# A Pathway to Shared-Prosperity

- Development Aid through Science & Technology -



**Kum Dongwha** 

**President Vietnam-Korea Institute of Science & Technology** 

# **New Southern Policy**



# · LỄ ĐỘNG THỔ

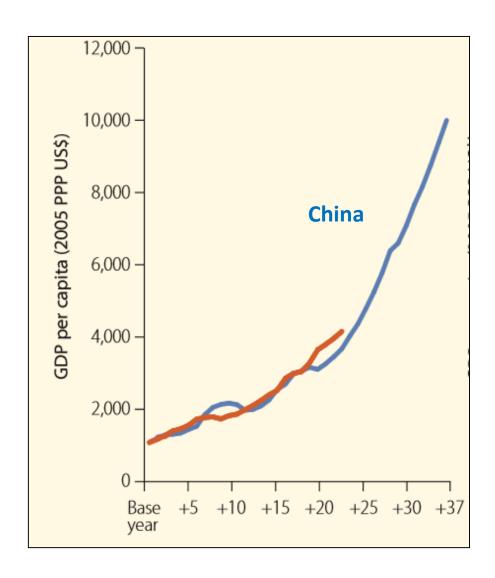
XÂY DỰNG VIỆN KHOA HỌC VÀ CÔNG NGHỆ VIỆT NAM - HÀN QUỐC THO 가 하기술연구원 착공식



## VKIST Project at a Glance

- Mission: Leading institute in research on applied science and development of advanced technologies fused with sustainable economic advancement.
- ❖ Established based on the Agreement between Governments of the Socialist Republic of Vietnam and the Republic of Korea
- ❖ Location : Hoa Lac Hi-Tech Park, Ha Noi (Area: 196,913m²)
- ❖ Budget : \$70M (\$35M by Korea + \$35M by Vietnam)
- ❖ Period : 2014 ~ 2020 (extended two years)
- **❖** Construction Plan:
  - Building(79,512m<sup>2</sup>): Labs(3), Administration(1) & Utility Plant(1)

## Vietnam, post-China?



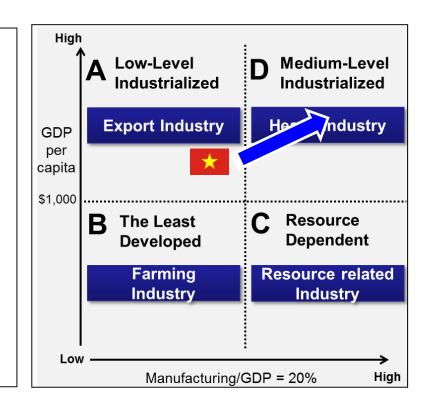
The Economist (September 7, 2016)

Vietnam is poised to become Asia's next economic tiger.
Like Korea, Taiwan and China before it, Vietnam is piecing together the right mix for rapid and sustained growth.

### Vietnam on a Development Ladder

#### Lower middle-income country

- GDP per capita of \$2,343 with 6.9% growth rate(2017)
- Trade volume of \$425B with \$2.7B surplus (2017)
- **❖** Low-level Industrialization Economy
  - Manufacturing in GDP: 15.3%(2017)

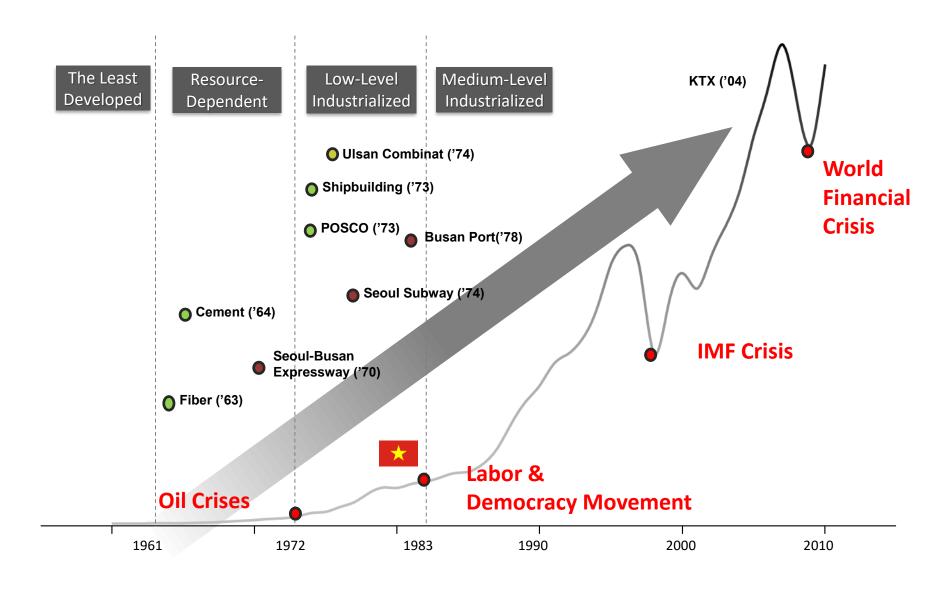


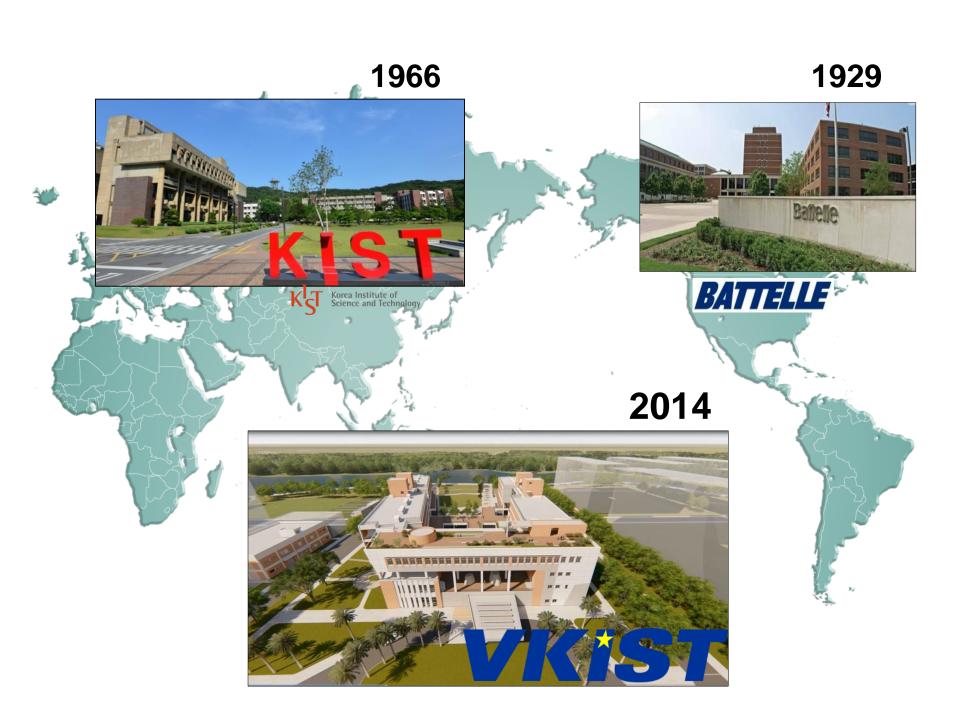
# Why Korea?

&

Why KIST?

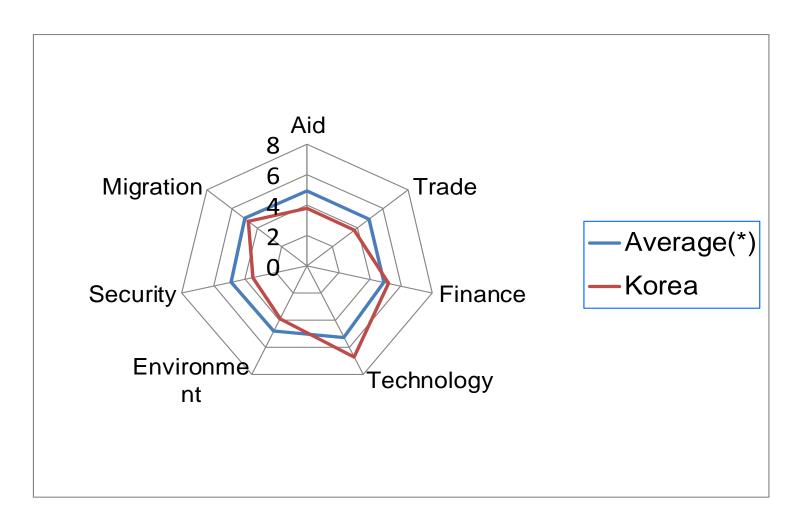
# Korean path to a world economy





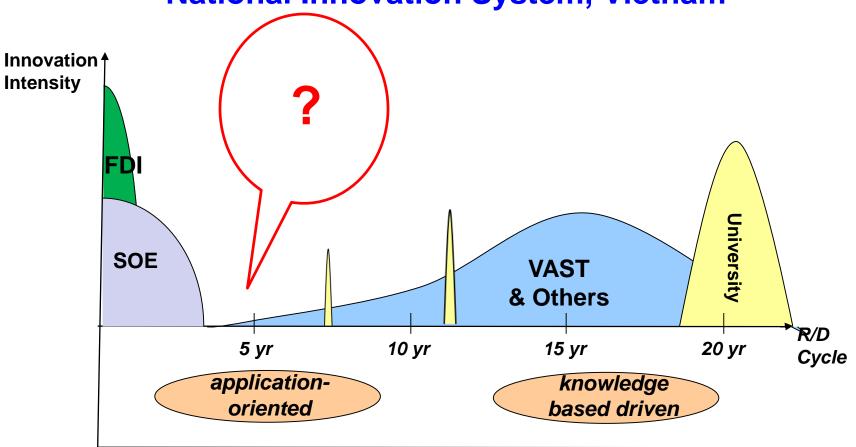
### **Quality of Korean ODA**

- Commitment to Development Index -

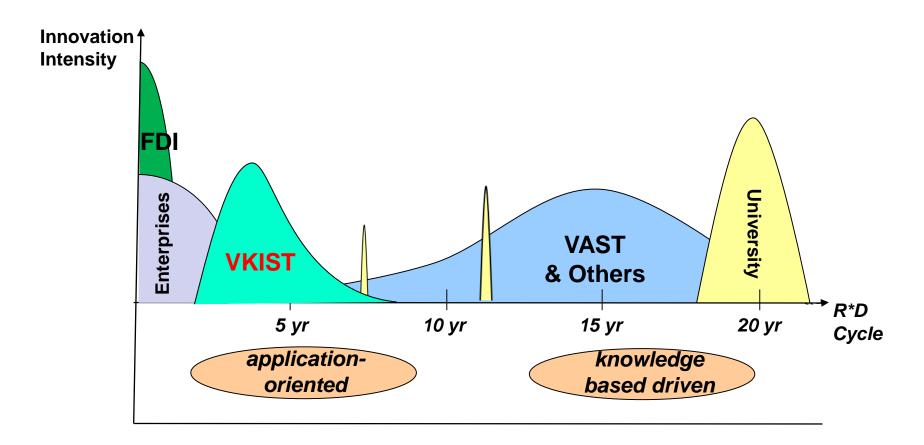


#### Promotion of Industrial R/D





### **Position of VKIST on NIS**



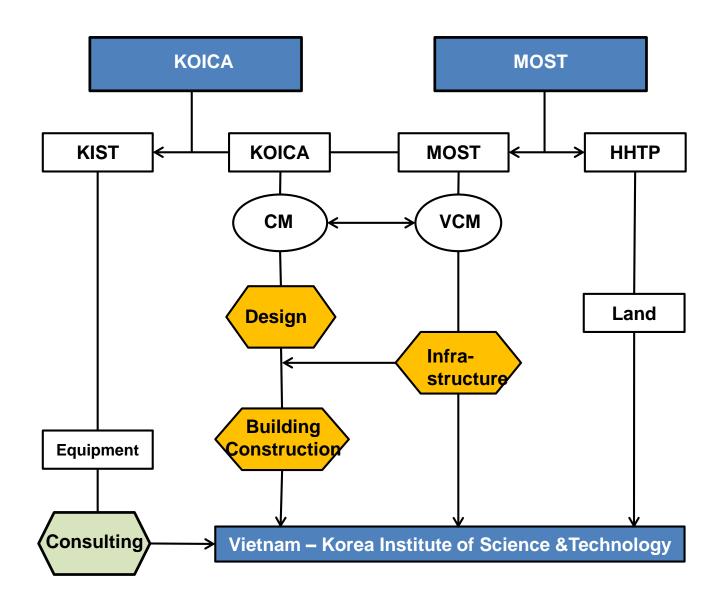
Technology solution provider for market winners!

# **Identity of VKIST**

- Decree No. 50/2015/ND-CP -

- Public ST agency under MOST
- R&D institute of industrial technology
- Contract R&D institute
- Financial autonomy

# **ODA Project: Job Sharing**



# **Priority R&D fields**

## Information Technology

- Electronic/optical parts & devices
- Telecommunication technology
- S/W development

## **Bio-technology**

- Aqua culturing & Food processing
- Post-harvest processing & machinery
- Medicinal herb & Pharmaceuticals
- Medical devices



## Example 1: polyscias fruticosa

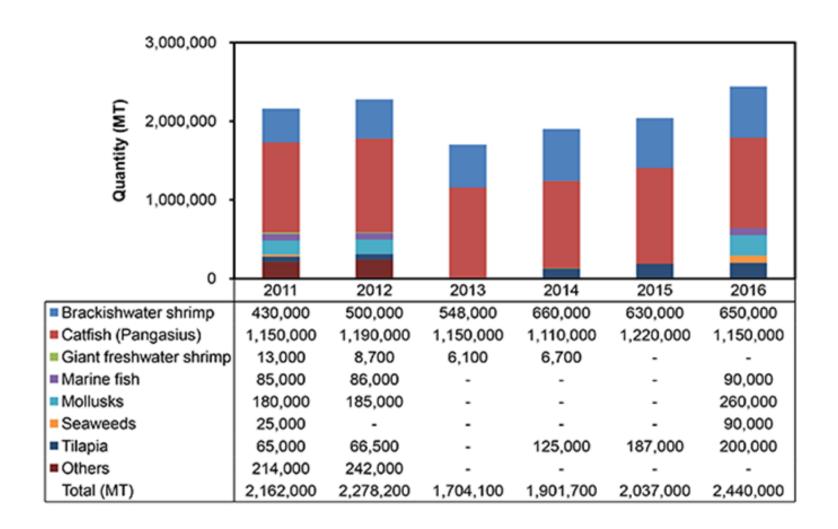




#### MOST – MIST project (plan)

- Company: Traphaco
- Contents: discover cellular effects of polyscias
- Needs: correct composition for efficacy study
- VKIST: provide chemical analysis
   on demand data through KIST

#### Made in Vietnam – Catfish white fillet



# **Example 2: Aquaculture of Catfish**



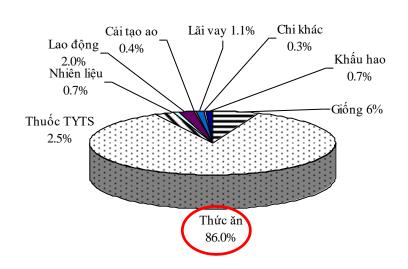
Vietnamese Catfish pangasius Family

American Catfish ictaluridae Family



# **Challenges – Aquaculture**

Farming cost



#### **Byproducts**

Body of Pangasius	Amount (%)
Fillet	33.9
Head + backbone	40.4
Scraped meat from skin and other parts	11.7
skin	4.4
Fast separated from anterior and belly	2.2
Swim bladder	0.9
Vicera and stomach	4.6
Kidney	0.2
Blood	1.7

## Value of the VKIST Project

#### Shared-prosperity through Footprints of KIST



Build ST Capacity & Speed up Industrialization



Get a Sustainable Partner & Raise National Brand in ST

# **Concluding Remarks**



**Greenfield ODA** 

Next priming water for capacity building of manufacturing

