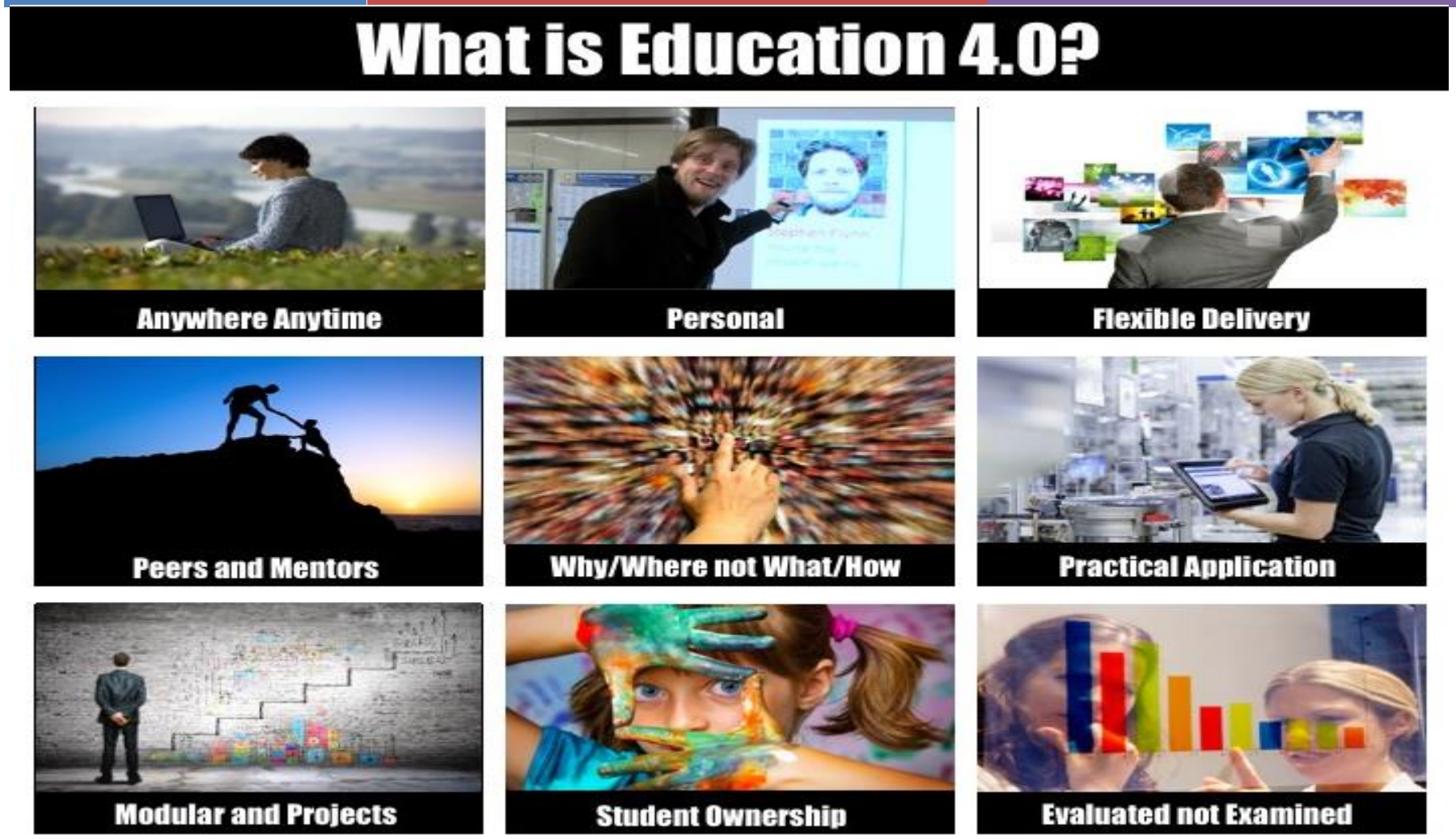
UBD Library: Supporting Education 4.0

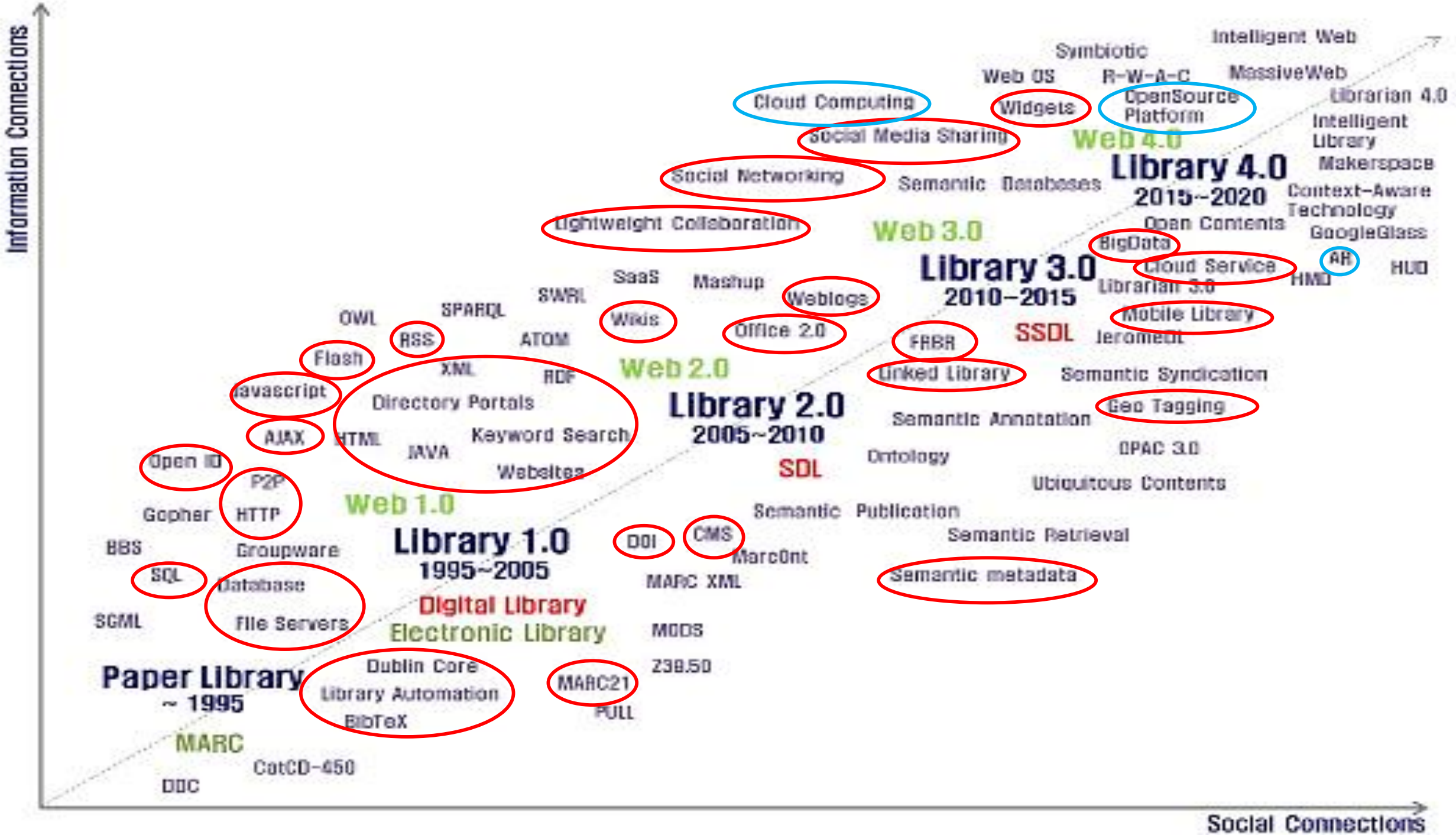
Education 4.0



- Industrial Revolution 4.0
- Library 4.0

Where are we?

Information Connections
Social Connections
Paper Library
~ 1995
Library 1.0
1995~2005
Library 2.0
2005~2010
Library 3.0
2010~2015
Library 4.0
2015~2020
Web 1.0
Web 2.0
Web 3.0
Web 4.0
Digital Library
Electronic Library
SDL
SSDL
MARC
DDC
CatCD-450
Dublin Core
Library Automation
BibTeX
MARC21
PULL
MODS
Z39.50
MARC XML
DOI
CMS
MarcOnt
Semantic Publication
Semantic Retrieval
Semantic metadata
Ontology
Ubiquitous Contents
OPAC 3.0
Semantic Annotation
Geo Tagging
Linked Library
Semantic Syndication
FRBR
JeromeDL
Mobile Library
Librarian 3.0
Cloud Service
BigData
Open Contents
Semantic Databases
Social Networking
Lightweight Collaboration
Cloud Computing
Social Media Sharing
Widgets
Web OS
Symbiotic
R-W-A-C
OpenSource Platform
MassiveWeb
Intelligent Web
Librarian 4.0
Intelligent Library
Makerspace
Context-Aware Technology
GoogleGlass
AR
HUD
HMD
Office 2.0
Weblogs
Mashup
SaaS
SWRL
OWL
SPARQL
RSS
ATOM
XML
RDF
Flash
Javascript
Directory Portals
Keyword Search
Webaltas
AJAX
HTML
JAVA
Open ID
P2P
Gopher
HTTP
BBS
Groupware
SQL
Database
SGML
File Servers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GoogleGlass
AR
HMD
HUD

INITIATIVES, OPPORTUNITIES & PLANS

Cashless Economy

- June 2019, QR Payment
- The only library in the country to have

Chat Bot

- Chat widgets with automated reply
- Responding to FAQ in Malay & English

Building Technology & IT related resources

- Faculty of Integrated Technology
- Assisting in gaining Accreditation Board for Engineering and Technology **(ABET)** Accreditation

Library into Life Long Learning

- Advancing into Library related area ends with HND level
- We provide this course for
  - Career Development
  - Public Interest
  - Student Advancement
  - Training

AR/VR Technology

- An emerging project trend amongst student & industries alike
- We saw potential e.g directional assist

Challenges

- **Insufficient Funding**
  - *Budget is limited*
- **Insufficient Patron Research**
  - *Theory vs Reality*
- **Lack of Skilled Professional**
  - *Industrial Revolution vs Librarian Competency*
- **Lack of IT/Tech/Hardware Expertise**
  - *Reliant on external parties, user guides and internet*

Future planning & Conclusion

- More **exposure** of young library officers and staff such as attending AUNILO, IFLA, Library workshop, etc.
- Send young library officers and staff for **training** and **course** that relates with IT, Technology related fields
- Patron & Library: Research to Action
- OpenSource Platform
- Augmented Reality / Virtual Reality

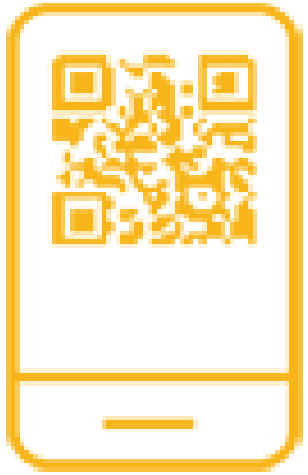
FUTURE PLANS & OPPORTUNITIES

- Incorporating **Internet Of Things (IOT)** environment
  - Access to library can be control via internet apps
  - Pre-setting library opening and closing announcement
  - Counting number of visitors
  - No more using library cards – (Using NFC)

References

- Noh, Y. (2015). Imagining Library 4.0: Creating a Model for Future Libraries. *The Journal Of Academic Librarianship*, *41*(6), 786-797. doi: 10.1016/j.acalib.2015.08.020

- Education 4.0 ... the future of learning will be dramatically different, in school and throughout life. - Peter Fisk. (2019). Retrieved 4 August 2019, from https://www.thegeniusworks.com/2017/01/future-education-young-everyone-taught-together/



END OF REPORT

Thank You