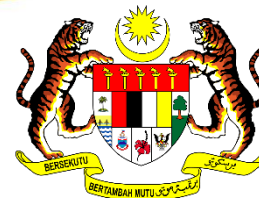


ICI-SENSOR



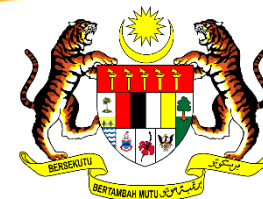
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SIRIM

PHOTONICS

(SOLID STATE LIGHTING/LED TECHNOLOGY)



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SIRIM

Scope of Services

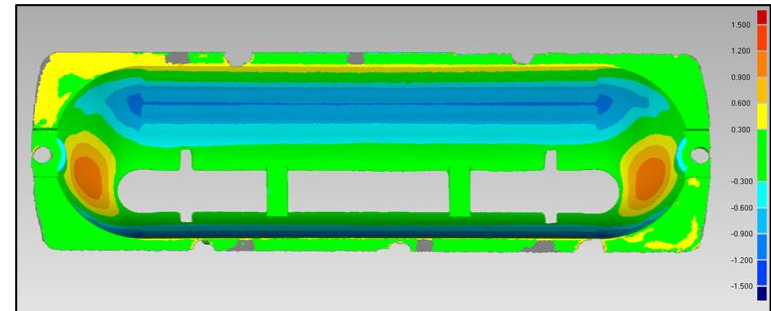
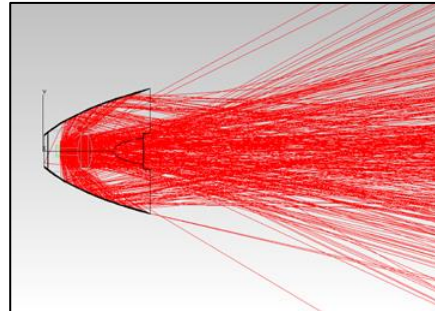
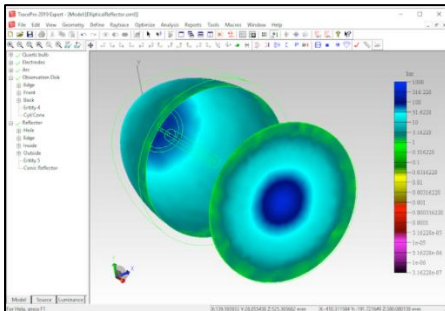


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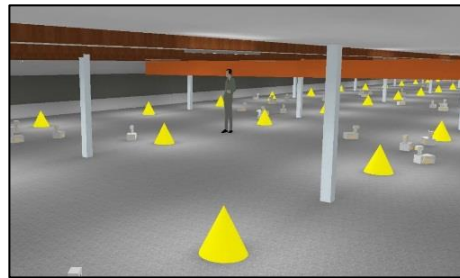
❑ Optical simulation for lighting component and system

- TracePro software for designing, simulating and analyzing illumination, imaging and non-imaging optics.



❑ Design, simulation and measurement of indoor and outdoor lighting system

- Lighting audit - assess current lighting system and recommend upgrading system.
- Dialux software - design, calculate and visualize light for single rooms, whole buildings, streets, outdoor areas and daylighting
- Illumination and spectroscopic measurement – Lux, PAR, PFFD and Fluorescence.



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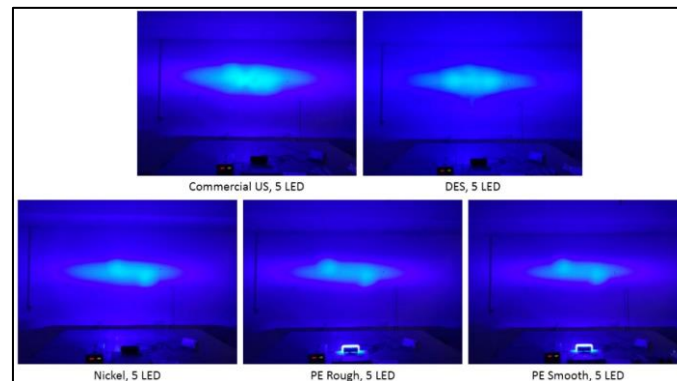
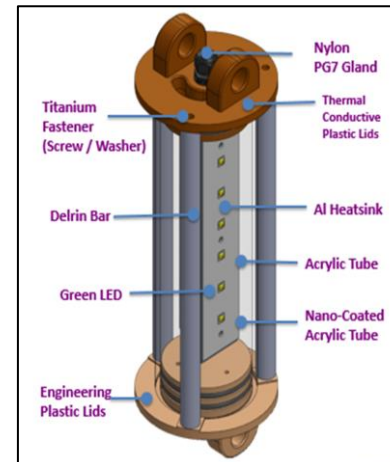
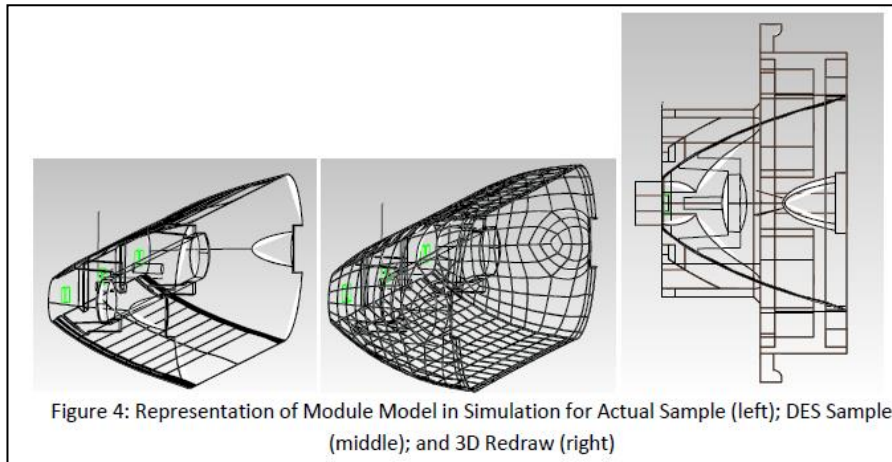
Scope of Services



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- ❑ **Luminaire design, prototype development and functional testing**
 - 3D mechanical design and printing prototyping.



Scope of Services

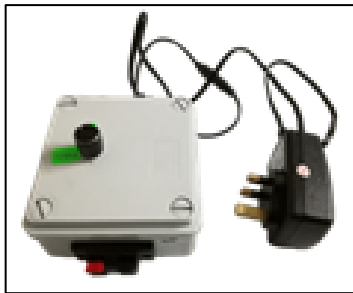


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❑ Development of lighting controller system

- Dedicated controller system and Internet of Thing (IoT) based system



Scope of Services



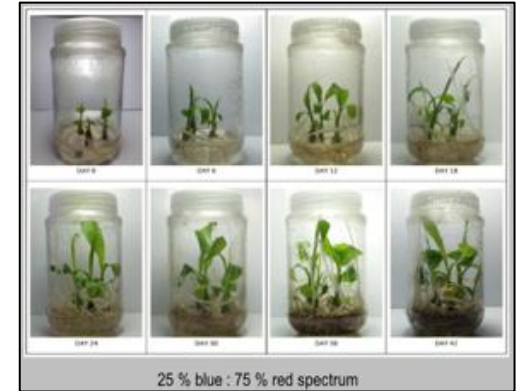
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Development of Solid-State Lighting applications

- Night market

- Indoor vertical farming



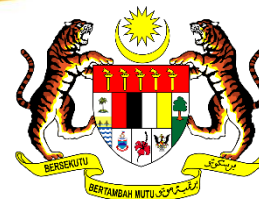
- Poultry

- Fishery



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KIIS



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SIRIM



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Temperature and humidity monitoring of Kelulut Bee hive



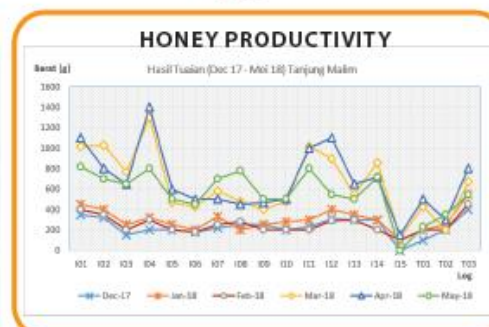
Kelulut FARM



Kelulut HONEY



IoT Device



Increase in Honey productivity at Tanjung Malim up to 327% (104) - KIIS operational after Feb 2018

3x
Honey ↑

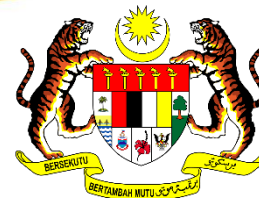
**Shorter
Harvesting
Cycle**

**Shorter
Harvesting
Time**

3 Sites

- Tanjung Malim
- Jelebu
- Kuala Lipis

TRACKING PROJECT



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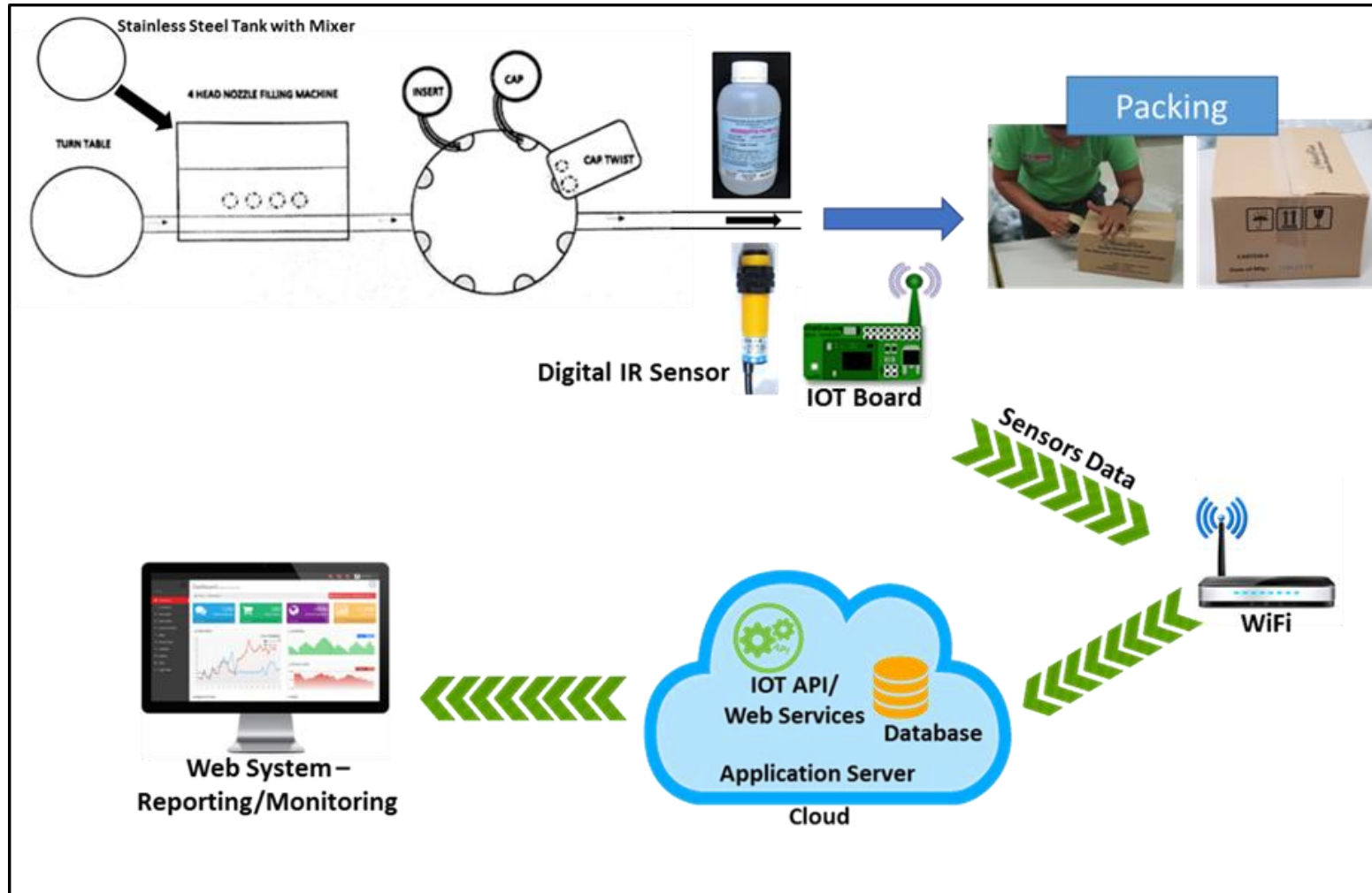


SIRIM

Development of Mosquito Home AQ Automated Process and Tracking



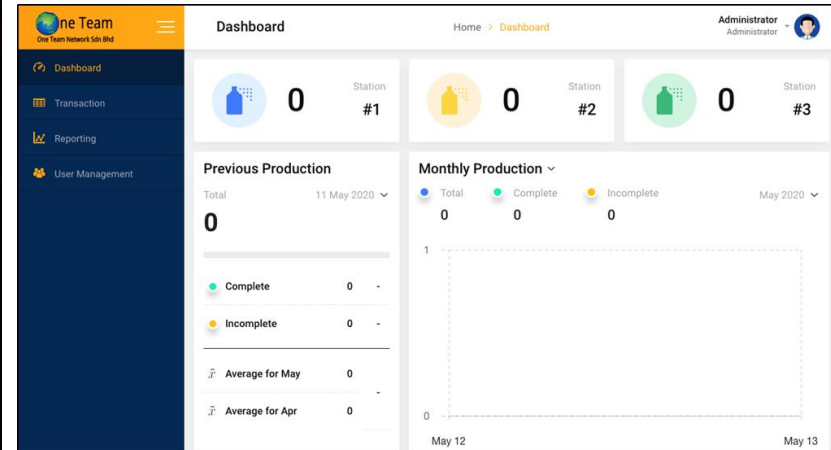
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Development of Mosquito Home AQ Automated Process and Tracking



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One Team
One Team Networks Sdn Bhd

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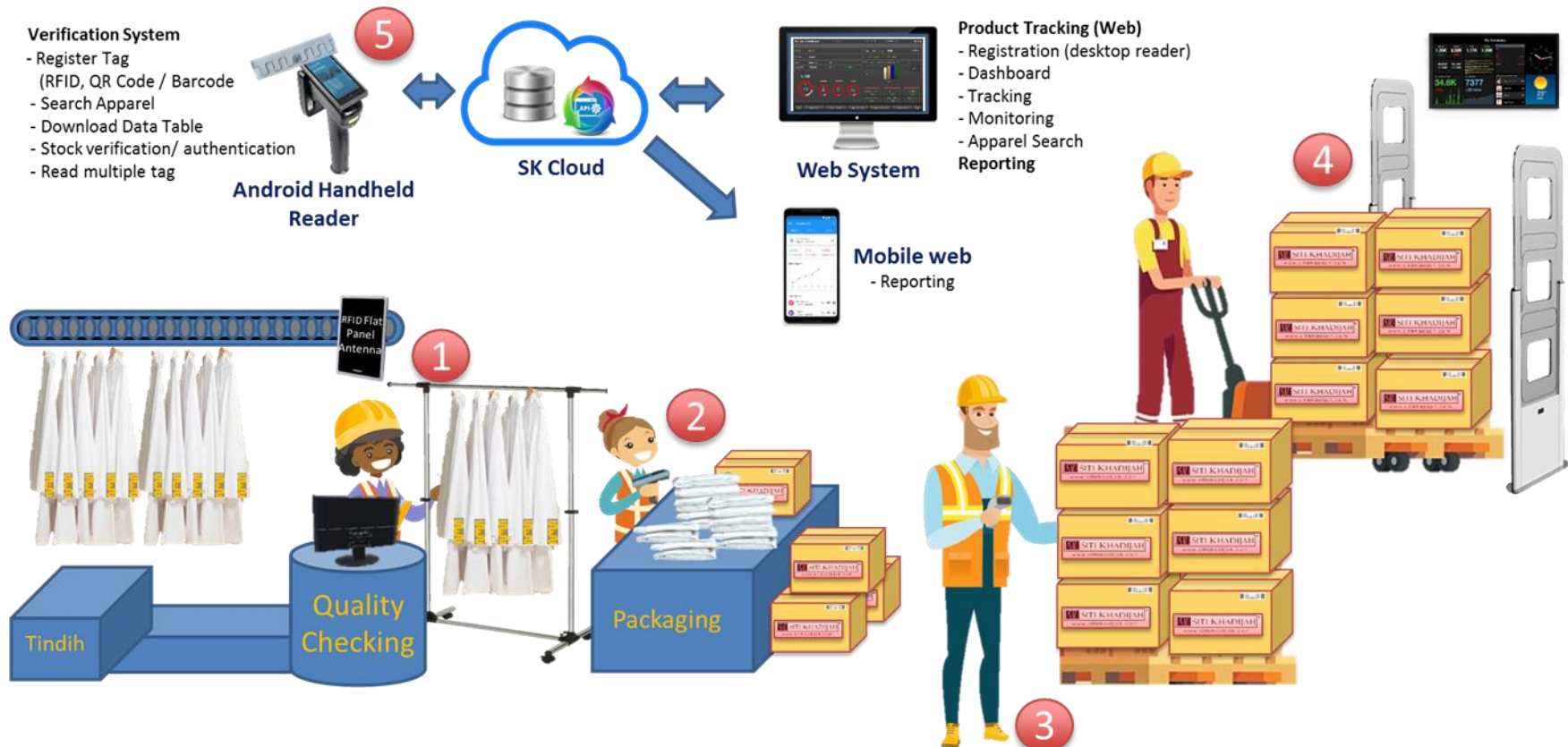
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Product Tracking and Verification (TrekPV) System



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Station 1 – Registration

Station 2 – Packaging

Station 3 - verification

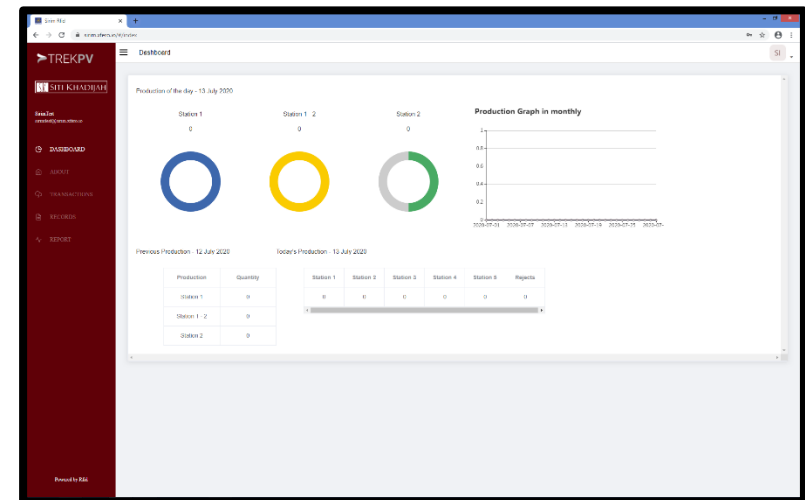
Station 4 – Production checkpoint

Station 5 – outlet verification

Product Tracking and Verification (TrekPV) System

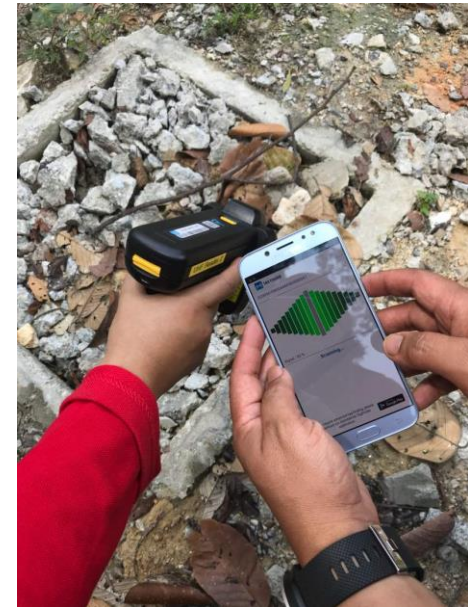


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This project was focuses on system management of manhole for communication networks. Problems that encountered were; Manhole blue-print information was lost, Manhole replacement information was not updated and Manhole was buried / undetectable by road pavement and others. Smart Manhole System project covers 3 aspects, which is Identification of holes through RFID tags, mapping manhole data in Google Maps and adapting Mobile Applications as graphical intermediaries to users.



Smart Manhole System



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Intelligent File Tracking and Management System (iFiltrek)



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A wireless system that scans the person ID and retrieves the files acquired without the need of human intervention. Files availability can be updated in real time and monitored ubiquitously.



Intelligent File Retrieval System (iFRS)

- ❖ Registration
- ❖ File Search
- ❖ File Retrieval
- ❖ File Return

RFID File Shelf Management System (FMS)

- ❖ File activities on shelf
- ❖ File taken/return

Audit Trail System (ATS)

- ❖ Check file status
- ❖ Missing/Misplaced file



Intelligent File Tracking and Management System (iFiltrek)



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Data base recording:

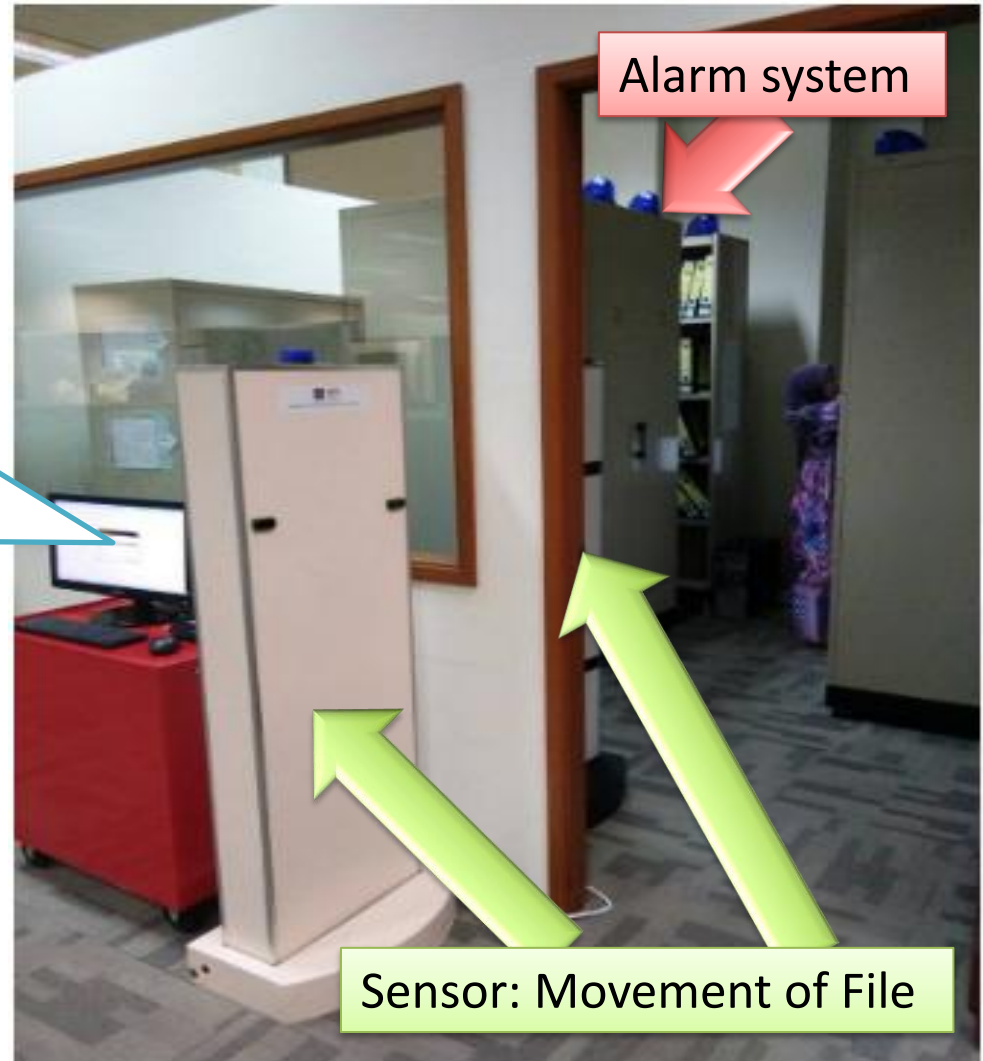
1. person enter and exit the file room
2. File name
3. Time and date of file movement
4. File location

Laporan Pemantauan

Laporan Mengikut Pemantauan

Bil	No Permit	Tarikh Pemantauan	Pegawai Pemantauan	Catatan	Lokasi (Lat, Long)
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3	2014000001	25/05/2018, Friday, 10:10:02	admin		3.0727159, 101.5214312
4	2014000001	25/05/2018, Friday, 10:00:52	admin	premis ok	3.0727159, 101.5214312
5	2014000001	25/05/2018, Friday, 10:00:31	admin		3.0727159, 101.5214312
6	2014000001	23/05/2018, Wednesday, 15:19:16	demo	demo	3.06423, 101.510776
7	2014000001	23/05/2018, Wednesday, 15:19:08	admin		3.06423, 101.510776
8	2014000001	23/05/2018, Wednesday, 15:16:49	admin	mbsa	3.06423, 101.510776
9	2014000001	23/05/2018, Wednesday, 15:16:49	admin		3.06423, 101.510776

- 1 Patent (PI 2017000789) - Document Tracking System with Electronic Tag and Multiple Access Processing
- 1 Trade Mark (2017008080) – iFiltrek™



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Seed Production and Integrated Tracking System (SPITS)



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- Seed Production Integrated Tracking System (SPITS) is a **RFID based system developed for oil palm seeds production**. The system enables the user to monitor online the status of the seeds from harvesting until packaging.
- The system consists of **SPITS Online System** and **SPITS Mobile System** whereby data captured from SPITS Mobile System will be displayed through SPITS Online System for analysis and monitoring.



©2010, FASSB. Hakcipta Terpelihara. Paparan terbaik dengan pelayar Internet Explorer versi 6 dan ke atas. Dibangun dan diselenggarakan oleh AARC, SIRIM Berhad.

Benefits include

- Instant data access for the record updates and retrieval
- Cost savings through manpower reduction
- Increase operational efficiency



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Seed Production and Integrated Tracking System (SPITS)



USEFULNESS AND APPLICATION

Single read
or multi
read

Tracking
processes
and status

Increase
production
efficiency



Seed Production and Integrated Tracking System (SPITS)

NOVELTY AND INVENTIVENESS



Continuous monitoring for earlier problem detection is able to minimise seed losses



Automation of production processes for better access and further improvement



System has been successfully deployed in the actual seed production environment



System deployed our own fully developed algorithm for multi read application to allow better data manipulation

MARKET AND COMMERCIAL POTENTIAL

Cost saving

- System can increase production efficiency thus resulting in cost and time saving

Usefulness

- System is highly beneficial to oil palm companies involved in the seed production processes

Affordable

- System is affordable and scalable

Seed Production and Integrated Tracking System (SPITS)



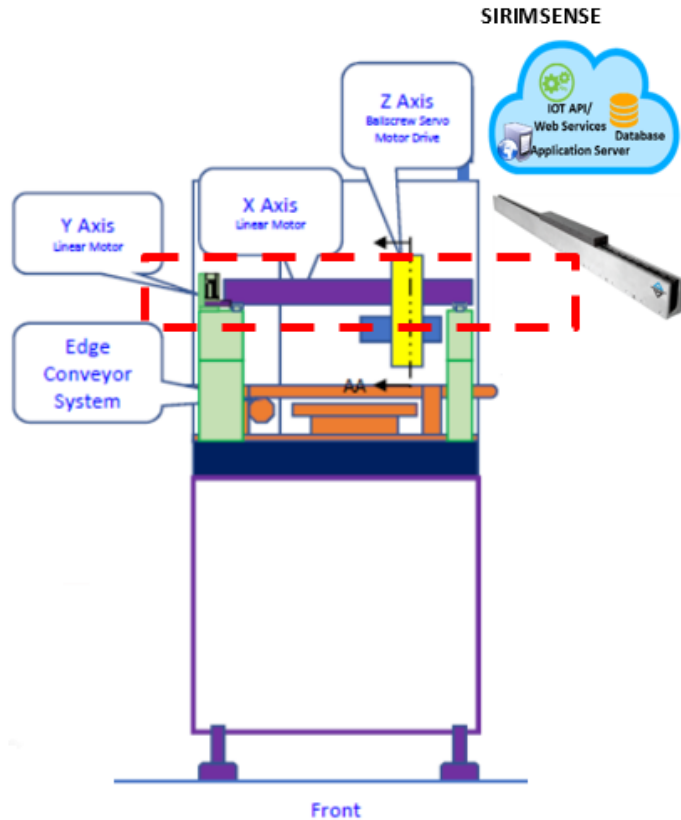
Seed Production Tracking



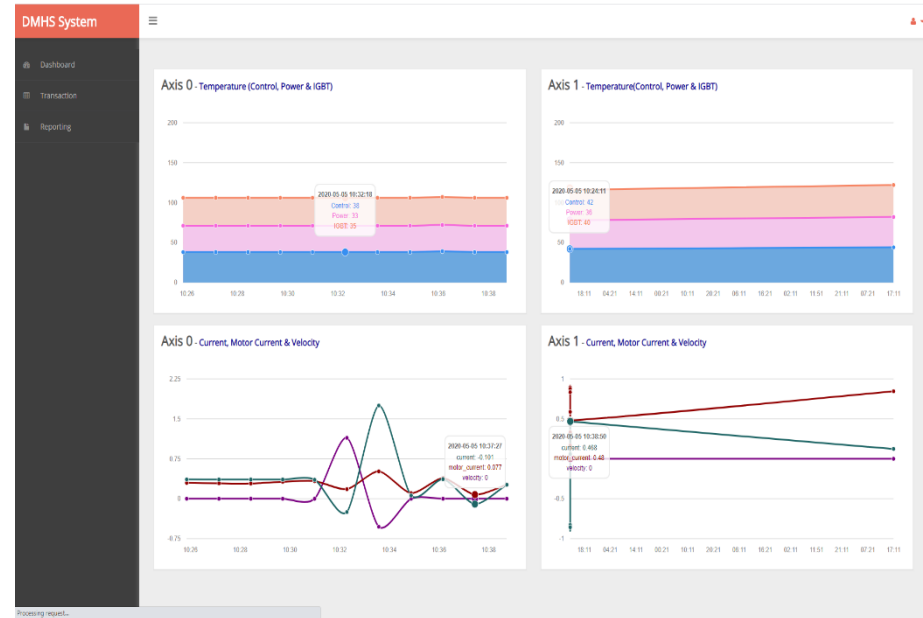
Development of Auto Linear Dispenser System with IoT connectivity



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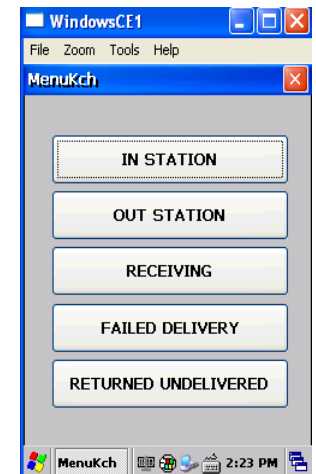
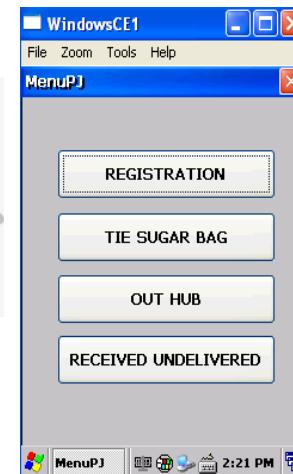
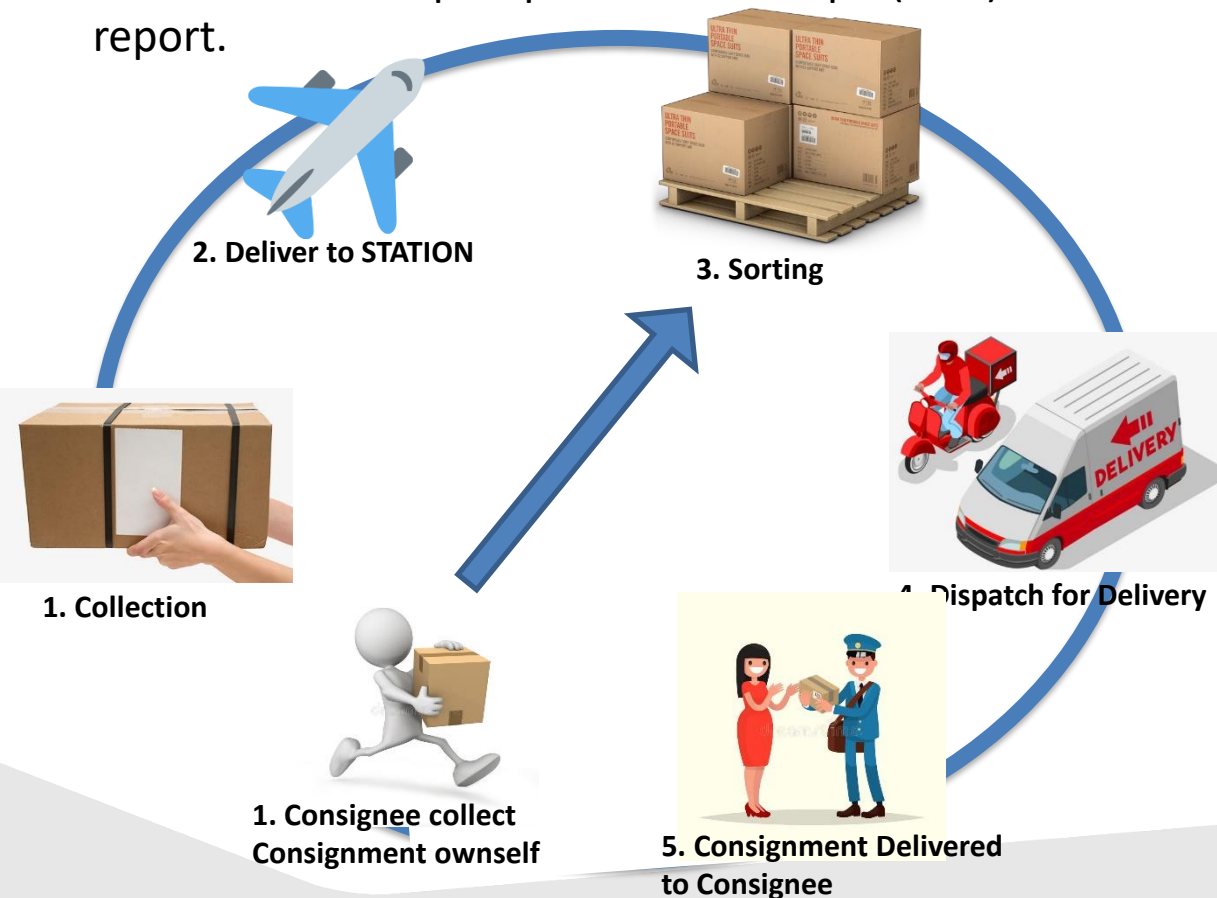
(Linear Motor)



Fully automated Precision Dispensing System with IoT Connectivity.

7 Courier Service Upgrading System (CSU)

To introduce RFID in the courier service company in order to improve its operational efficiency, track the delivery and improve the overall quality of service. This project is meant to develop a proof of concept (POC) for SKMM report.



Courier Service Upgrading System (CSU)

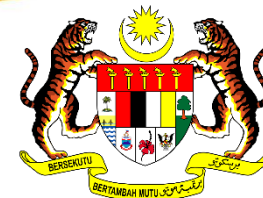


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Permit Monitoring System



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Integrated Information System : Certificate / Permit / High security card



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2a. Identification system



Authorized Certificate Database Server

2b. Information system

3. Permit Monitoring System

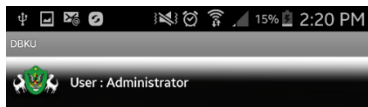


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Application



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Sila imbas kod bar / kod QR

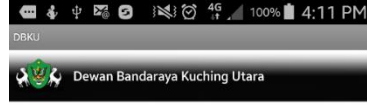


Imbas kod bar / kod QR

Maklumat Lanjut

Log Keluar

<http://www.dbku.sarawak.gov.my/>



LESEN PERIKLANAN



No. Lesen
LB2400BNS2015000001

Nama/No K/P
ABONG BIN ABANG MADELI
551128-13-5387

Tempoh Sah Lesen
01/01/2016 - 31/12/2016

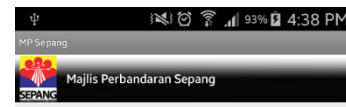
Nama/Aalamat Perniagaan
ADV
1111, 90000, Kuching, Sarawak, Malaysia

Butiran Perniagaan
Business Signage Size 1 sq.m.(Half Yearly)
Kadar (RM) : 10.00
Area (SqM) / Bil : 3.00SQM
Bayaran (RM) : 30.00

Business Signage Size 2 sq.m.(Yearly)
Kadar (RM) : 30.00
Area (SqM) / Bil : 1
Bayaran (RM) : 30.00

Jumlah Bayaran : RM 60.00

Dewan Bandaraya Kuching Utara



Majlis Perbandaran Sepang

Nama Pengguna

admin

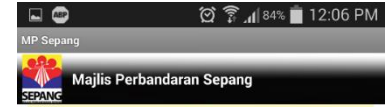
Kata Laluan

...

Login

Batal

<http://www.mpsepang.gov.my/>



Maklumat Permit

No.Rujukan fail
MPSPG/BGN/BB/500-1/SEK:27/224-6-21

Nama Pemilik/Pemohon
Ramalingam Siva Krishnan

Alamat Tapak/Premis
Jalan Warisan Indah, Kota Warisan, 43900 Sepang, Selangor

No.Telefon
0173322006

Tarikh Kelulusan
2014-09-05 03:22:09

Tempoh Kelulusan
2014-09-05 03:22:09 - 2015-09-05 03:22:09

Jenis Permit

Permit Ubahsua

Butiran Bayaran

Yuran Proses RM400

Cagaran

RM1000

MAJLIS PERBANDARAN SEPANG

Majlis Perbandaran Sepang

SPP::Sistem Pemantauan Permit

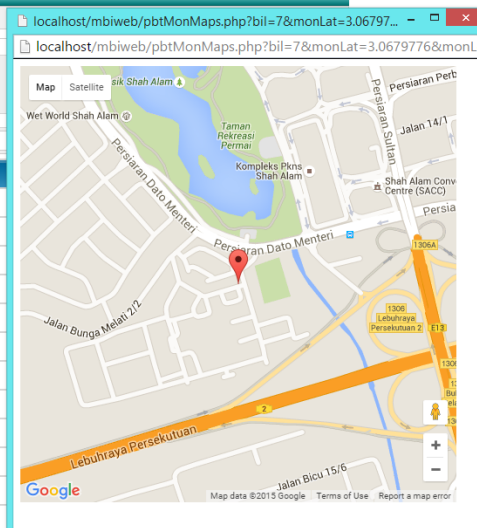
Versi 1.0

Konfigurasi Sistem Maklumat Laporan

Laporan Pemantauan Permit

Laporan Mengikut Pemantauan

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10	2014000001	20/08/2015, Thursday, 10:33:16
11	2014000001	07/08/2015, Friday, 16:20:45
12	2014000001	30/06/2015, Tuesday, 13:56:24



Sistem Laporan & Pemantauan

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