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I. Three Major Types of Researches at NIER

1. Basic Research (調査研究)

- Regular Budget : Planned in previous year
- 19 division and 5 labs: compulsory (more than one project)
- Fundamental Research: Total 33 projects (2004)
- ◇ Budget: 1,580 M Won (~ \$1.3 M)

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I. Three Major Types of Researches at NIER

Examples of NIER Basic Research

- ,
- ↑ Development of Management System of Hazardous Air Pollutants Emission (有害 大氣汚染物質 管理system開發 硏究)
- ↑ Control of Protozoan Oocysts in Water Treatment Facility (淨水場 原生動物 Oocysts 制御 研究)

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I. Three Major Types of Researches at NIER

2. MOE Projects (政策研究)

- Irregular allotment of MOE budget
- Urgent national environmental issues or need for policy development
- → Total 20 projects(2004)
- → Budget: 6,218 M Won (~ \$5.1 M)

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I. Three Major Types of Researches at NIER

Examples of MOE Projects (政策研究)

- Risk assessment of mass produced chemicals controlled by OECD
- ◆ National Nature Environment Survey
- Atmospheric HAPs monitoring project
- Study on vehicle emitted Green-house gas mitigation measures

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I. Three Major Types of Researches at NIER

3. Priority Research Projects(主要事業)

Planned previous year

Requires national priority and attention

Mostly long-term projects: more than 1 year

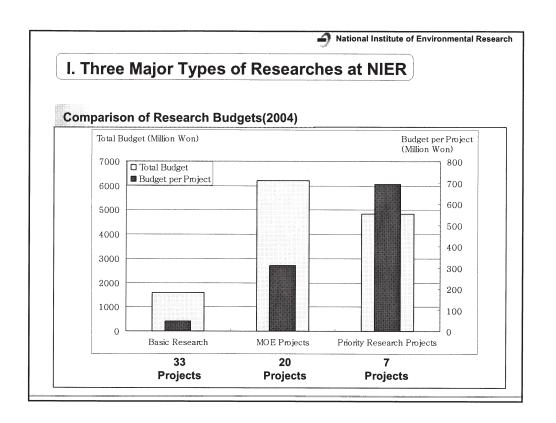
7 projects(2004): 4,853 M Won (~ \$4 M)

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I. Three Major Types of Researches at NIER

List of 2004 Priority Research Projects(主要事業)

- ♦ Monitoring of EDCs (Endocrine Disrupting Chemicals) in Korea
- \Diamond Epidemiological survey on Env'l pollutant exposure & health effect in industrial complex
- Research on the photochemical ozone & particulate control in metropolitan area
- Establishment of air pollutants monitoring system & cooperative program for env'l conservation of North-east Asia
- TMDL technical support project
- Orinking water management system
- Survey of organic waste generation raw unit



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II. Research Evaluation Process

1. Internal Evaluation

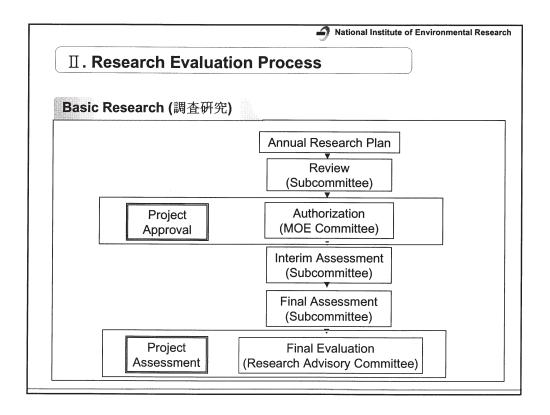
- ◇ Research Advisory Committee (研究管理委員會)
 - · Highest board
 - Members: senior members nominated from academia, industry and environmental communities
 - Role:
 - to advise on the budget and plan of the comprehensive research projects of NIER
 - to assess the outputs of entire NIER research projects

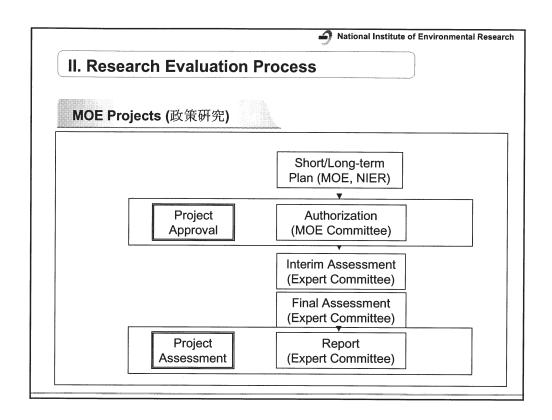
II. Research Evaluation Process

1. Internal Evaluation

- ◇ Subcommittee (分科委員會)
 - 13 subcommittees
 - Member: Less than 15 experts in their respective fields
 - Occasion: meets twice a year
 - · Role:
 - to assess the progress of Basic Researches and
 - to evaluate the outcomes in light of the initial mission statement

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II. Research Evaluation Process

2. National Assessment Process

- ◇ Survey, Analysis and Evaluation of National R&D Programs (國家硏究開發事業 調査・分析・評價)
 - Aim: S&T planning and evaluation at the national level
 includes the pre-coordination function of the national R&D budget
 - Governing Body: National Science & Technology Council (NSTC)
 - * Authorized Institution: Korea Institute of S&T Evaluation and Planning

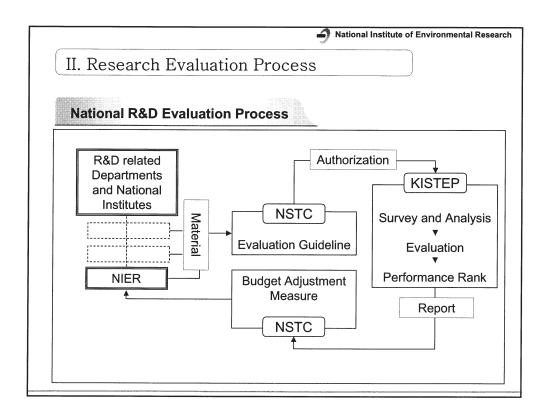
II. Research Evaluation Process

2. National Assessment Process

◇ Survey, Analysis and Evaluation of National R&D Programs (國家硏究開發事業 調査・分析・評價)

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- Key indices for the assessment:
 - degree and extent of policy support activities,
 - law (guidelines) formulation,
 - scientific paper,
 - spin-off products (such as patent, business creation),
 - training,
 - international cooperation,
 - research foundation establishment,
 - social and economic contribution



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II. Research Evaluation Process

2. National Assessment Process

- ◆ Survey, Analysis and Evaluation of National R&D Programs (國家硏究開發事業 調査・分析・評價)
 - Benefits: Improvement of competitiveness and productiveness
 - Irony: Compete with other national research institutes with different missions and roles

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III. Future Challenge of NIER

Need for Innovative Mission Statement

- Balancing the two different tasks
 - as a national institution that places non-profit and policy underpinning mission first
 - as a research institute that should be creative and free in its research environment

