

Sustainable innovation in the knowledge sector in the 21st century

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This matter is urgent!

We are at a **critical point** in the future development of libraries

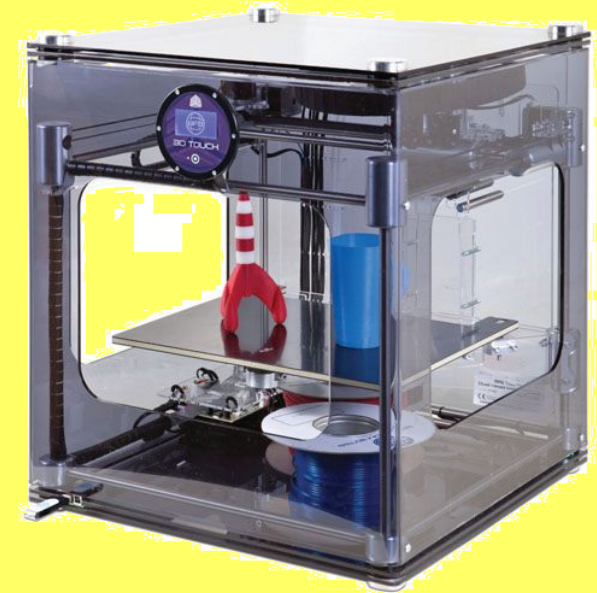
– If we do not act, the **commercial sector** will largely dictate our e-mission.

Knowledge Sector Examples:

- 3D printing
 - * prosthetics for animals
 - * arm splint
 - > learn modeling language
(learn to fish)

Threats:

- Not meeting their needs ...
- Expanding the sector ...



Knowledge Workers are ...
gutsy and confident, and driven.

They are used to ...

- Ubiquitous access (wireless)
- Mobile
- Networking (people & resources)
(have learned to fish)

Construct 1: Infrastructure Layers

- * electricity
- * cyber (digital)
- * information

Threats:

- Not meeting their needs ...
- Expanding the sector ...

Construct 2: The 3 Stages of the Digital Era

Stage 1 (1990-) Digital (Disks and CDs)
- Expand the media collection

Stage 2 (1995-) Internet (Servers)
- Digital Libraries

Stage 3 (2010-) Mobile (Tablets)
- Access anywhere, mobile (layered)

Examples from the USA.

- * electricity
- * cyber/digital
- * information

- * 1--CDs
- * 2--Networks
- * 3--Mobile

USA Example: Digital Library

1st Paperless Libraries

New Mindsets

New Rules (copyright, lending, access ...)

USA Example: Digital Library

1st Paperless Libraries (think new)

USA Example: Digital Library

1st Paperless Libraries

A Fight for Control:

Delayed Sales

No Sales to Public Libraries

Limited Loans

Limited Simultaneous Users

In Library Downloads

Huge Pricing Differentials for ebooks

Incompatible Platforms (52 and counting)

USA Example: Digital Library

1st Paperless Libraries (think new)

A Fight for Control:

Delayed Sales

No Sales to Public Libraries

Limited Loans

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In Library Downloads

Huge Pricing Differentials for ebooks

Incompatible Platforms

Colorado

-Douglas County PL Sys

California

- CALIFA

**ALA: Digital Content Working
Group**

**Library's Mission: Free & Open
Publisher: Num of Patrons**

USA Example: Digital Library

- * electricity
- * cyber/digital
- * **information**

- * 1--CDs
- * 2--Networks
- * **3--Mobile**

Tablets

WiFi & Cell Access

Amazon vs Unified Virtual Patrons
Digital Content: Open Journals,
Open Courseware, Library as Publisher,
Crowdsourced Translations

AFRICA: Digital Library

Time for Strategic Thinking



AFRICA: Digital Library

Solar & Lithium-Ion

- * **electricity**
- * cyber/digital
- * information

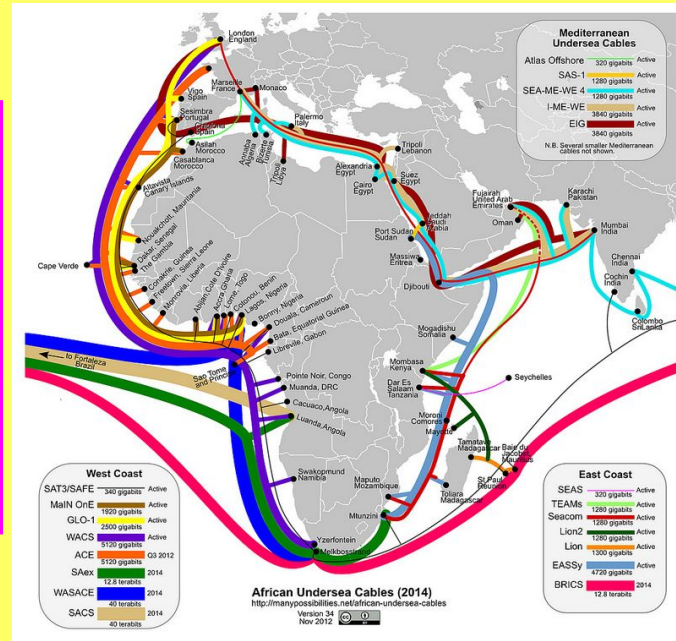
- * 1--CDs
- * 2--Networks
- * **3--Mobile**

Tablets

WiFi & Cell Access

AFRICA: Digital Library

- * electricity
- * cyber/digital
- * information



- * 1--CDs
- * 2--Networks
- * 3--Mobile

Fiber to the Library
 WiFi at the Library



AFRICA: Digital Library



- * electricity
- * cyber/digital
- * information

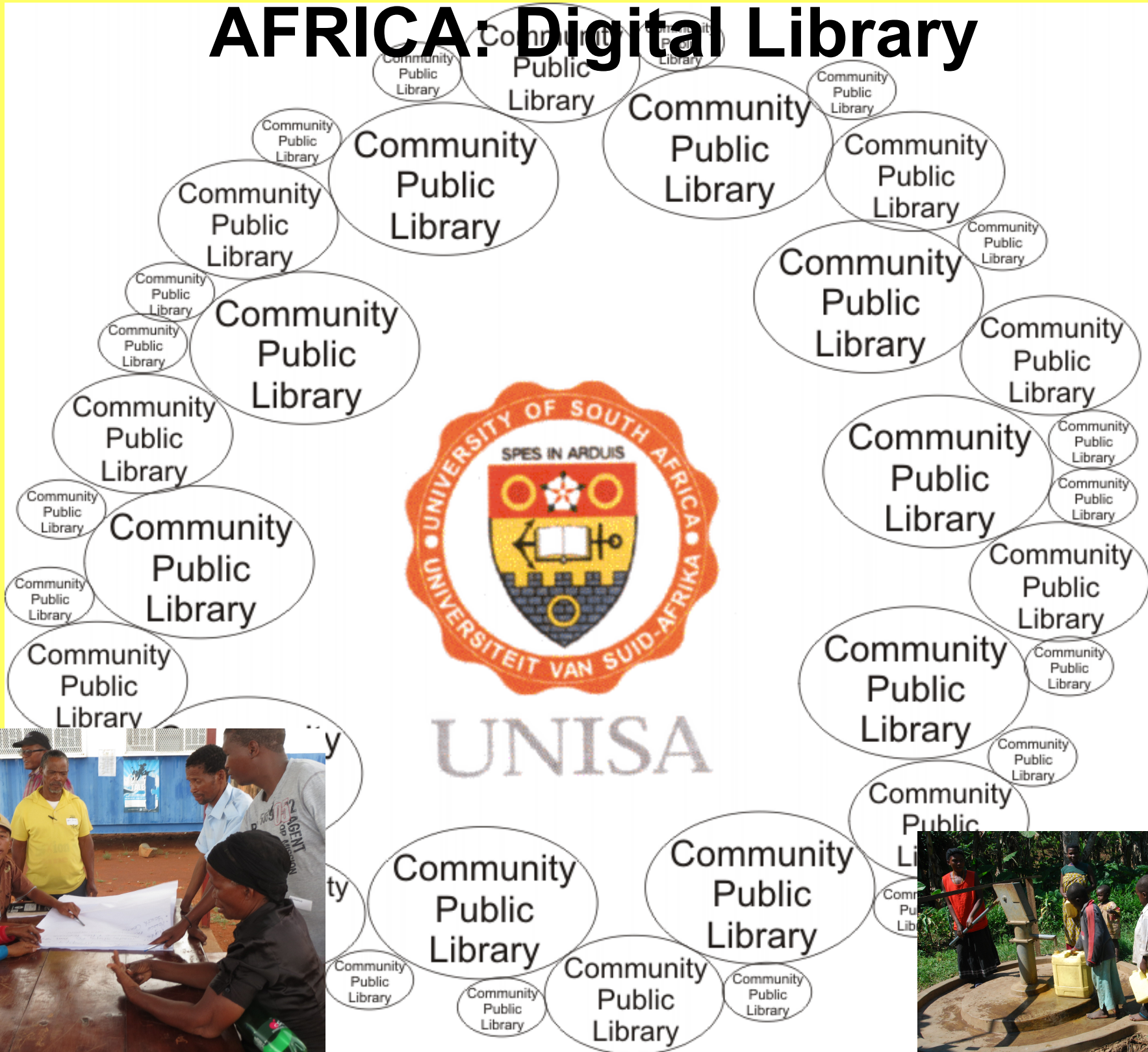


- * 1--CDs
- * 2--Networks
- * 3--Mobile

eGranary at the Library
WiFi at the Library



AFRICA: Digital Library



CONCLUSION

- open standards for ebooks
- team with international efforts
for open textbooks, free ebooks
- Authors direct distribution through
library systems -- low-cost eBooks
(not mothballed like with publishers)
- crowd-source translations
- variety of copyright options