



INTELLIGENT CAMPUS

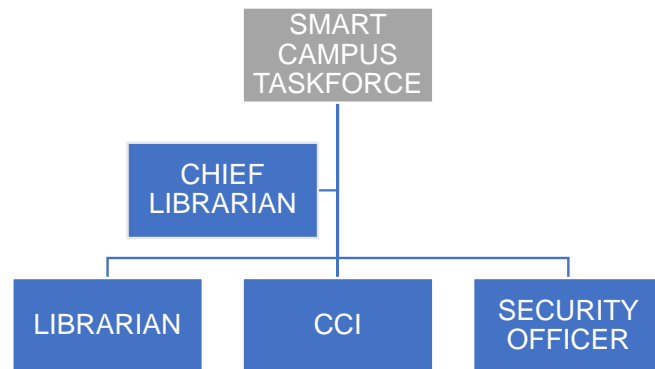
Agendas

- Restructuring Intelligent Campus Initiatives governance
- Intelligent Campus Framework
- Intelligent Campus Project Implementation
- On Going Project
- Next 3 Years Project

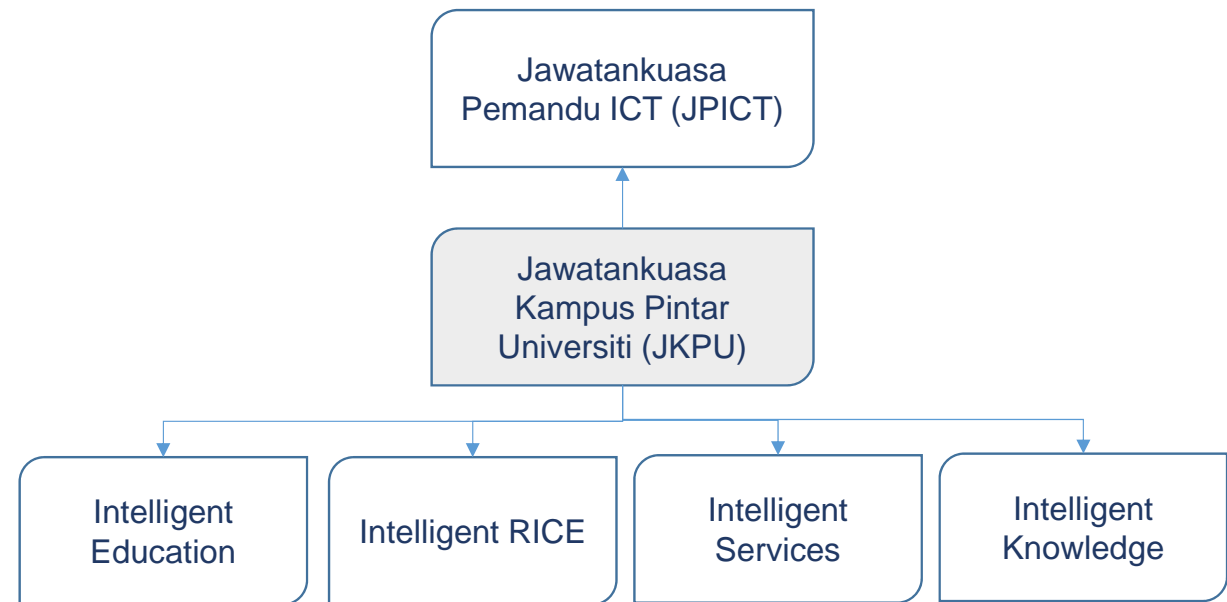
Restructuring Governance of Intelligent Campus Initiatives

UMK INTELLIGENT CAMPUS GOVERNANCE

Previous



New Structure



MEMBERS AND TERM OF REFERENCES UMK INTELLIGENT CAMPUS COMMITTEE

Chairmain : Chief Information Officer / Deputy Vice Chancellor (R & I)

Prof. Ts. Dr. Arham Abdullah

Deputy Chairman 1 (Infostructure): Chief Librarian

Tn. Hj. Azman bin Hashim

Deputy Chairman 2 (Infratructure): Director of Centre of Computer and Informatics Ts. Wan Azlee Wan Abdullah

Secretary: Librarian

Ts. Amirul Firdaus Bin Zilah

Members :

- | | |
|--|--|
| 1. Puan Mazula Binti Sabudin | – Registrar |
| 2. Puan Junaidah Binti Badar | – Bursar |
| 3. Prof. Ir. Ts. Dr. Ahmad Ziad Bin Sulaiman | – Senior Director, RMIC |
| 4. Prof. Dr. Mohd Saberi Bin Tan Ah Chik @ Mohamad | – Director, AIBIG |
| 5. Prof. Dr. Suria Binti Baba | – Director, PKPA |
| 6. Encik Mansor Bin Che Din @ Noordin | – Chief Information Technology Officer |

Term of Reference

- I. Determine the **direction and strategy** for implementing smart campus initiatives.
- II. **Monitoring** the status of **implementation** of smart campus projects / initiatives.
- III. **Review and recommend** project implementation related to smart campus initiatives for JPICT approval
- IV. Review and recommend specific **budget** estimates related to smart campus initiatives for JPICT Approval
- V. Plan and consider **strategic partnerships** with potential Technology Partners for Smart Campus implementation.
- VI. Discusses **policy issues, operations** and **special** needs of smart campus initiatives.

UNIVERSITI MALAYSIA KELANTAN INTELLIGENT CAMPUS FRAMEWORK

INTELLIGENT CAMPUS CLUSTERS



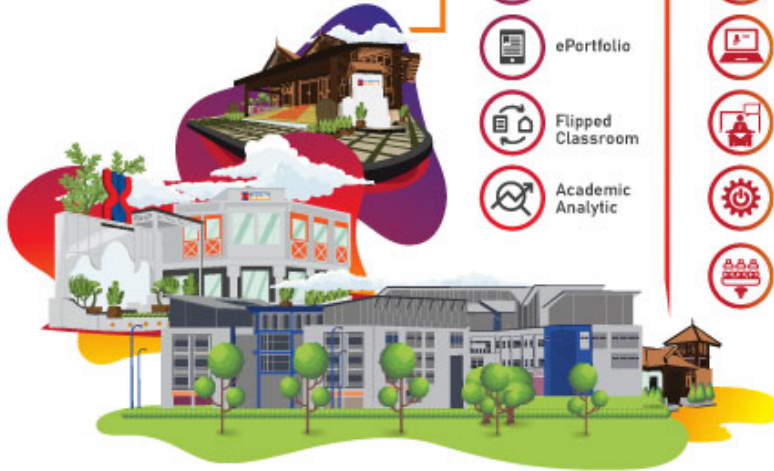
INTELLIGENT CAMPUS INITIATIVES

- eLearning
- QR Code Attendance
- ePortfolio
- Flipped Classroom
- Academic Analytic

- Unik19.com
- Triangular Incubators
- eRMS
- uNeXus
- makers@UMK
- Intelligent Farming

- Sinimo Portal
- Video Conferencing
- QR Code Geolocation
- Smart Tracking System
- Cashless Payment
- Healthcare System
- eCampus Mobile Apps
- Intelligent Security
- Single Sign On
- V-Integrated Screening System

- NextGen Repository
- MyAthens
- Business Intelligence
- Intelligent Dashboard
- Digital Reading Hotspot
- Digital Book
- Smart InfoCommon

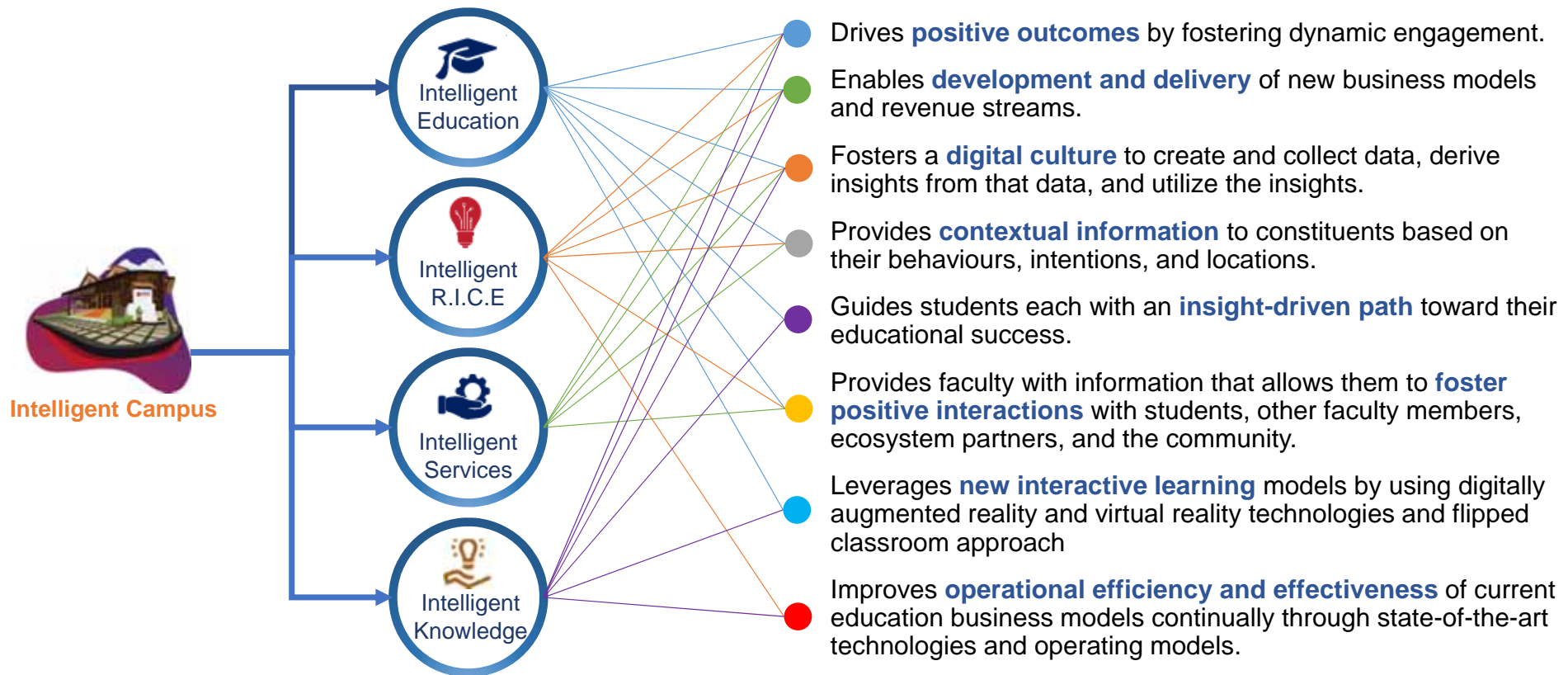


DIGITAL INFRASTRUCTURE



Note:
Green wording referring to Initiatives was implemented since September 2018 till June 2020

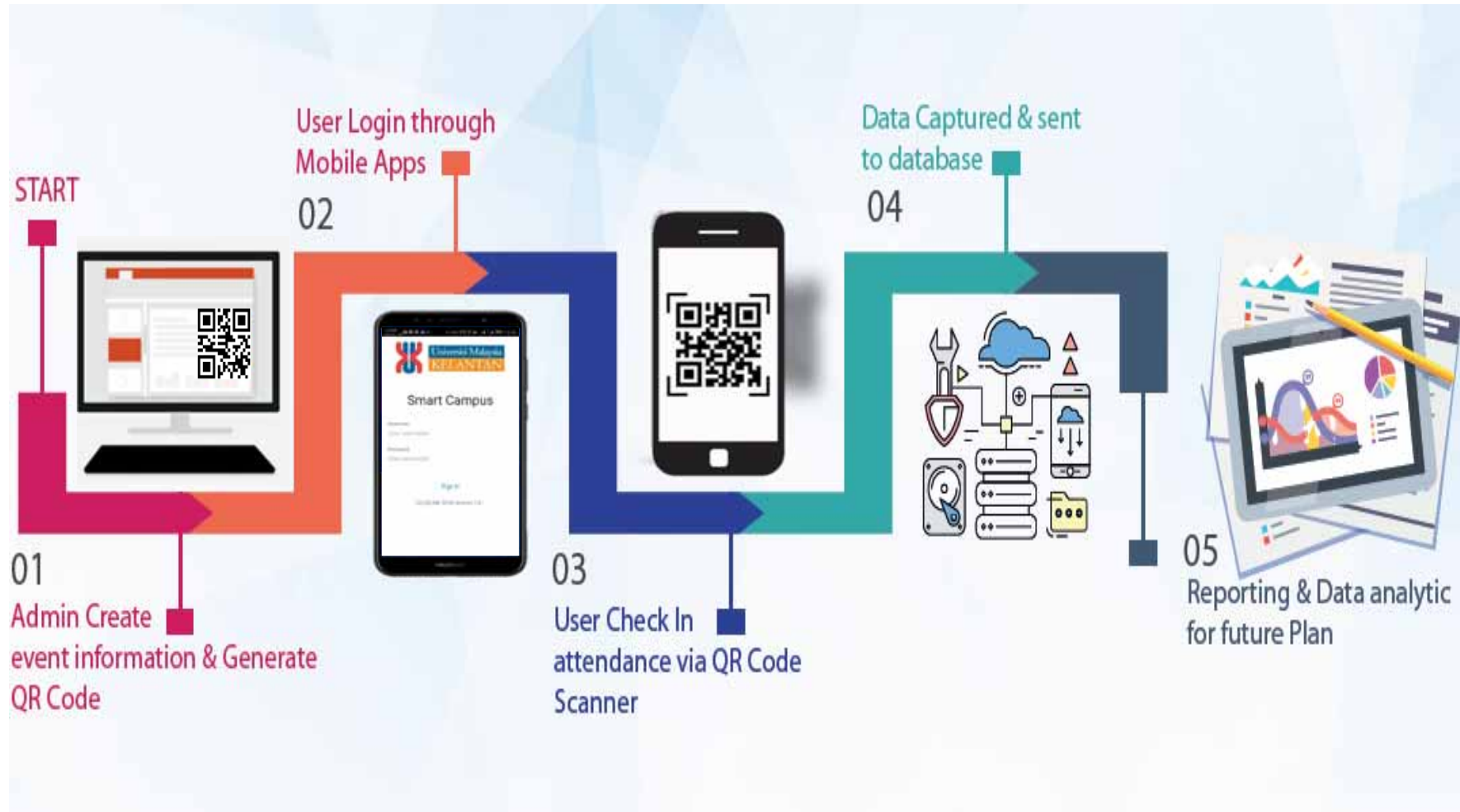
Outcome of Intelligent Campus Initiatives



Project Implemented

Mobile App + QR Code

- QR Attendance for :
- Event & Program
 - Class Attendance



Project Implemented

Mobile App + QR Code

QR Attendance for :

- Event & Program
- Class Attendance

Listing Event
Listing all events

BULAN: JULAI TAHUN: 2018

ACTION	NAMA	TEMPAT	BIL. HADIR	TARIKH	HASA	STATUS	ENTRY
<input type="checkbox"/>	test	test	Staff : 0 Student : 0 Tetamu : 0 JUMLAH : 0	2018-07-18	épagi	CURRENT STATUS : CLOSE <input type="button" value="open"/> <input type="button" value="close"/>	<input type="button" value="QR CODE"/> <input type="button" value="KEY IN"/>

Kedatangan Bagi Majlis Groom2Bloom (Session 1)

No Matrik/No Staff :

PECAHAN STAFF MENGIKUT JABATAN

PECAHAN KEHADIRAN MENGIKUT KATEGORI

LATEST CHECK-IN

STAFF	ID STAFF
1	00121A
2	0016AA
3	01450A

STUDENT

ID	ID-STUDENT
1	F14A037B

CURRENT CHECK-IN

Antaramuka Sistem e-Hadir dan janaan Kod QR

Project Implemented

Mobile App + QR Code

QR Attendance for :

- Event & Program
- Class Attendance



#	DAYS	DATE	SUBJECT	GROUP	TYPE	START TIME	DURATION	LOCATION	STATUS
1	Thursday	19/07/2018	JFT10101	FBKT	L	11:00 - 13:00	2	DEWAN KULIAH 2	Status: CLOSE <input type="button" value="open"/> <input type="button" value="close"/> <input type="button" value="completed"/>
2	Thursday	26/07/2018	JFT10101	FBKT	L	11:00 - 13:00	2	DEWAN KULIAH 2	Status: CLOSE <input type="button" value="open"/> <input type="button" value="close"/> <input type="button" value="completed"/>
3	Thursday	02/08/2018	JFT10101	FBKT	L	11:00 - 13:00	2	DEWAN KULIAH 2	Status: CLOSE <input type="button" value="open"/> <input type="button" value="close"/> <input type="button" value="completed"/>
4	Thursday	09/08/2018	JFT10101	FBKT	L	11:00 - 13:00	2	DEWAN KULIAH 2	Status: CLOSE <input type="button" value="open"/> <input type="button" value="close"/> <input type="button" value="completed"/>



Antaramuka **Sistem e-Hadir** dan janaan **Kod QR**

Project Implemented

Self Student Registration

- Student Information
- Subject Registration
- Student Hostel



Project Implemented

Eduroam Implimentation



What Is Eduroam :

Eduroam (education roaming) is the secure, world-wide roaming access service developed for the international research and education community

Here at Universiti Malaysia Kelantan (UMK)
, Other Public University(UA) in Malaysia
And Among other major University in
the world refer to this site <https://mon.eduroam.my>
& <https://www.eduroam.org>

How to connect :

Choose eduroam SSID

Sign in using your
username@<your.university.domain>
and your university wifi password
on your computer or mobile phone

* EDUROAM available across campus
BACHOK , CITY & JELI

Project Implemented

UMK E-Learning

<http://ecampus.umk.edu.my>

Universiti Malaysia
KELANTAN

Home Courses Log In

Search courses

Moodle Learning Management System

Know More →

MULTILINGUAL ONLINE STUDY COMMUNITY SUPPORT RESPONSIVE DESIGN

Project Implimented

UMK SMART TRACKING REAL TIME TRACKER COVID 19

UMK Care SMART TRACKING REAL TIME TRACKER COVID-19

Anywhere, Anywhere, Anytime

- UMK Community must share their current location based on GPS (stay at home /in campus eg; Taman Bendahara, Kemumin, Bachok and Jeli) and others.
- Update status on the current situation, include tracking on the epidemic chain COVID-19 infection.
- Simultaneous suggestions/feedback during Movement Control Order (MCO)
- Alert Integrated Dashboard to monitor and record the location and staff and students' status.

Available on the Google play and App Store

Originally developed by Centre for Computing and Informatics

PERSONAL DATA PROTECTION ACT 2010 ("PDPA") PRIVACY NOTICE
 Universiti Malaysia Kelantan ("UMK" or "we") are committed to protect your personal data and take into consideration your rights in regards to collection, use and storage of your personal data. We take the matter of protecting your personal data as a high priority matter.



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Entrepreneurship is Our Thrust

#BinaLegasiUMK
 Kita Bersama

#WeAreUMKFamily
 #OneUMKOneDream
 #NothingIsImpossible



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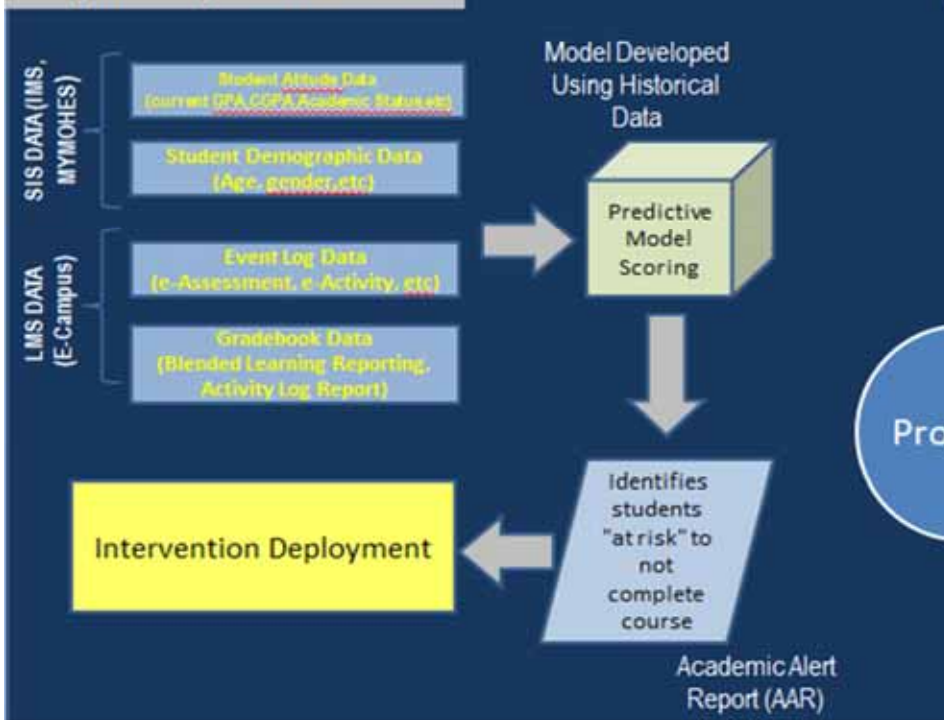
On Going Project

Academic Analytics

Academic Analytics

“Academic analytics is a process for providing higher education institutions with the data necessary to support operational and financial decision making”(Goldstein & Katz, 2005; van Barneveld, Arnold & Campbell, 2012)

Early Alert System Overview



Benefits

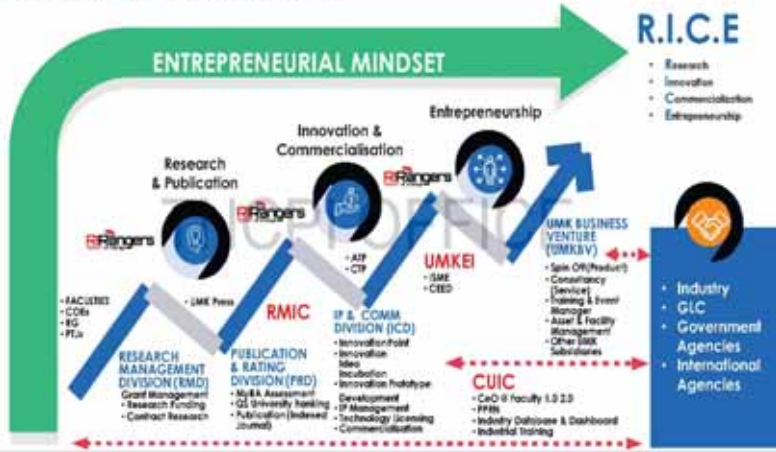
- Reduce percentage for student stopping out
- Predict performance for GOT
- Positioning students success outcome (graduation rates) on stopping out and GOT



On Going Project

R.I.C.E INITIATIVES

UMK R.I.C.E ECOSYSTEM



INITIATIVES

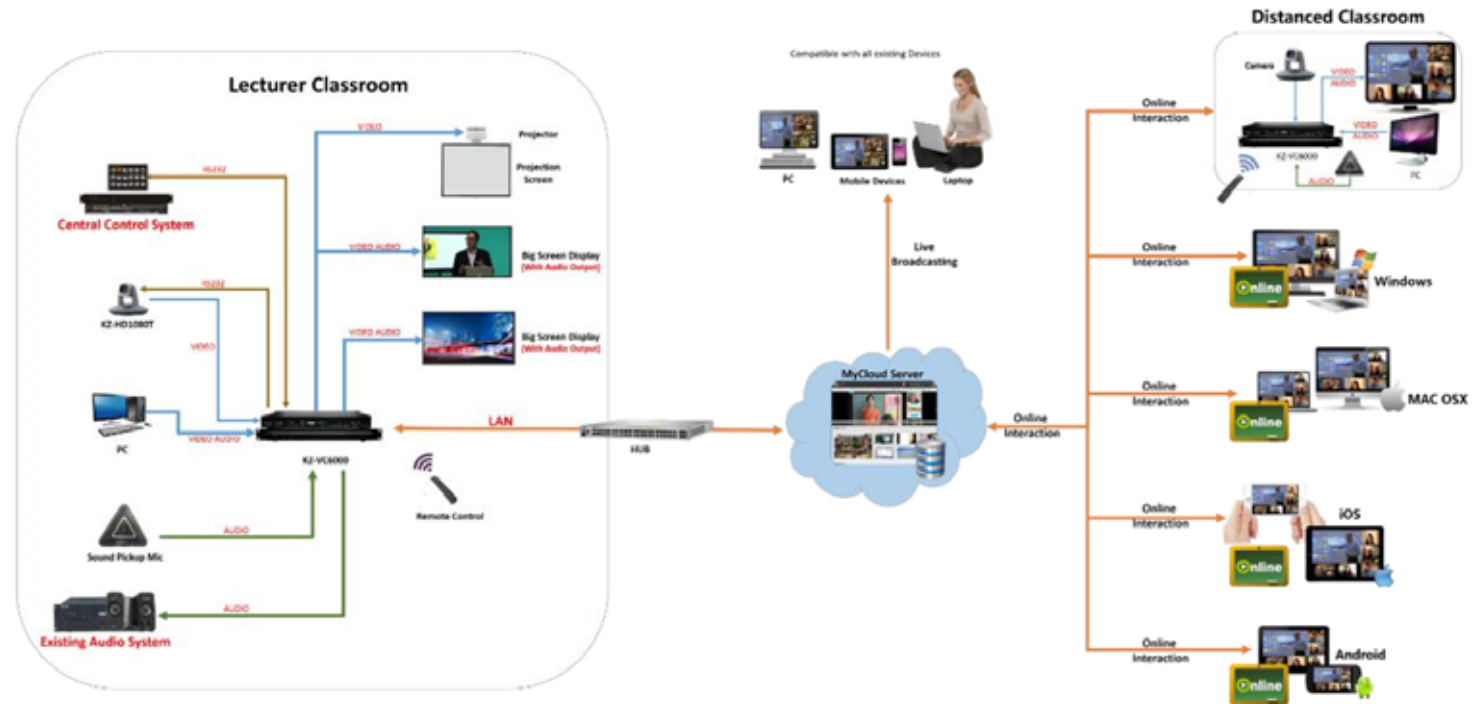
Smart Classroom

What's Next

Upgrade
Smart Classroom

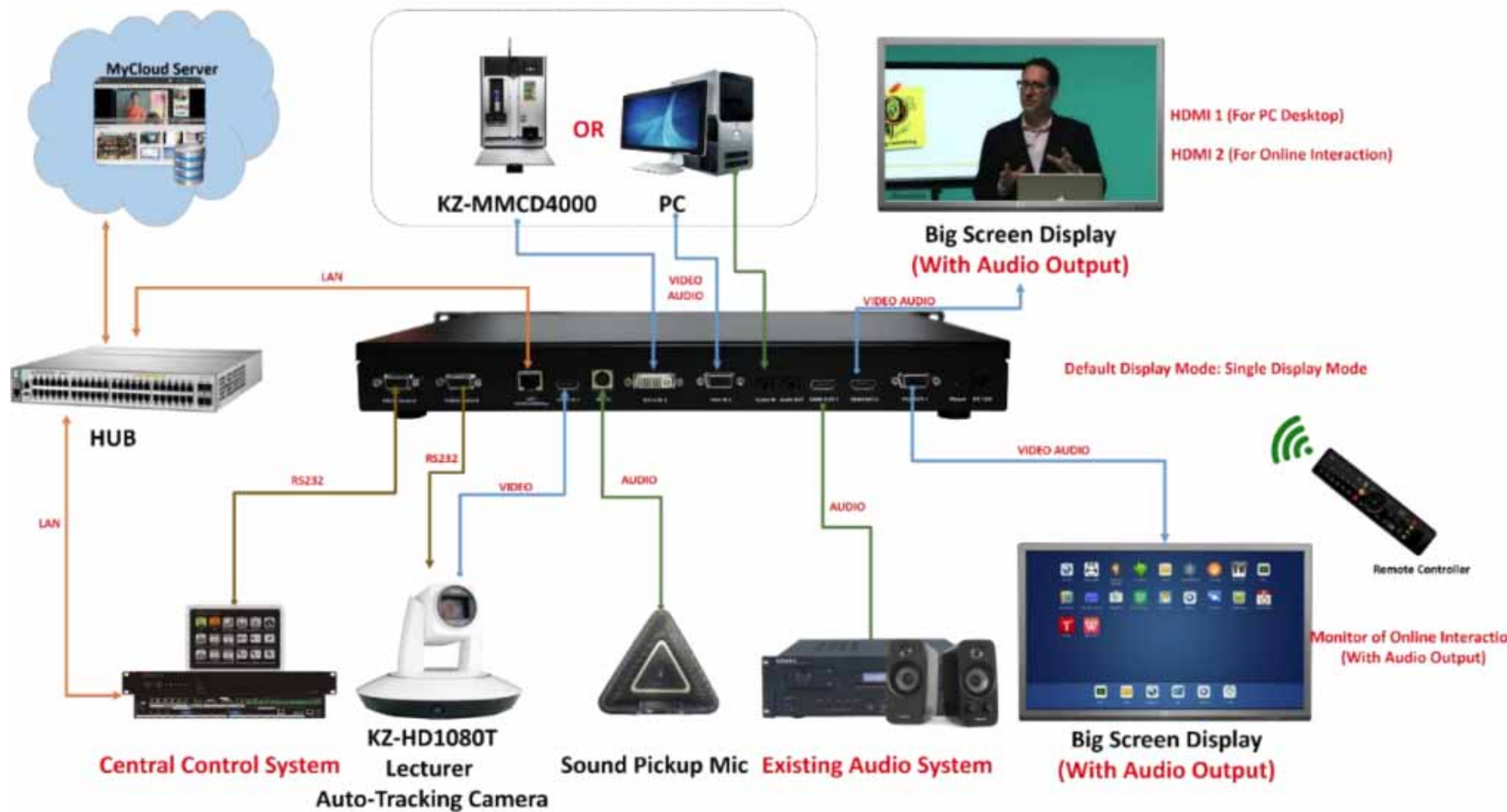
Jeli & Bachok

Video Conference
Auto tracking Camera
Big Screen
Smartboard
Auto Controller



What Next

Upgrade Smart Classroom



What Next

Smart Security & Surveillance

Thermal Detection
Plate Recognition
Face Thermal
Detection

	2020	2021	2022
Deploy Smart Security Surveillance (CCTV, face recognition, plate recognition etc)	x		



What Next

ICT INFRASTRUCTURE

	2020	2020	2021
upgrade all interbuilding backbone to 10G	x		
Upgrade internet leased line at least 1Gb for each campus		X	
IP Phone implementation by 100% for each campus		X	
Coverage internet akses 100% kawasan berpenghuni dengan kelajuan minimum 2Mbps – Conectivity everywhere & anywhere		X	
To deploy wireless API for integration (such as ruckus API)			x
To provide & enhance visual conference / virtual meeting (use skype, hangout etc)	x		

SMART FACILITIES

	2020	2021	2022
Deploy Smart Classroom/Lab (5% from total classroom from each campus)		x	
To deploy Smart Attendance	x		
To identify & deploy Smart Lab in each campus for MOOC content creation and also support MOOE		x	
To integrated equipment in classroom for fast monitoring & asset management (such as projector)	x		
Expend Collaboration & Sharing services such as sharing realtime video semasa pembedahan (contoh di FPV)			x
Full IP Phone Implementation	x		

SYSTEM/APPLICATIONS & INTEGRATION

	2020	2021	2022
To expend Mobile app features	X	X	X
Virtual UMK Map – Implement AR & GIS	X		
Enhance Eduroam usage and experience	X		
Integrated Apps – up to 50%	X		
Student Attendance Tracking System	X		