



**SIMPOSIUM HARI PERTAMA**  
**SESI PETANG**

# Let's think for a while....

- ◆ We are living in a world full of electronic appliances, television monitors, computers, etc.
- ◆ When we get into our car we will see a multitude of displays to indicate the amount of petrol left in the tank, engine temperature, current petrol consumption rate and many more.
- ◆ In contrast, what do we have in our homes to tell us the status of our home?



KHAMIS, 14 APRIL 2016 @ 6:00 PM

## Mayat reput ditemui dalam rumah



Oleh Suzianah Jiffar  
suzianah@bh.com.my

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Anggota polis mengangkat mayat mangsa yang ditemui mati di Sinsuran, Kota Kinabalu Adam Arinin

KOTA KINABALU: Mayat seorang lelaki warga tua yang dipercayai suda di atas sebuah kerusi rotan di rumah sewanya di Kompleks Sinsuran, d hari tadi.

Dalam kejadian kira-kira jam 1 tengah hari itu, mangsa yang dikenali sel Choi, 63, yang juga bekas peguam, ditemui oleh seorang rakannya yang rumah sewanya.

Difahamkan, rakan mangsa datang ke rumah sewa itu untuk mencariny hampir dua bulan tidak dihubungi mangsa.

Bagaimanapun, ketika tiba di rumah sewa itu, rakannya mendapati pintu terkunci daripada luar (dipasang mangga) dan pintu tidak dibuka walau memanggil mangsa beberapa kali.

Keadaan itu menyebabkan rakan mangsa memotong mangga di pintu j mangsa sebelum melihat mangsa sudah meninggal dunia di biliknya.

Ketua Polis Daerah Kota Kinabalu Asisten Komisioner M Chandra berka lanjut di tempat kejadian mendapati tiada sebarang unsur jenayah berle

JUMAAT, 8 JANUARI 2016 @ 6:29 PM

## Warga emas tinggal sendirian ditemui mati

Oleh Zuliaty Zulkifli  
bhnews@bh.com.my

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RASHIMAH Ismail (kiri) dan Fatimah Ariffin melihat keadaan dalam rumah warga emas, Che Piah Din, (gambar kecil), yang meninggal dunia sejak empat hari lalu di rumahnya di Kampung Gelong Rambai. Foto Zuliaty Zulkifli

JITRA: Seorang wanita warga tua ditemui mati di rumahnya di Kampung Gelong Rambai, dekat Tanjung, di sini, pagi tadi.

Mayat Che Piah Din, 77, ditemui anak kandungnya ketika balik untuk melawat ibunya yang tinggal sendirian di rumah berkenaan kira-kira jam 10 pagi.

Ketua Polis Daerah Kubang Pasu, Superintendan Abd Rahim Abdullah, berkata pihaknya yang menerima maklumat bergegas ke lokasi dan menemui mayat wanita warga tua itu yang sudah reput di atas katil di bahagian belakang rumah.

"Berdasarkan pemeriksaan awal kita percaya mangsa berkemungkinan besar meninggal dunia sejak empat hari lalu, sebelum mayat ditemui anaknya pagi ini.



## Mayat reput dalam rumah

WARTAWAN SINAR HARIAN  
9 JULAI 2013

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MARANG – Misteri rumah didiami seorang wanita di Kampung Padang Tanjung di sini, yang berkunci dan dalam keadaan gelap sejak beberapa hari lalu terungkai berikutan penemuan mayat hampir reput dalam rumah berkenaan, malam semalam.

Rohana Abdullah, 43, yang juga pesakit mental ditemui abangnya, Zulkifli, 53, dalam keadaan terlentang di atas tangga di bahagian dapur rumah.

Sebelum menemui mayat mangsa, Zulkifli menerima panggilan kira-kira jam 7.30 malam daripada sepupunya yang khuatir mengenai keselamatan mangsa kerana sudah lama tidak kelihatan, malah rumahnya berkunci seperti tiada orang.

"Saya kemudian ke rumah mangsa pada jam 11.30 malam dan mendapati rumah gelap dan tingkap serta pintu rumah berkunci.

"Saya mencungkil pintu hadapan untuk masuk ke dalam rumah," katanya yang tinggal di Ajil.

Menurutnya, selepas berjaya memasuki rumah berkenaan, dia membuat pemeriksaan sebelum menemui mangsa dalam keadaan terlentang dan tidak bemyawa.

"Saya segera membuat laporan polis mengenai kejadian ini dan berdasarkan keadaan mayat adik bongsu yang sudah mula mereput, kemungkinan dia yang masih bujang meninggal dunia kira-kira dua minggu lalu," katanya kepada Sinar Harian.

Dalam pada itu, Ketua Polis Daerah Marang, Deputi Superintendan Ahmad Mazlan Yahaya berkata, polis menerima laporan mengenai kematian wanita terbabit dan mengklasifikasikan kes sebagai mati mengejut.

Mayat mangsa dihantar ke Hospital Sultanah Nur Zahirah, Kuala Terengganu untuk dibedah siasat sebelum dituntut ahli keluarganya untuk dikebumikan.

ISNIN, 1 OGOS 2016 @ 8:09 AM

## Lelaki maut terperangkap dalam rumah terbakar



Oleh Poliana Ronnie Sidom  
poliana@bh.com.my

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WORLD / PHILIPPINES

## Window's Iron Grills Trapped Workers in Blaze

Filipino workers died trapped on factory's 2nd floor

By Newser Editors and Wire Services  
Posted May 14, 2015 4:32 AM CDT

f t e 9 comments

Home Hukrim Kebakaran Dua Rumah Tewaskan Satu Keluarga di Sungai Pakning...

## Kebakaran Dua Rumah Tewaskan Satu Keluarga di Sungai Pakning

JUMAT, 18 SEPTEMBER 2015 | 12:04:10



BENGKALIS - Kebakaran dua rumah kembali terjadi di Kabupaten Bengkulu. tepatnya di Jalan Sudirman. Kelurahan

BERITA TERKAIT:

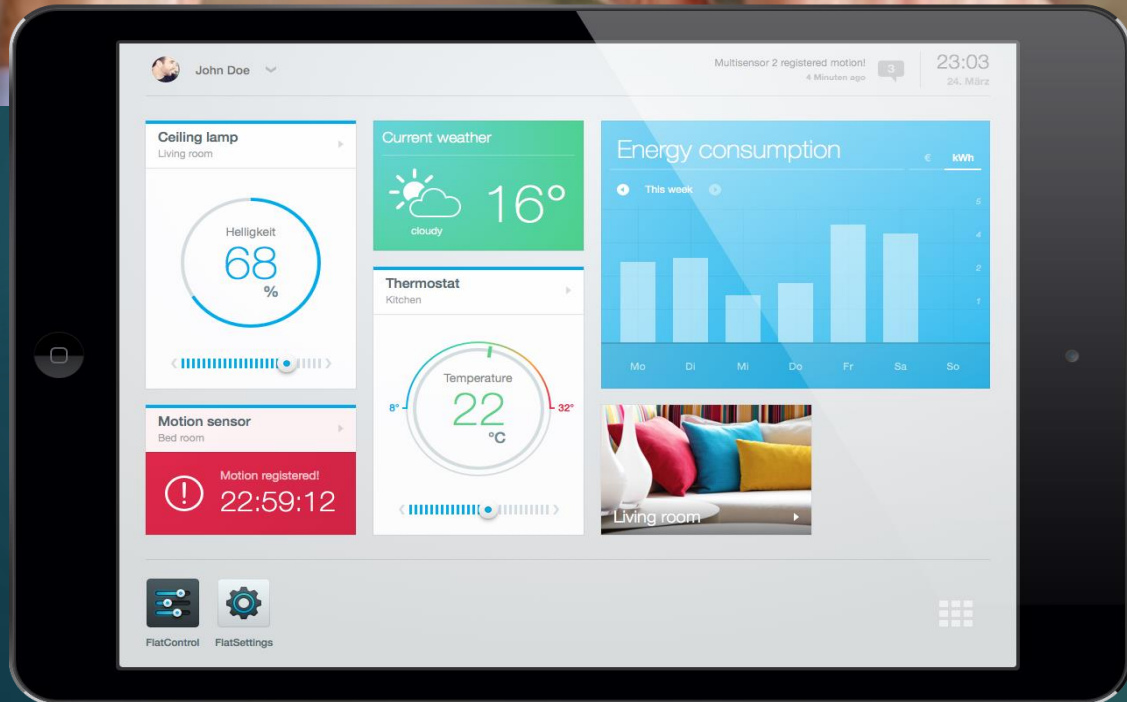


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AP

(NEWSER) – Police will open a criminal investigation into a Philippine factory fire that killed at least 72 people, as a relative of several of the victims said the blaze had trapped workers in the building's second floor, where iron grills on windows prevented their escape. Most of the bodies were retrieved from the gutted two-story Kentex Manufacturing Corp. rubber slipper factory today, a day after the fire raged for over five hours on the outskirts of Manila, the capital. As forensic officers worked to identify the dead and reconcile their names with those listed as missing, questions were being raised if the factory followed fire and building safety standards.

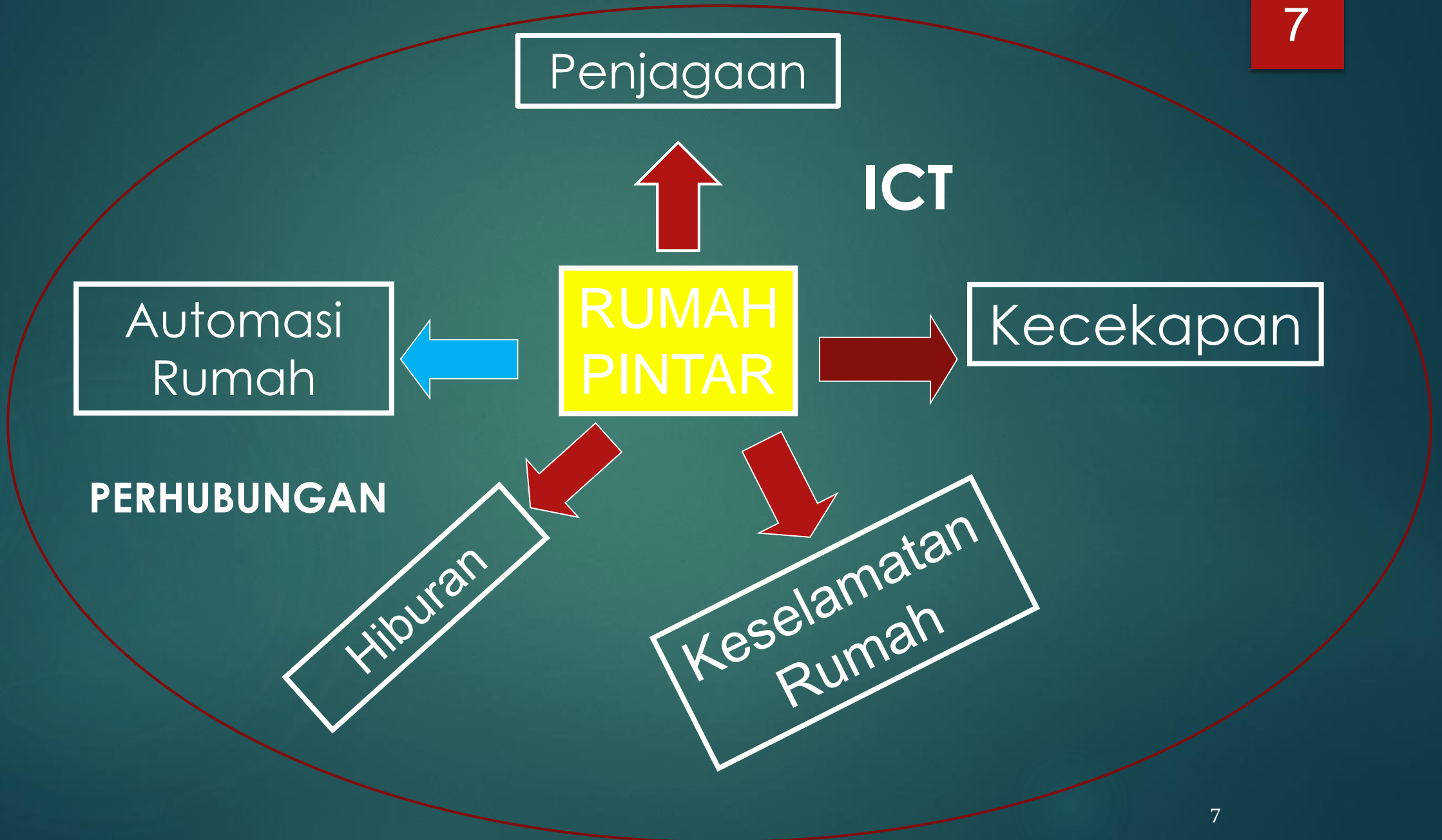


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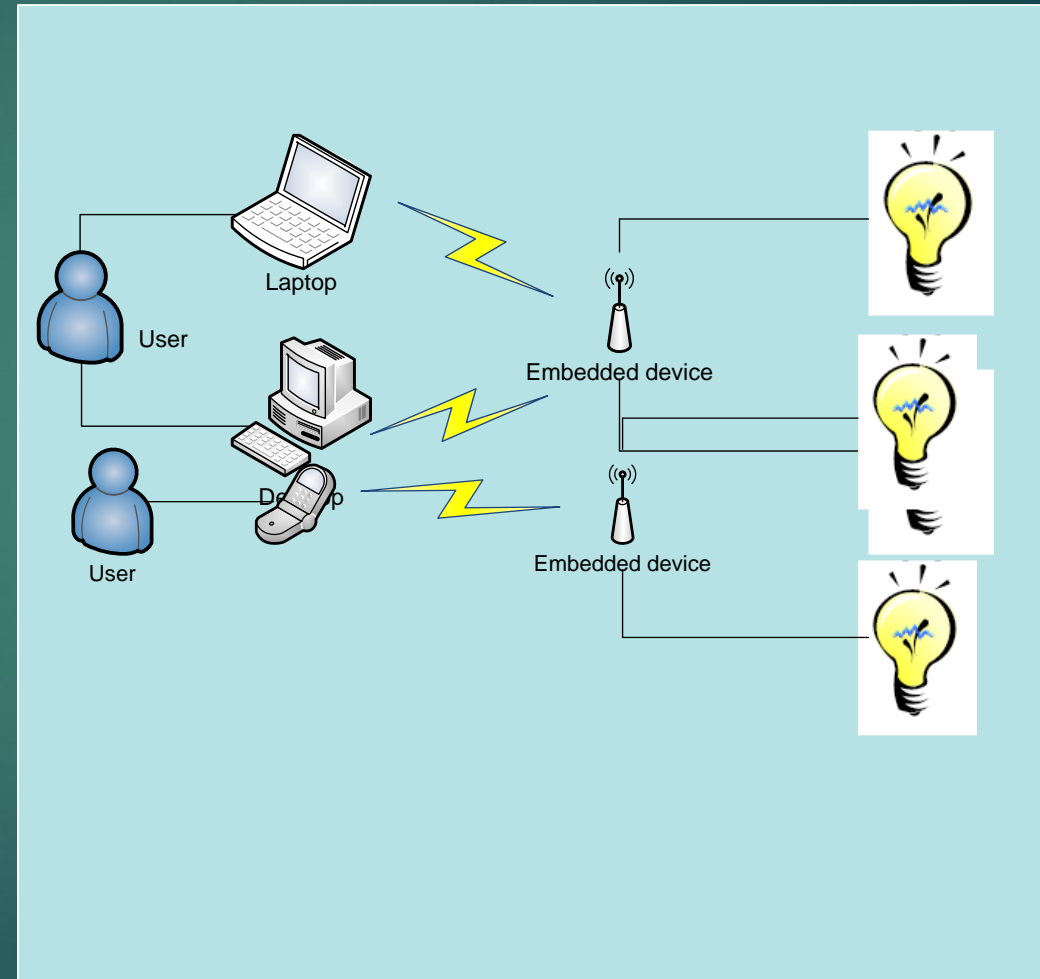
# Penggunaan Tenaga rumah kediaman





# Usage Monitoring and Control using the Concept of IT

- Integrate wireless networks into a smart home system.
  - Control and monitor home appliances
  - E.g. lights, heaters, fridges, curtain or blinds openers, and more...





# Smart Homes



MULTIMEDIA CAPTURE



WELLBEING  
- ELDERLYCARE  
- CHILDCARE  
- HEALTHCARE



SURVEILLANCE



ENERGY  
MONITORING  
AND  
CONTROLLING

# A Device for Energy Monitoring and Control using Smart Phones – i Home (intelligent Home)

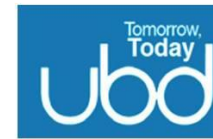


**Most Recent Version of the i-Home Controller**



# An Energy Usage Control System (i-Home)

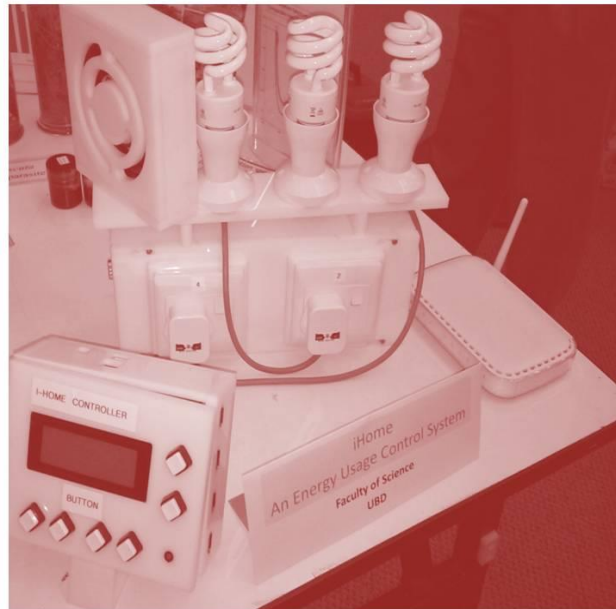
**Inventors:** Liyanage Chandratilak De Silva (UBD), Wong Teck Siong (UBD),  
Mohammad Iskandar Petra (UBD), Mohammad Auzi Ahadani (UBD)  
(liyanagecd@yahoo.co.nz)



## BACKGROUND OF INVENTION

❖ This invention is a standalone programmable hardware unit for monitoring activities of occupants in a home or office environment and automatically control the lighting and other appliances (air-conditioners, fans, water heaters etc.) according to occupancy and preset conditions. Also the hardware allows users to control the appliances manually by using any type of smart phone to reduce the energy wastage.

❖ We have designed, implemented and demonstrated a prototype device. One of the main features of the device is that it is low cost, built using open source hardware and software totally in Brunei by our local students with the guidance of UBD staff.



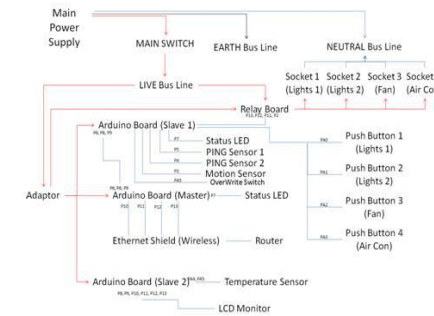
## PROTOTYPE CONTROL PANEL



## USAGE EXAMPLES

❖ We are living in a world full of electronic appliances, television monitors, computers and many more. When we get into our car we will see a multitude of displays to indicate the amount of petrol left in the tank, engine temperature, current petrol consumption rate (in some cars) etc. But none of our ultramodern homes have any such displays even just to tell how much our current energy consumption is (though total monthly consumption is displayed). Also we cannot tell how many air conditioners are on at a given time in the house and how many are running in rooms without any occupants. This will apply to lights, heaters and many more devices. Using our prototype device we can provide an innovative solution to these problems.

## MICROCONTROLLER AND RELATED CONNECTIONS

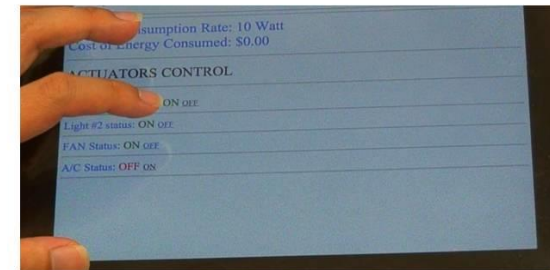


## KEY BENEFITS

❖ Use of monitoring and control of lighting and other equipment in a house or office is always not linked to our mobile devices and we never had a chance to feel our electricity bill until when we see it in the mail or until we go and read the pre-paid balance from the almost hidden energy meter.

❖ With the help of our invention we will be able to bring the accountability of using the electricity to each and every person in the home since more than one person can be connected to our device and see the current energy consumption rate at any given time and for any given room as long as they have a smart phone (or any computer connected to the Internet).

❖ Some preliminary calculations shows that using this concept a typical house can save up to 30% of electricity whereby reducing the amount of carbon dioxide emitted to the environment. This percentage can be even more for a facility with many occupants with many unoccupied rooms.



# SELF CONFIGURABLE MEDICINE DISPENSER

Brunei Patent Filled Dated 3<sup>rd</sup> September 2012, Application No: BN2012/0026

Inventors: **Mohammad Auzi Ahadani (Lead inventor), Liyanage C. De Silva, Iskandar Petra, and Teck Sion Wong**

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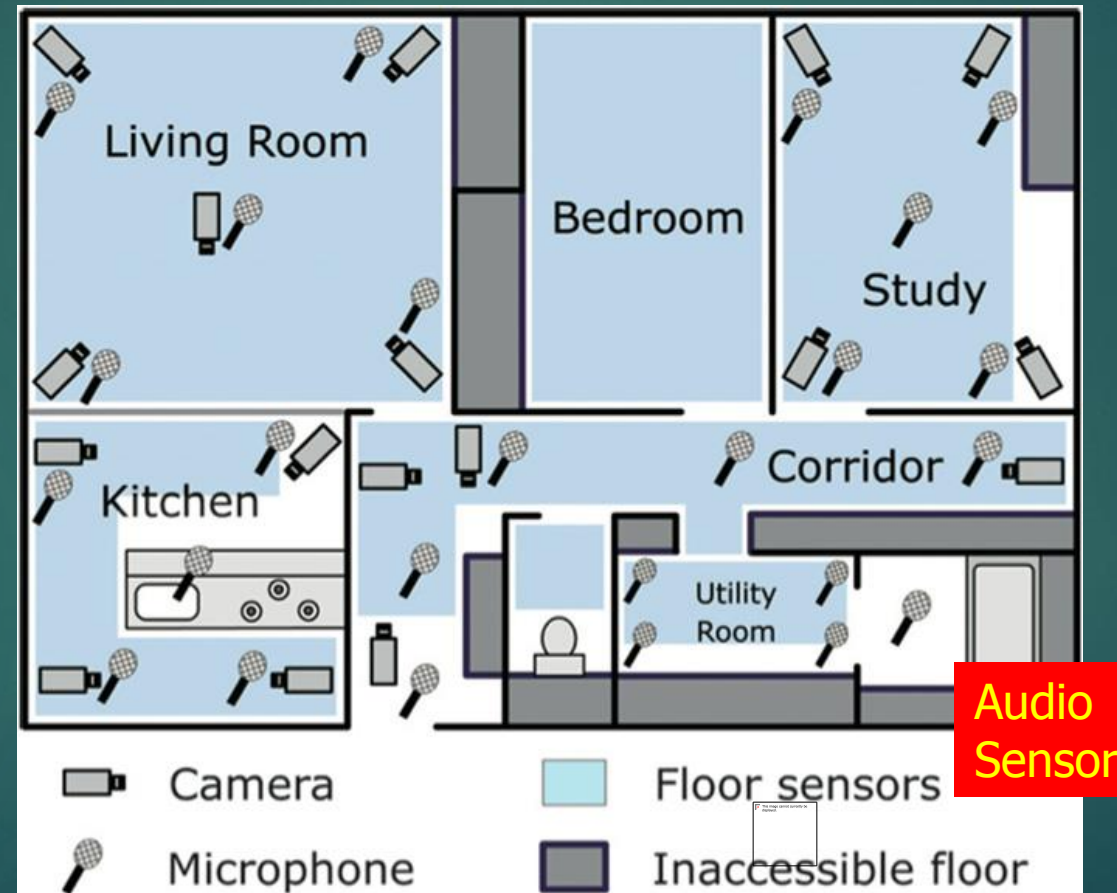


- ▶ Helps with the dispensing of medications to support elderly and home based needy patients.
- ▶ The flexibility and scalability of the design which supports extensions so that it could also be developed to be used in pharmacy environments. It increases the pharmacist's medicine counting efficiency and therefore reduces dispensing errors.



# Eldercare Facility

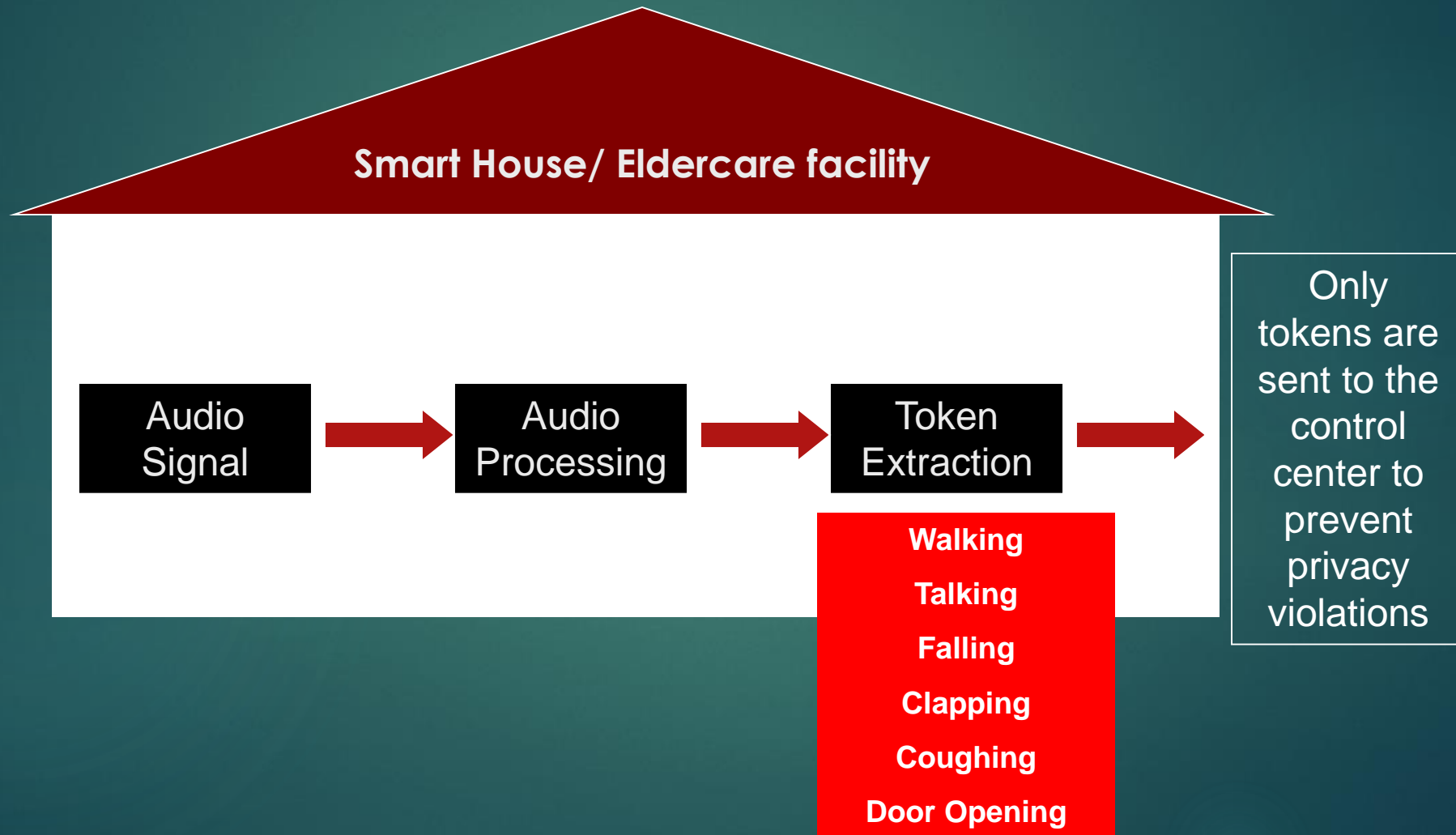
- ▶ A sample eldercare facility with a multiple of sensors



[Using Microphone for Bathroom Activity Monitoring](#)

# System Overview

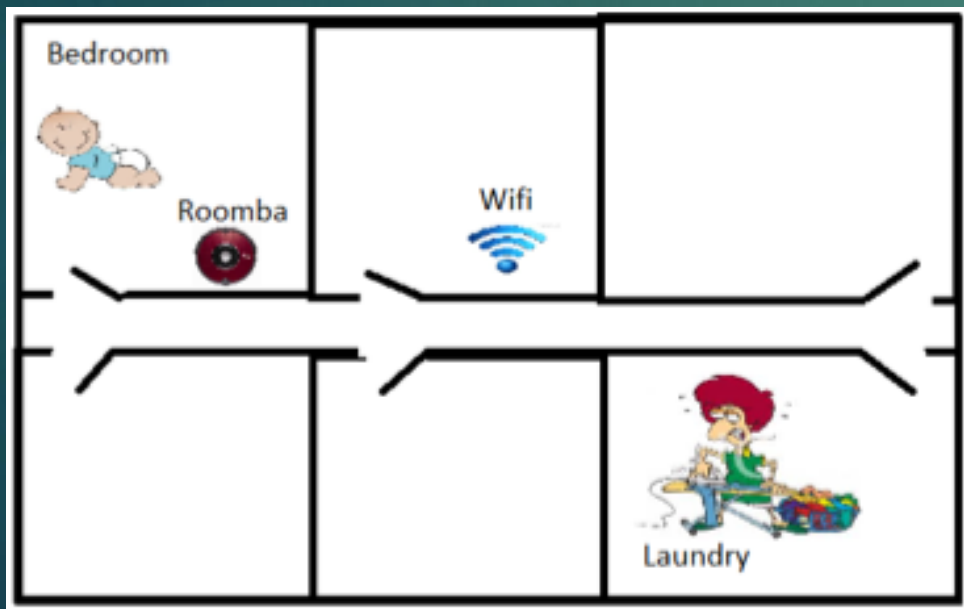
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# Background of the system

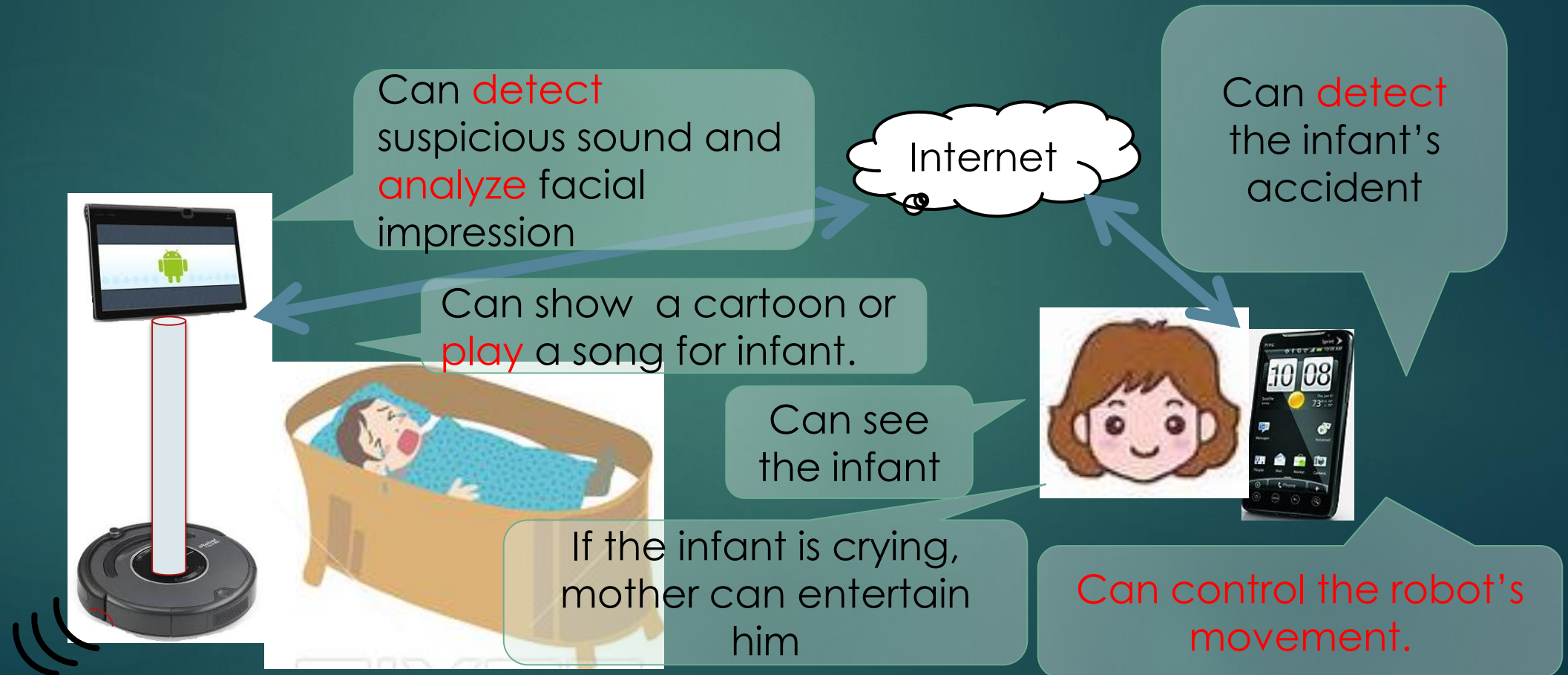
## In Brunei

- ▶ Big houses or houses with many rooms.
- ▶ One of parents(or maid) looks after their infants.
- ▶ Can't always stay with **them** in the same room.



# Service Overview

- ▶ This system will help the parent-child communication and protect the safety of the infant. Its function is implemented in Android and Roomba.



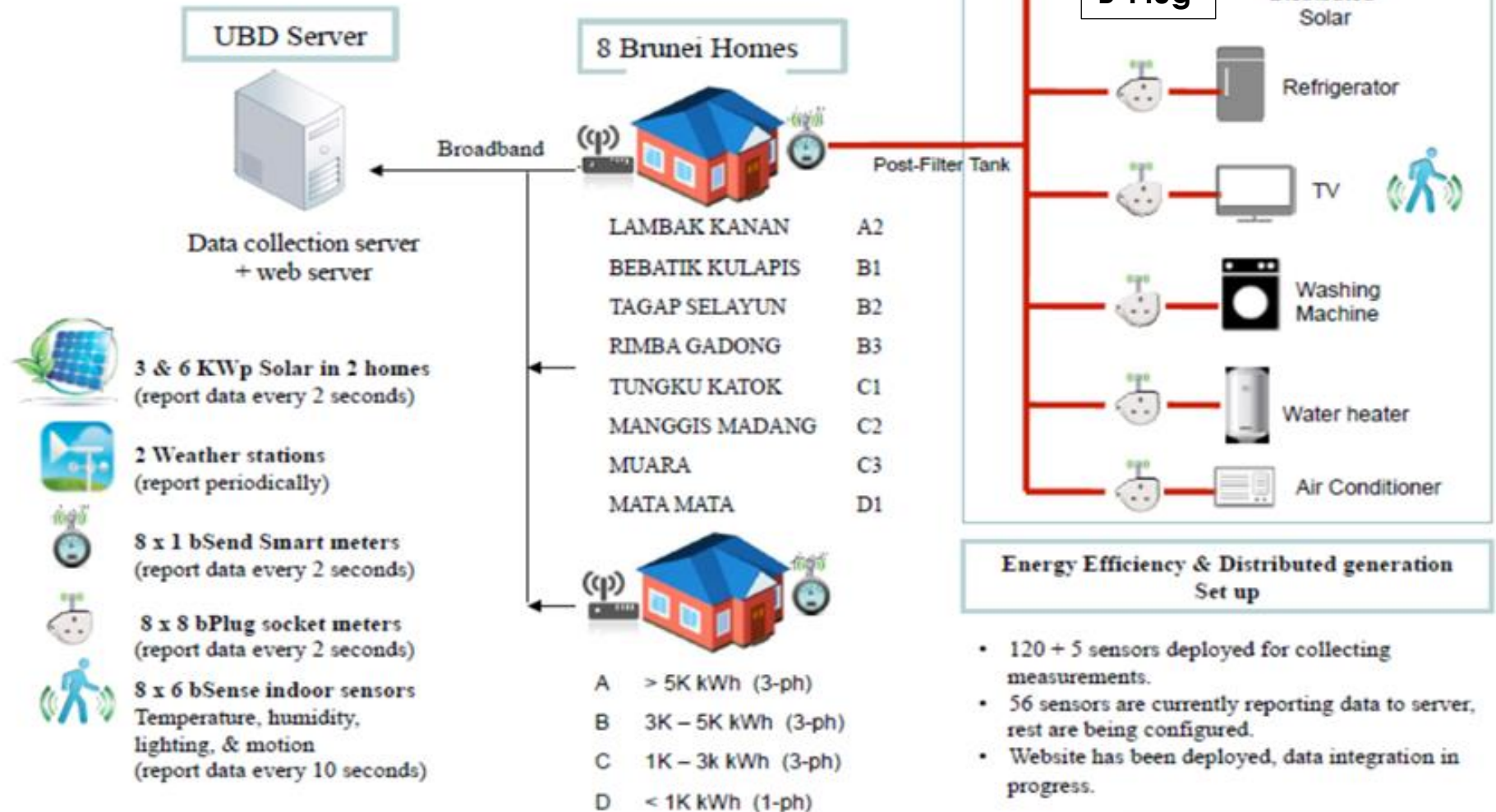


B-Plug



B-Sense

## CGFH: Instrumentation



# KESIMPULAN

- ▶ TEKNOLOGI INFO KOMUNIKASI (ICT) TONGGAK UTAMA RUMAH PINTAR
- ▶ ISU-ISU DAN IMPAK
  - ▶ PRIVASI
  - ▶ MENGALAKKAN PENGODAMMAN
  - ▶ KERAPATAN KEKELUARGAAN
  - ▶ KOS PERBELANJAAN
  - ▶ KOS PENYELENGARAAN
- ▶ PENYELIDIKAN INTENSIF MENANGANI ISU-ISU BERTERUSAN DI SELURUH DUNIA
- ▶ RUMAH PINTAR SETENTUNYA BERPOTENSI MENINGKATKAN QUALITI KEHIDUPAN MASYARAKAT