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Ministry of Agriculture
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Jakarta AIAT – Main Tasks

- 1. Inventory and identification of specific location agricultural technologies needs**
- 2. Research, assessment and technology packages provision of agricultural technologies specific location**
- 3. Technology dissemination (Multi Channel Dissemination)**



3 Topics in module 2 most useful

- 1. Vegetable value chain**
- 2. Food processing and nutritional quality of vegetables and fruits**
- 3. Packaging, packed and material**



Processing of Cabbage Waste to Support The Development of Sustainable Bioindustry-Agriculture in Jakarta

Syarifah Aminah, SP, M.Si

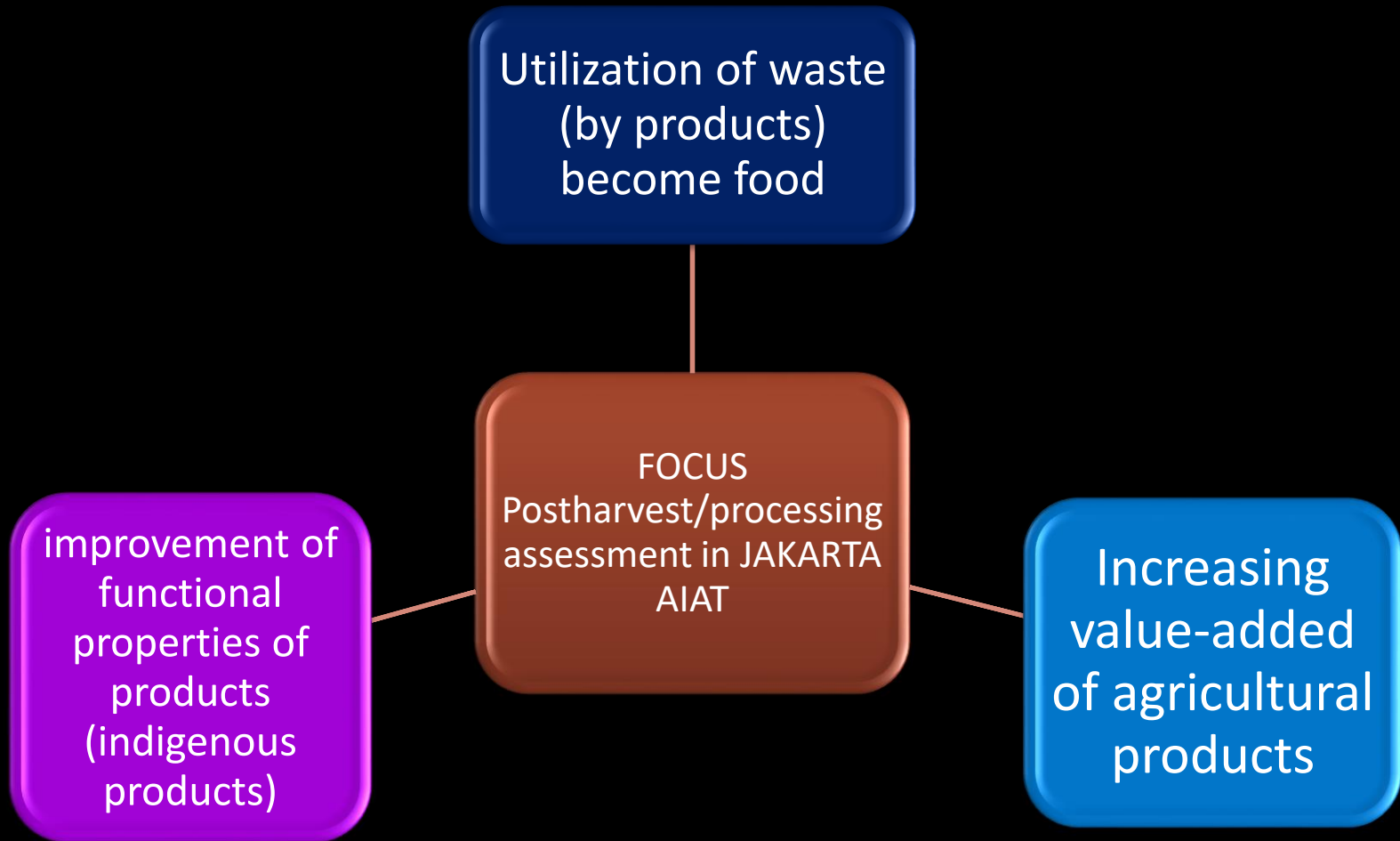
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Postharvest in Urban Agriculture



Introduction



- **Jakarta high demand of cabbage → 500 - 800 tons per week**
- **40% outer leaves of cabbage will be wasted**
- **Cabbage most produce waste, 10% of the total vegetables waste**
- **45-75 tons per week waste of cabbage leaves**





Cabbage

- **Nutrients** →
Carbohydrate, vitamins, and minerals, *dietary fiber*

Outer cabbage → potential as *source of fiber* for fortification in food



Objectives

- 1. To reduce the amount of waste vegetables**
- 2. Increase added value of cabbage waste through processing of outer leaves of cabbage to be a high-fiber powder as an ingredient in food fortification**
- 3. To provide business opportunities for women farmer groups**



Activities

Framework



Time and
place

- Pebruari – Desember 2016
- DKI Jakarta

The activities

- Preparation of activities
- Focus Discussion Group
- Processing of powder cabbage
- Apply to product
- Dissemination to stakeholder



Involved Personnel

- ◆ **Department of Agriculture and Food Security in Jakarta, sub Departement Region in Jakarta, extention worker, researcher, technicians, scientist**
- ◆ **Beneficiaries : women farmer group**



Detail Activities



- **Making powder of cabbage waste**
- **Packaging of powder**
- **Fortification in foods product.**



Challenges

- **Off-flavour of cabbage powder**
- **Unstable color of cabbage powder during storage**
- **Consumer acceptability of cabbage powder for fortification in food product**
- **Budget on postharvest research is limited**



Thank You

