



Introducing the Digital Object Container Identifier A Multilinear Object & Identifier Approach in Using PIDs to Build Equity



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Some Interesting Numbers

Represents **18 %** of the world population

Produces **<1%** of global research and innovation

8% of African patent data is accessible in global databases



vision

**“Championing the preservation
and promotion of Global
Indigenous knowledge and
Cultural Heritage by empowering
Scientists and Inventors to
transform their research and
innovations into impactful
realities.”**



Africa PID Alliance

Launching African Partners



**African Library &
Information Associations
& Institutions**



Pipeline Infrastructure Partners



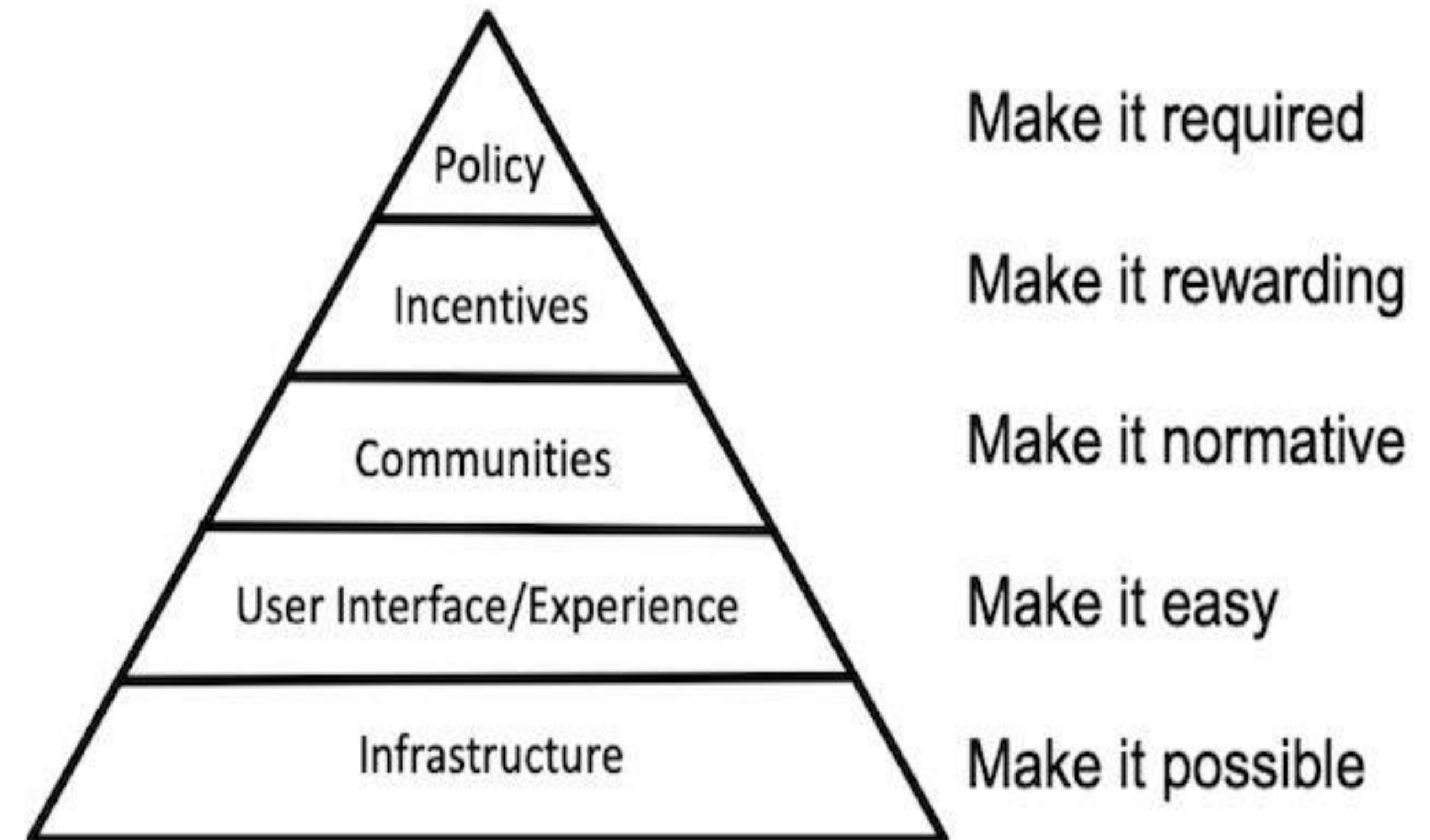
airiti DOI 華藝 DOI 註冊中心

DOI is the researcher's trekking guide to create a new research experience.

How?

Pyramid of Cultural Change

- Why the Digital Object Container Identifier (DOCiD TM) and a multilinear approach to assigning PIDs ?
- [The Africa PID Alliance](#) approaches it by pushing for reforms in improved research data management in indigenous knowledge, cultural heritage and patent data, thus creating a pyramid of cultural change .



How?



An African Open PID Infrastructure that leverages existing technology and:

- Ensures creation , storage, governance and management of African research content,
- Promotes African content and output
- Connects African research output to citation analytics service providers

Building a Community of Early and Mid Level Careers in Data Science & Artificial Intelligence in scholarly infrastructure

- Increase the number of African researchers in Information Science & Knowledge Management, Data Science, Data Management and Artificial Intelligence in Academic and Scholarly Infrastructure
- Increase machine Learning in Academic and Scholarly Infrastructure
- Build a pipeline of practitioners of **Data Scientists in scholarly infrastructure**

How?

Infrastructure development:

Objective: Supporting the development of research infrastructure in Africa

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Capacity strengthening and training:

Objective: Allocate resources to strengthen research capacity in Africa

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Seed funding for projects:

IOR will provide seed funding for innovative research projects and startups led by African researchers and entrepreneurs.



How?



Solving an African Challenge

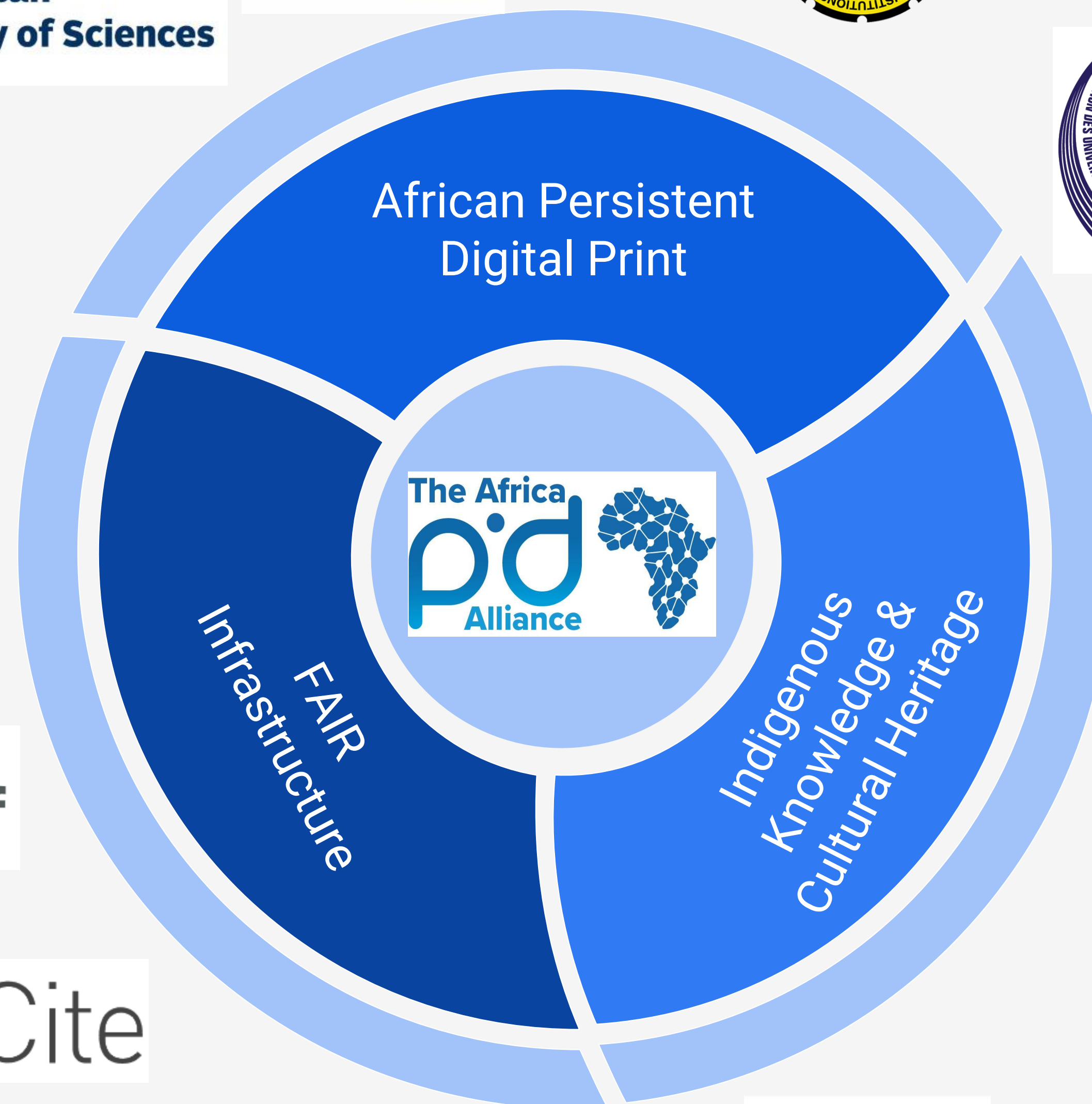
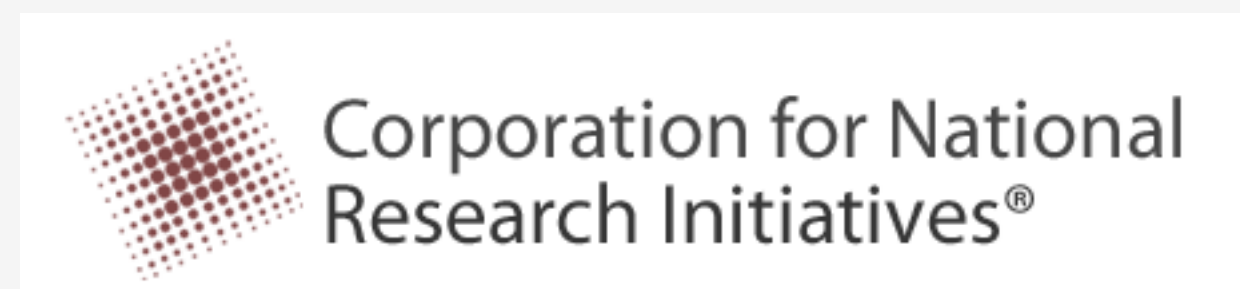
By:

Preserving African **indigenous knowledge, innovation and cultural heritage** under a dedicated **persistent infrastructure**



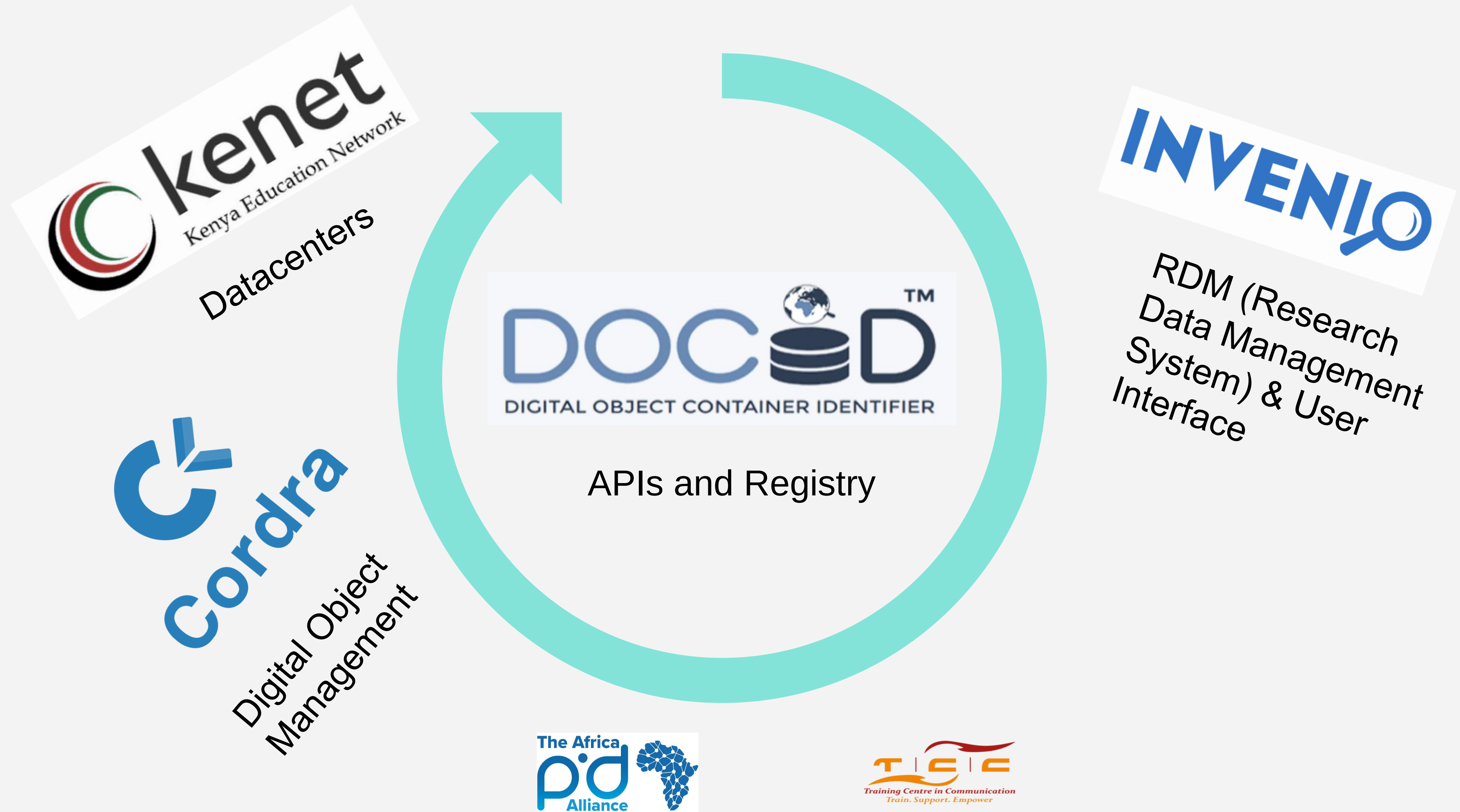


African Library & Information Associations & Institutions

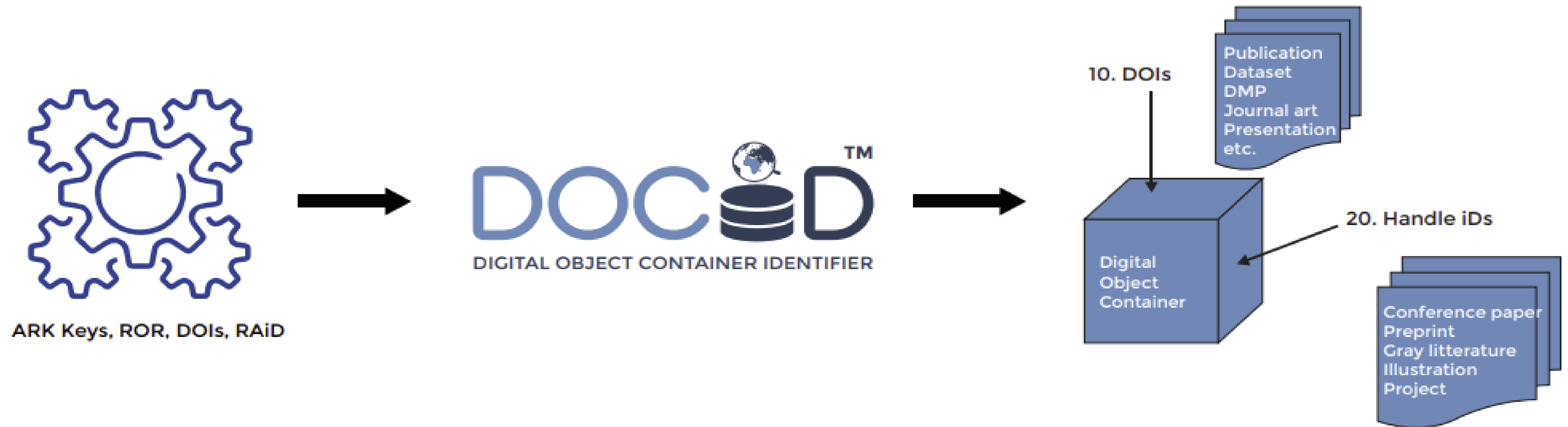


Since 2023

Where we are now with Product Development



Infrastructure and Resolution Workflow



UX of DOCiD™ in African Union Languages



 Nyumbani

 DOCiDs

 Kuhusu



Karibu kwenye DOCiD™

Kuunganisha teknolojia na mila barani Afrika, tunaangazia maarifa asilia na vyombo vya hakimiliki vya dijiti ili kuhifadhi urithi wa kitamaduni na kukuza uvumbuzi.

ANZA



 Nyuma

Kiswahili

English

Français

العربية

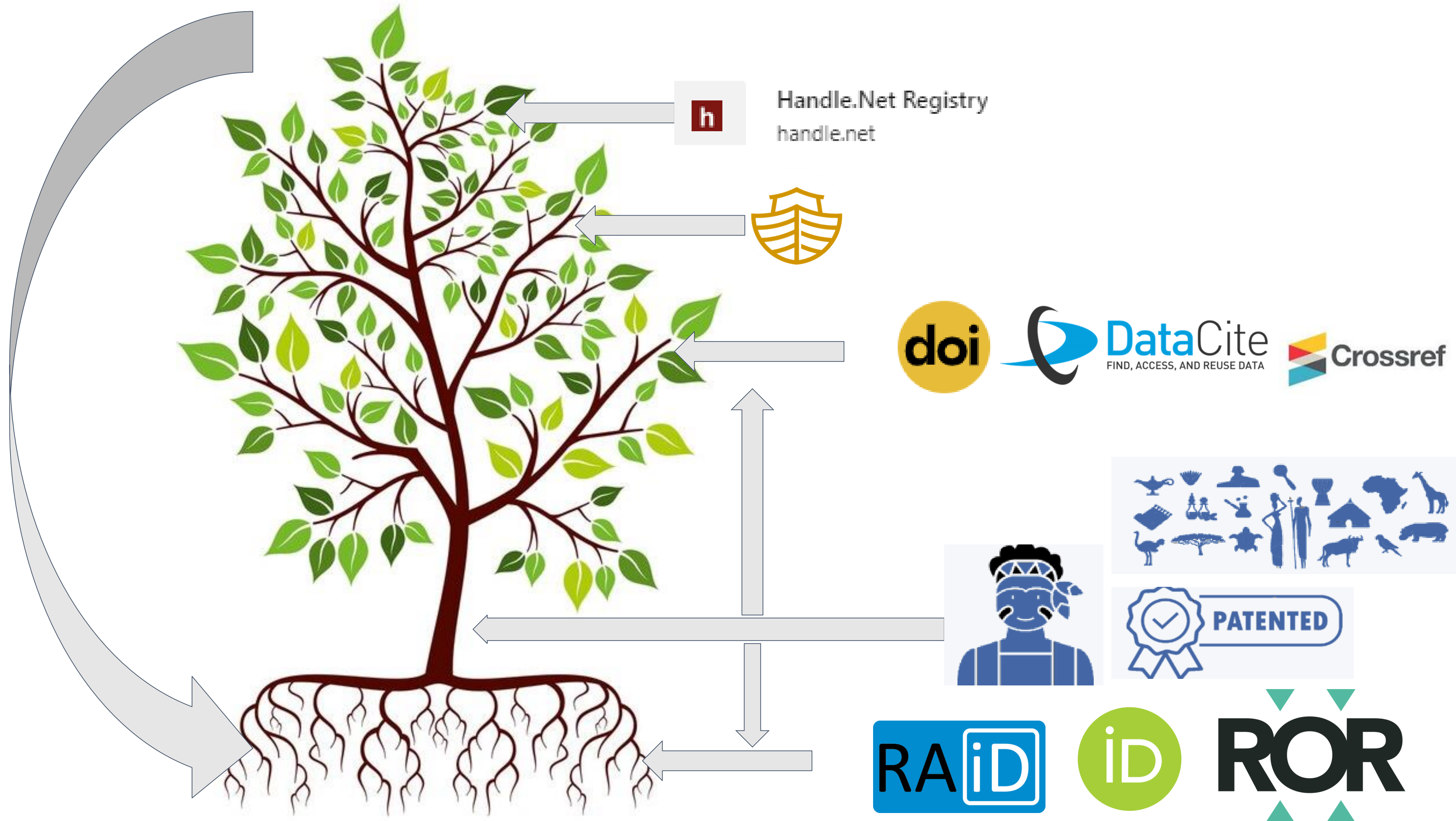
Português

German

What do you expect in DOCiD™?



A multilinear PID
supporting the
lifecycle of a
digital object



UX of DOCiD™ interface with options for more related PIDs



DOCiD™



Publications



Documents



Creators & Organization



Funders



Projects



Observations

- Poor (lack of) data management systems in universities
- Lack of digitization of outputs in Indigenous Knowledge (STEM), Arts and Humanities and Social Sciences



Observations

- Need improved connection of dots in the outputs of the research lifecycle
- DOCiD™ is able to support the following departments in a university; Social Sciences, Institutes of Cultural Heritage (*Institute of African/Asian Studies*), Arts and Humanities ,Deputy Vice Chancellor's Research Office, Grants Office , Herbariums, Technical Transfer Office (or related partner Museum)and Library



Milestones (3 Phases)

PHASE 1

Community & infrastructure building

- Project set up
- Strategic partnerships and market lead generation
- Setup prototype and infrastructure

PHASE 2

Scaling & Break even

- Extensions of project services
- Service Maintenance of registry and Operations
- Strategic partnerships and market retention

PHASE 3

African Digital Object Print/Reference

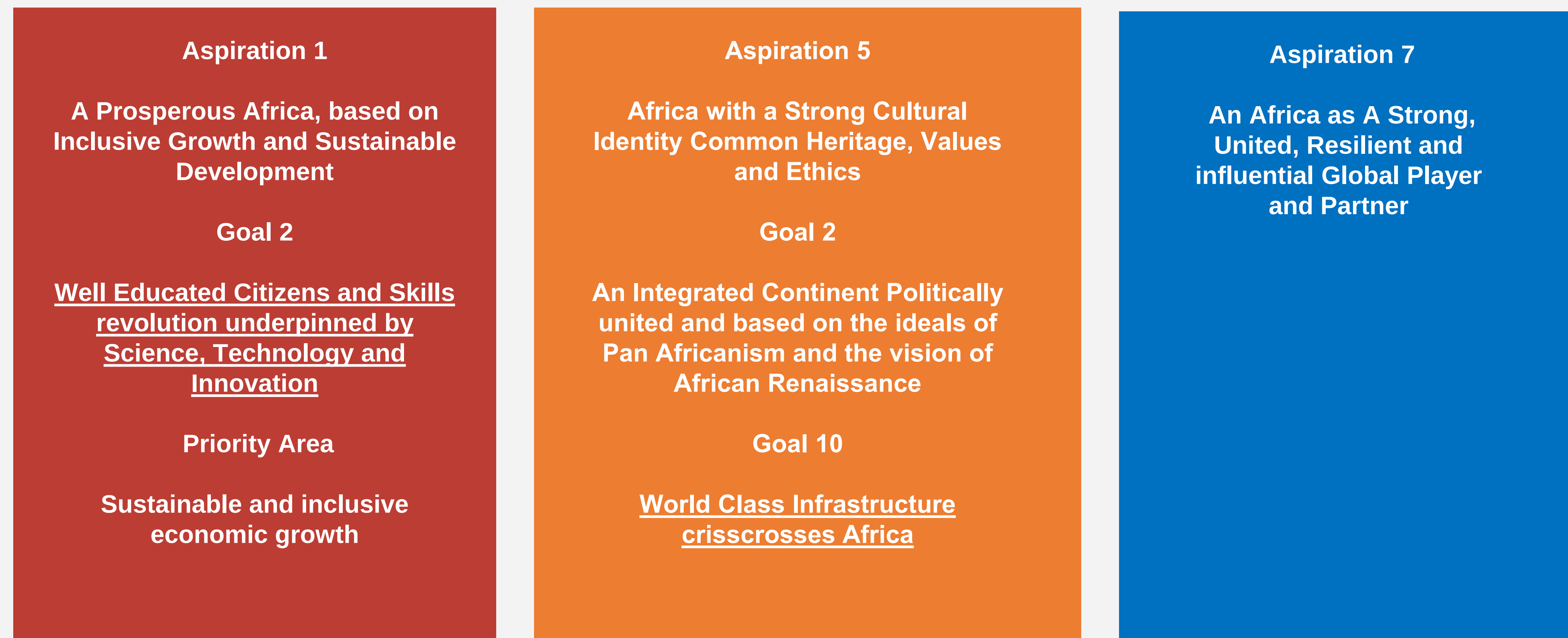
- Registration Agency
- Registration service provider of African content via PIDs
- Resolution of DOIs

Product Development



Use Cases

- > Universities
- > Indigenous Knowledge & Cultural heritage Curators
- > National Patent Registration agencies



Continental Impact- Agenda 2063



USING PIDS TO
ENSURE INDIGENOUS
KNOWLEDGE AND
CULTURAL HERITAGE
PRESERVATION

Hosted By



19TH March 2024
09:00 AM UTC/12:00PM EAT
(18:00 JST / 20:00 AEDT)

STREAMING ON LIVE



Partnerships
& Updates

BARCELONA
DECLARATION ON
OPEN RESEARCH
INFORMATION

Because open science
requires open research
information



THE AREAS OF THE COLLABORATION

ation of Persistent Identifiers: Explore potential
ation of services between DataCite, Crossref and
rica PID Alliance.

ness Building: Building awareness of respective
es among researchers and administrators.

le solutions to the inclusion of patent data and
ous knowledge in the global scholarly record,
ing clear provenance for all works.



Encouraging PID Open Infrastructure Usage
the use of persistent identifier services for re
organizations to support public access to res
and resources.

Linking Research Outputs, Researchers, Orga
Funding: Supporting simple links between res
and resources, researchers, organisations and



Founding Partners

Global Partners



African Partners





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