الشبكة البحثية والاكاديمية الفلسطينية
Palestine National Research and Education Network

PALNREN

Challenges and Aspirations.

Regional Conference:

MARWAN: An Innovation Enabler
Through
Advanced e-Infrastructures

Thursday, 13 October 2022

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Ministry of Higher Education & Scientific Research

Palestine

54 higher education institutions: 20 universities, 17 university colleges, 17 intermediate colleges.

217,645 students, 68.7% female

63,058 new, 58.9% female.

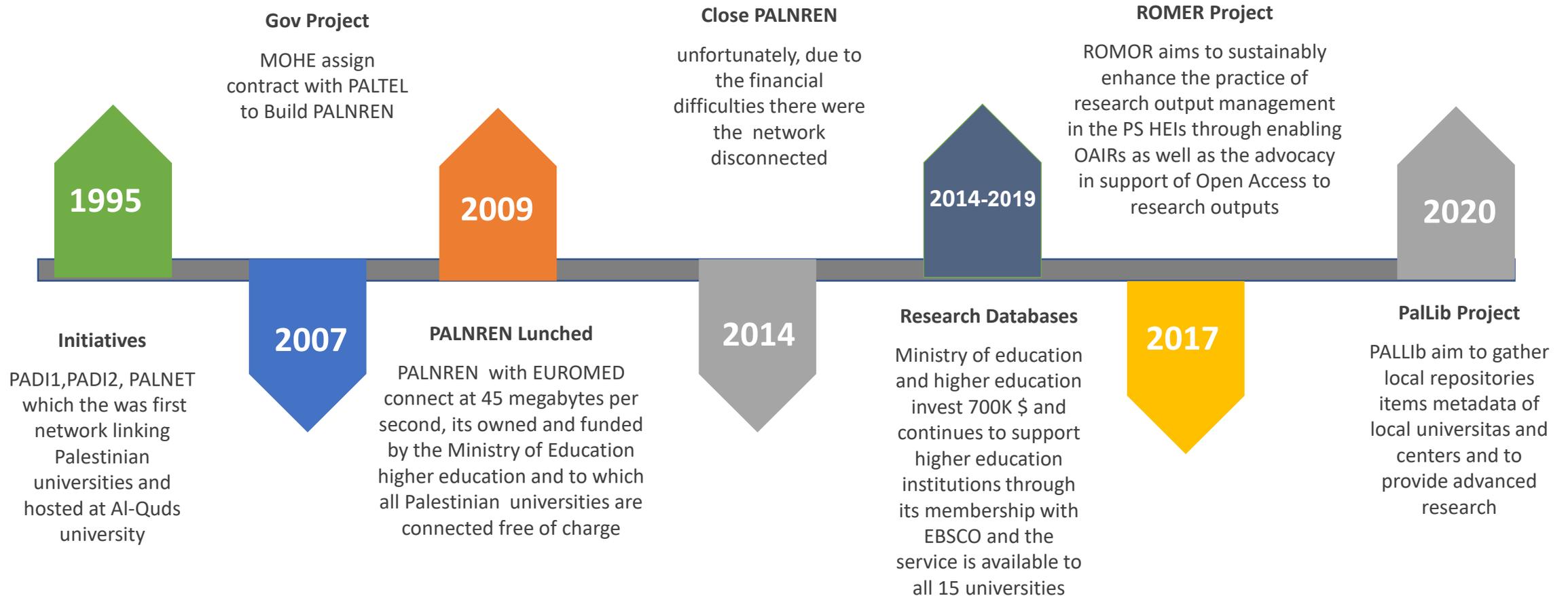**42,394 graduates, 63.1% female.**

16,765 employees.

12,699 research document published in Scopus database.

Challenges

- Obstacles imposed by occupation: restrictions on mobility, visas for international scholars and students, importing of equipment and materials.
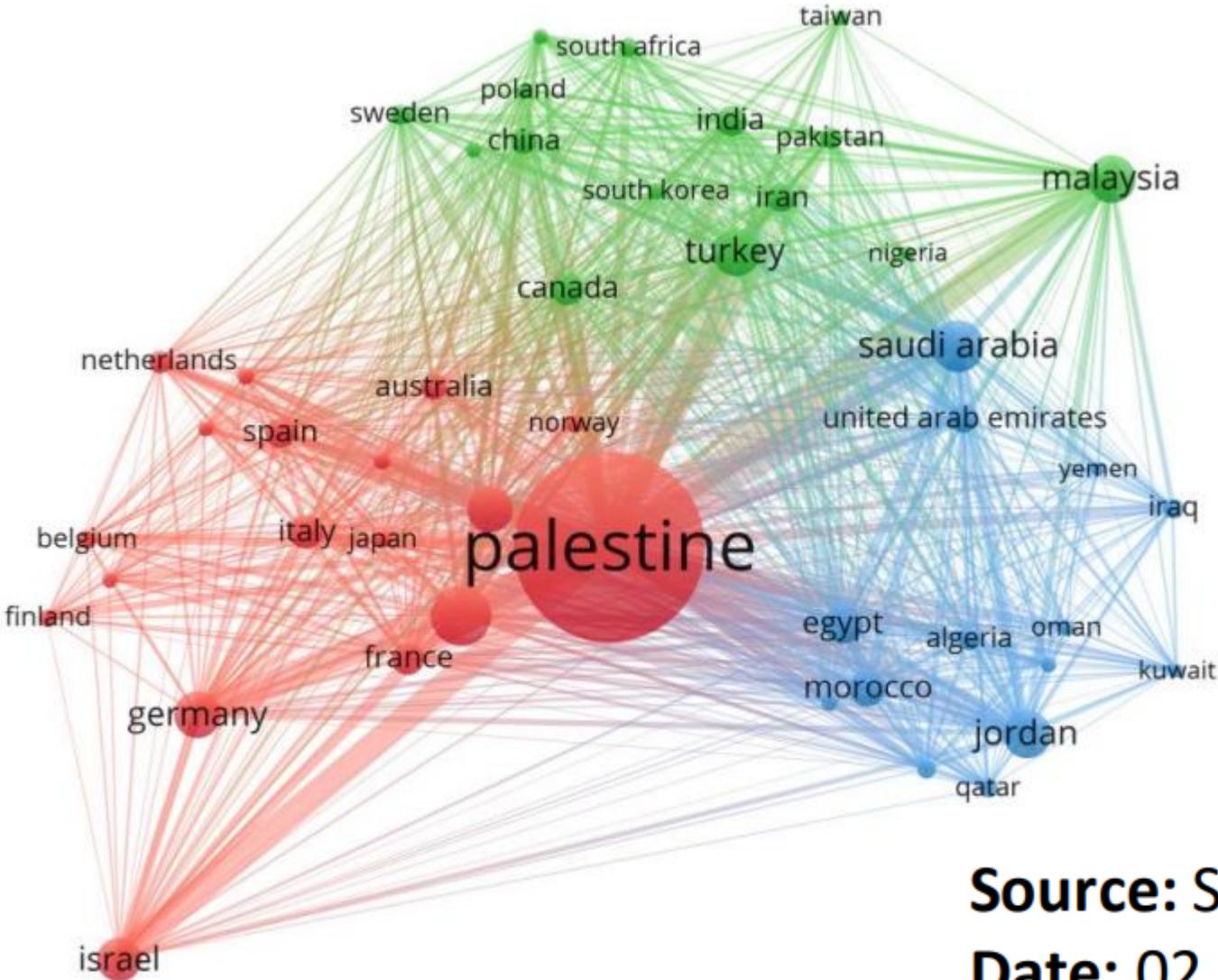- Scarce of sustainable financial resources.

PALNREN History

Scattered Efforts, Many Stages, No Stable Status, No Sustainability

1995

Initiatives

PADI1,PADI2, PALNET which the was first network linking Palestinian universities and hosted at Al-Quds university

2007

Gov Project

MOHE assign contract with PALTEL to Build PALNREN

2009

PALNREN Lunched

PALNREN with EUROMED connect at 45 megabytes per second, its owned and funded by the Ministry of Education higher education and to which all Palestinian universities are connected free of charge

2014

Close PALNREN

unfortunately, due to the financial difficulties there were the network disconnected

2014-2019

Research Databases

Ministry of education and higher education invest 700K $ and continues to support higher education institutions through its membership with EBSCO and the service is available to all 15 universities

2017

ROMER Project

ROMOR aims to sustainably enhance the practice of research output management in the PS HEIs through enabling OAIRs as well as the advocacy in support of Open Access to research outputs

2020

PalLib Project

PALLIb aim to gather local repositories items metadata of local universitas and centers and to provide advanced research
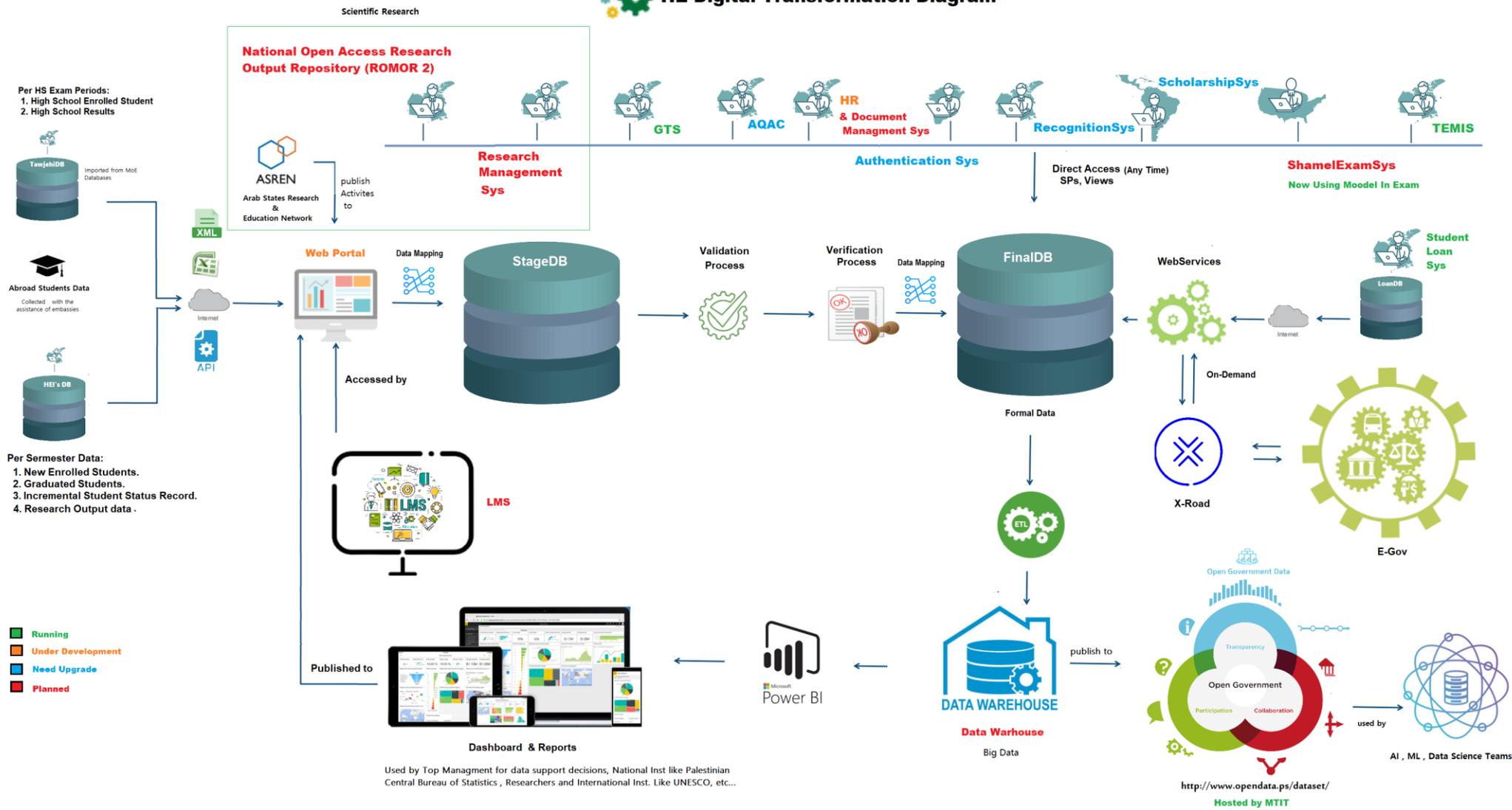
New update to activate the network

- Positive indicators of research activity quantitatively and qualitatively.
- Huge technological development.
- Joint academic and research programs between Palestinian and international universities.
- A financial deficit that requires save the costs of subscriptions to research databases.
- Availability of 13 research repositories in Palestinian universities.
- Local projects to increase the visibility of research activity.
- Local and global research collaborations with 160 countries.
- New restriction by the occupation to impose isolation on research and academic cooperation and student exchange.
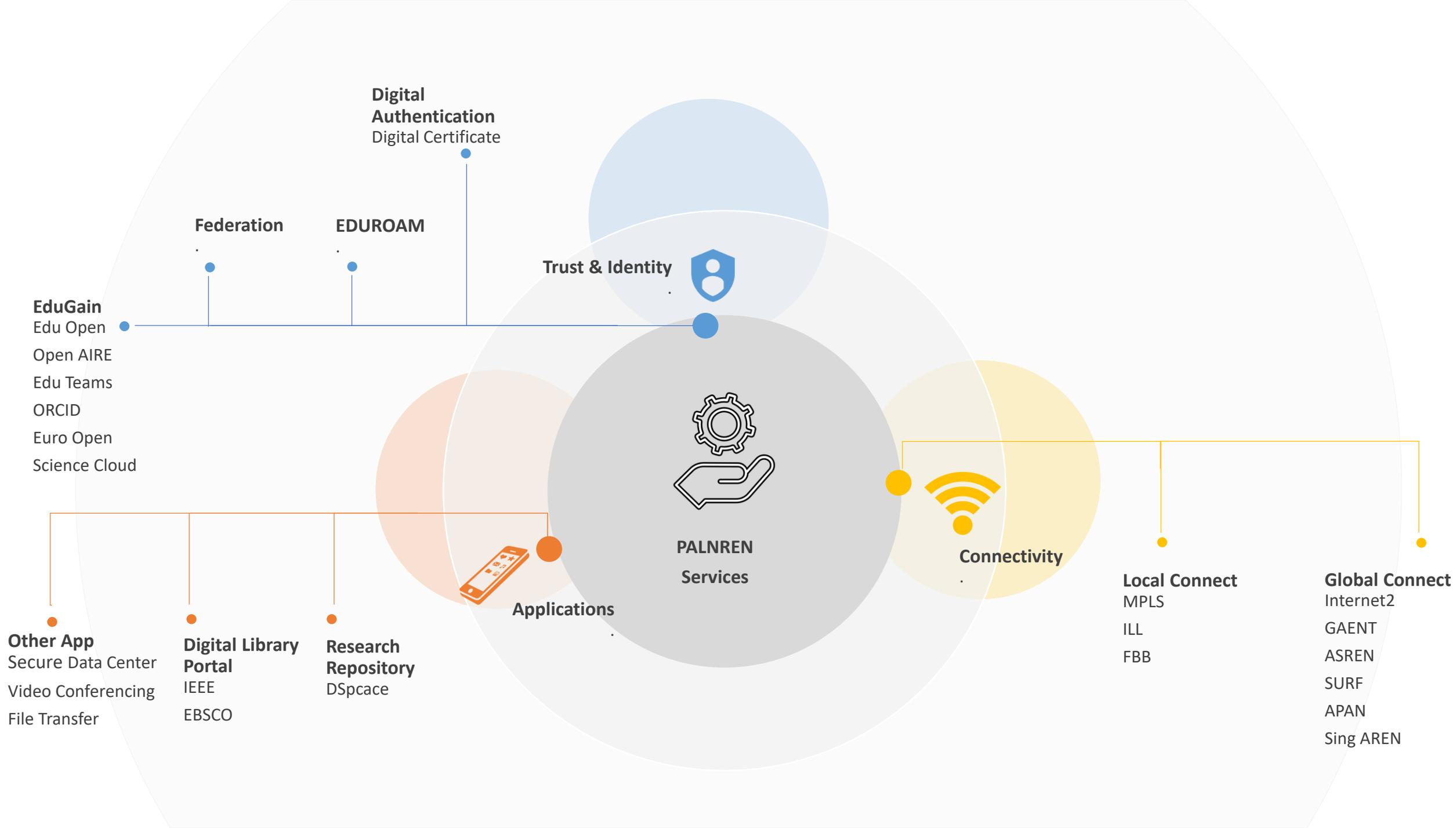- The wide spread of open educational and research resources and the expansion of open science activity.

Visualization map of collaboration

HE Digital Transformation Diagram

Scientific Research

National Open Access Research Output Repository (ROMOR 2)

ScholarshipSys

Per HS Exam Periods:
1. High School Enrolled Student
2. High School Results

ASREN

Arab States Research & Education Network

publish Activites to

Research Management Sys

GTS

AQAC

HR & Document Managment Sys

RecognitionSys

TEMIS

TawjehiDB

Imported from MoE Databases

Authentication Sys

ShamelExamSys
Now Using Moodel In Exam

Abroad Students Data

Collected with the assistance of embassies

XML

Direct Access (Any Time) SPs, Views

XLS

Web Portal

Data Mapping

StageDB

Validation Process

Verification Process

Data Mapping

FinalDB

WebServices

Student Loan Sys

API

Internet

Accessed by

LoanDB

Internet

HEI's DB

Per Sermester Data:
1. New Enrolled Students.
2. Graduated Students.
3. Incremental Student Status Record.
4. Research Output data .

LMS

Formal Data

On-Demand

X-Road

E-Gov

ETL

Running

Under Development

Need Upgrade

Planned

Published to

Power BI

DATA WAREHOUSE

Data Warhouse

Big Data

publish to

Open Government Data

Transparency

Open Government

Participation   Collaboration

used by

AI , ML , Data Science Teams

Dashboard & Reports

Used by Top Managment for data support decisions, National Inst like Palestinian Central Bureau of Statistics , Researchers and International Inst. Like UNESCO, etc...

http://www.opendata.ps/dataset/

Hosted by MTIT

Digital Authentication
Digital Certificate

Federation
.

EDUROAM
.

Trust & Identity
.

EduGain
Edu Open
Open AIRE
Edu Teams
ORCID
Euro Open
Science Cloud

PALNREN Services

Connectivity
.

Applications
.

Other App
Secure Data Center
Video Conferencing
File Transfer

Digital Library Portal
IEEE
EBSCO

Research Repository
DSpcace

Local Connect
MPLS
ILL
FBB

Global Connect
Internet2
GAENT
ASREN
SURF
APAN
Sing AREN

القدس
يافا
الخضيرة
ام خالد
قلقيلية
اللد
الرملة
المجدل
غزة
بئر السبع
فلسطين
الأردن
بيسان
جنين
طولكرم
طوباس
نابلس
سلفيت
رام الله
أريحا
بيت لحم
الخليل

AAUP
PTUK
NNU
NTU
ZUST
QOU
BZU
MOHE
AIU
PALNREN
AQU
BLU
DKU
PAU
HBU
PPU
IUG
AZU
AQU
GWU
IUC
PSU

التجوال التعليمي غير فعال
التجوال التعليمي فعال
المستودع البحثي غير متوفر
المستودع البحثي متوفر

مستودعات البحث العلمي في المؤسسات التعليمية

رابط المستودع البحثي	اسم المنصة	المؤسسة التعليمية	#
https://iugspace.iugaza.edu.ps		الجامعة الإسلامية	1
https://scholar.najah.edu		جامعة النجاح الوطنية	2
http://dstore.alazhar.edu.ps/	مشكاة	جامعة الازهر	3
https://fada.birzeit.edu/	فضا	جامعة بيرزيت	4
https://scholar.ppu.edu/		جامعة بوليتيكنك فلسطين	5
https://scholar.ptuk.edu.ps/		جامعة فلسطين التقنية (خضوري)	6
http://dspace.qou.edu/	أصول	جامعة القدس المفتوحة	7
https://scholar.alaqsa.edu.ps/		جامعة الأقصى	8
https://dspace.up.edu.ps/		جامعة فلسطين	9
https://dspace.pass.ps/	تميز	جامعة الإستقلال	10
https://dspace.alquds.edu		جامعة القدس	11
https://repository.aaup.edu/	وسم	الجامعة العربية الأمريكية	12
http://dspace.hebron.edu		جامعة الخليل	13

Pal Research
Metadata Harvester
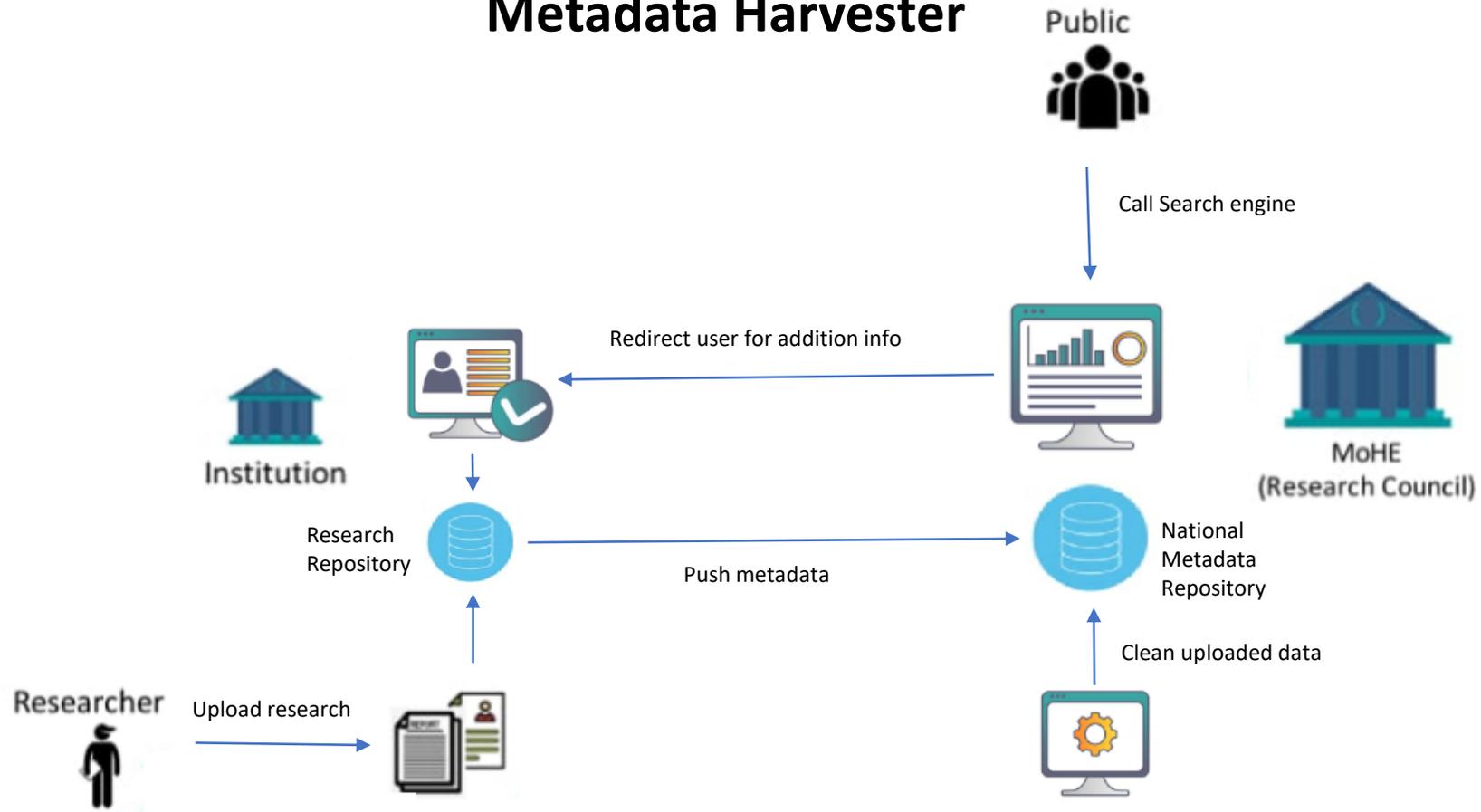
Public

Call Search engine

Redirect user for addition info

Institution

Research Repository

Push metadata

National Metadata Repository

MoHE (Research Council)

Clean uploaded data

Researcher

Upload research

البوابة الفلسطينية
للـبحث الـعلمي

ابحث بطريقة حديثة عن الابحاث

بحث متقدم   🔍 بحث   ابحث عن اسم الكتاب او البحث

PALNRENT Activation Action Plan

			1		Plan Durati
#	**Activity**				
		PERIODS			
			1	**2 3 4 5 6**	
1	Setup of a technical team from universities and ministry .				
2	Activate Eduroam in 20 University				
3	Activating and controlling work in 13 research repositories and linking them to the Harvester				
4	Establishing new research repositories in 7 Universites				
5	Build PALNREN Website				
6	Single Sign on for Unified subscription in Digital Library and Databases				
7					

Thank You

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بإتجاه بناء مجتمع المعرفة في فلسطين