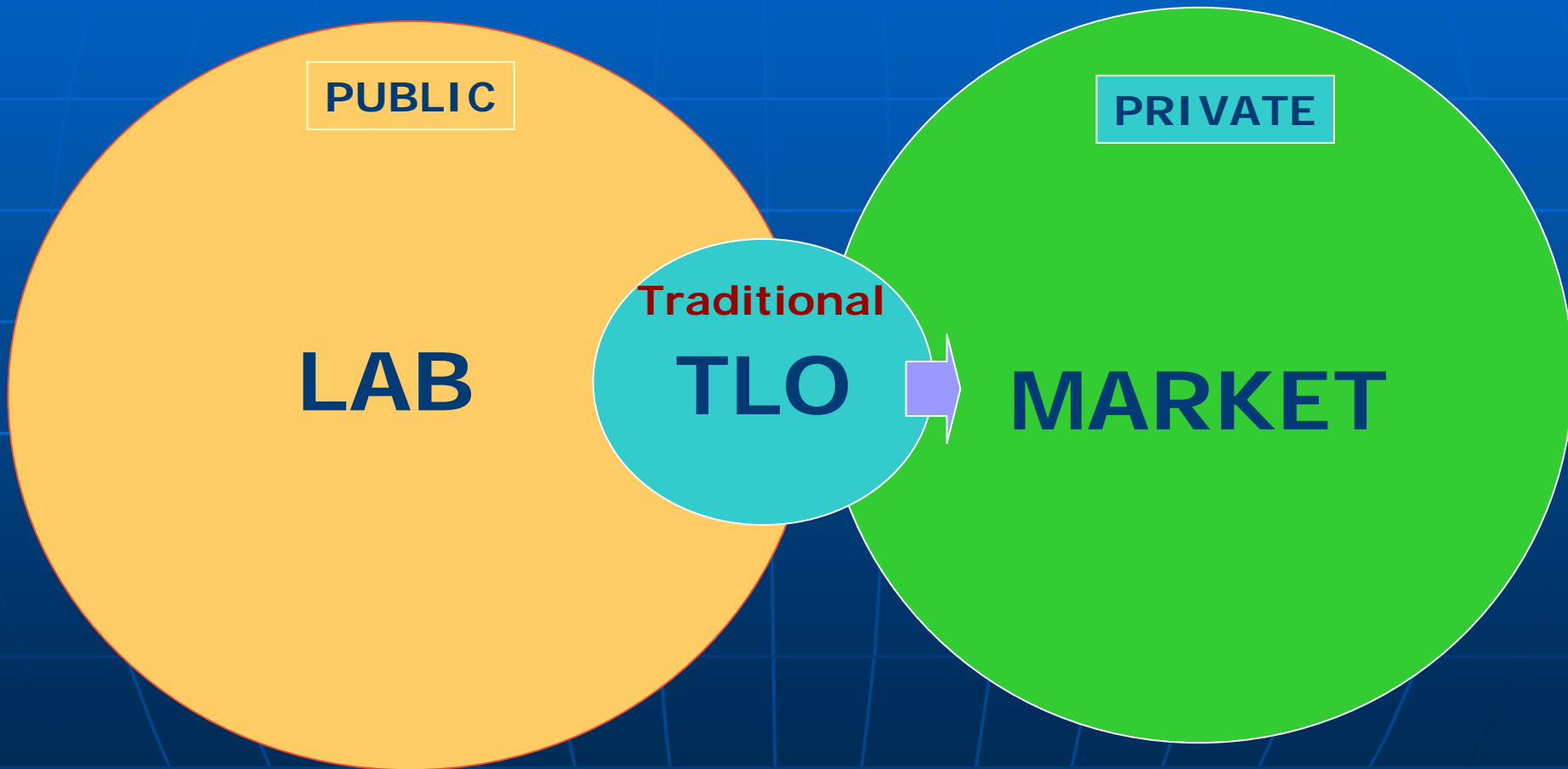


# **A HOLISTIC APPROACH TO TECHNOLOGY LICENSING IN THAILAND**

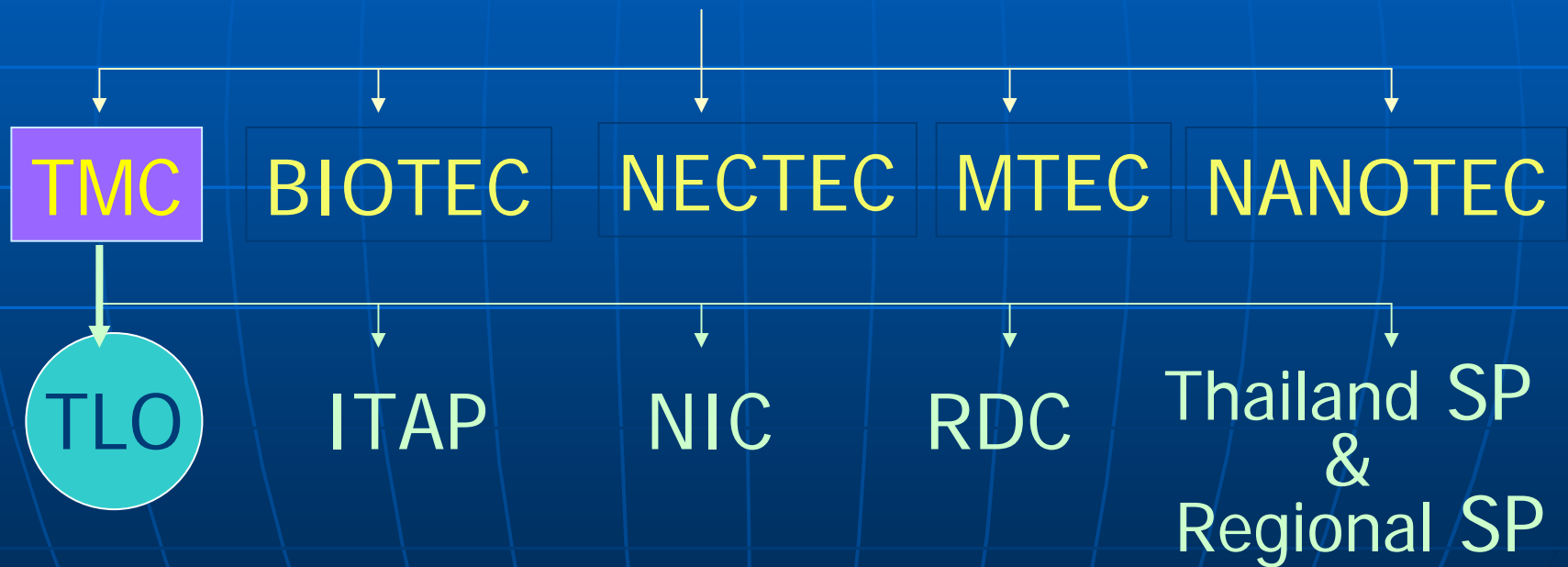
Kitisri Sukhapinda  
Asian Science And Technology Seminar  
Bangkok, Thailand

March 20, 2006

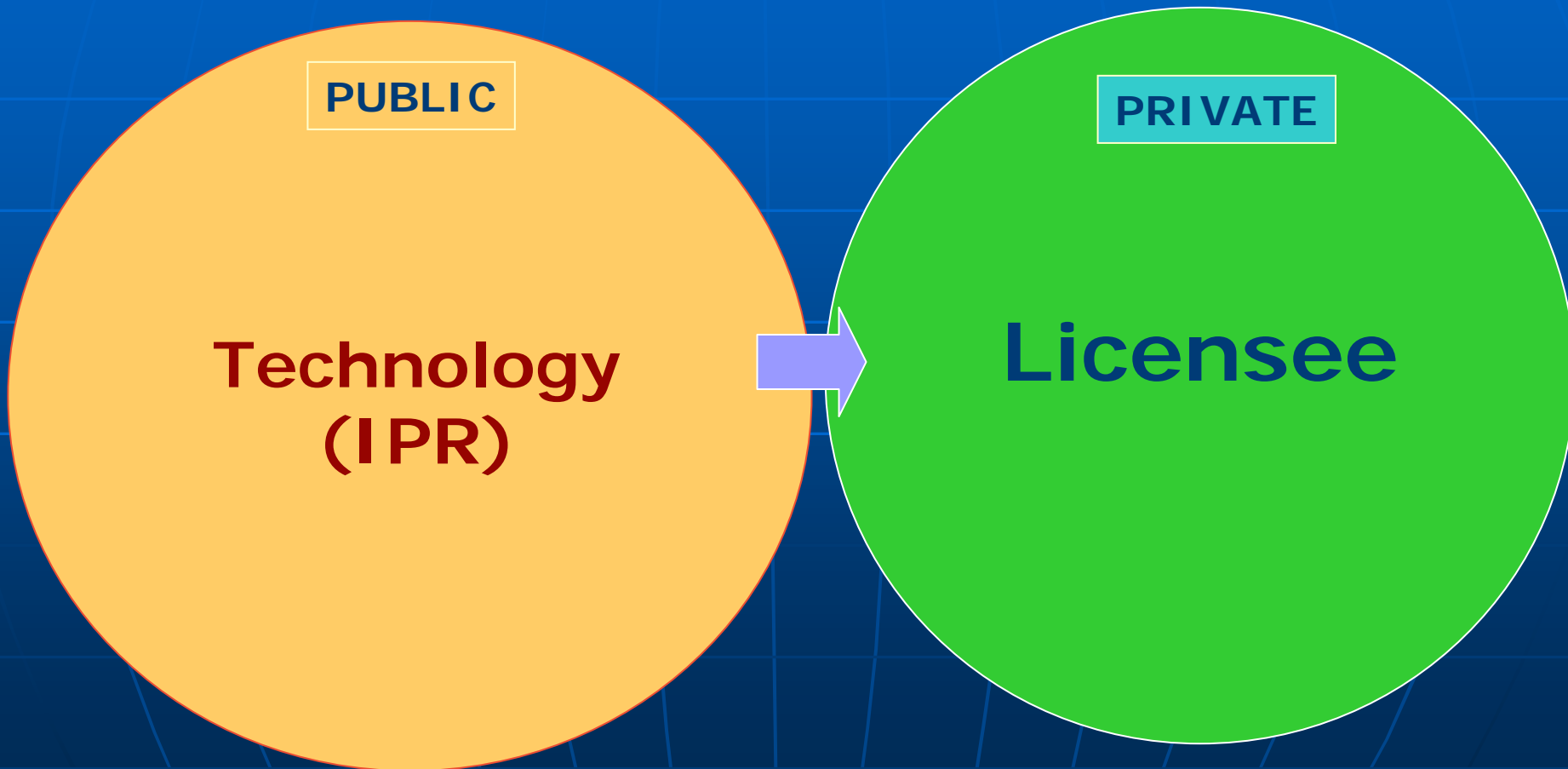
# PUBLIC-PRIVATE LINKAGE



# NATIONAL SCIENCE AND TECHNOLOGY DEVELOPMENT AGENCY (NSTDA)



# Our Main Role



# INFLUENCING FACTORS

IP Environment

Governmental  
Policy

Research

Economic Environment

NSTDA  
TLO

HOLISTIC  
APPROACH

# IP Environment

- U.S. Constitution (1787)

"Art. 1, Sec. 8. The Congress shall have power . . . To promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries . . ."

- The patent law is Title 35 of the United States Code (1953)

# IP Environment

## Thai IP Laws

- ❑ Patent Law (1979, 1992, 1999)
- ❑ Trademark Law (1991, 2000)
- ❑ Copyright Law, (1994)
- ❑ Layout-Design of Integrated Circuit Law (2000)
- ❑ Trade Secret Law (2002)
- ❑ Geographic Indicator Protection Law (2003)

# IP Environment

**Thailand is  
Member of :**

- **WIPO Convention**
- **Berne Convention**
- **TRIPS Agreement**

**Thailand is  
not Member of:**

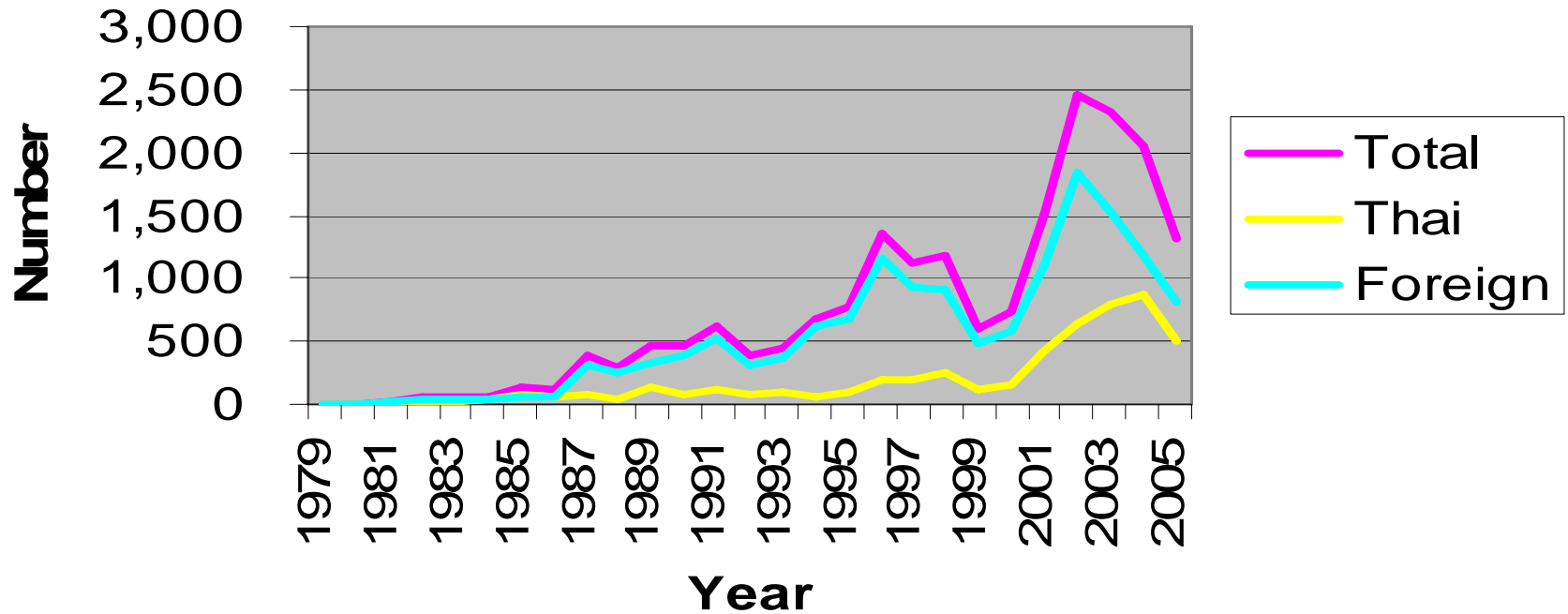
- **Paris Convention**
- **Patent  
Cooperation  
Treaty (PCT)**



# IP Environment

## Thai Statistics

### No. Patent Granted



# Governmental Policy

## Objectives:

- Improve SMEs' income and self-reliance
- Reduce imported technology
- Increase export
- Increase global competitiveness
- Towards knowledge-based society

# Governmental Policy

## Trend:

- Better IP protection and enforcement
  - improving patent examination process (DIP)
- More incentive programs for new businesses (BOI)
- More investment funding for business start ups (G-investment firm)

## Economic Environment

- 850,000 enterprises.
- 99.7 % are SMEs (fewer than 200 workers).
- 40 % unregistered firms.
- 50% of workers are employed by SMEs
- SMEs are keys to Thai export and national income
- SMEs are important for income and prosperity distribution to remote regions

# Research

## NSTDA:

- Biotechnology: food, agriculture, health
- Metals & materials: ceramics, polymers, mechanical devices, etc.
- Electronics & software
- Nanotechnology
- Solar cell technology

# "HOLISTIC"

= relating to or concerned with  
wholes or with complete systems

# HOLISTIC APPROACH

- Promote IP awareness and understanding to public and private sectors
- Bring the market to the lab
- Manage IP for NSTDA
- Match technology with business
- Build client's capabilities
- Maintain balance: public service v income generation

# Promote IP awareness and understanding

- Training program for researchers
- Joint training program for public
- Provide consultation and services in filing IP application to SME's  
Individuals



# Manage IP for NSTDA

- IP Management Policy
- IP application Prosecution
- IP database management

# Bring the market to the lab

- Thailand Science Park
- Researchers meet business people
- Market research before initiating technology research

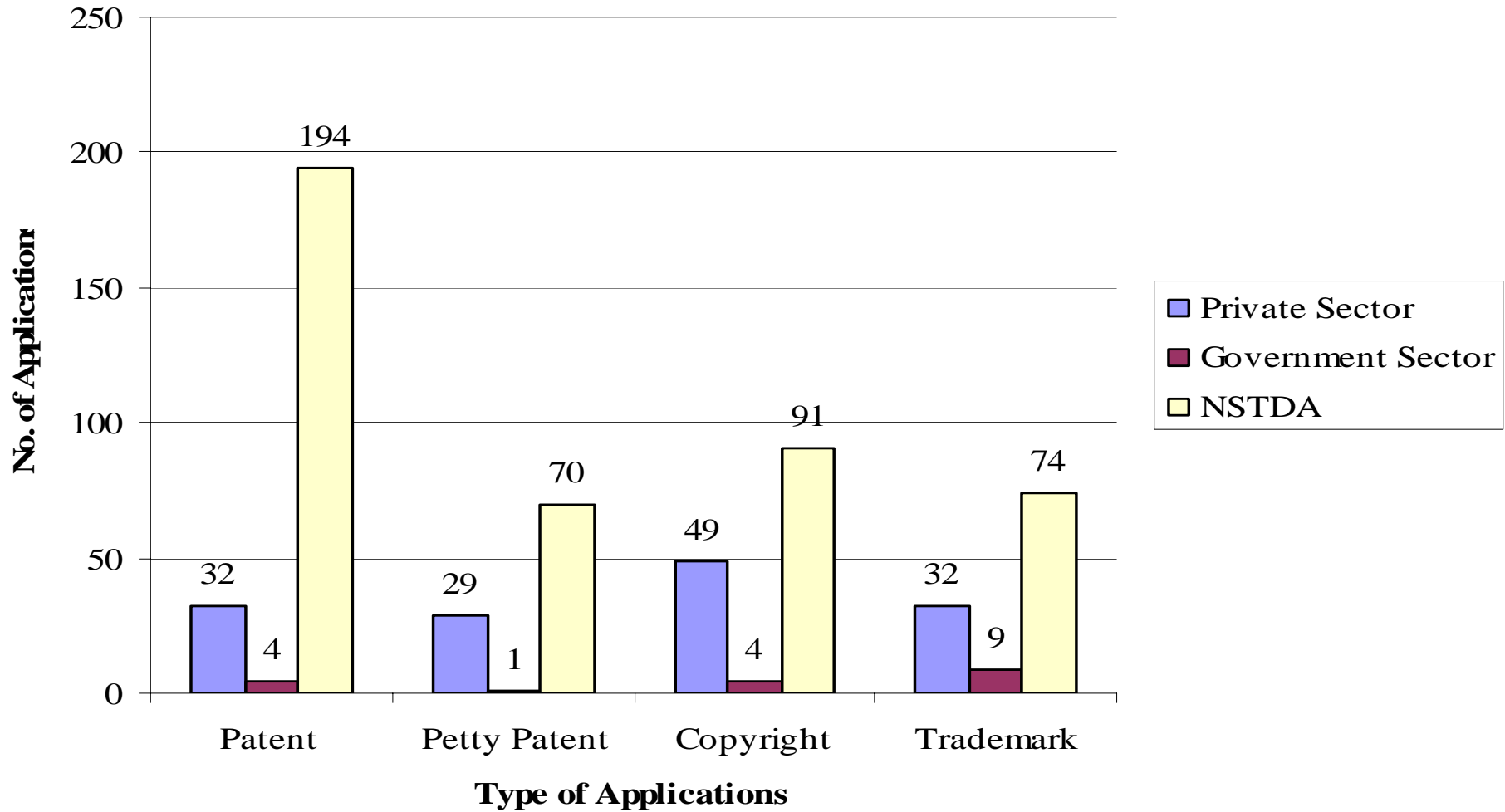
# Match technology with business

- Applied research, improvement technology:
  - SME focus
- Advanced Technology (complex & expensive)
  - Large business focus
- Basic Technology
  - Community focus

# Build client's capabilities

- Form business clusters
- Provide funds
- Provide training

## IP Applications Filed by NSTDA 1991-March 2006



# NSTDA's IP STATUS

	Patent Application		Petty Patent Application		Trademark Application		Copyright Application
	Filed	Grant	Filed	Grant	Filed	Grant	Filed
<b>NSTDA</b> 1991-present	194	20	70	30	74	71	91

# NSTDA-Commercialization Revenue

	2003		2004		2005		Total	
	No.of Agreements	Revenue (BAHT)	No.of Agreements	Revenue (BAHT)	No.of Agreements	Revenue (BAHT)	No.of Agreements	Revenue (BAHT)
NECTEC	16	1,545,401	17	1,611,420	11	2,173,222	44	5,330,043
MTEC	22	1,567,766	31	1,944,473	12	1,542,525	65	5,054,764
BIOTEC	8	1,237,540	6	955,612	3	400,131	17	2,593,283
ISET			4	10,127,416	2	NA	6	10,127,416
							132	23,105,506

# HOLISTIC APPROACH

## PUBLIC

- Research Centers
- DIP
- Universities
- MOST
- Others

## PRIVATE

- SME's
- Large Companies
- International Companies
- Communities
- Individuals

NSTDA  
TLO





Thank You



March 2006



TMC

NANO

