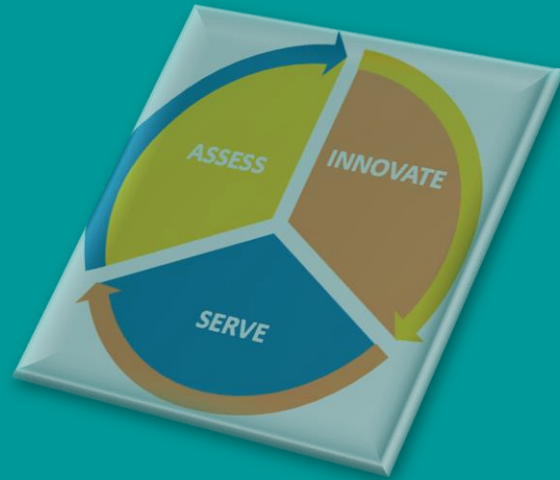


# Role of Research Libraries in Open Science and Open Research: KAUST initiatives



**J. K. Vijayakumar**  
Library Director

## MERIT-BASED

graduate research  
university

## ENGLISH

language of  
instruction

## DEGREES

MS - PhD -  
MS/PhD

KAUST aspires to be a destination for scientific and technological education and research. By inspiring discoveries to address global challenges, we strive to serve as a beacon of knowledge that bridges people and cultures for the betterment of humanity

**Opened on September 2009**

# Academic Divisions



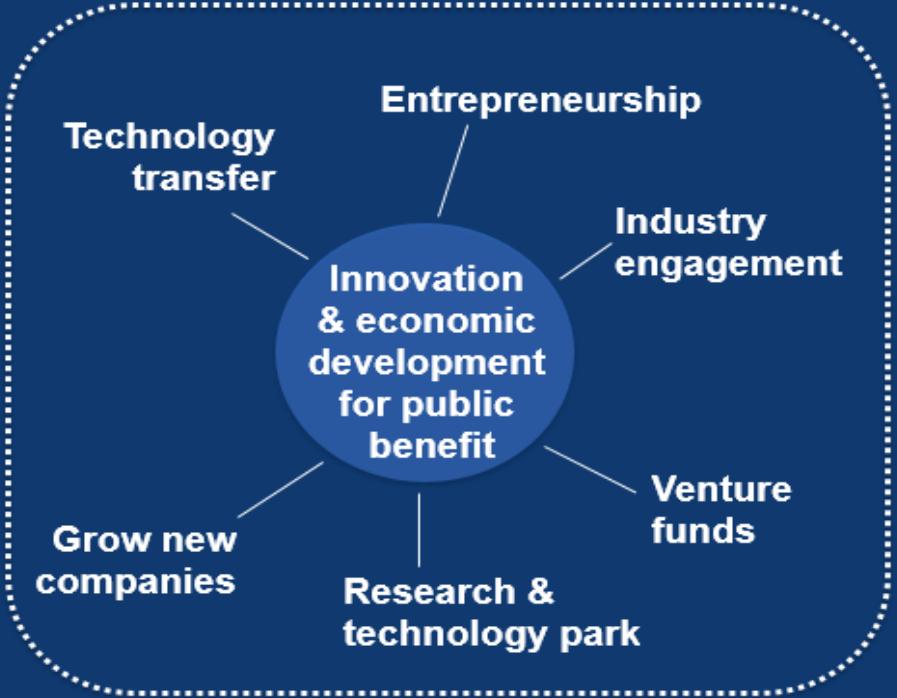
Biological and Environmental Science and Engineering (BESE)



Computer, Electrical and Mathematical Science and Engineering (CEMSE)



Physical Science and Engineering (PSE)



## Sustained Resources

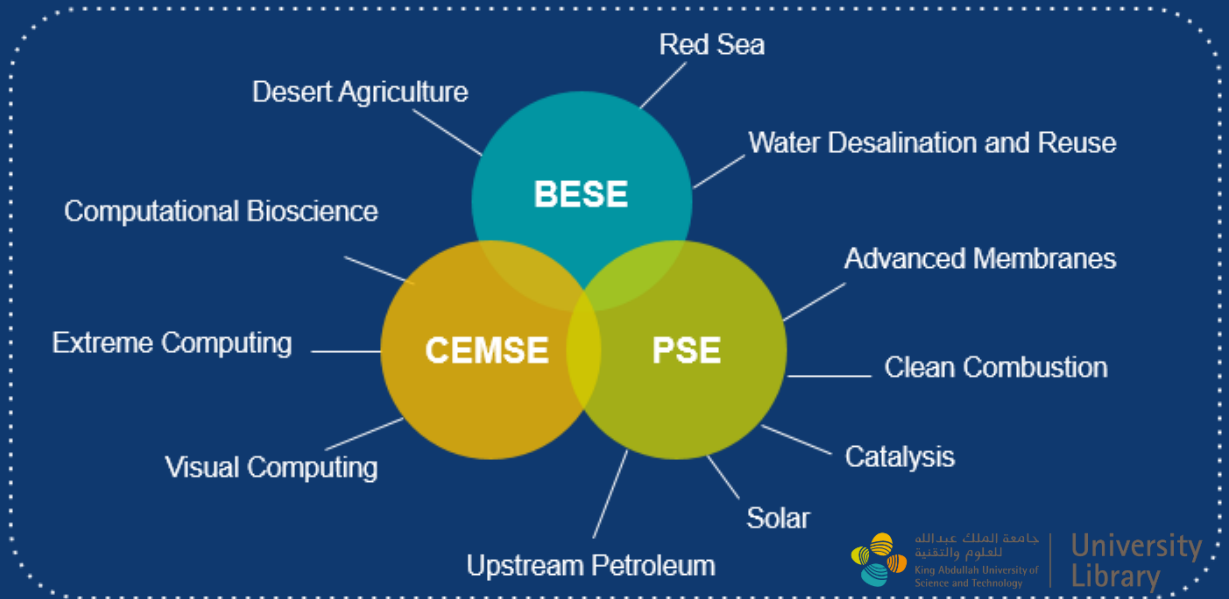


### CORE LABS

- Analytical Chemistry
- Biosciences
- Coastal & Marine Resources
- Greenhouse
- Imaging & Characterization
- Nanofabrication
- Supercomputing
- Visualization
- Central Workshops



## Research Centers



# Quick Facts

## KAUST Quick Facts

(as of July 2018)

### Research Impact

Ranked #1 in citations per faculty by QS World University Rankings for 4 years

**10:1**  
Annual publications to faculty

**13**  
Average citations per publication

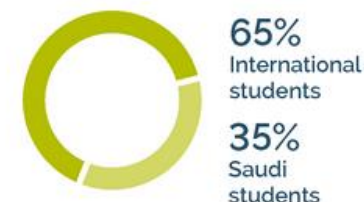
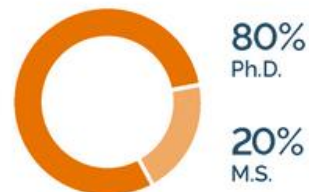
**11**  
Highly cited researchers Thomson Reuters

### University

Numbers updated each September

**1,000**  
Students

**151**  
Faculty



**1,500**  
Alumni

**2,200**  
Staff

**700**  
Postdocs & Research Scientists

### Innovation & Economic Development

**708**  
Invention Disclosures

**578**  
Patent Applications

**105**  
US patents granted

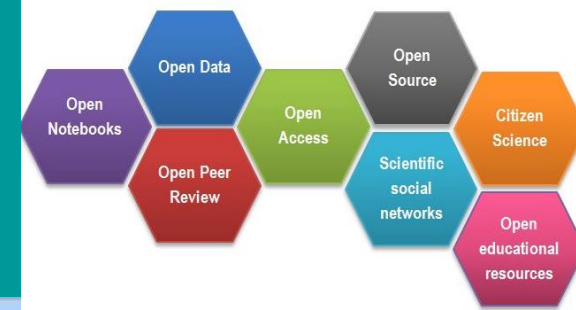
**70**

Companies collaborating in research

**26**

Companies in Research & Technology Park

# Research Lifecycle enhanced by an "Open Science by Default" Workflow



toward ...

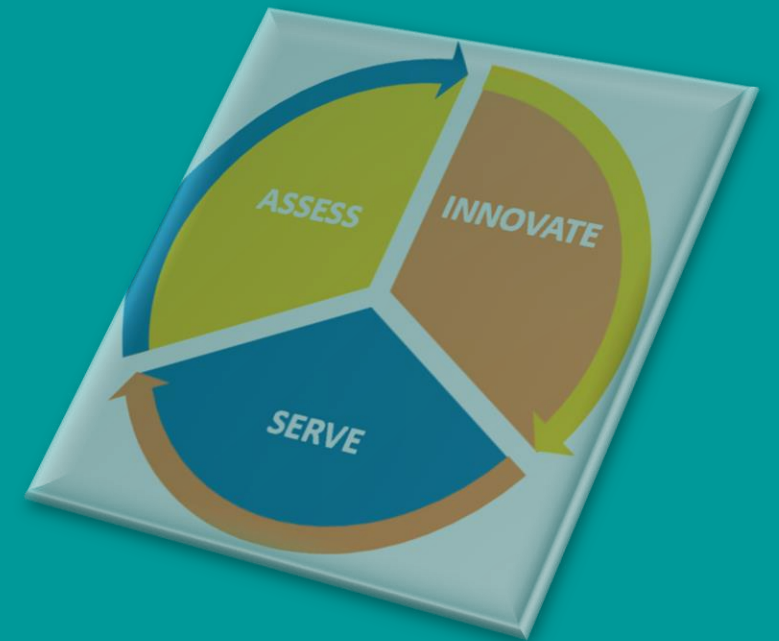


*Impact Factor (IF),  
REF Evaluation,  
Societal Impact,  
Open Innovation*  
**CO-CREATION**

Grigorov et. al (2016)

# Library Service: Roles & Opportunities

- Advocacy – Awareness
- Support with policies and infrastructure
- Research Data Management
- Training – Research Literacy
- Collaboration
- Skills Development



# KAUST Repository

Login Register

Home Browse About Submit an Item Visualize Advanced Search Search

## BROWSE ITEMS BY

- Communities [Show All](#)
- Title
- Authors
- KAUST Authors
- Issue Date
- Submit Date
- Subjects

## LOCAL LINKS

- University Library
- KAUST Open Access Policy Guidelines
- PlumX@KAUST
- ORCID@KAUST
- Thesis and Dissertation Guidelines

## QUICK GUIDES

- Getting started
- Using search

THE KAUST Repository is an initiative of the University Library to expand the impact of conference papers, technical reports, peer-reviewed articles, preprints, theses, images, data sets, and other research-related works of King Abdullah University of Science and Technology (KAUST).

Files in the repository are accessible through popular web search engines and are given persistent web addresses so links will not become broken over time.

KAUST researchers: To submit your research to the repository, click on [Submit an Item](#), log in with your KAUST user name and password, and deposit the item in the appropriate collection.

If you have any questions, please contact [repository@kaust.edu.sa](mailto:repository@kaust.edu.sa).

**Notice: KAUST account login temporarily disabled due to system upgrade process. During the interim, please use the alternative login option. If you experience any problems, email [repository@kaust.edu.sa](mailto:repository@kaust.edu.sa).**

## LATEST PUBLICATIONS

- 6 APR 2018 Article  
Synthesis of Sub-10 nm Two-Dimensional Covalent Organic Thin Film with Sharp Molecular Sieving Nanofiltration  
Authors: Gadwal, Ikhlas; Sheng, Guan; Thankamony, Roshni Lilly; Liu, Yang; Li, Huifang; >>
- 4 APR 2018 Article  
Protecting multi-party privacy in location-aware social point-of-interest recommendation  
Authors: Wang, Weiqi; Liu, An; Li, Zhixu; Zhang, Xiangliang; Li, Qing; >>



Home / King Abdullah University of Science and Technology (KAUST)

Show Profile Data Embed Widget



# King Abdullah University of Science and Technology (KAUST)

KAUST's PlumX dashboard displays a broad range of indicators of the impact of research. It currently provides metrics including downloads, citations and social media sharing related to research recorded in the KAUST repository. The provided metrics can be explored and analyzed for departments, researchers and individual items.... + More

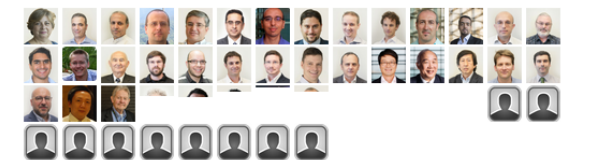
Links: Website, KAUST Repository, Facebook, Google+, LinkedIn, ResearchGate, Twitter, Vimeo, Wikipedia, Flickr

### Artifact Summary

12609	2079	648	622	380
Article	Conference	Data	Thesis	Chapters

## Researchers

Showing 50 of 192



Show All

## Narrow by

Showing 5 of 5

- Academic Divisions
- Core Labs
- Office of Sponsored Research (OSR)
- Research Centers
- University Library

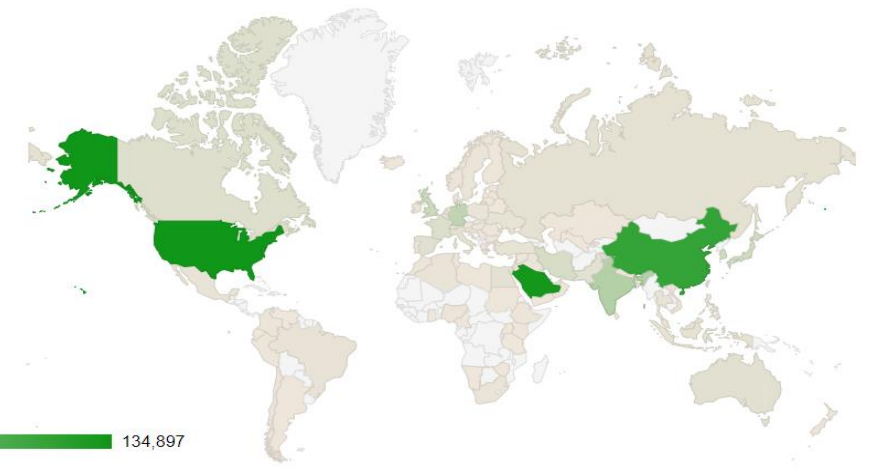
## ORCID at KAUST

KAUST uses ORCID identifiers to identify researchers and their research. Select from the options below before connecting to the ORCID system.

- Create a new ORCID ID or identify an existing one (required).
- Read information from my ORCID record.
- Add KAUST affiliation to my ORCID record.
- Add publications from the KAUST Repository to my ORCID record.

You can change these permissions at any time in the Accounts Settings section of your ORCID record.

[Connect with ORCID](#)



# KAUST: First OA policy in the region 2014

# Current KAUST Repository Content

As of November 8, 2018 (Total number of records 18611)

- Total # records
- Records without full text
- Records with full text
- No full text needed
- Records with full text (with embargo)

## Journal Articles



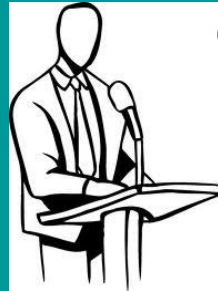
10462

4560

828

5074

## Conference Papers



2167

824

19

1324

## KAUST Funded



3365

## Theses/Dissertations



1040

926

114

## Datasets



672

653

19

## Presentations/Posters



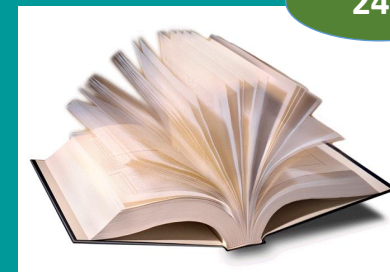
632

## Patents



345

## Book Chapters



241

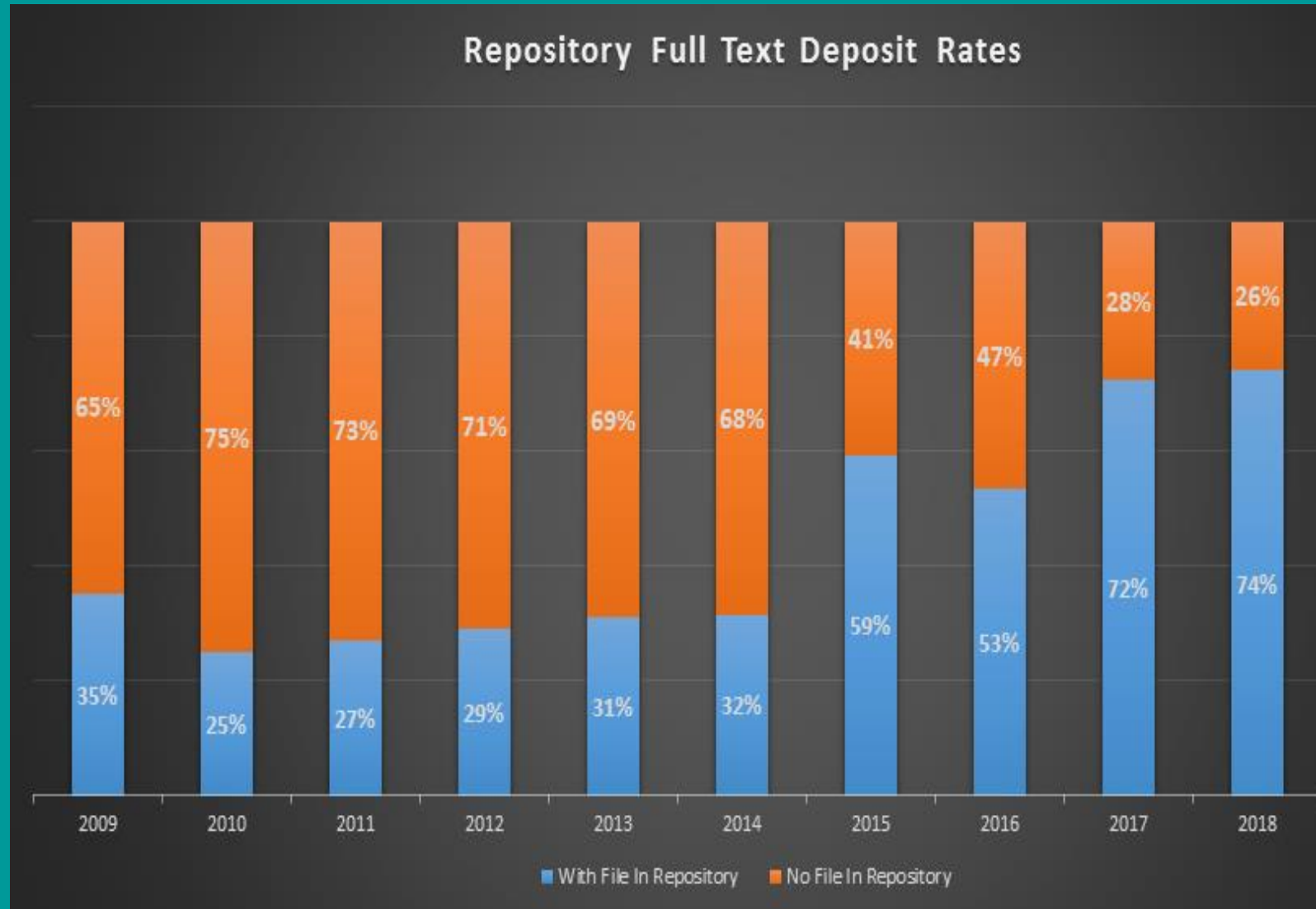
## Technical Reports



44

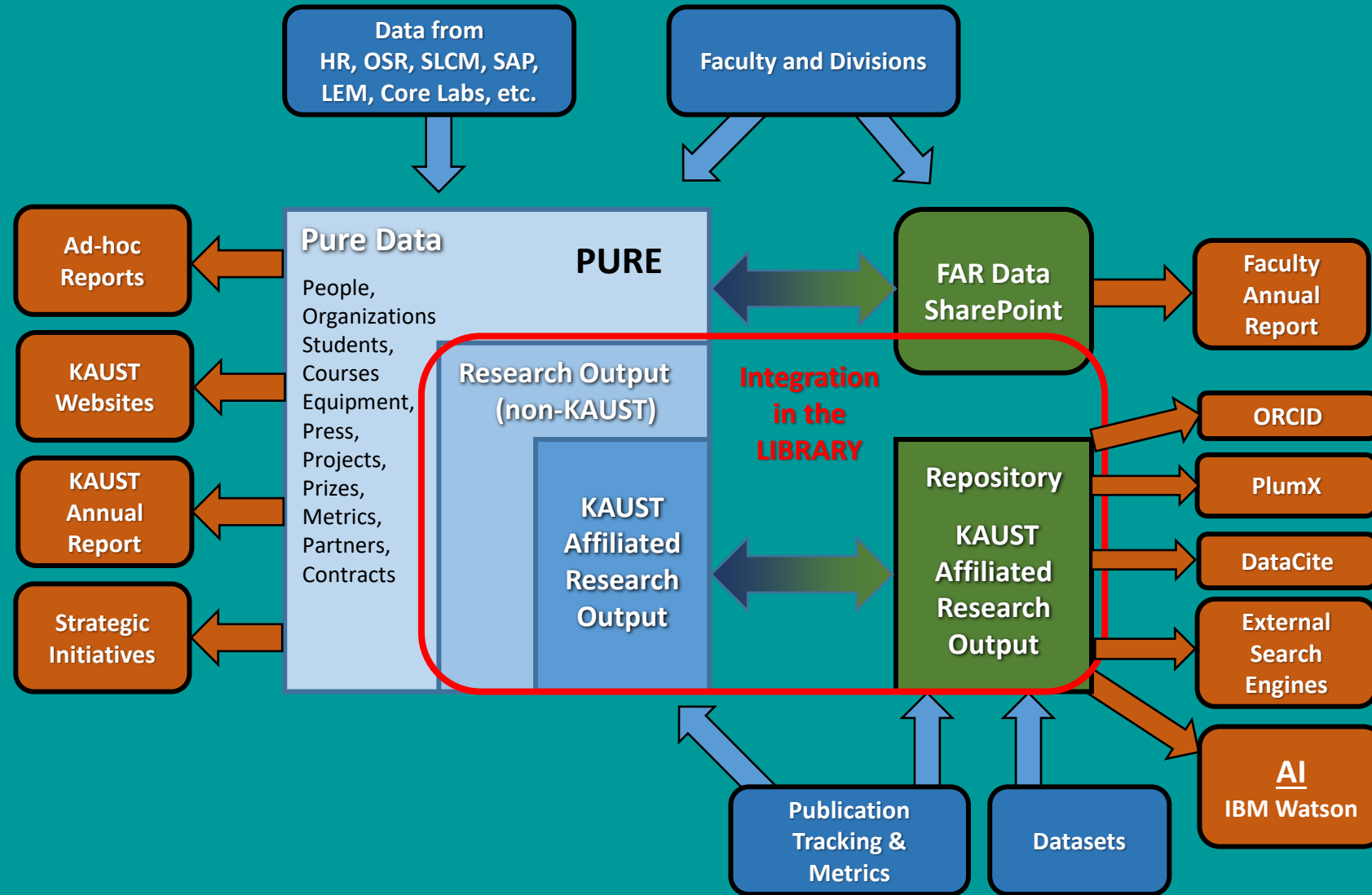


# KAUST Green Open Access policy compliance



From 2019  
faculty  
annual  
review  
and  
research  
evaluation  
will be  
linked to  
files from  
repository  
only

# KAUST Research Information Systems Plan



# Special Interest Groups on RDM



Group brainstorming  
Reading list  
Teach others  
Literature review  
Environmental scanning  
Contact experts

## Administration

- **Brief description:** Embarking upon research data management has major implications at the institutional level, particularly in relation to policies and procedures but more broadly to include data management plans, publication requirements for data availability, reward mechanisms for staff and preservation/ archiving issues.
- **Scope of the group:**
  - o Awareness raising and contact persons for engagement with Divisions in KAUST
  - o Develop local expertise related to specific RDM topics to benefit both the Library and KAUST
  - o Be contact points for selected groups including (but not limited to): [Active Data Management Plans IG](#), [Libraries for Research Data IG](#) [Long tail of research data IG](#)
- **Objective of the group:** To identify those working groups, interest groups and birds of a feather groups with whom those of us involved in administrative areas of the KAUST Library could potentially benefit through targeted involvement of staff both as contributors and liaison points with RDA groups

**Suggested members** – Chris (Lead) ; Vijay; Garry; Janis; Mohamed, Jaya

## SIG Outcomes

### Technology Interest Group – Phase 1

*Report*

*Actionable recommendations*

*DataCite membership*

### Research Domain Interest Group - Phase 1

*Report*

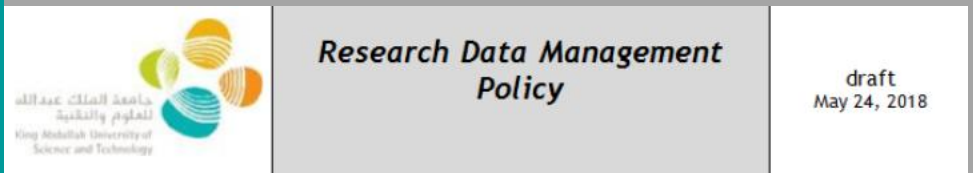
*Actionable recommendations*

*Faculty Survey*

*Libguide on Data management*

### Administration Interest Group - Phase 1

*RDM Policy is drafted*



o p e n a c c e s s  
2 0 2 0



## New Open Access publishing models at KAUST

The KAUST University Library is happy to announce new open access publishing agreements with three STEM publishers, in collaboration with the KAUST Office of Sponsored Research (OSR). These agreements will allow KAUST corresponding authors to publish their accepted articles in open access mode (in the journals of publishers listed below), and they will be made openly available under a creative commons license at no cost to the author.

- Royal Society of Chemistry (RSC) : Read and Publish Model coverage 2019-2021
- Cambridge University Press (CUP) : Read and Publish Model coverage 2019-2021
- Institute of Physics (IOP) : Off-set Publishing Model coverage 2019



arXiv.org



FROM  
CURIOSITY  
TO INNOVATION

Most Recent

Most Popular

By Subject

Magazines

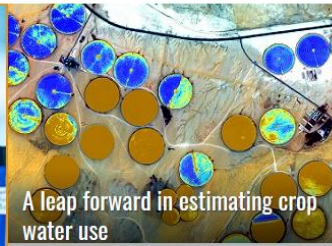
Videos



Global study links newly named syndrome with other disorders



Colorful solution to a chemical industry bottleneck



A leap forward in estimating crop water use



Mangrove forests trap floating litter



Smart pill bottle keeps drugs safe



A drone on crop resources

# KAUST launches vFabLab™, its first virtual lab

Apr 25, 2019 News

[@](#) EMAIL
 [f](#) FACEBOOK
 [in](#) LINKEDIN
 [t](#) TWITTER



The University recently launched vFabLab™—short for Virtual Fabrication Lab—an online-based virtual environment helping to train users in semiconductor fabrication processes. Image courtesy of Muhammad Mustafa Hussain.

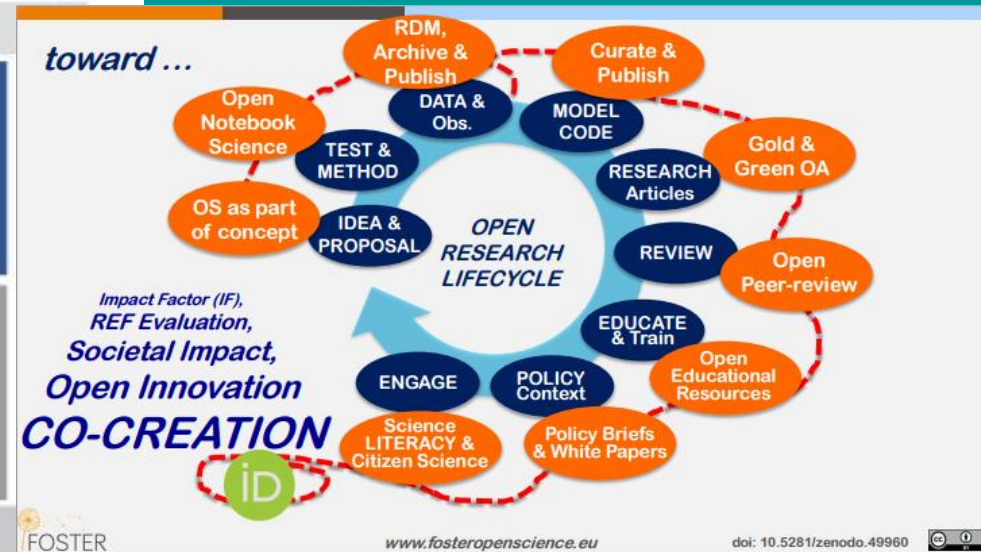
# KAUST IT DataWaha – Data Storage Infrastructure



Vision Realization Office  
Ministry of Education

# Research & Development Program

## Strategic Key Pillars





*where inspiration is born*

University  
Library



Thank you



جامعة الملك عبدالله  
للعلوم والتقنية  
King Abdullah University of  
Science and Technology

