

**HALAL SCIENCE CENTRE  
BOGOR AGRICULTURAL UNIVERSITY**



# BACKGROUND

- **The protection of Moslem consumers to avoid the use of haram products needs to be further improved, since material tracing studies have been more and more difficult due to advance production technology. In addition, most products are in the hand of nonMoslem that must be informed and controlled regarding the Halalness of products. The modern life has also brought human activities closely connected to each other across the country borders. Therefore, national Halal protection must be accompanied by international collaboration.**

## BACKGROUND

- **IPB has been initiated many activities regarding Halalness, such as: laboratory activities (analysis and research), and involving its staff to assist Halal inspection and certification by LP POM MUI.**
  - **IPB has established Halal Science Centre in 2008 to support halal inspection and certification processes based on valid laboratory analysis results, to establish research collaborations for developing detection methods of haram contaminants/materials, and to provide scientific informations regarding haram materials in national and international level.**
  - **International collaboration has been initiated between Malaysia, Indonesia, and Thailand governments ; IMT-GT (Indonesia Malaysia Thailand Growth Triangle) with many activities to develop capacity building in halalness.**

# VISION

**To be an international reference institution for Halal material/product studies based on Islamic law, including hard and soft sciences**

# MISSION

- To support the quality of Halal evaluation, especially based on scientific analysis
- To establish national and international laboratory and scientist collaboration regarding the halalness of materials/products
- To develop capacity building (human resources, instruments, infrastructures, information systems, researchs, methods, etc.) in dealing with the complexity of Halalness
- To establish mutual collaboration with industrial stake holders regarding the halalness of materials/products

# ACTIVITIES

- ❖ **Conducting methodology test, development, and standardization in Halal studies (the origin of materials, the presence/quantity of Haram contaminants, etc.)**
- ❖ **Establishing collaborative networking (academic, laboratory, and information) with other national and international organizations**
- ❖ **Providing scientific services regarding product Halalness to Halal certification body and Islamic organization**

- ❖ **Developing database regarding Halal products, haram contaminants or materials, as well as various Halal cases and their solutions.**
- ❖ **Facilitating academic activities in Halal studies for students and communities (scientist, business community, etc.)**
- ❖ **Providing academic assistance (workshop/course/training) in the implementation of Halal quality assurance (Halal-GMP/HrACCP) along with other organizations**

# LABORATORY ANALYSIS

- **Alcohol content (non fermented products)**
- **Pork-contaminated or contained products**  
**(DNA-based analyses, lipid-based analyses, ??)**
- **derivatives or extracts of haram materials**  
**of animal origin(???) or human body (???)**
- **Porcine-based synthetic products (???)**

**NOTE : The result of lab analyses is one of numbers of data and information considered by the council to declare halal or haram**

# Products of Pork origin

## Skin :

- Bag, shoes
- Cracker
- Gelatin

## Hair :

- Toot brush
- Paint brush

## Blood & serum :

- Medical use
- Media for fermentation
- Food ingredient/  
additive



## Bone :

- Gelatin
- Activated carbon

## Meat :

- Processed meat

## Fat :

- Seasoning
- Shortening
- Flavor agent
- Oil

## Stomach items :

- intestine
- pancreatic

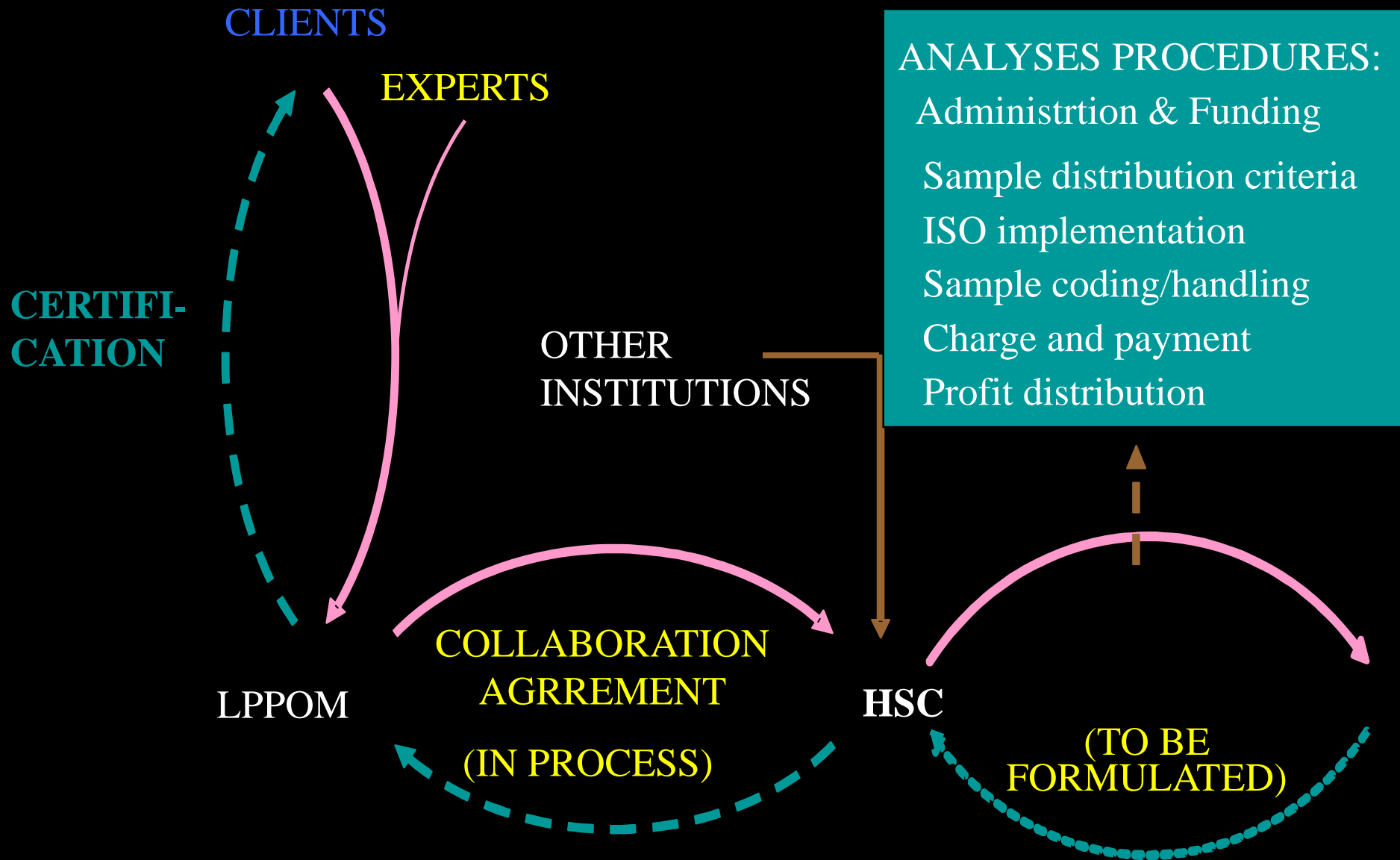
# Detection Method

- Protein
  - Electrophoresis
  - Immunoassay
  - Enzyme-linked immunosorbent assay (ELISA)
- Fat
  - Gas Chromatography
- DNA
  - DNA hybridization
  - Polymerase Chain Reaction (PCR)

# LABORATORY NETWORK IN INDONESIA

- to develop networking with related faculties in IPB, UGM, UNIBRAW, UNILA, UNAIR, UNJANI, USU, and other Univ, related laboratory of LIPI, BPPT, MoA, MoI, MoT, MoR, BPOM, LPPOM MUI
- to provide necessary information for halal certification through LPPOM MUI
- to facilitate research works for better and accurate techniques of analyses
- to conduct scientific research works on the effect of halal-based processing on the quality of products

# ANALYTICAL NETWORK COLLABORATION



# LABORATORY NETWORK

- **Standardized procedure of analyses**
- **Research collaboration to improve techniques of analyses**
  - **joint project proposal submitted to donors**
- **Exchange information on effective detection techniques**
- **Collaborative training**
- **Innovation of new detection techniques**

# PARTNERSHIP

- **Society (Clients and Donators)**
- **Related Departemen**
- **International Institution**
- **IPB**
- **LT IPB**
- **Other Independent Sources**

**Halal Science Center IPB is one of divisions in the Integrated Laboratory (LT) IPB . The placement of this division in LT IPB is due to the fhas been adopting and implementing international standart laboratory operating management system (ISO 17025) in product analysis for various clients and researches**

# AGENDA HSC-IPB 2009 ....

- **Laboratory training (October 2009)**

# PERSONALIA

## Director

**M. Anwar Nur**

## Executive Secretary

**Djarot SHS**

## Governing Board

**Anas M. Fauzi**

**Tun Tedja Irawadi**

**Zainal Alim Ma'sud**

**Irawadi Jamaran**

## Secretariat

**Dr. Nugraha Edhi S.**

(Research)

**Ir. Elvina A. Rahayu**

(Administration & Collaboration)

## Experts

**Zaenal Alim, PhD.** (material scientist)

**D. Mangunwidjaya, Prof., PhD** (processing technologist)

**Ronny R Noor, PhD** (animal scientist, molecular biologist)

**Muladno, PhD** (molecular biologist)

**Heni Nuraini, PhD** (animal scientist)

**Dahrul Syah, PhD** (food technologist)

**Mulyorini R. , PhD** (microbiologist)

**M. Romli, PhD** (health and environmentalist)

**Komar S., MSc.** (chemist)

**Djarot SHS, PhD** (biochemist)

**Hasyim, PhD** (veterinary scientist and religious references)

**M. Anwar Nur, Prof., PhD** (food scientists)

**Anas M. Fauzi, PhD** (microbiologist)

**Tun Tedja Irawadi, Prof., PhD** (material scientists)

**Irawadi Jamaran, PhD** (agroindustry technologist)

**Purwiyatno Hariyadi, PhD** (food technologist)

**Nugraha E. Suyatma, PhD** (food technologist)

**Feri Kusnandar, PhD** (Food Chemistry)

**THANK YOU**

