

# IFA INTERNATIONAL WORKSHOP on Effective Last-Mile Delivery


10-12 February 2010, New Delhi, India

## EFFECTIVE LAST-MILE DELIVERY

Kim Sing TEH  
Syngenta, Singapore





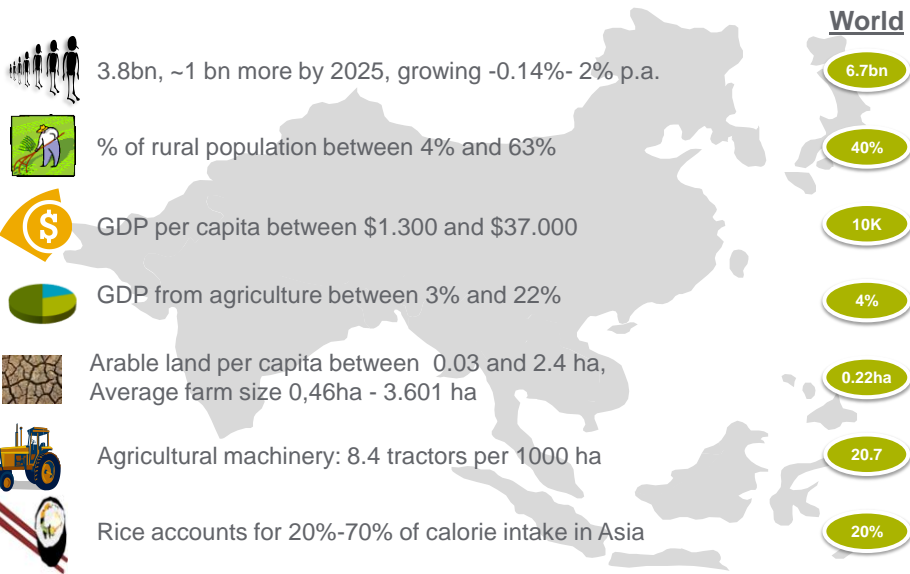










**syngenta**

## Effective Last-Mile Delivery

KS Teh Syngenta Singapore IFA Workshop – Feb10, 2010

### APAC market – a snap shot



| APAC Market Data   | World Data  |
|--|---|
|  <p>3.8bn, ~1 bn more by 2025, growing -0.14%- 2% p.a.</p>                                      |  <p><b>World</b><br/>6.7bn</p> |
|  <p>% of rural population between 4% and 63%</p>  | <p>40%</p>  |
|  <p>GDP per capita between \$1.300 and \$37.000</p>   | <p>10K</p>  |
|  <p>GDP from agriculture between 3% and 22%</p>   | <p>4%</p>   |
|  <p>Arable land per capita between 0.03 and 2.4 ha,<br/>Average farm size 0,46ha - 3.601 ha</p> | <p>0.22ha</p>   |
|  <p>Agricultural machinery: 8.4 tractors per 1000 ha</p>  | <p>20.7</p>   |
|  <p>Rice accounts for 20%-70% of calorie intake in Asia</p>                                     | <p>20%</p>  |

**syngenta**

2

## Need for change



### Conserving Biodiversity

Our food supply is dependent on the rich variety of plants and animals

- Biodiversity is at the heart of agriculture, it is the origin of all crops and is the variety within them.
- Conserving crop diversity is vital for global food security
- Farm management systems that foster ecosystem health are essential



### Water efficiency

Agriculture consumes 70% of fresh water but without it we cannot have food security

- Productivity is determined by availability of rain and fresh water to irrigate crops
- With a changing climate, 1.8 billion could be living in regions of water scarcity by 2025
- Finding ways to use water efficiently are essential

## We have to grow more from less

### Broader Access to Technology

Technology is available, but many governments make it hard for farmer's to access it



- World population will increase by 2 billion by 2050; 50% more food needed
- The politicization of agricultural policy is causing a crisis of governance, in both the developed and developing world

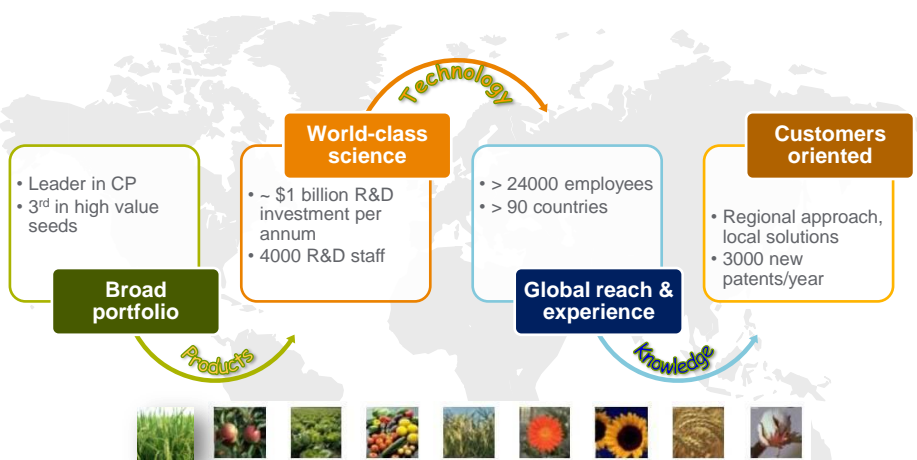
### Resourceful land use

There is no inexhaustible supply

- In 1960, 1 hectare of land could feed 2 people; by 2025, the same amount of land must feed five people
- It is estimated there is only 50-10% more land available for farming without impeding on sensitive habitats



## SYNGENTA



Only sustainable approach is  
To unlock the potential of plants through innovation

