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
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- 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

Tablets
WiFi & Cell Access

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

* 1--CDs
* 2--Networks
* 3--Mobile
AFRICA: Digital Library

Time for Strategic Thinking
AFRICA: Digital Library

Solar & Lithium-Ion

- electricity
- cyber/digital
- information

Tablets
WiFi & Cell Access

* 1--CDs
* 2--Networks
* 3--Mobile
AFRICA: Digital Library

- electricity
- cyber/digital
- information

Fiber to the Library
WiFi at the Library

* 1--CDs
* 2--Networks
* 3--Mobile
AFRICA: Digital Library

- electricity
- cyber/digital
- information

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

eGranary at the Library
WiFi at the 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