

# **Production Structure of Pharmaceuticals (1)**

- Upstream Industry : Research and Development for new drugs**
- Intermediate Industry : Production of Active Ingredient**
- Downstream Industry : Formulation and Production of Finished Medicines**



# Production Structure of Pharmaceuticals

- ❑ 174 Pharmaceutical Manufactures in Thailand.
- ❑ Mostly are in Downstream Industry.
- ❑ Small No. of Intermediate Industry Manufactures.
- ❑ Most are joint venture with foreign partners



# Investment Structure (1)

<b>Factory Name</b>	<b>Production</b>	<b>Total Investment (Million US\$)</b>
<b>Center for Anthrax</b>	<b>Vaccine for Anthrax</b>	<b>62.5</b>
<b>Rohn-Pulang Industry</b>	<b>Modern Medicine</b>	<b>43.4</b>
<b>Thai Meji Pharmaceutical</b>	<b>Antibiotic</b>	<b>21.7</b>
<b>Thai Pharmaceutical Organization</b>	<b>Modern Medicine</b>	<b>16.0</b>



## Investment Structure (2)

Factory Name	Production	Total Investment (Million US\$)
Iric (Thailand)	Modern Medicine & Supplementary food	15.8
Graso Welcome	Modern Medicine	13.6
Dumax Limited	Modern Medicine	10.7
L.P	Modern Medicine and Cosmetic Products	8.4
T.P Drug Laboratory (1969)	Modern Medicine	5.4



# Investment Structure (3)

<b>Factory Name</b>	<b>Production</b>	<b>Total Investment (Million US\$)</b>
<b>General Hospital Product</b>	<b>Modern Medicine</b>	<b>4.75</b>
<b>A.N.B Laboratory</b>	<b>Modern Medicine</b>	<b>3.75</b>
<b>Inter Thai Pharmaceutical</b>	<b>Modern Medicine</b>	<b>3.4</b>
<b>Cherring Chemical</b>	<b>Modern Medicine</b>	<b>3.25</b>
<b>Booth Manufacturing (Thailand)</b>	<b>Modern Medicine</b>	<b>3.2</b>



# Investment Structure (4)

Company Name	Production	Total Investment (Million US\$)
Charnkit Pharmaceutical	Modern Medicine	2.7
Big Bite Development	Modern Medicine (Tablet, liquid and injection form)	2.3
Atlantic	Modern Medicine	2.2
Others		89.1
<b>Total</b>		<b>367.2</b>



# Pharmaceutical Product Promotion

Manufacture of pharmaceutical products or active ingredients in pharmaceutical products

- **Tax Incentives**

- Import duty on machinery and raw materials

- Corporate income tax holidays

- Zone 1            5 years

- Zone 2            6 years (outside IE) , 7 years (inside IE)

- Zone 3            8 years

Must Obtain GMP (PIC/S) within 2 years from the start-up date of the new plant.



# Strategic Direction

**Value Added & Value Creation**

**Vaccine : Influenza Vaccine**

**Herbal Drug : Anti Virus**

**Common Drug : Cholesterol Reduction**

**Herbal Supplementary Products**