Maximizing ICT Provisions for Efficient Performance

Presentation at the 2012/2013 Induction Programme for Academic and Non-Academic Staff

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Agenda



- Preamble
 - Vision and Mission of Covenant
 - 1st Decade in Retrospect
 - Mandate for 2nd Decade: 1-of-10-in-10
- Definitions
- Maximizing ICT Provisions:
 - 1. As a subject
 - 2. As a support tool
 - 3. As an administrative tool
- Conclusion

Vision & Mission of CU



Vision:

To be a leading **World-Class** Christian Mission **University**, committed to raising a new generation of leaders in all fields of Human endeavour.

Mission:

To create knowledge and restore the dignity of the black man via a Human Development Total Man Concept driven curriculum employing innovative, leading-edge teaching and learning methods, research and professional services that promote integrated, life-applicable, life-transforming education, relevant to the context of Science, Technology and Human Capacity Building.

1st Decade in Retrospect:



- 1. Full accreditation in ALL academic programmes
- 2. Over 69 Awards of Excellence
- Numerous Linkages: Academic & Industrial
- 4. Disciplined, God-fearing, well-trained students
- 5. Established Employer Reputation
- 6. Graduates of CU excel in PG Studies Globally
- 7. High quality Faculty & Staff



Mandate for 2nd Decade



Become one of the top ten Universities in the world in the next ten years. (1-of-10-in-10)

- Most WCU have been around for centuries
- Studies suggest the younger the better, if :
 - Academic talent
 - Financial Resources
 - Responsible governance:
 - Autonomy
 - Academic freedom



Relatively new universities have the capacity for growing into top quality research institutions 'within the first 2 to 3 decades' of their existence.

P.G. altbach, J. Salmi, "The Road to Academic Excellence: The making of world-class research universities" World Bank Report, eISBN: 978-0-8213-8806-8, Available at: http://qr.net/wcul.

Ranking Parameters



- International Faculty (IF)
- International Students (IS)
- Citations Per Faculty (CPF)
- Faculty/Student Ratio (FSR)
- Academic Reputation (AR)
- Employer Reputation (ER)
- Peer Review (PR)

ICT: What is ...

Information and Communication Technologies

- "Technologies that provide access to information through telecommunications. ... This includes the internet, wireless networks, cell phones, and other communication mediums." [a]
- Technologies required for the effective communication of information.

[a] http://www.techterms.com/definition/ict.

Information:



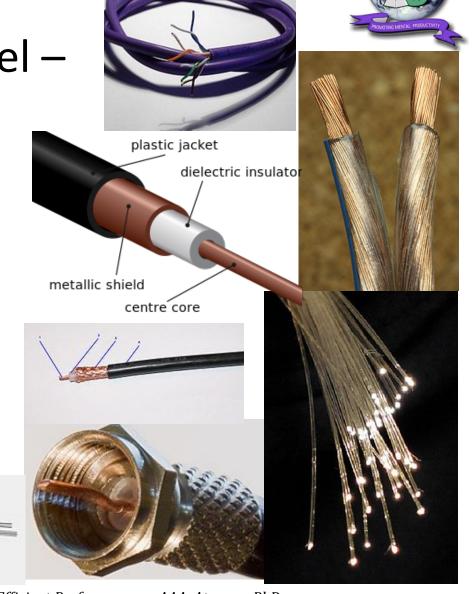
- ▶ Information Content:
 - Text: .txt, .pdf, .docx, ...
 - Audio: .wav, .mp3, .aac, ...
 - Video: .wmv, .mpg, .mp4, ...
 - Hybrid: e.g. Scrolling text on video broadcast

Communication:

Communication channel – *Conduit*:

Wired modes:

- Copper wire
- Twisted-pair cable,
- Coaxial cables,
- Optical Fibre



Communication Technologies:



Wireless modes:

- Radio Frequency communication
- Microwave communication
- Infrared communication

Infrared	750 nm – 1 mm	400 THz – 300 GHz		
Microwave	1 mm – 1 meter	300 GHz – 300 MHz		
Radio	1 mm – 100,000 km	300 GHz – 3 Hz		

Hybrid mode:

- Combination of both wired and wireless modes.
- e.g. using VSAT as last mile solution for optical fibre communication of signals received from a microwave link.

Technologies

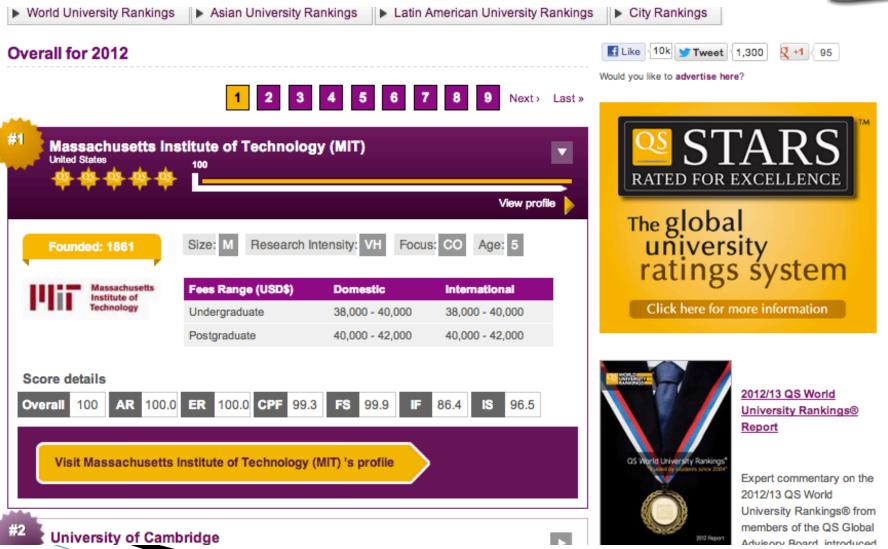
Means and Method of communicating desired content (information) over a suitable conduit (communication channel).



In the CU context maximization of ICT provisions *viz-a-viz* her *vision* and *Mandate 1-of-10-in-10* can occur in the following areas:

- As a subject in itself
- As a support tool for other subjects
- As an administrative tool







1. As a subject:

- For ICT-related courses in Covenant:
 - Curriculum review in line with WCU best practices e.g. MIT.
 - Adopt the OCW concept to increase visibility of courses
 - Develop Audio/Video version of Courses
 - Emphasize upload of supplementary resources
 - Emulate other instructional paradigms common to the top 10 WCUs



2. As a support tool for subjects:

- Computer-based Learning:
 - E-Learning:
 - Computer-based training (PC-based)
 - Internet | Web-based training (IBT | WBT)
 - Online distance learning
 - Classroom 2.0 Multi-user virtual learning
 - E-Learning 2.0 social learning using social software
 - E-Learning Tools:
 - •Blackboard Inc.™, Moodle™, |CU-proprietary sw

E-Learning Services: Blackboard Inc. (tm):

- >20 million users daily
- Has blended or fully online options
- Available on Six platforms:
 - Blackboard Learn,
 - Blackboard Collaborate,
 - Blackboard Mobile,
 - Blackboard Connect,
 - Blackboard Transact,
 - Blackboard Analytics.



E-Learning Services: Moodle^(tm):

- Free and Open Source Course Management System.
- Provides blended learning opportunities
- Platforms for distance learning courses
- Plenty of support materials
- Available at: http://moodle.org

PROMOTING MENTAL PRODUCTIONTY

E-Learning Services:

CU Courseware(tm):

- Developed by CU Faculty|Students
- Totally FOSS-Based
- ▶ To be Licensed under (cc):
 - Attribution
 - Non-commercial
 - Share Alike





3a. As Administrative Tool:

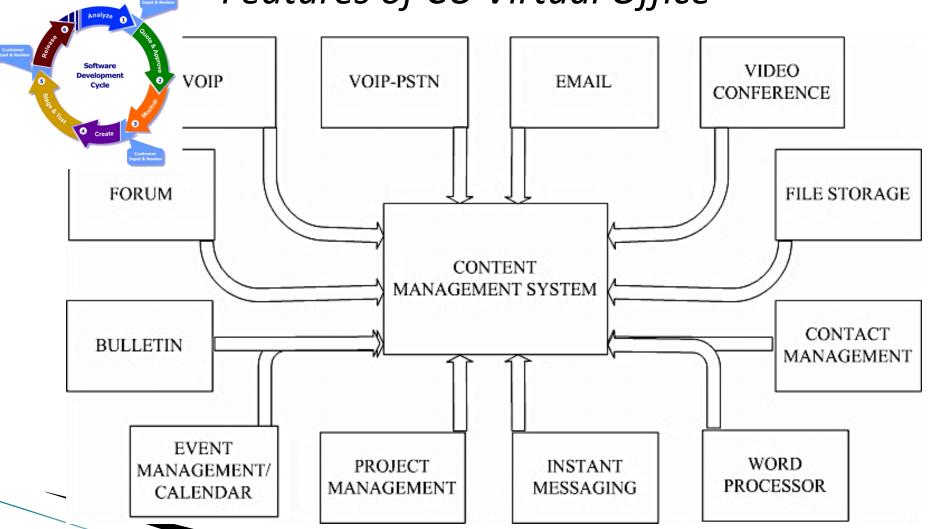
Office Automation: e-Memo etc.

CU FOSS Virtual Office:

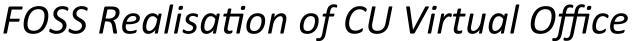
- Environment for organisations to perform similar features they would perform in an ideal office
- Platform for corporate bodies to collaborate with mobile workers
- Free software geared towards collaboration within organisations
- Can be tweaked to fit specific corporate needs
- Developed in CU by CU students.

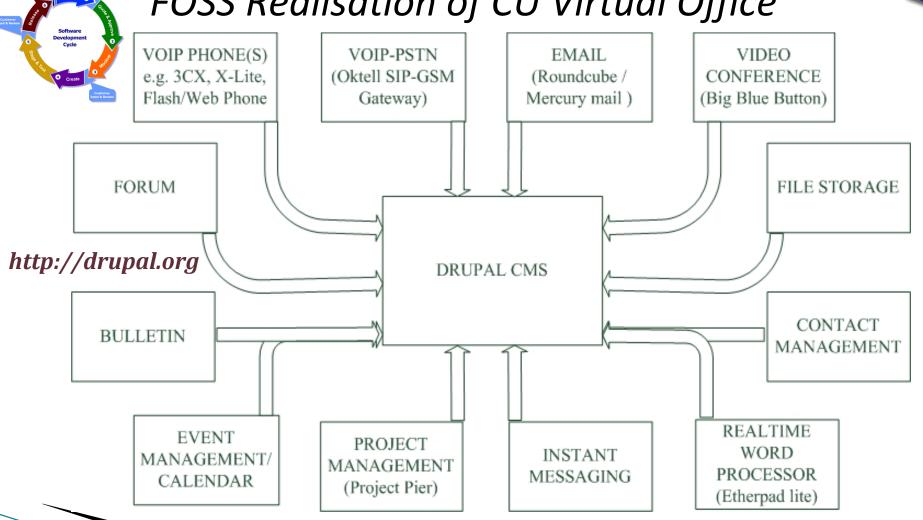


Features of CU Virtual Office









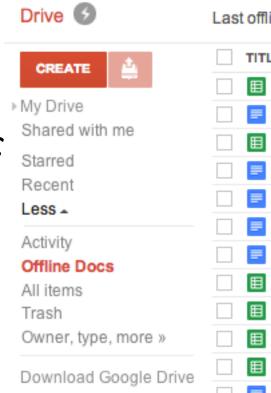


3b. Cloud Computing:

Google™, Dropbox™, Box™008le

- Google Drive:
 - Currently used in the VC's Office
 - Google Doc: Text, Spreadsheet, etc
- ▶ Box | Dropbox:
 - For collaborative work
 - Document Storage
 - File Synchronization





TITL

Appendix:

SYSTEMS PROVISIONS

S/N	ITEMS	DESCRIPTION	LOCATIONS	QTY	STATUS
1	Desktop Systems	Computer Lab. Systems	Chemical Engrg Lab	25	Ok
2	Desktop Systems	o	ARCHITECTURE LAB	50	Ok
3	Desktop Systems	u	EIE	75	Ok
4	Desktop Systems	u	CDS	150	Ok
5	Desktop Systems	u	MECANICAL LAB	30	Ok
6	Desktop Systems	u	CST COMUTER LAB	250	Ok
7	Desktop Systems	u	CIVIL LAB	30	Ok
8	Desktop Systems	и	BUILDING LAB	20	Ok
9	Desktop Systems	u	ICT	76	Ok
10	Laptops/Desktops	Computer Lab. Systems/Office use	LIBRARY	80	Ok
11	Laptops	Training/Office use	CIS SOFTWARE ENGINEERING	39	Ok
12	Desktop Systems	Office Use	CHAPLE ESTIMATE	20	Ok
13	Desktop Systems	Office Use	EDS ESTIMATE	5	Ok



16th Nov. 2012

Appendix:

Summary of Systems Provision in CU:

14	Desktop Systems	Computer Lab. Systems	MATHEMATICS LAB	20	Ok
15	Desktop Systems	Computer Lab. Systems	PHYSICS LAB	100	Ok
16	Desktop Systems	Office Use	CST ESTIMATE	50	Ok
	TOTAL			1017	

Conclusion:



Following the steps presented will help in Maximizing ICT provisions for efficient performance of Faculty, Staff, Students and Management of Covenant University.



Thank You!