SRA INTERNATIONAL
ANNUAL MEETING
SEATTLE 2023
OCTOBER 14-18

Research Intelligence for Science Prioritization in Academic Planning

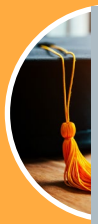
The regional dimension of research and innovation in the Middle East

Luca Polizzi | Manager Strategic Planning and Academic Review | KAUST | Saudi Arabia
Aeisha Salem | Manager Pre-Award and Contracts | KAUST | Saudi Arabia
Fahima A. Nasr | Senior Manager Planning & Sponsored Research | HBKU | Qatar

Research Intelligence: The importance of prioritizing knowledge and intelligence

Multi stakeholders

Multi purpose



Micr

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Ability to transform bibliometric information by interpretation and annotation into highly relevant insights

insights collection

policy Information

megatrends

foresight

bibliometric Information

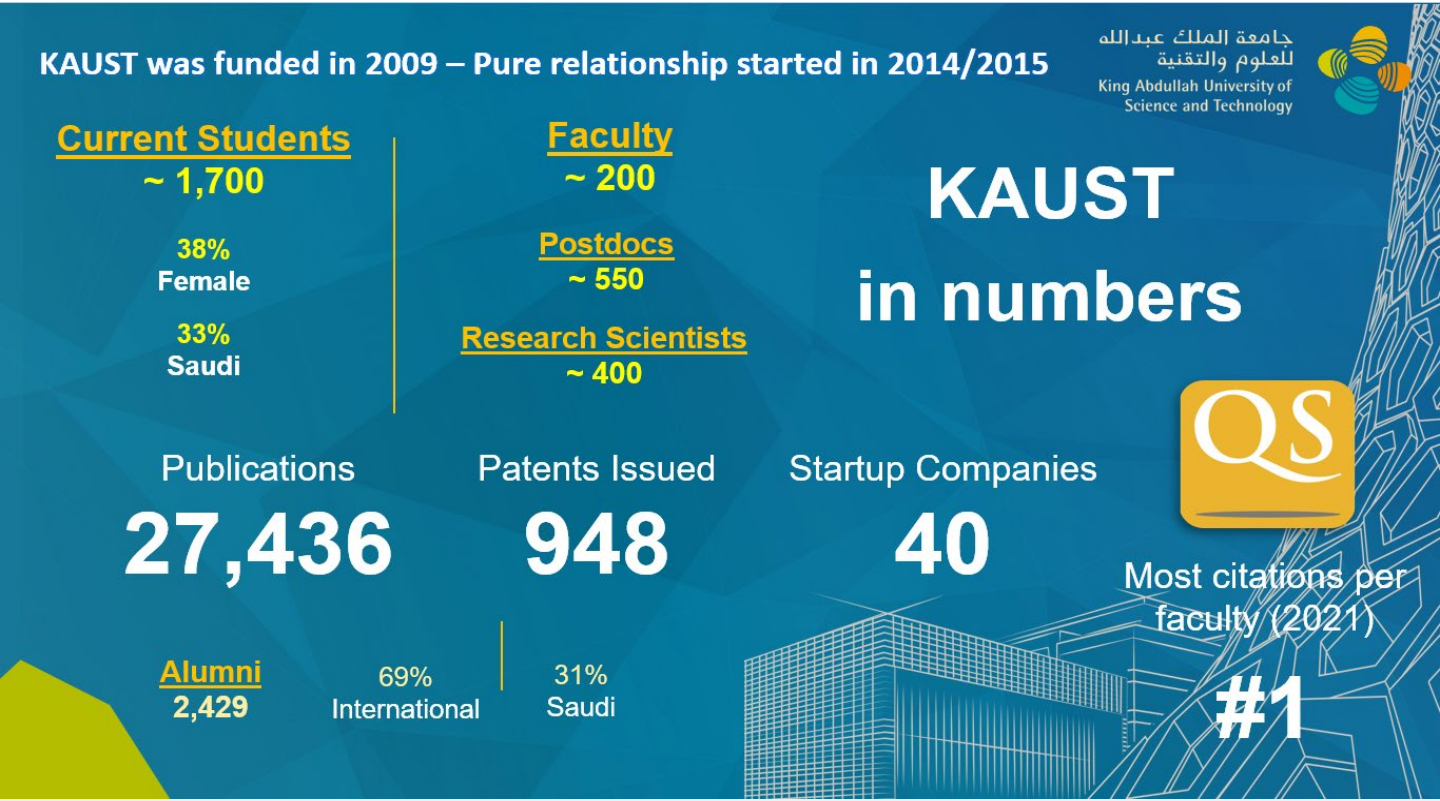
interpretation

assessment

prioritization

strategy development | increase impact | attract funding

KAUST in numbers



Research Intelligence (RI) for prioritisation

VISION رؤية 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

A new KAUST strategy to accelerate achievements and maximizing the positive impact on human life in the kingdom and the world

- National Transformation Institute (NTI) for applied research
- SAR 750 million Deep Technology Fund (DTIF)
- World's largest coral garden with NEOM

KAUST STRATEGY
Accelerating Impact

Focused on Research, Development, and Innovation (RDI) Priorities

- Health and Wellbeing
- Sustainable Environment and Essential Needs
- Energy and Industrial Leadership
- Economies of the Future

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King Abdullah University of Science and Technology

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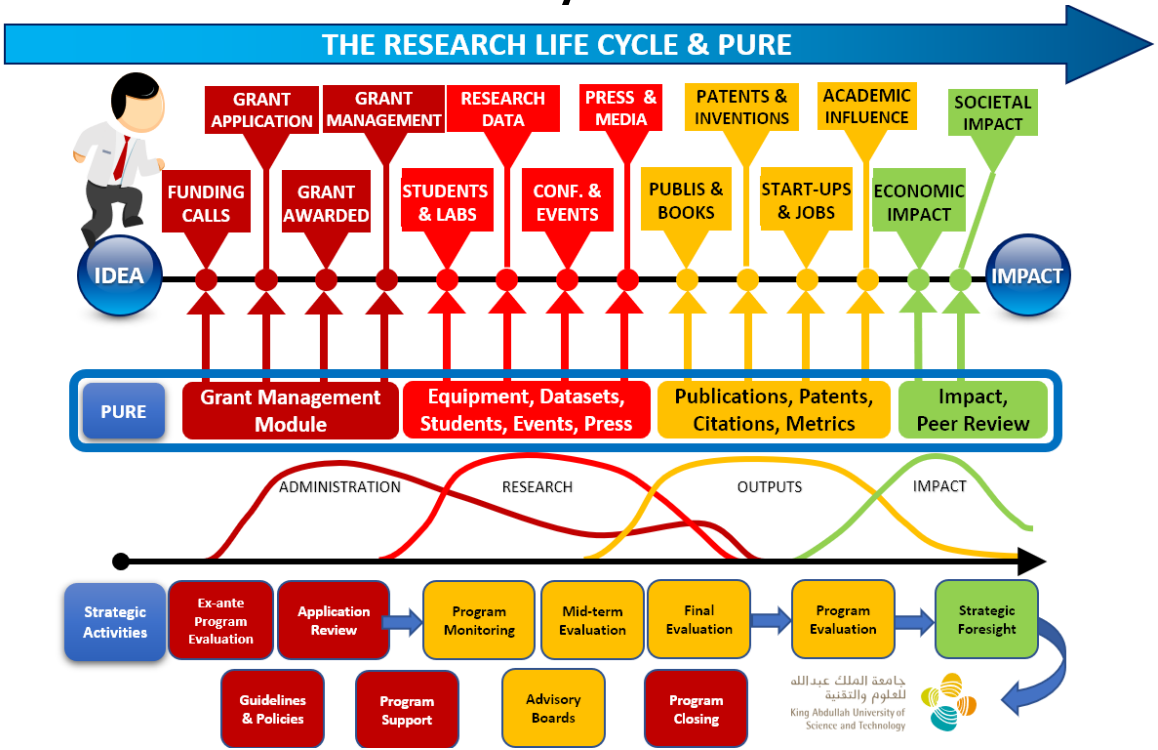
RI in the Research Cycle



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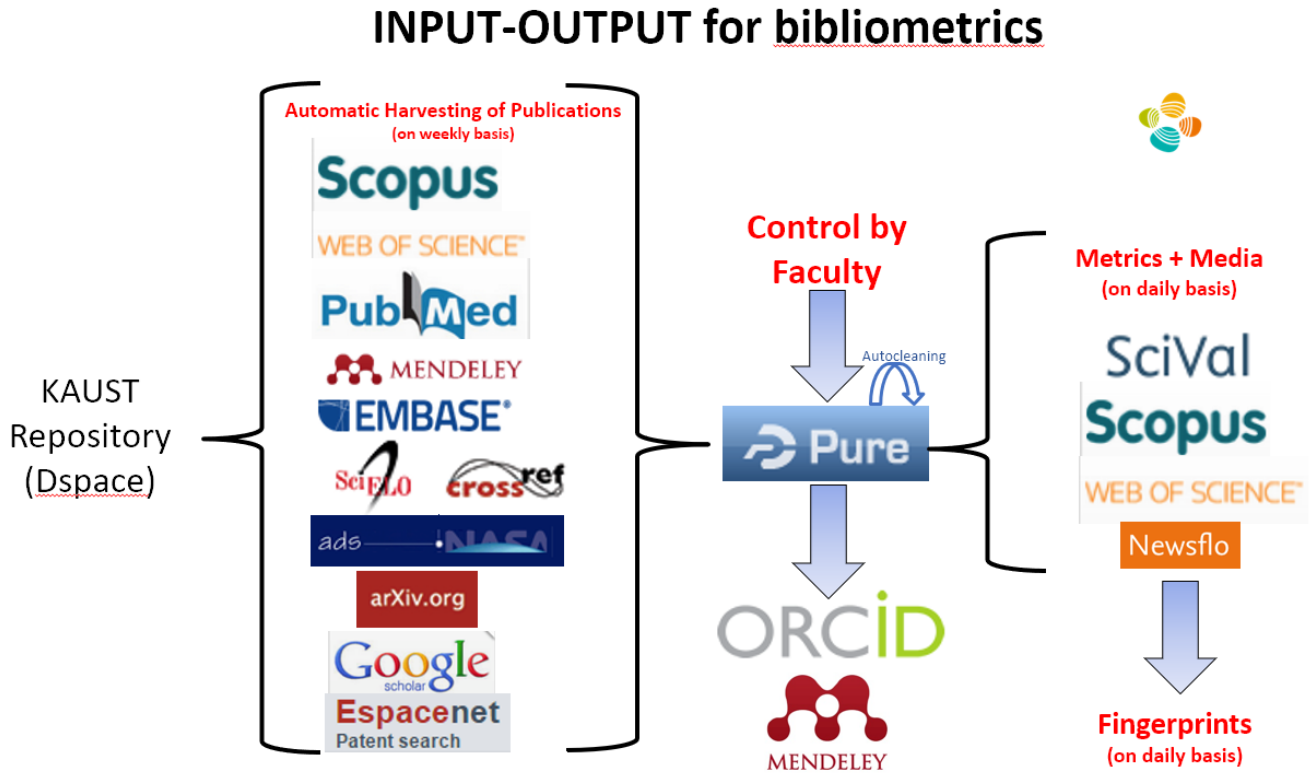
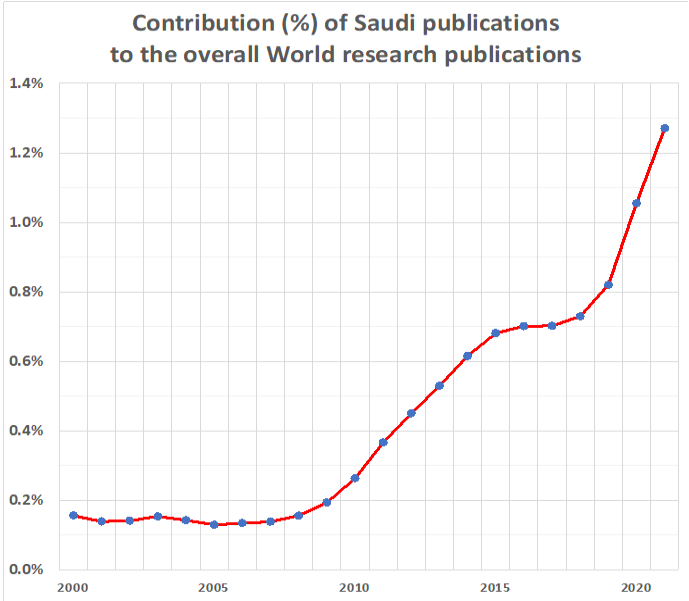
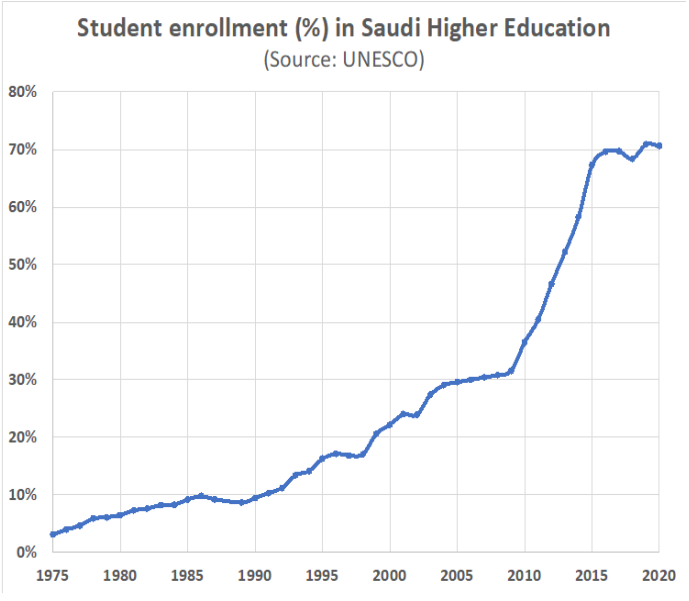
A multi-layered data system to support RI



Examples 1: Students (1)

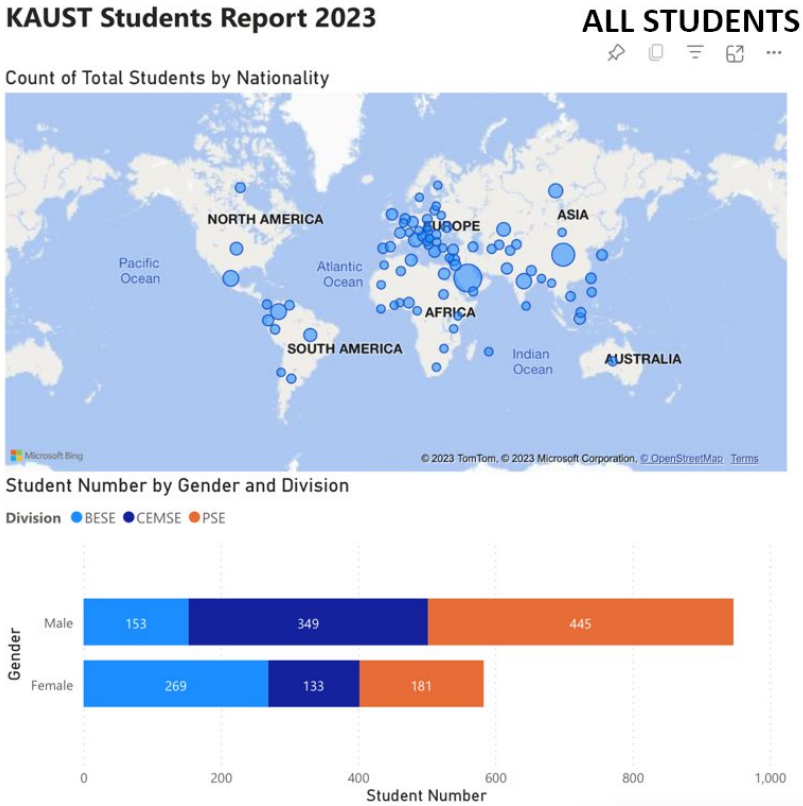


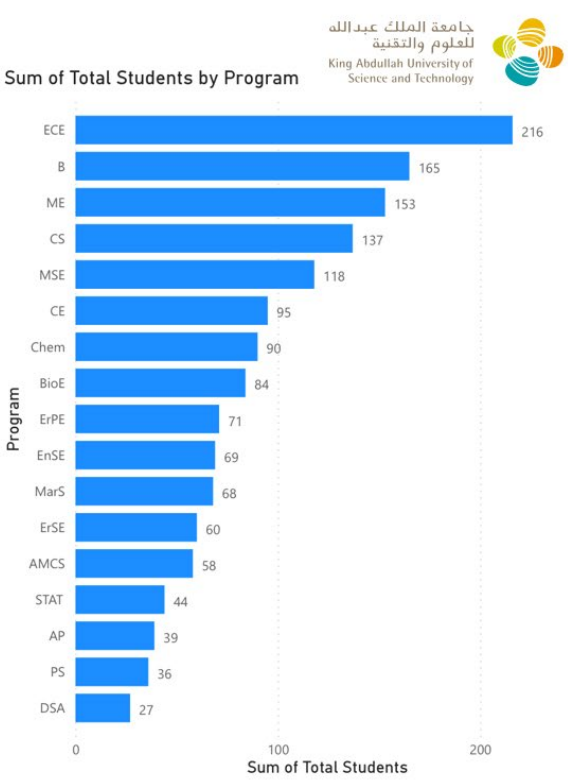
Source: Scival



Source: UNESCO

Examples 1: Students (2)





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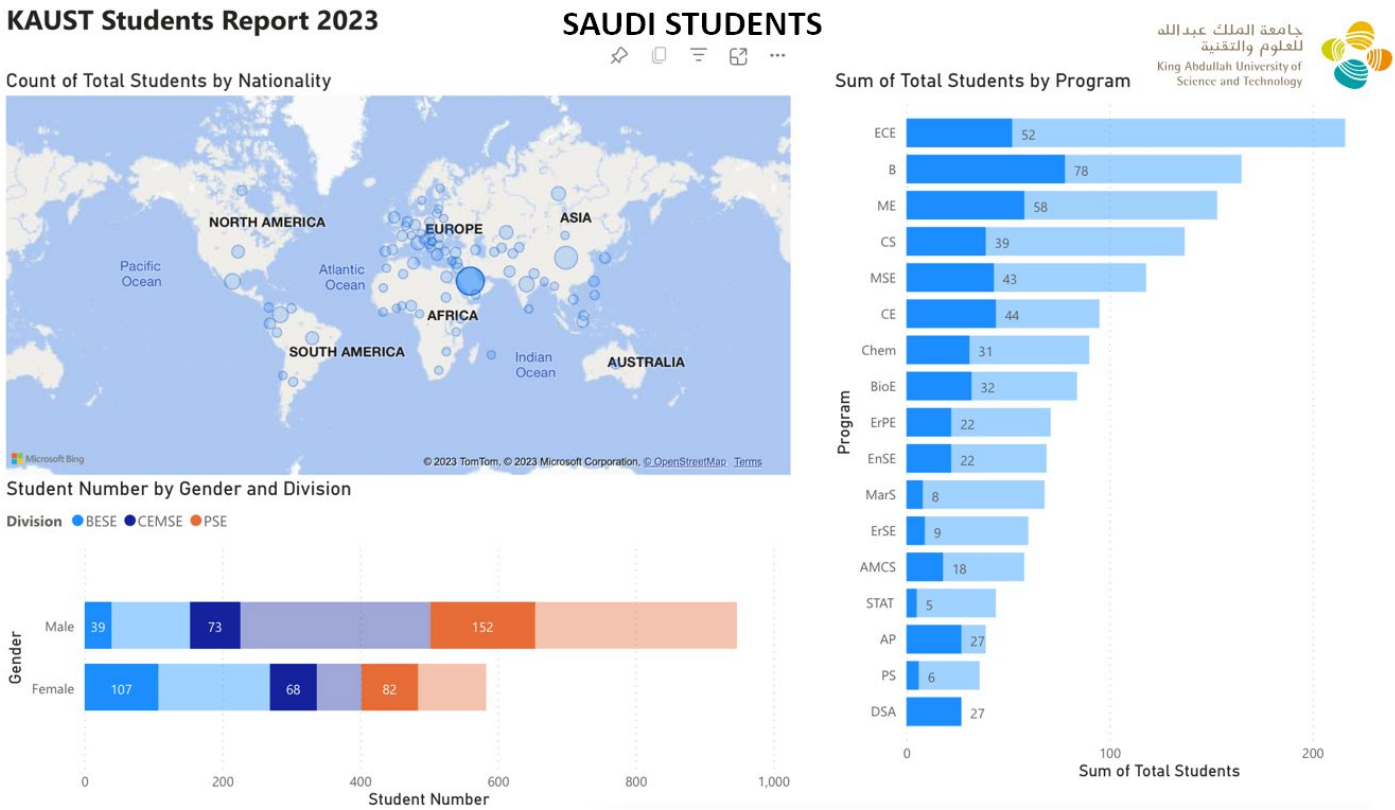
Examples 1: Students (3)



Examples 2: Collaborations

International Collaborations & Rankings

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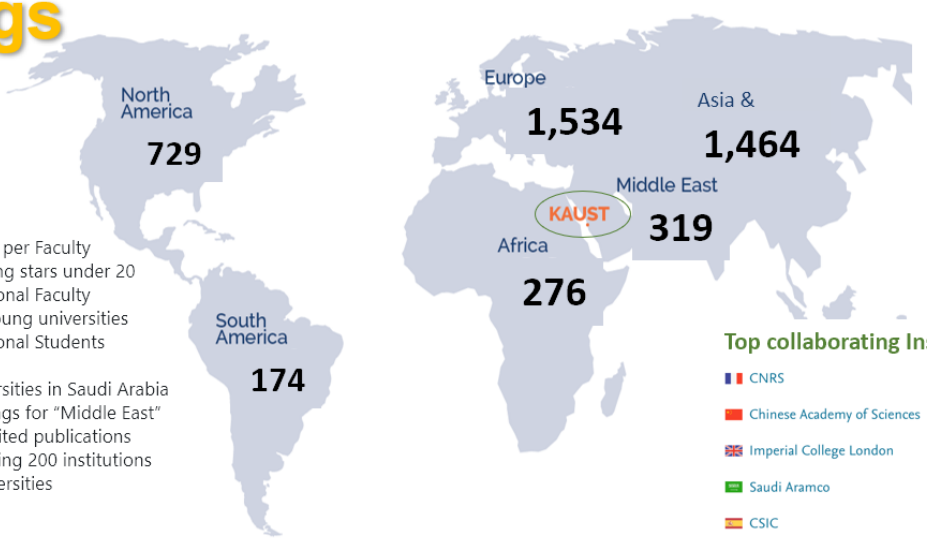
King Abdullah University of Science and Technology



KAUST Rankings

2021
#1 **QS 2021** World Ranking Citations per Faculty
#2 **Nature Index 2021** for world rising stars under 20
#3 **QS 2021** World Ranking International Faculty
#5 **Nature Index 2021** leading 50 young universities
#9 **QS 2021** World Ranking International Students

2022
#2 **US News 2022** Best Global Universities in Saudi Arabia
#4 **Scimago 2022** Institutions Rankings for "Middle East"
#11 **US News 2022** with 10% most cited publications
#29 **Nature Index 2022** Energy leading 200 institutions
#95 **US News 2022** Best Global Universities
#164 **Nature World Index 2022**

2023
#78 **Nature Index 2023** Leading institutions in chemistry
#83 **QS 2023** World Universities Ranking by Subject
#147 **Nature Index 2023** Leading academic institutions
#201-300 **ARWU Shanghai 2023**

Top collaborating Institutions

- CNRS
- Chinese Academy of Sciences
- Imperial College London
- Saudi Aramco
- CSIC
- King Fahd University of Petroleum and Minerals
- United States Department of Energy
- University of Oxford
- King Abdulaziz University

2025 September — **KAUST selected to host the World Academic Summit** by the Times Higher Education

Source: Scival, Pure – Updated: August 2023

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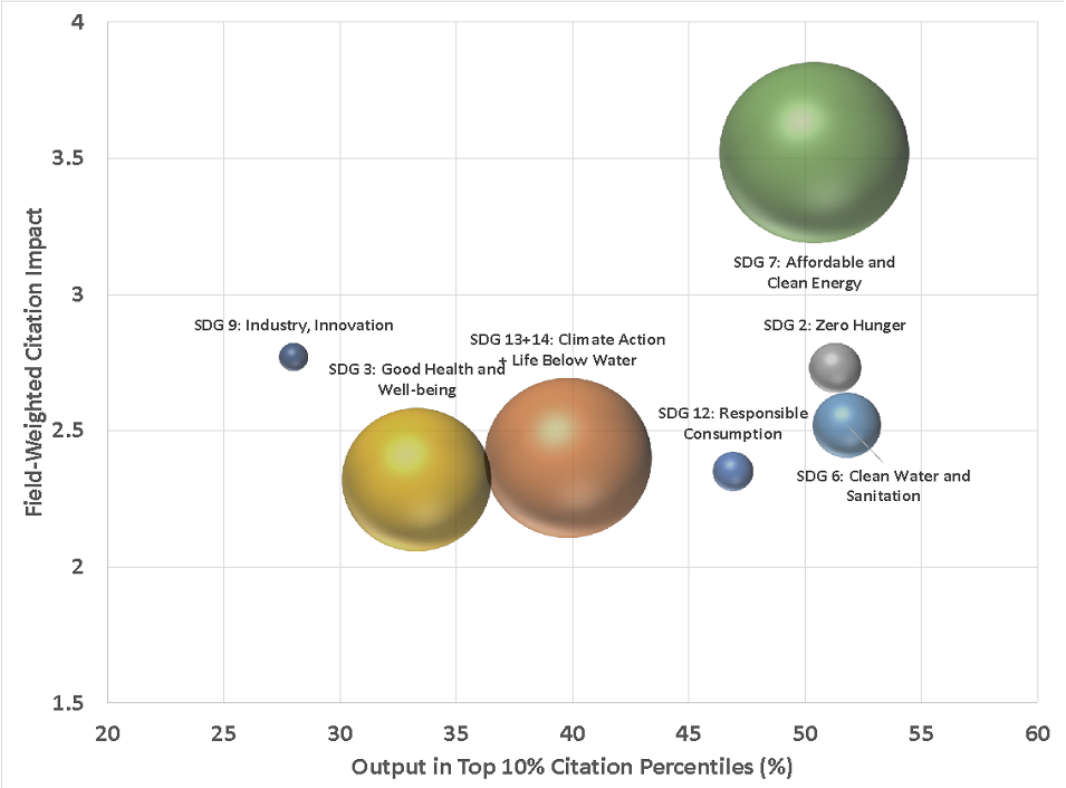
Examples 3: Global priorities

Sustainable Development Goals (SDG) at KAUST

2010-2019
Source Scival, Pure

Bubble sizes are proportional to the number of publications in this domain



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What's new in the Middle East Research landscape - Saudi Arabia?

Push for a "new era of accelerated impact"

- an **economy based** on **innovation** and creativity
- promote knowledge-based economic activities as it **diversifies its income streams away toward non-oil sectors** under the grand scheme of **Vision 2030**

Development of Saudi Authority for Intellectual Property

- **Established in 2018**
- **Drive** the **national economy** and enable a vibrant IP ecosystem
- Push for being the **Leading** hub in MENA

What's new in the Middle East Research landscape - Saudi Arabia?

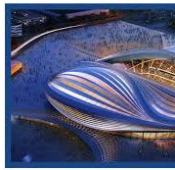
Research Development and Innovation Authority

هيئة تنمية البحث والتطوير والابتكار
Research Development and Innovation Authority

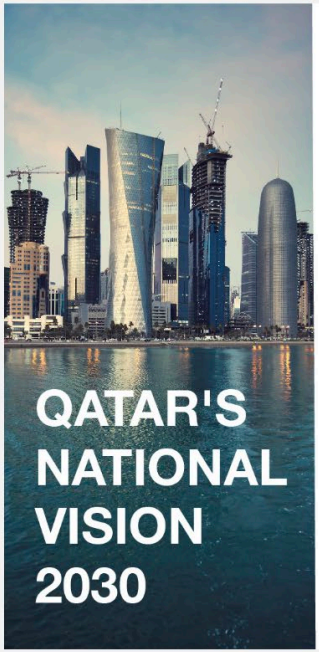
- **Then in 2022,**
- **National policy** for laboratories and scientific devices,
- Enhance the Kingdom's leadership in innovation at the global level,
- Increase spending on the research, development and innovation sector to reach **2.5 percent of the gross domestic product (GDP) by 2040,**
- this sector will contribute to **diversifying the national economy** by adding **SR60 billion** to the **GDP output** by **creating quality jobs in science, technology and innovation**, and attracting national and international talents in research, development and innovation.

Qatar's Research & Innovation Ecosystem

- ✓ **First FIFA World Cup in the Arab world**
- ✓ **Over one million visitors traveled to Qatar**
- ✓ **9.19 million trips via Metro**
- ✓ **All Stadiums Equipped with Central Air-Conditioning**



Qatar becomes an advanced society capable of sustaining its development and providing a high standard of living for its people



The national vision aims to transform Qatar into an advanced country by 2030, capable of sustaining its own development and providing a high standard of living for its population and future generations.

The state of Qatar aims to achieve this through the following four pillars.

مكتب الاتصال الحكومي
Government Communications Office

Human development

Development of all Qatar's people to enable them to sustain a prosperous society

Social development

Development of a just and caring society based on high moral standards, and capable of playing a significant role in the global partnership for development

Economic development

Development of a competitive and diversified economy capable of meeting the needs of, and securing a high standard of living, all its people both for the present.

Environmental development

Management of the environment such that there is harmony between economic growth, social development and environmental protection

[Qatar National Vision 2030]

Qatar becomes an advanced society capable of sustaining its development and providing a high standard of living for its people

50th Ranks among 132 economies

42nd Rank among 50 high-income group economies

6th Rank among the 18 economies in Northern Africa and Western Asia

Year	GDP %
2015	0.5%
2018	0.54%
2021	0.7 %

Source: Global Innovation Index 2023

Qatar Foundation

مؤسسة قطر
Qatar Foundation

a not-for-profit organization where centers and programs focused on education, research and innovation, and community development intertwine for the benefit of Qatar, and the world.

50 + Entities with 8 Universities & 13 Schools

5000 + research projects funded with $1.4 Billion invested in Research

3 National Research Institutes with +**300** Researchers

Qatar Science & Technology Park **42** Startups

Qatar National Library **+ 1 Million** books

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جامعة حمد بن خليفة
HAMAD BIN KHALIFA UNIVERSITY

Hamad Bin Khalifa University (2010)

جامعة حمد بن خليفة
HAMAD BIN KHALIFA UNIVERSITY
عضو في مؤسسة قطر
Member of Qatar Foundation

COLLEGES	INNOVATION	RESEARCH INSTITUTES
6 COLLEGES	INNOVATION CENTER	3 NATIONAL RESEARCH INSTITUTES
105 FACULTY MEMBERS	ENTREPRENEURSHIP PROGRAM	350+ SCIENTISTS
36 PROGRAMS	INNOVATION FUNDS	120+ CORE RESEARCH PROJECTS
900+ STUDENTS / 1500+ ALUMNI	CERTIFIED WORKSHOPS	WORLD CLASS RESEARCH FACILITIES

6,900+ PUBLICATIONS / 150,000+ CITATIONS ACROSS HBKU

Average Faculty H.INDEX > 16.5 - 30 HBKU faculty listed among top in the world in their field

6 Startups licensed

Research Global Trends

- Increase in R&D spending (2.05% to 2.63% GDP in 2020)
- COVID has shown global weaknesses
- Increase focus on innovation – knowledge-based economies
- Focus on digitization and AI
- More funding for translational research and research geared toward applications
- Increased environmental concerns
- Increase in international collaborations

Research Intelligence on Research Administration

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Importance of Research Intelligence in Driving Sponsored Research Office

RI in pre-award:

- Increase grant success rates with funding insights,
- Uncover new funding source
- identifying best-fit researchers and existing and potential cross-sector partners
- Enhance research efficiency and proposal

RI in Post Award :

- optimizing data validation, system integration, and research tracking and administration.

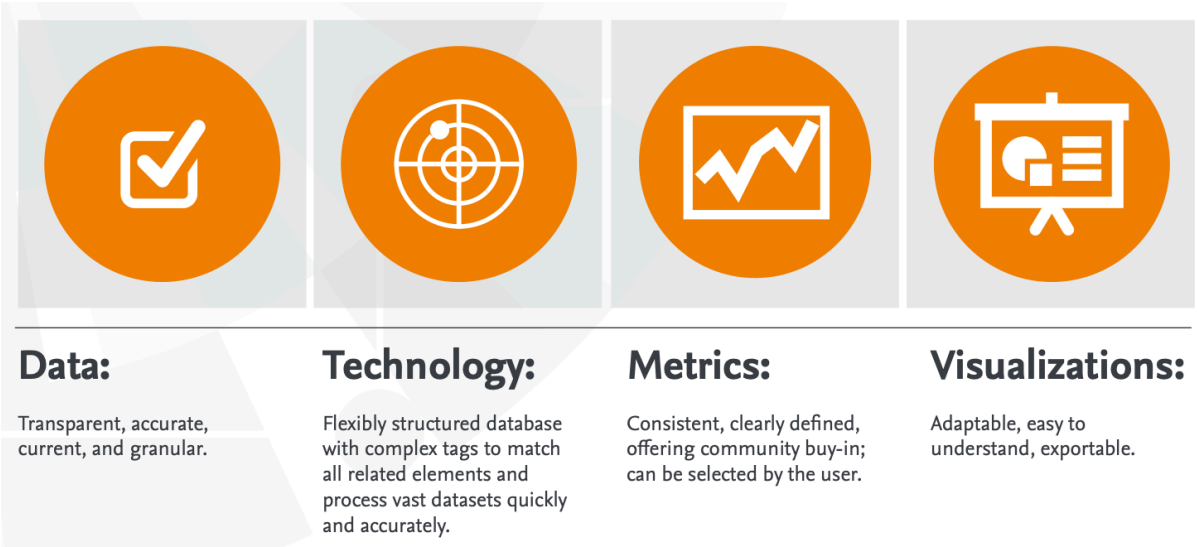
Outreach and Impact

- Enhance your reputation for research excellence and advance open science by increasing research interactions and profile visibility.

Capacity Building

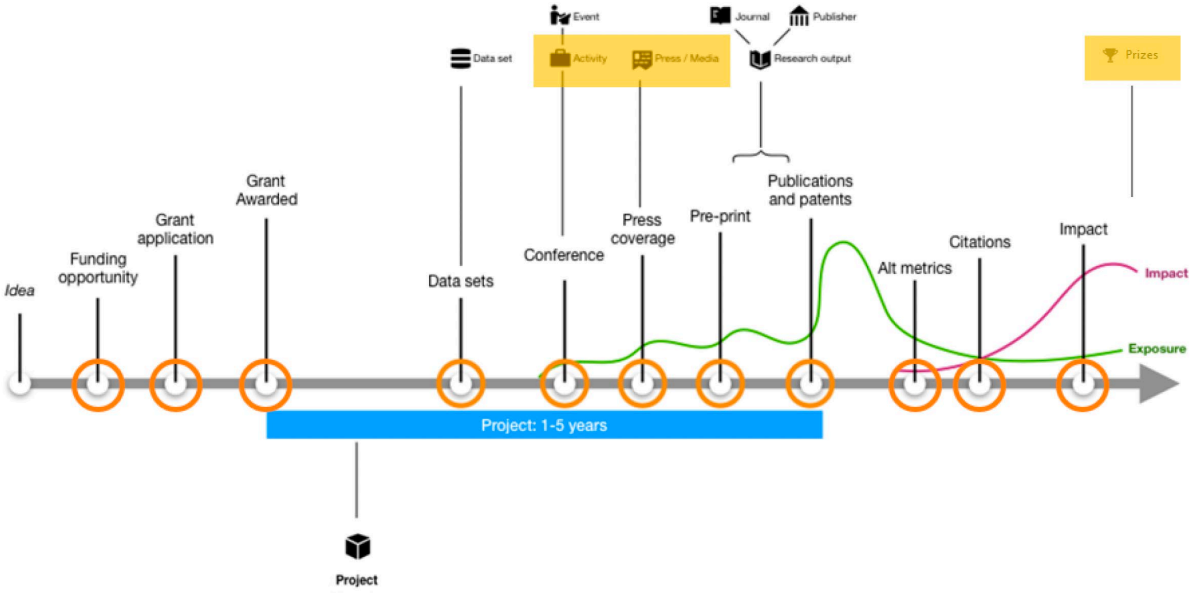
- Invest in staff training and development

Evidence-Based Research Management Decisions



The four ingredients you need to make evidence-based research management decisions with confidence

Research Project Lifecycle- Research Intelligence



Data System to Support AI

ORACLE

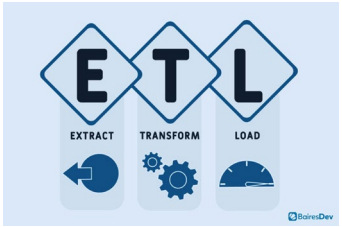
Excel

SciVal

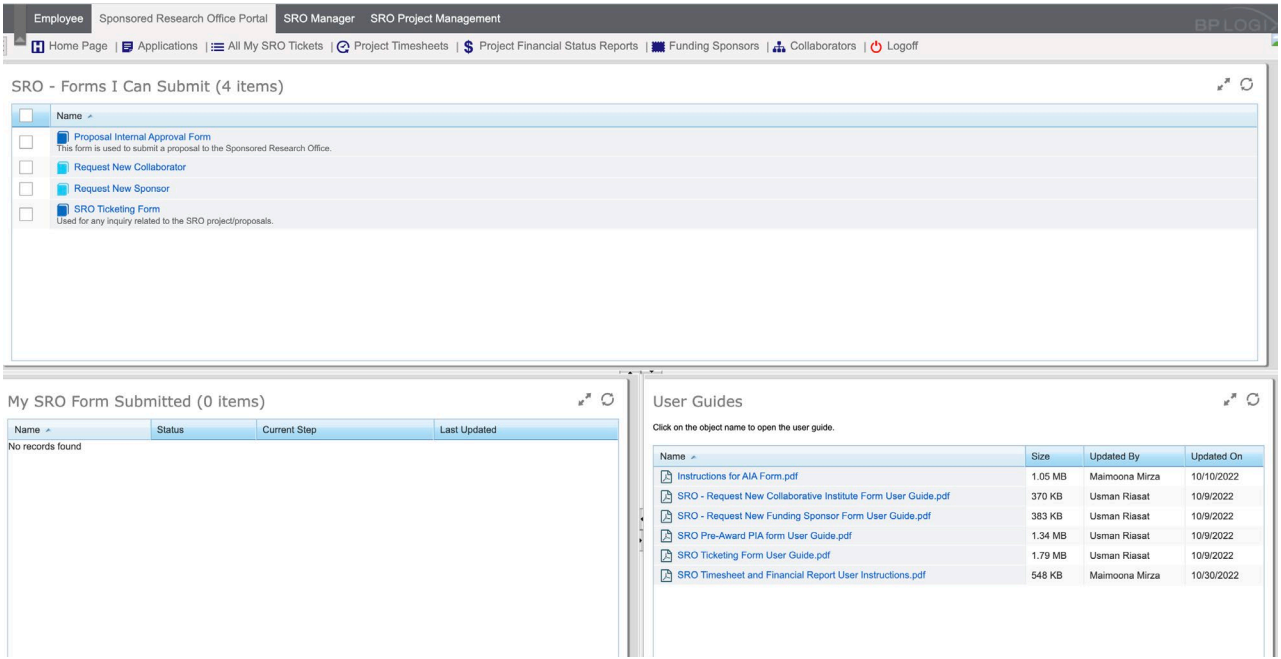
Pure

Scopus®

BP LOGIX

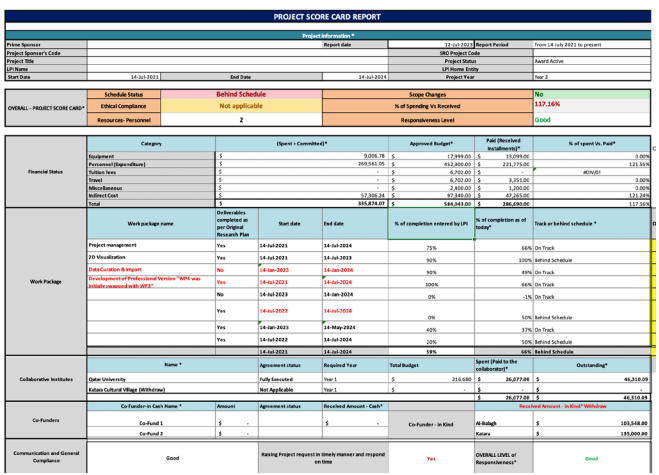


Increase Operation process Efficiency



Tools to Monitor and Analyze Research Project Performance

Research Project Scored Card & Risk Assessment



PROJECT SCORE CARD REPORT

Project Information *

Prime Sponsor		Report date	12-Jul-2024	Report Period	From 14 July 2021 to present
Project Sponsor's Code			SRO Project Code		
Project Title			Project Status	Award Active	
LPI Name			LPI Home Entity		
Start Date	14-Jul-2021	End Date	14-Jul-2024	Project Year	Year 3

OVERALL - PROJECT SCORE CARD*	Schedule Status	Behind Schedule	Scope Changes	No
	Ethical Compliance	Not applicable	% of Spending Vs Received	117.16%
	Resources- Personnel	2	Responsiveness Level	Good

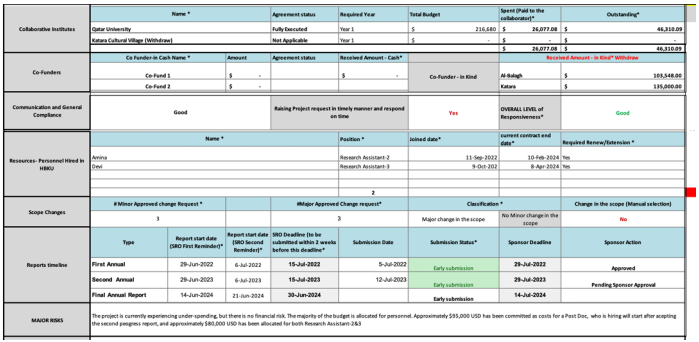
	Category	(Spent + Committed)*	Approved Budget*	Paid (Received Installments)*	% of spent Vs. Paid*
Financial Status	Equipment	$ 9,006.78	$ 17,999.00	$ 13,099.00	3.00%
	Personnel (Expenditure)	$ 269,561.05	$ 452,800.00	$ 221,775.00	121.53%
	Tuition fees	$ -	$ 6,702.00	$ -	#DIV/0!
	Travel	$ -	$ 6,702.00	$ 3,351.00	0.00%
	Miscellaneous	$ -	$ 2,400.00	$ 1,200.00	0.00%
	Indirect Cost	$ 57,306.24	$ 97,340.00	$ 47,265.00	121.24%
	Total	$ 335,874.07	$ 584,043.00	$ 286,690.00	117.16%

	Work package name	Deliverables completed as per Original Research Plan	Start date	End date	% of completion entered by LPI	% of completion as of today*	Track or behind schedule *
Work Package	Project management	Yes	14-Jul-2021	14-Jul-2024	75%	86%	On Track
	2D Visualization	Yes	14-Jul-2021	14-Jul-2023	90%	100%	Behind Schedule
	Data Curation & Import	No	14-Jan-2023	14-Jan-2024	90%	49%	On Track
	Development of Professional Version "WP4 was initially removed with WP3"	Yes	14-Jul-2021	14-Jul-2024	100%	86%	On Track
		No	14-Jul-2023	14-Jan-2024	0%	-1%	On Track
		Yes	14-Jul-2022	14-Jul-2024	0%	50%	Behind Schedule
		Yes	14-Jan-2021	14-May-2024	40%	37%	On Track
		Yes	14-Jul-2022	14-Jul-2024	20%	50%	Behind Schedule
			14-Jul-2021	14-Jul-2024	59%	66%	Behind Schedule

	Name *	Agreement status	Required Year	Total Budget	Spent (Paid to the collaborator)*	Outstanding*
Collaborative Institutes	Qatar University	Fully Executed	Year 1	$ 216,680	$ 26,077.08	$ 46,310.09
	Katara Cultural Village (Withdraw)	Not Applicable	Year 1	$ -	$ -	$ -
					$ 26,077.08	$ 46,310.09

	Co Funder-in Cash Name *	Amount	Agreement status	Received Amount - Cash*		Received Amount - in Kind* Withdraw	
Co-Funders	Co-Fund 1	$ -		$ -	Co-Funder - in Kind	Al-Balagh	$ 103,548.00
	Co-Fund 2	$ -				Katara	$ 135,000.00

Communication and General Compliance	Good	Raising Project request in timely manner and respond on time	Yes	OVERALL LEVEL of Responsiveness*	Good



	Name *	Position *	Joined date*	current contract end date*	Required Renew/Extension *
Resources- Personnel Hired in HBKU	Amina	Research Assistant-2	11-Sep-2022	10-Feb-2024	Yes
	Dwa	Research Assistant-3	9-Oct-202	8-Apr-2024	Yes
		2			

	# Minor Approved change Request *	#Major Approved Change request*	Classification *		Change in the scope (Manual selection)
Scope Changes	3	3	Major change in the scope	No Minor change in the scope	No

	Type	Report start date (SRO First Reminder)*	Report start date (SRO Second Reminder)*	SRO Deadline (to be submitted within 2 weeks before this deadline*	Submission Date	Submission Status*	Sponsor Deadline	Sponsor Action
Reports timeline	First Annual	29-Jun-2022	6-Jul-2022	15-Jul-2022	5-Jul-2022	Early submission	29-Jul-2022	Approved
	Second Annual	29-Jun-2023	6-Jul-2023	15-Jul-2023	12-Jul-2023	Early submission	29-Jul-2023	Pending Sponsor Approval
	Final Annual Report	14-Jun-2024	21-Jun-2024	30-Jun-2024		Early submission	14-Jul-2024	

MAJOR RISKS	The project is currently experiencing under-spending, but there is no financial risk. The majority of the budget is allocated for personnel. Approximately $35,000 USD has been committed as costs for a Post Doc, who is hiring will start after accepting the second progress report, and approximately $80,000 USD has been allocated for both Research Assistant-2&3

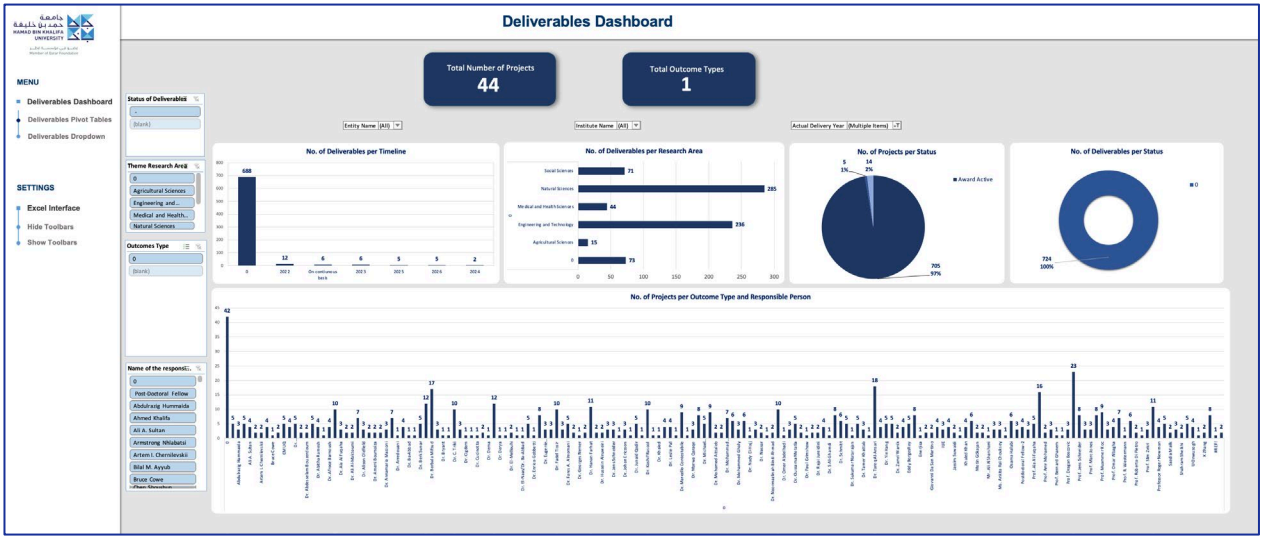
Dashboards

Recruiting on Research Grants Projects Dashobaords

Proposals Dashobaords

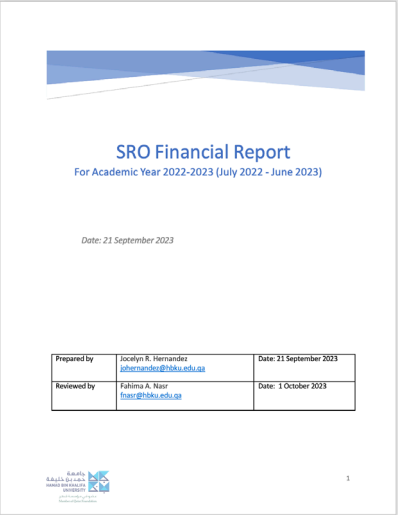
Dashboards

Research Grants Deliverables



Leadership Reporting

1. Office Reports
2. Departmental Report Every 6 months
3. Research office Executive report Every 6 months



SRO Financial Report

For Academic Year 2022-2023 (July 2022 - June 2023)

Date: 21 September 2023

Prepared by	Jocelyn R. Hernandez johernandez@hbku.edu.qa	Date: 21 September 2023
Reviewed by	Fahima A. Nasr fnasr@hbku.edu.qa	Date: 1 October 2023

1

EXECUTIVE REPORT

SPONSORED RESEARCH OFFICE

July 2022 – June 2023

Prepared By:
Ms.Fahima A.Nasr

Date Issued:
30 Sep 2023

1. Increase the cost of research
2. Research funding is shrinking – increased competition
3. Shift from long-term to short-term funding
4. International funding can be challenging due to regulations/politics
5. Governments want to see universities build more partnerships with third parties (e.g., nonprofits and industry) to increase funding and enhance research capabilities and impact
6. COVID has heightened the general views that question the capacity of universities to demonstrate real-world impact
7. Difficulty in retaining talent

- RESEARCH CHALLENGES (POST-COVID)

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"In a world of big data, the real skill lies in connecting the dots." - Pearl Zhu

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SOCIETY OF RESEARCH ADMINISTRATORS INTERNATIONAL

جامعة حمد بن خليفة
HAMAD BIN KHALIFA UNIVERSITY

شكرا جزيلا!

Thank you!