Strengthening the Response to Food Crisis and Sustainable Agriculture in the Global and National Contexts:  
A Framework for Discussion  

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Presented at  
22 Maret 2011, Ruang Nusantara, Gedung Utama, Lt. 2, Kementerian Luar Negeri, Jakarta.  
Badan Pengkajian dan Pengembangan Kebijakan (BPPK) c.q. Pusat Pengkajian dan Pengembangan Kebijakan pada Organisasi Internasional (Pusat P2K-OI) Kementerian Luar Negeri  
bekerja sama dengan Indonesian Council on World Affairs (ICWA)  

Strengthening the Response to Food Crisis and Sustainable Agriculture in the Global and National Contexts:  
A Framework for Discussion  

Key Words for Discussions:  
• Response (strengthening)  
• Food Crisis  
• Sustainable Agriculture  
• Global and National Contexts
1. FOOD CRISIS

• What is Food Crisis?
• = Food Insecurity?

• FAO (1996): Food security exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life.

• Anything less than “food security” is “food insecurity”?

1. FOOD CRISIS
Food Security Aspects and Their Indicators

- Food availability
  - Quantity
  - Quality
  - Nutrition adequacy
  - Safety

- Accessibility
  - Physical, economic and social accessibility
  - Compliance to preferences
  - Compliance to food habit and culture
  - Compliance to belief and religion

- Consumption sufficiency
  - Intake sufficiency
  - Quality of household food processing
  - Quality of household sanitation and hygiene
  - Quality of water
  - Quality of child care

Stability/sustainability of food availability/supply, accessibility and consumption

Active and Healthy life of Individual
1. FOOD CRISIS

Food Security Indicators - INDONESIA

- CBS (BPS No. 38/07/Th. X, 2 Juli 2007)
  - Number of people under poverty line = 37,17 mio (16.58% of population).
  - Poverty line: earning of ≤ IDR 166,697 per cap per month → IDR 123,992 for food + IDR 42,704 for non-food.

- 3 x total poor population → vulnerable for micronutrient deficiency
  - Prevalence of Iron deficiency: 50.4% (SKRT 1995).

- Malnutrition and Micronutrient deficiency may cause:
  - Reduced cognitive potential
  - Increased maternal morbidity
  - Reduced nutritional status of newborn babies
  - Reduced productivity

The poor is the most vulnerable
(what is indicators of “poor” is essential)

- Most of most vulnerable → children (under five; or under two years old) and pregnant women
- Need “intervention” scheme for rescue → preventing the lost of generation
1. FOOD CRISIS
Food Security Indicators - INDONESIA

<table>
<thead>
<tr>
<th>Year</th>
<th>Severe</th>
<th>Mild</th>
<th>Malnutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1989</td>
<td>6.3</td>
<td>12.2</td>
<td>21.8</td>
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<tr>
<td>1992</td>
<td>18.3</td>
<td>20.0</td>
<td>29.5</td>
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<tr>
<td>1995</td>
<td>31.6</td>
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<td>1998</td>
<td>29.5</td>
<td>28.4</td>
<td>22.4</td>
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<td>2001</td>
<td>17.1</td>
<td>34.7</td>
<td>49.2</td>
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<tr>
<td>2003</td>
<td>18.9</td>
<td>30.3</td>
<td>50.8</td>
</tr>
<tr>
<td>2005</td>
<td>19.2</td>
<td>36.9</td>
<td>50.8</td>
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</table>

Active and Healthy life of Individual

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1. FOOD CRISIS
Food Security Indicators - INDONESIA

### Table 3.1
Persentase Balita menurut Status Gizi (BB/U) dan Provinsi, Riskesdas 2007

<table>
<thead>
<tr>
<th>Provinsi</th>
<th>Gizi buruk</th>
<th>Gizi kurang</th>
<th>Gizi baik</th>
<th>Gizi lebih</th>
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<tr>
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<tr>
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<td>24.2</td>
<td>64.4</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Indonesia          | 5.4        | 12.0        | 77.2      | 4.3        |

*BB/U: Berat Badan menurut Umur*
1. FOOD CRISIS

Food CRISIS Indicators ???????????

IF food crisis were defined as condition at which 20% of population of children under five years old suffer malnutrition

THEN Indonesia were in food crisis since 1989

IF food crisis were defined as condition at which 30% of population of children under five years old suffer malnutrition

THEN Indonesia were in food crisis in 1989-1996; BUT since 1999 Indonesia were not in food crisis, until NOW

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1. FOOD CRISIS

Food CRISIS Indicators ????????????

IF food crisis were defined as condition at which 40% of population of children under five years old suffer malnutrition
THEN Indonesia were not in food crisis since 1989

Active and Healthy life of Individual

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1. FOOD CRISIS

Food CRISIS Indicators ???????????

Are we now in food crisis situation??

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1. FOOD CRISIS

Food CRISIS Indicators ???????????

We don’t know! Simply because we have not defined what is “Food Crisis”

We need to define

- What is FOOD CRISIS
- Who to declare FOOD CRISIS?
- When are we going to declare FOOD CRISIS?
  (When to response to FOOD CRISIS?)
- What response to FOOD CRISIS
  (Response to Crisis → should be business as usual → Need extraordinary measure to rescue the potential lost generation)
2. SUSTAINABLE AGRICULTURE

→ Providing better value of foods

Role of Food Entrepreneurship:
- Industrialization of local-based food diversification
- Empowerment of Micro- and Small Food Enterprises
  - Empowerment of local food cultures
2. SUSTAINABLE AGRICULTURE

→ Providing better value of foods

Value of Food = \[ A \times \frac{X}{Y} \]

Sustainable Agriculture should be able to providing better value of foods to feed all human being:

- As healthy as possible → to reach Individual with active and healthy life,
- With as little damage to nature as possible,
- In ways that enhance individual and communal life, and
- Ensure that future generations can feed themselves

Thank you