



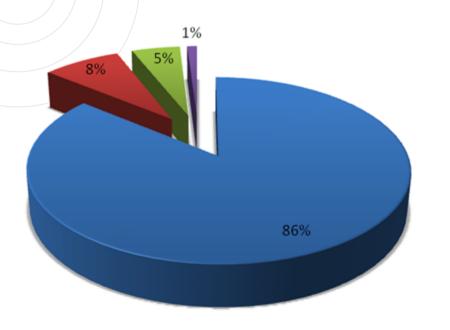
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Poultry Business In Indonesia



As a Moslem majority country, chicken and beef are the main choices

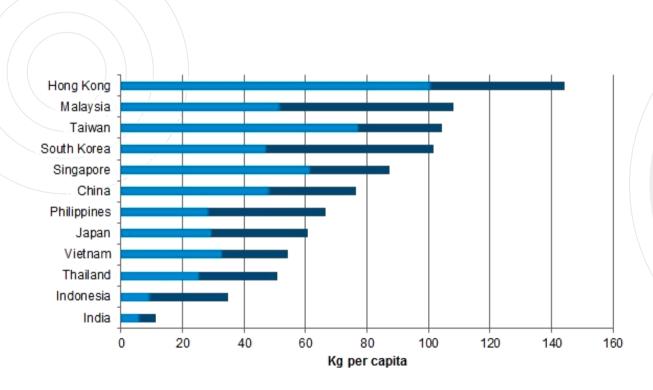
■ Poultry

■ Cattle

■ Swine

■ others

Prospect



Public consumption for chicken and beef in Indonesia are still low, especially in Southeast Asia, this is a business prospect since Indonesia is the 4th most populated country in the World

■Meat ■ Fish and Seafood

problems:

Indonesia is a maritime country (archipelago state)



problems:

we need to use many varieties of logistics fleets







Many varieties of logistics fleets means that we have to spend a lot of resources & policies (Strategy & Cost)

There isn't yet a national standard for Poultry transportation in Indonesia (SNI), to maintain cost and to control the quality of animal welfare

All About Poultry Logistics

What do we considered?

- ☐ Air Conditioning in container (Temperature & Humidity)
- ☐ Distance (from hatchery to farm)
- □ Delivery Lead time (duration of delivery)
- ☐ Truck Driver Ability (Safety Driving)
- □ Feeding treatment
- Population density in container
- □ Container Hygiene





What Must be controlled?

- √Air Temperature & Humidity controlling
- √Truck Position update & Time target
- √Safety driving monitoring
- √Hygiene, feeding treatment, & Population density in container

What do farmers depend of in present days?

- Reliable Logistics company?
- Driver honesty?
- A complex Standard Operation procedure?
- · Written Contract?

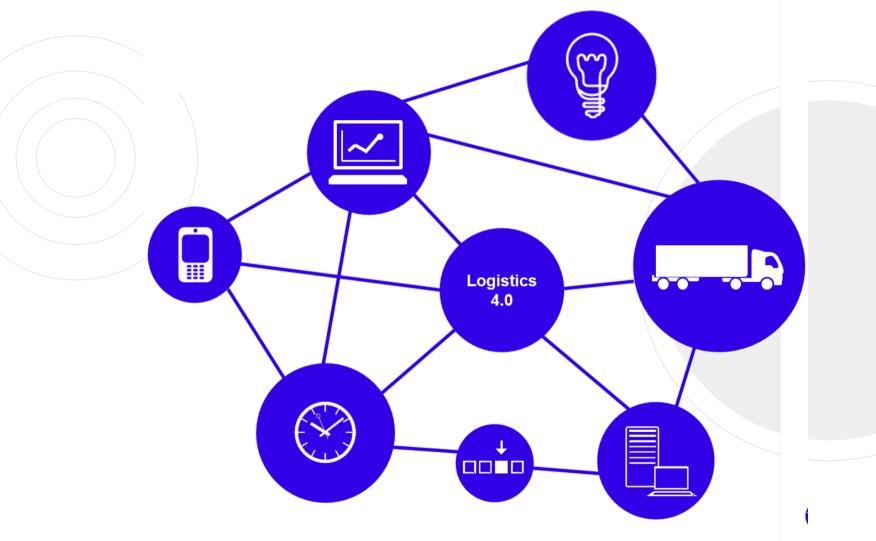
for how long we can survive from other people's standards?











What are The Advantages?

REAL – TIME DATA

information that is delivered immediately after collection. There is no delay in the timeliness of the information provided.

> COST Efficiency

IMMIDIATELY QUALITY CONTROL & EVALUATION

HUMAN ERROR



What do we need?

- Digital Technology
- Internet Of Things (IoT)
- Big Data Management & Analyzed











Air Temperature & Humidity monitoring in container

Microcontroller based RFId

Changing the raw condition temperatur & humidity data into digital signal and than send it to the control center & data management.



Control Center & Data Management

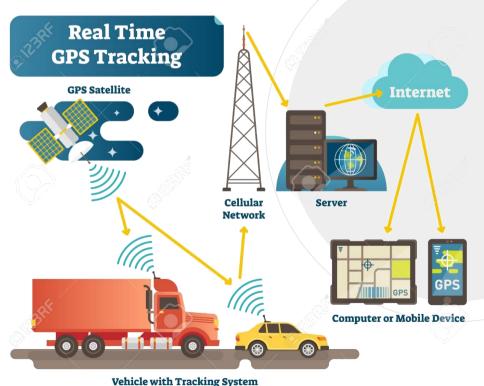
Receiving temperature & humidity data from microcontroller that was planted inside the truck container



Truck Positioning updater Real

GPS /Global Positioning System

uses a signal processor to receive low-power satellite signals and calculate positioning. It can then transmits that information either through a cellular network or a long-range system



Visual Control by real-time CCTV

Allows us to monitor:

Hygiene
Population density
Frequently Feeding
And ather treatment
on delivery period



Safety Driving monitoring











Speed Alarm Smart App Internet of Things

Data Management

VOLUME

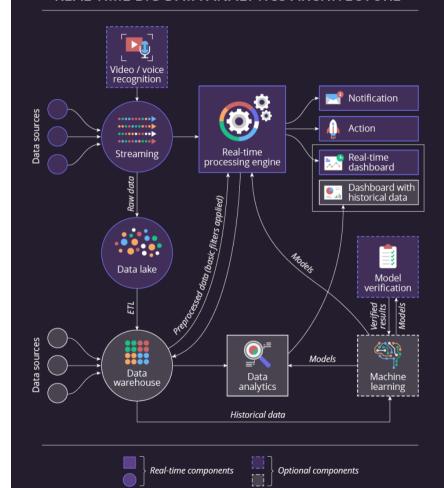
Huge amount of data



BIG DATA Management

- ✓ BIG DATA contains a big volume, variety, and high velocity of data.
- ✓ Big data analytics is the whole process of gathering, tidying, analyzing big data so that valuable information is obtained to help determine a decision or the sustainability of a system.
- ✓ It allows us to predict logistics strategic decisions from a group of massive data that came into the data management from digital recording transferred.

REAL-TIME BIG DATA ANALYTICS ARCHITECTURE



IT'S NO LONGER THE BIG BEATING THE SMALL, BUT THE FAST BEATING THE SLOW.

ERIC PEARSON, CIO, INTERNATIONAL HOTEL GROUP (IHG)

