Evaluation and Accreditation in Higher Education and Scientific Research |
| 13 | Syria | ✓ | National Commission for Quality and Accreditation in Higher Education |
| 14 | Jordan | ✓ | Accreditation Authority for Jordanian Higher Education organizations |
| 15 | Palestine | ✓ | Accreditation and quality assurance commission |
| 16 | Iraq | ✓ | The Iraqi Association for Accreditation and Development of Educational Programs |
| 17 | People's Democratic Republic of Algeria | ✓ | Quality Assurance Commission for Higher Education (CIAQES) |
| 18 | Republic of Djibouti | x | - |
| 19 | Union of the Comoros | x | - |
| 20 | Kingdom of Morocco | ✓ | National Agency for Evaluation and Quality Assurance Higher Education and Scientific Research |
| 21 | Islamic Republic of Mauritania | ✓ | The Mauritanian authority for Quality Assurance in Higher Education (AMAQ-ES) |
| 22 | Republic of Somalia | x | - |

Positive outcomes of internationalization on the quality of education in MENA countries:

Table 1 International applications by Arab countries in the last 5 years for patents via the World Intellectual Property Organization.

| Arab countries | Population (million 2018) | Gross domestic product (billion US \$) 2018 | 2015 | 2016 | 2017 | 2018 | 2019 |
|----------------|---------------------------|---|------|------|------|------|------|
| Algeria | 42.23 | 586.39 | 8 | 13 | 12 | 16 | 9 |
| Bahrain | 1.57 | 65.87 | 5 | 6 | 1 | 1 | 2 |
| Egypt | 98.42 | 1084.01 | 58 | 44 | 36 | 44 | 44 |
| Iraq | 38.43 | 598.20 | 2 | 1 | 2 | — | 2 |
| Jordan | 9.96 | 82.73 | 1 | 1 | 6 | 12 | 19 |
| Kuwait | 4.14 | 271.06 | 3 | 3 | 4 | 6 | 5 |
| Lebanon | 6.85 | 79.50 | 7 | 6 | 5 | 6 | 3 |
| UAE | 9.63 | 641.58 | 77 | 81 | 98 | 100 | 108 |
| Tunisia | 11.57 | 128.33 | 8 | 6 | 9 | 7 | 11 |
| Syria | 16.91 | — | 1 | 2 | 1 | 1 | 3 |
| Sudan | 41.80 | 176.84 | 6 | — | 11 | 6 | 3 |
| Saudi Arabia | 33.70 | 1651.15 | 274 | 294 | 378 | 663 | 552 |
| Qatar | 2.78 | 313.03 | 19 | 14 | 26 | 15 | 25 |
| Oman | 4.83 | 177.87 | 3 | 8 | 3 | 14 | 10 |
| Morocco | 36.03 | 279.33 | 34 | 35 | 47 | 49 | 34 |

The data relating to population and GDP are from the UN Statistics Division and the World Bank. Data for PCT applications are extracted from WIPO statistics database

- ❖ **Promotion of innovation and entrepreneurship:** There is a growing emphasis on promoting innovation and entrepreneurship within North African (NA) countries, particularly through the support of startups in various sectors such as financial technology, artificial intelligence, and e-commerce. Governments in the region, including those of Algeria and Egypt, actively encourage the development of technological ecosystems to support innovation.
- ❖ **Investment in research and development:** Morocco and Egypt are highlighted as leaders in research and innovation within the MENA region, with Morocco having the highest GDP expenditure for research and innovation and Egypt ranking second in terms of the share of MENA startup launches.

Positive outcomes of internationalization on the quality of education in MENA countries

- ❖ **Number of Researchers:** The UAE leads in the number of researchers per million people.
- ❖ **Publication Output:** Egypt leads in the number of published articles in peer-reviewed journals.
- ❖ **Global Directory of Publishers:** Despite the presence of numerous publishing houses in Arab countries, the Global Directory of Publishers lists only a limited number.
- ❖ **Arcif Report 2020:** The report utilized data from 681 Arabic peer-reviewed journals.
- ❖ **Countries Represented:** The distribution of journals from 18 Arab countries shows Algeria having the highest number of journals.
- ❖ **Citation Ranking:** The top ten cited journals include publications from Jordan.

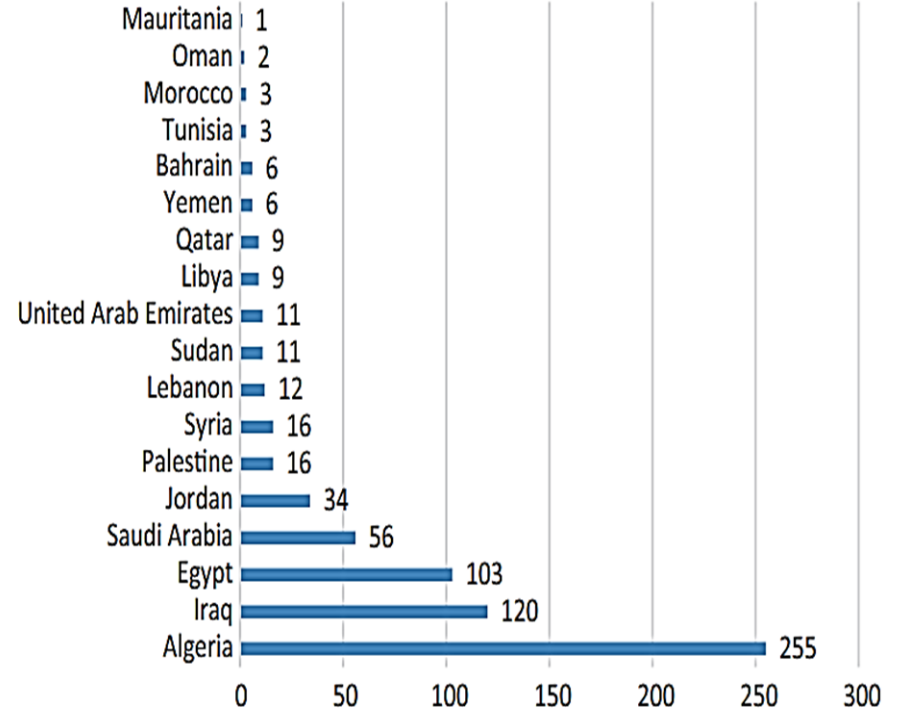


Fig. 13 Distribution of journals from Arab countries




04



Conclusion



The internationalization of education in MENA countries offers opportunities to enhance various aspects of society, from health and labor participation to cultural exchange and economic growth. Addressing challenges related to education quality, gender equality, and distance learning will be crucial in realizing the full potential of internationalizing education in the MENA region.





Thank You!

*Do you have
any questions?*

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