

FUTURE OF AGRICULTURE

HR and Policy Needs for a Better Management

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Outline

- ❖ **How do we see future agriculture?**
- ❖ **HR needs**
- ❖ **Policy needs**
- ❖ **Strategy to meet emerging needs**

Science will rule future agriculture

MOTTO

- ▶ **Science should lead to Development, but not Destruction**
- ▶ **Innovations should lead to improvements in the lives of farmers**

How do we see future agriculture?

Food-Surplus World

- ▶ **Innovative technology-intensive**
- ▶ **Highly knowledge-intensive**
- ▶ **Very complex-strategy**
- ▶ **Much more corporate farming (specialized)**
- ▶ **Farmers' reluctances to be in farming**
- ▶ **More demands for more support from government**

How do we see future agriculture?

World with Self-Sufficiency in Food

- **Technology-intensive**
- **Knowledge-intensive**
- **Consolidation of land-holdings**
- **Increasing dependency on external sources for technology**
- **Complex goals**
- **Farmers' reluctances**

How do we see future agriculture?

Food-deficit world

- ✓ **Low productivity**
- ✓ **Corporate-mode**
- ✓ **Continuing external dependency for technology & knowledge**
- ✓ **Continuing food shortage, if same policy persists**
- ✓ **Malnutrition / poverty**

HR & policy needs to meet future agriculture

Food-surplus economies

- **Skill in technology management**
- **Robot-based farming**
- **Remote controlled machinery management**
- **Market management**
- **Increasing IT use**
- **Trade management**
- **NRM management**

HR & policy needs to meet future agriculture

Economies with self sufficiency in food:

- **Skill and knowledge in innovative technology development**
- **Skill in strategic policy management**
- **Market-management**
- **Trade management**
- **Value-addition management**
- **Integrated approach in policy for rural sector**
- **Institutional innovation**

HR & policy needs to meet future agriculture

Food-deficit economies

- **Skill in modern farming**
- **Capacity to use NRs for food production**
- **Skill and knowledge in technological innovation**
- **Capacity in domestic policy design**

Strategy for future agriculture

Food-surplus economies

- ✓ **Surplus management**
- ✓ **More and more domestic support to retain a few left-over people in farming**
- ✓ **Exploring alternative uses of farm-produce**

Strategy for future agriculture

Economies with self-sufficiency in food

- ✓ **Huge public investment in agricultural R&D**
- ✓ **Innovative HR policy for agricultural R & D system**
- ✓ **Strong national policy support**
- ✓ **Rural-income diversification-transformation of agri-based rural economy**
- ✓ **Institutional innovation**
- ✓ **Strong policy analysis and strategic research system**

Strategy for future agriculture

Food-deficit economies:

- ✓ **Strengthen NARS system**
- ✓ **Strengthen agricultural education**
- ✓ **Empowerment of farmers in use of technology & NRs**
- ✓ **Empowerment of policymakers for policy support**
- ✓ **Policy research system**

What we offer?

- ✓ **ANGRAU-Started Foreign Students program**
- ✓ **Offers commercialisation of technologies through PPP with benefit-sharing mechanism**
- ✓ **Collaborations—CG Centres, Universities, advanced R&D institutions**
- ✓ **Offers training to developing country professionals**

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THANK YOU

