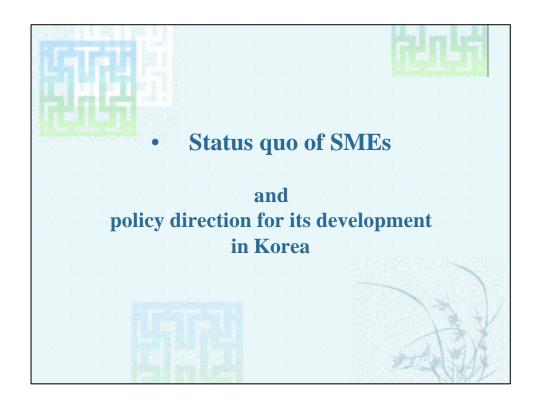




- f Digital, IT, Bio revolution progress based on IT
 - Shift of added-value creation source
 - . Labor/capital knowledge/information
- f IPRs as key elements in creating national and individua l competition
 - change of IPR function
 - . Beyond protective function, being utilized as key element in pursuing strategic development by state and companies
 - required efforts to graft IPRs upon economic activities
 - . Ranging from IPR creation to commercialization

Need to raise SMEs

- SME's roles more suited for global economy
 - increasing role in new economy represented by knowledge economy, digital economy
 - quick and flexible response to rapid change of . global economic environment
 - . hi-technologies such as IT, BT, NT, ET
 - to achieve sustainable development in economy
 need to reinforce infrastructure for nurturing SMEs and start-ups



Emphasized SME's role in rapidly changing eco nomic environment

- **Deepening of knowledge-intensive industry**
 - knowledge as a key factor in creating added-value
 - offers new opportunity for SMEs being rich in flexibility, innovative quality, quickness
- f Change in consumers trends
 - "various kinds of items in small quantity" production preferred
- *f* Evolution of global economy
 - growing opportunities for globalized economic activities
 - easier access to global markets via Internet, IT-based system more free flow of goods, services and capital



- f Serving as main engines for national economy
 - number of SMEs
 - . 99.7% of whole industrial companies ('99)
 - employees
 - . 81.9% of total employees ('99)
 - share of export
 - . 31%('98) 41.3%(2001)
- f Share of SMEs in economic activities expected to i ncrease

Role of SMEs in Korea

- f Driving force for economic reinvigoration
 - sharp increase of IT, BT-related venture start-ups
 - leading to industrial structure from traditional industrial renewed promising industry
- f Contributing to job-creation and expansion of mid dle-class people
- f Playing a leading role in advancing hi-tech
 - technical innovation in IT and S/W etc.
 - knowledge-intensive industry more dependent on SMEs

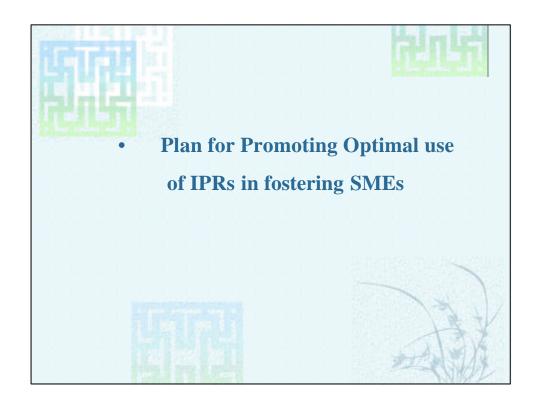
Organization and Policy for Nurturing SMEs

Reorganization

- Establishment of "Small and Medium Business Administration (SMBA)" under Ministry of Commerce Industry and Energy (MOCIE) in Feb. 1996
- Setting up of "Presidential Commission on Small and Medium Business"
- Other related agencies : **KIPO**, MOCIE, Ministry of Science and Technology, SMEs' Promotion Corporation, etc.

f SME's policy

- government slogans
 - . "The 21st century is the SME era"
 - . "SMEs are the engines of economic development"
- direction
- . strengthening of globlal competition
- . achieving "self-supportive and technology power" in knowledge age



Importance of IPR's Acquisition by SMEs

- SMEs form fundamental of national economy and lead economic development
- Optimal entity for development of high value-added technologies
- Leading to creation of employment due to spreading of downsizing, outsourcing
- Playing a central role in expanding export by taking seizure of neglected overseas market through production of "various kinds of goods in small quantity"
- R&D activities and technology power of SMEs are weak
 - Structural weakness compared to big companies in money, market dominance, marketing
 - R&D ratio('97): 12.3% of entire national investment
- Number of SMEs('97) doing R&D investment: 8% of whole SMEs

Importance of IPR's Acquisition by SMEs

- IPR act as a key weapon to secure technological edge in mega-competition world of 21st century
 - Leading to incessant technological innovation by providing stimulus for reinvestment of R&D
 - Means for paying-off investment cost for R&D
 - Key assets of business management . Exclusive rights, royalty income

How many IPRs are owned by SMEs in Korea

- f Ownership ratio by SMEs(including individual) ('99.6)
 - 14.8% of entire IPRs
 - . Patents, utility models: 17.7% . Trademarks, designs: 82.3%
 - 2.4% of whole companies having IPRs

Why the ownership ratio by SMEs is low?

- f Lack of professional
 - Weak in prior-art search skill, information collection
 - Short of understanding about IPR's acquisition procedure
 - * establishment of "IPR-exclusive management department" ('98.6)
 - . 614 companies of whole SMEs(91,324): 0.7%
- f Cost burden
- f Shortage of top manager's recognition of IPRs
 - Passive attitude toward intangible assets
 - Biased view on effectiveness of IPRs



- Difficult to get finance by putting IPR on security
- Hard to occupy a market share
- . Deficiency of marketing skill
- . Difficult to build independent brand power

Patented technology transaction market underdevelo ped

* 63.4% of total patents and utility models are in dormant state (June, '98)

Launch of SME's IPR Acquisition Movement

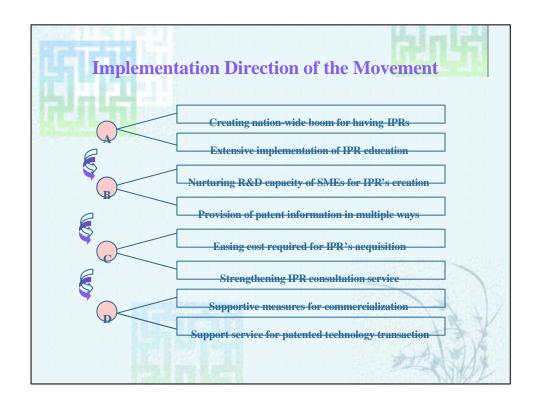
KIPO has been implementing omni-directional policies for supporting SMEs through the Movement since Sept., 1999.

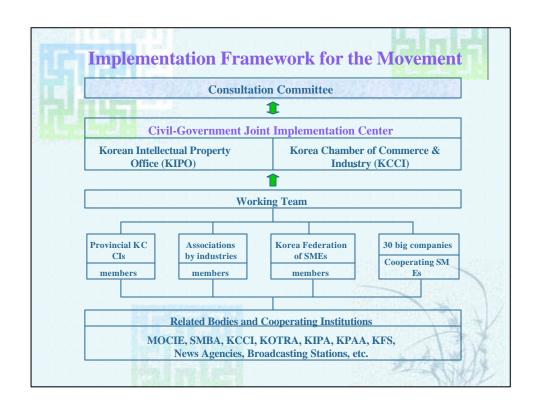
f Need/background

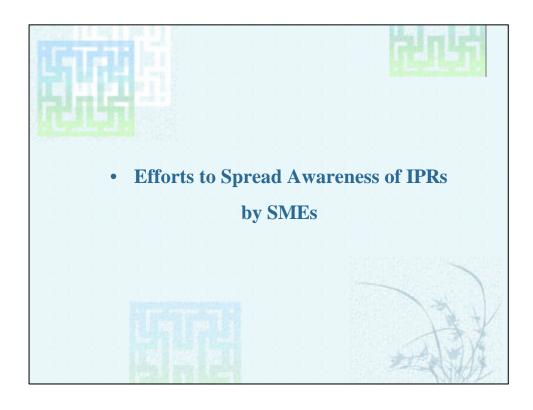
- facilitate right-creation of R&D results
- attract SMEs to knowledge intensive industry
- spread importance of IPRs into SME sector
- reinforcing of incentive system about acquirement of IPRs

raise competitiveness of SMEs strengthen technological power of SMEs







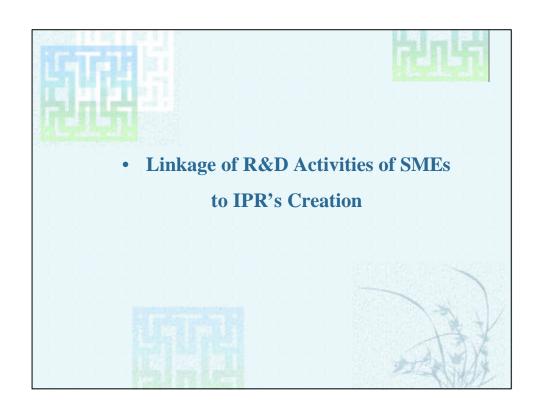


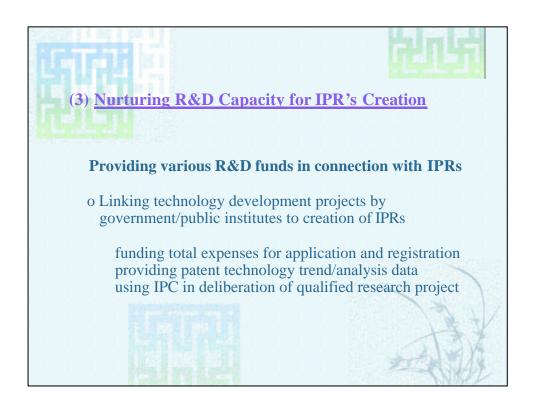
(1) Creating nationwide boom for SMEs to acquire IPRs

- Holding "Resolution Convention" for the Movement
 - Organizers : KIPO, KCCI
 - Participants: members of the movement-related bodies
- f Organizing Seminars
 - Jointly organized with relevant newspaper companies
 - Topic : IPR usage strategy and best practices by SMEs
- Nationwide-circulation explanatory meeting
 - target: top managers, executives, IPR-related staff, officials, etc.
 - topic : support program in creation and utilization of IPRs, best practices, etc.
- f Increasing awards for SMEs
 - On the occasion of various patent or invention-related exhibitions

(2) Expanding Education Opportunity

- Including IPR subject in training programs of SME-related institutes
 - SME training institute, SME development institute, Korea standards association, KOTRA etc.
 - Providing free lectures by KIPO's staff, IPR-related materials
- f Inducing 30 big companies to provide IPR training for their cooperating SMEs
- Increasing IPR training programs for SMEs at International Intellectual Property Training Institute (IIPTI) of KIPO
 - Introductory course, course on use of IPR information, etc
 - On-the-spot training course, other course subject to demands of SMEs





Provision of PM(patent map)

o PM

- Sorting out, processing, analyzing patented technology
- Showing technology development trend used in establishing R&D strategy, forming industrial technology policy
- o Holding seminars on PM
 - Development and distribution of PMs on 24 areas of tec hnology

o Encouraging in-house invention

- Holding consultation gathering of IPR managers of SMEs
- Spreading guidelines and best practices on reward system for in-house inventions
- o Assisting R&D human resources development
 - Development of training programs on R&D, patent management
 - Cultivating lecturers Sending programs and lecturers to related training programs by SMEs

(4) Provision of Patent Information in Multiple Ways

Forming sistership between 1 examiner and 1 company

- o Guiding direction of patent management
- o providing prior art service

Expanding patent-technology information service

- o Free provision via Internet
- o Intensifying function of provincial patent data retrieval

Holding consultation meeting by industry

- o Joined by examiners
- o Mutual exchange of patent related information

Supporting the development of brands

- o Teaching techniques on brand naming
- o Assistance for developing joint brands among several SMEs
 - consulting / organizing seminars on brand-naming strategy
- o Providing search system and legal advice for applications



(5) Easing Cost Required for IPR's Acquisition

Exemption or reduction of fees

- o Medium-size enterprise state-run institute, university 50% for the first application
- o Small enterprise and individual 70% for the first application

Offering of patent attorney service

o Free service for first-filed application

Financial support for overseas application

- o Funding assistance to individuals and SMEs
- o Opening consultation corner for overseas applications at trade-related bodies

(6) Strengthening IPR Consultation Service

Establishing information service team at "civil affair consultation room" of KIPO

o Exclusively dealing with IPR matters of SMEs

Furthering IPR consultation service at provincial SMB

A

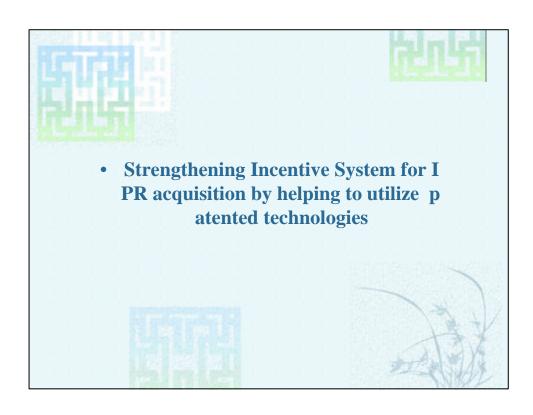
o Open exclusive line (call, fax) with KIPO

Designating patent attorney office for free service in eac h province

o Designated office by KIPO provides free service

Inducing SMEs to set up "patent management departm ent"

- o Training experts in Korea Invention Promotion Association (KIPA) and sending to SMEs
- o Offering special management service for SMEs



(7) Supportive Measures for Commercialization

Assistance for trial product of patented technology

- o Increasing funding money and recipient companies
 - 60 companies, 30 million Won (2001)

Enhancement of security value of patent technology

- o Reflection of results of evaluation of technology in deciding security value
 - cooperating with MOCIE, Industrial Technology Evaluation Institute
- o Expansion of assistance for patent technology evaluation project
- o Continued development of evaluation techniques

Expansion of fund assistance for facilitating commercialization

- o Close cooperation with MOCIE, KIPO, SMBA
 - Set-up of consultation committee on commercialization
 - . Discussion on better ways to provide various related funds
 - Providing of fund assistance for R&D, start-ups, facility investment
 - . 37.7 billion Won (2001)
- o Match-making between right holder and patent angel
- o Induce banks to loan based on patent security
- SME Bank, Korea Industrial Bank, etc.

Tax Break

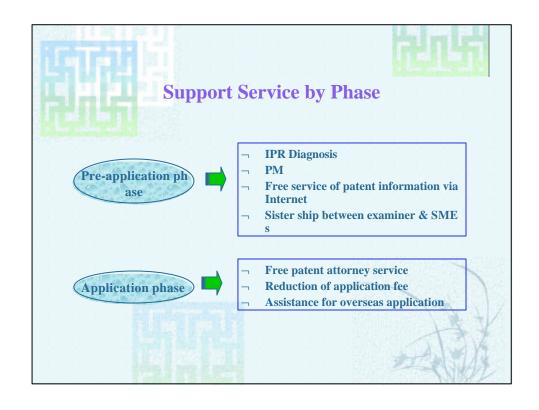
- o Deduction a certain ration of investment money from subject of corporate tax
- o Reduction of income tax in assignment or lease of patent, utility model
- o Reduction of corporate tax in licensing IPRs to foreigners

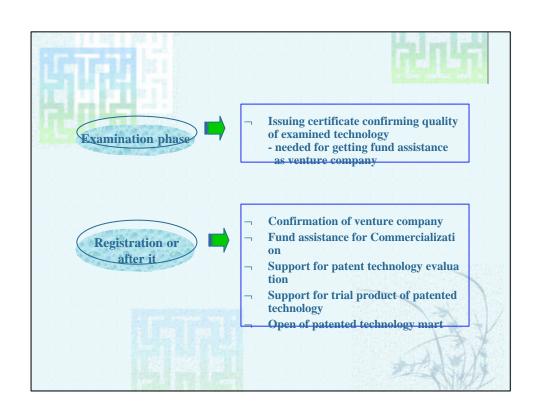
Increasing Marketing Opportunity

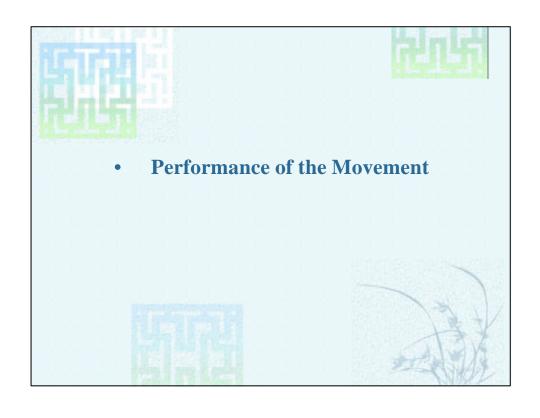
- o Accord preferential treatment to SMEs holding patent rights
 - in opening patented-invention exhibition corner at exclusive shopping mall for SMEs
- o Opening "big market for patented product" via live TV broadcasting
- o Preferentially including patented products in overseas marketing-support items of KOTRA

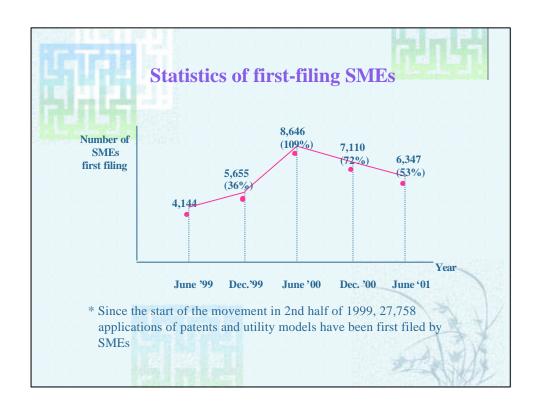


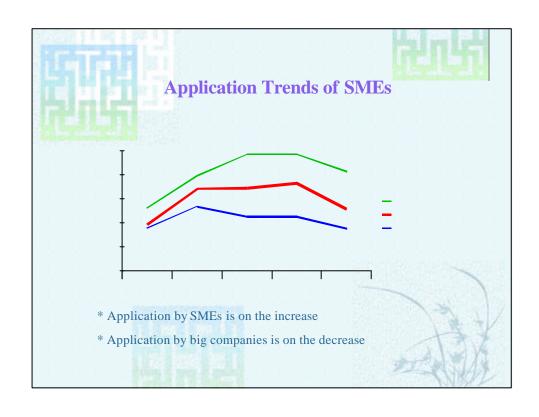


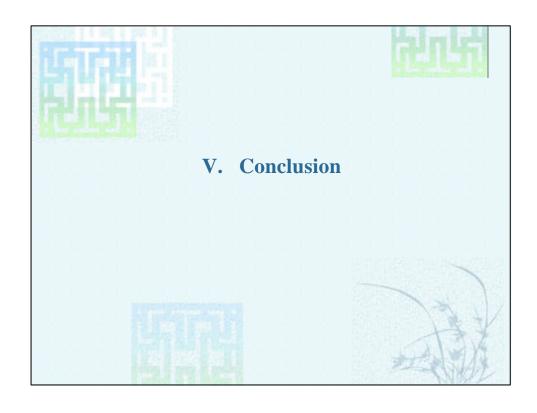












Considered Points for Developing SMEs Assistance Programs

Approach of support strategy in the framework of national R&D Policy

- o IPO is required to play a central role in promoting use of IP for SMEs
- o IPO needs to organize close cooperation with associated
 - Ministries and Agencies
 Seek ways to attach IPR aspects to allocation of various R&D funds controlled by them and tax break
- o Encourage government sector to use IP as key tool to stimulate nationwide R&D activities
 - Need to raise awareness of the importance of IPRs among government officials

Aggressive exploration of ways to assist SMEs within the capacity of IPO

- o Attract SMEs to the benefits of the use of IP in business strategy
 - Strengthen human resources development targeting SMEs (training programs, seminars, explanatory meetings)
 - Wide-ranging consultation programs
- o Ensure cheaper and easier IPR acquisition
 - Reduction of fees, provision of application consultation service, etc.

- o Enhance easier access to IP information (PM project, cyber IP office, computerization, digitalization of IP information, network between IPO and users, etc)
- o Build up continued IP service system even after registration
 - commercialization, trial product, IP-mart, patent evaluation service, etc
- o Improve IPR system favorable to R&D activities
 - Adoption of pre-registration system in utility models
 - Placing examination guidelines in order to support R&D activities of venture companies

Conclusion

Supporting SME's through using IPR-means ensures:

sustainable advancement R&D in industrial sectors strengthening national competitiveness contributing to economic development

In this perspective,

<National Level>

o KIPO plans to continually explore available resources and expand necessary infra. so that SMEs can fully enjoy benefits of IPRs in their businesses.



