

Evaluation of Public R&D Program in Korea

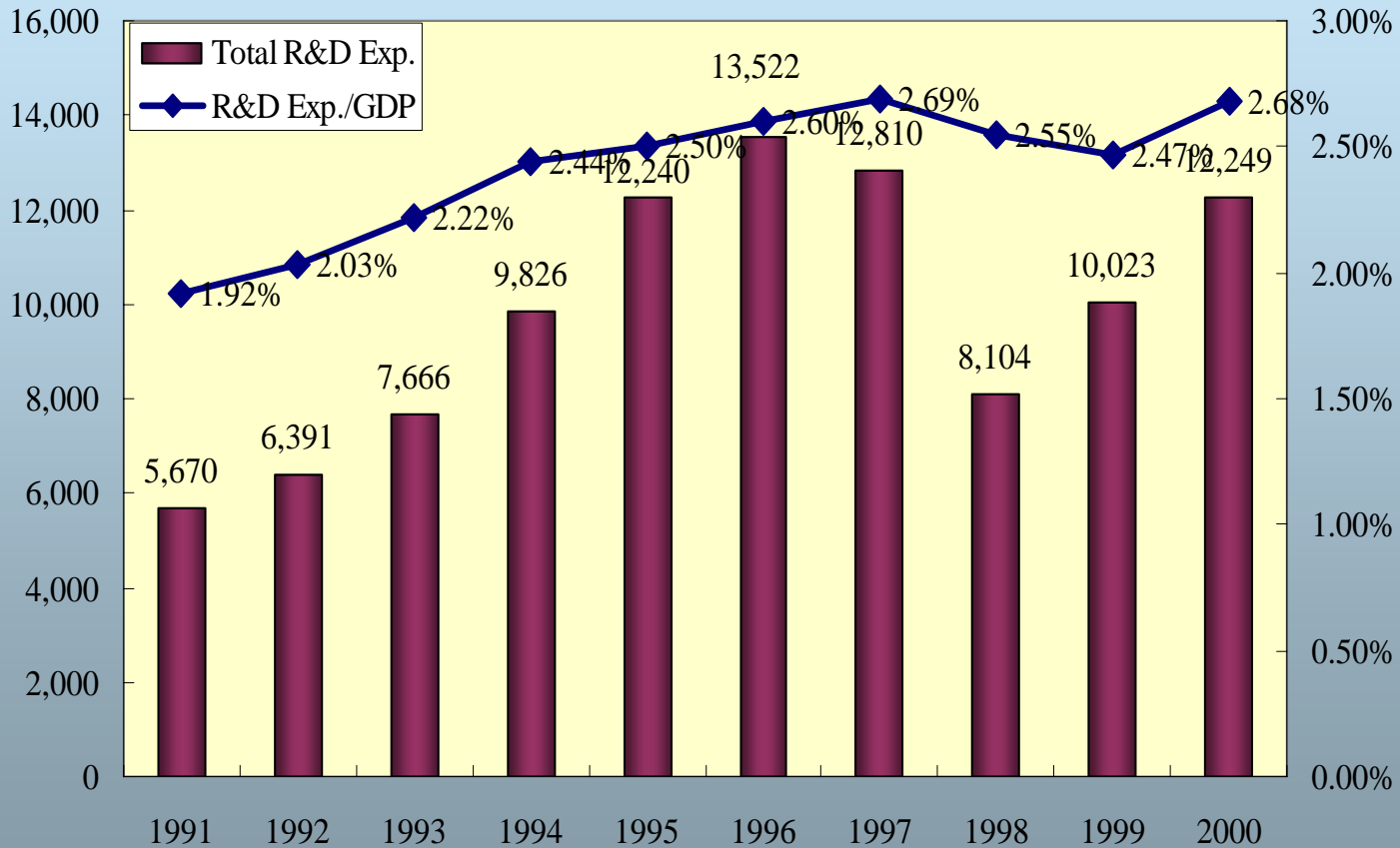
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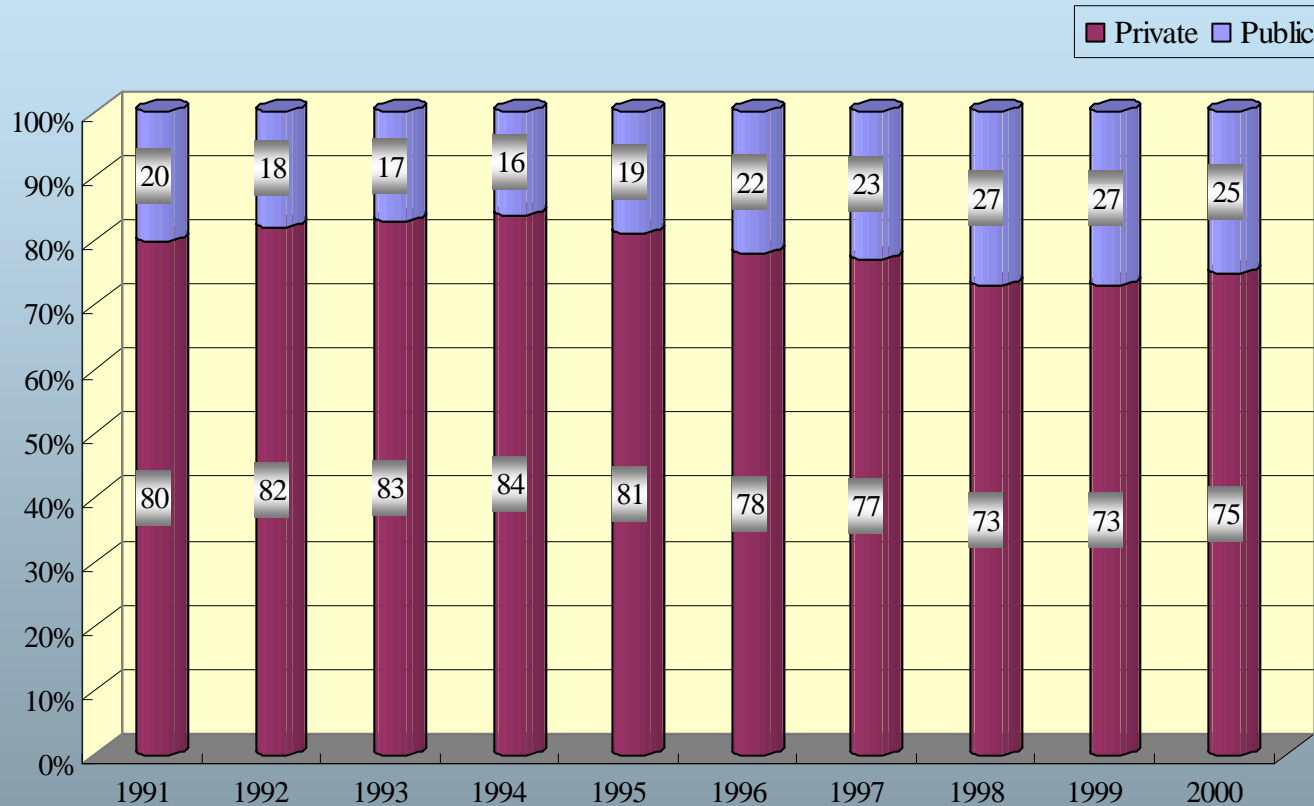
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Trend of Total R&D Expenditure

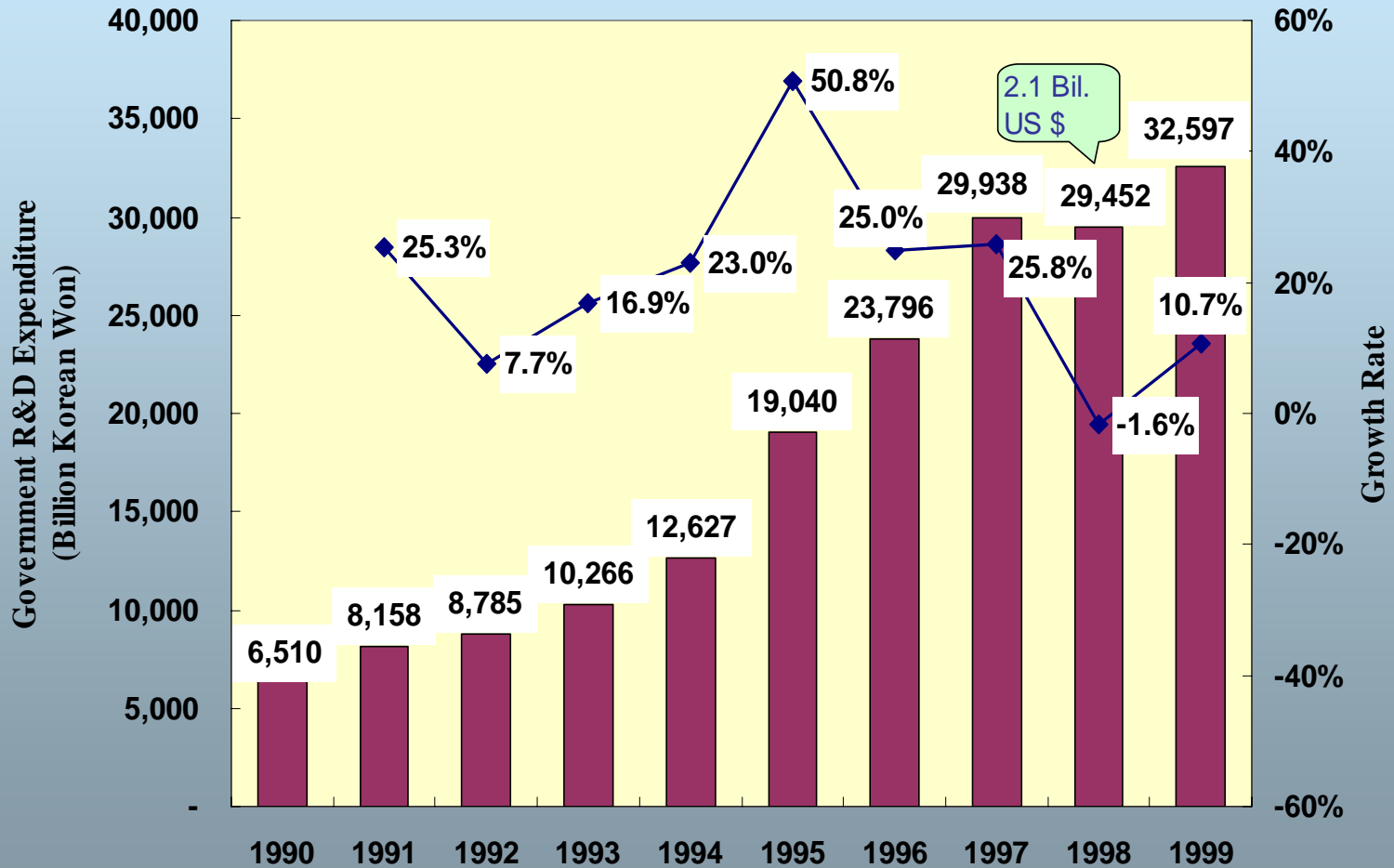
Million \$



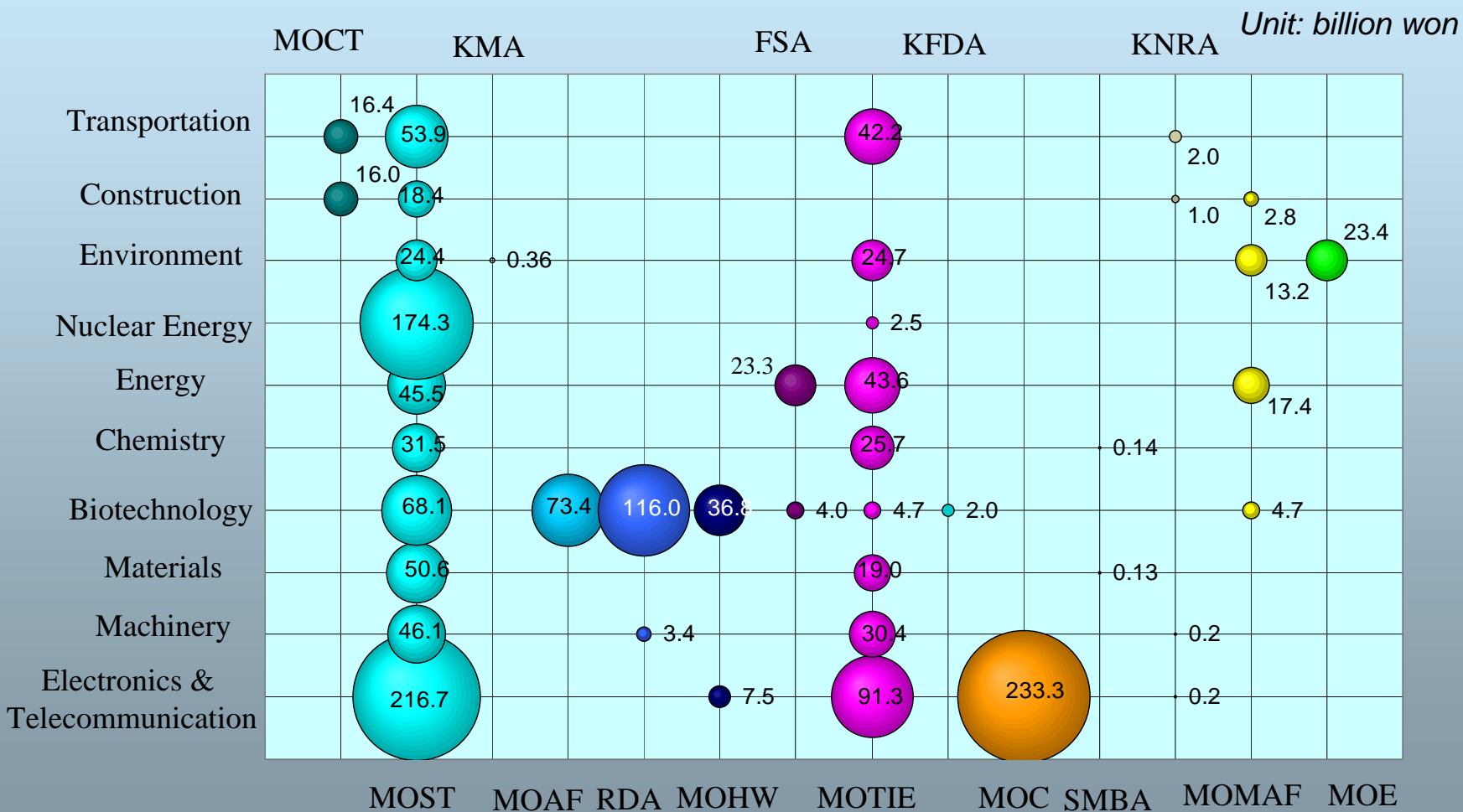
Public vs. Private R&D Funding



Trend of Public R&D Expenditure



Public R&D Exp. by Technology Areas and Agencies



Background of New Public R&D Evaluation System

Driving Forces

- Expanding Public R&D Expenditure
- Fragmented Public R&D Efforts (179 Programs in 19 Agencies)
- Budget Constraints

Greater Demands on

- Accountability
- Coordination
- Effectiveness

Action through

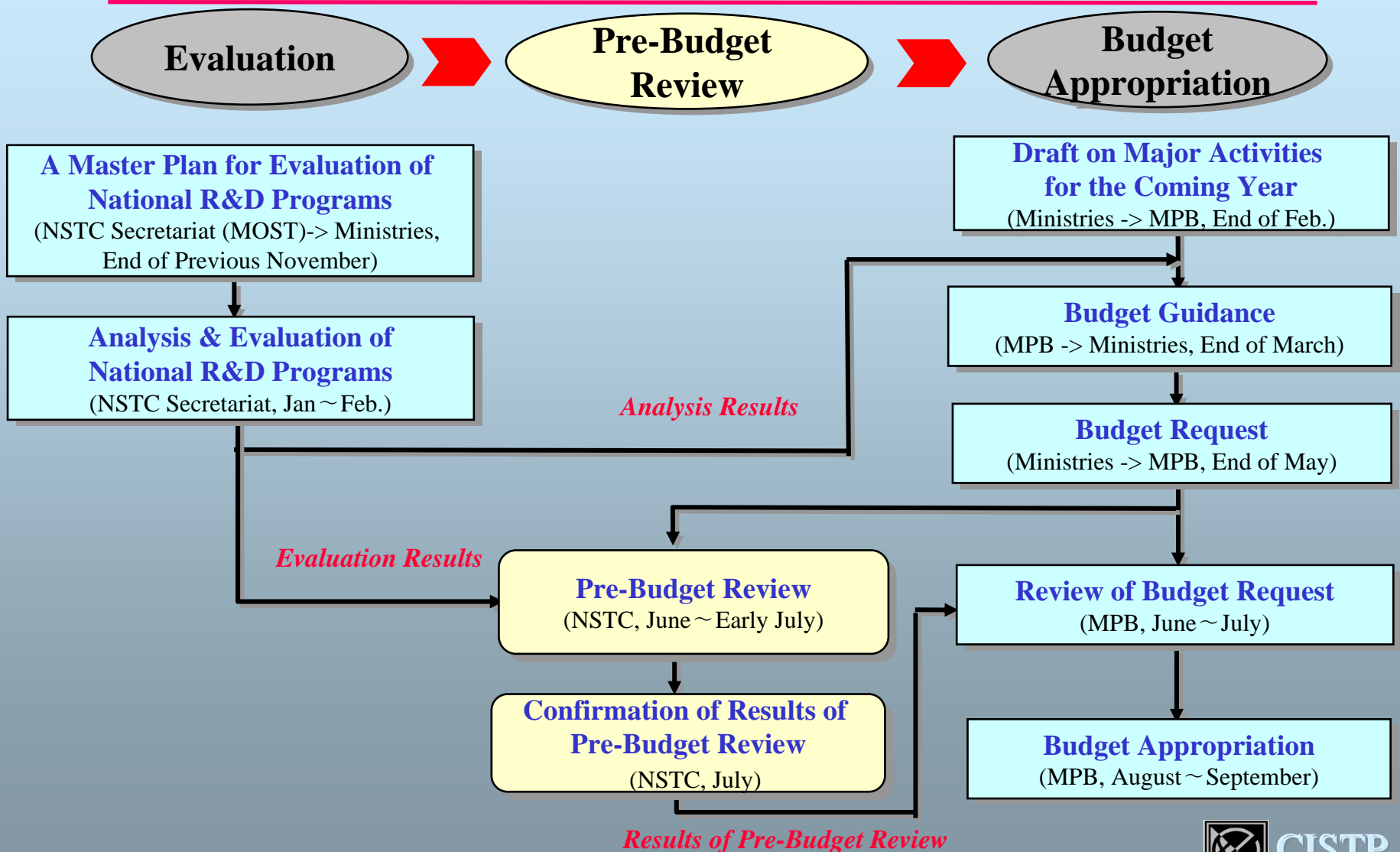
- Special Act for Science, Technology and Innovation (1998)

New Evaluation System installed

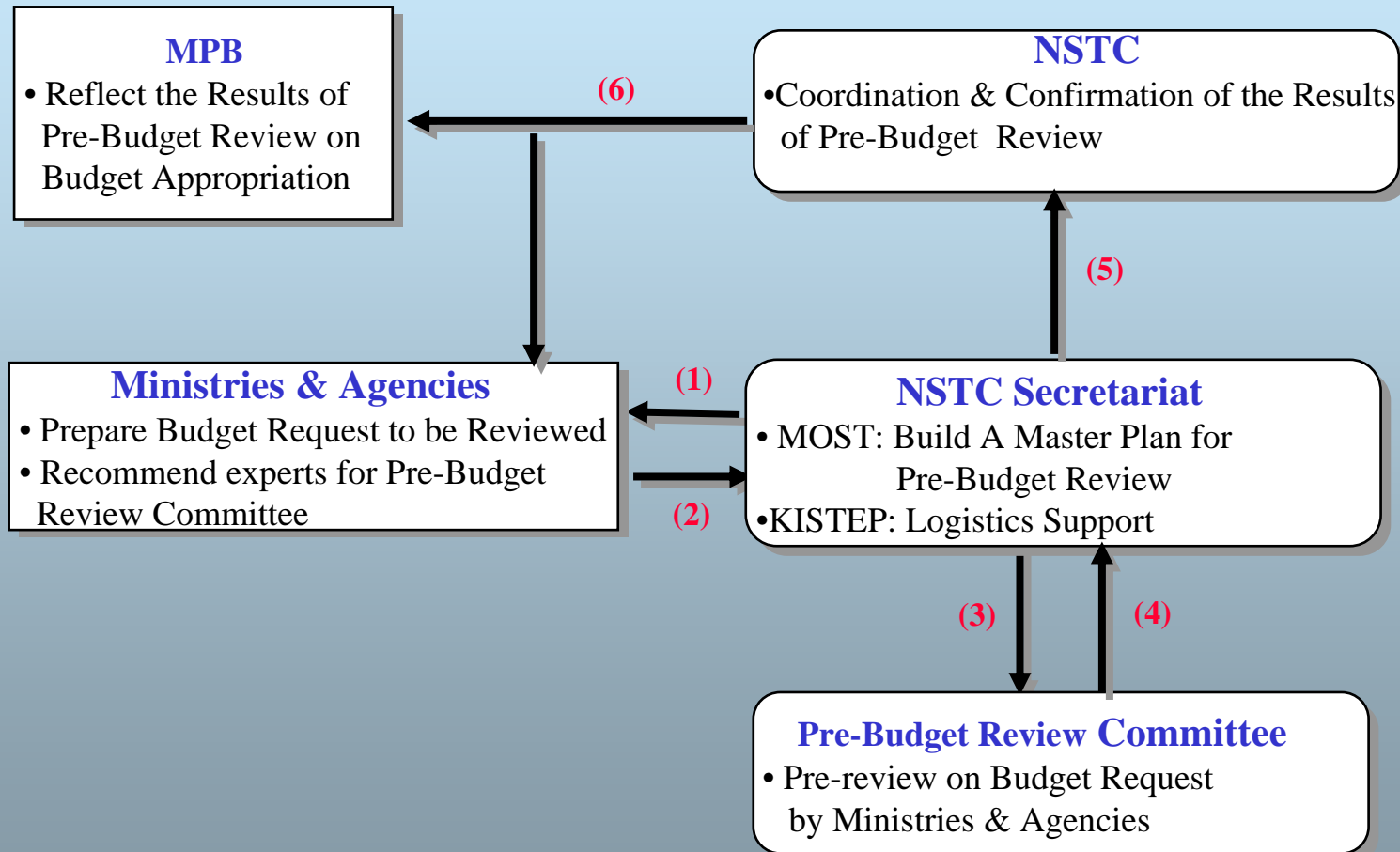
- Mandate Annual Evaluation of Public R&D Programs
- Establish 'National S&T Council (NSTC)'
- Implement 'Analysis, Evaluation and Pre-Budget Review Program'



New Public R&D Evaluation System



Mechanism of Pre-Budget Review



Framework for Pre-Budget Review

Expert Review

- 1 Steering Committee
- 3 Sub-Committees by Program groups
- 12 Working-Committees by specific areas
- 255 experts from Industry (20), Univ. (95), GRIs (140)

Evaluation Criteria

- Evaluation Results of Public R&D Programs
- Relevance to the Program Goals and Scopes
- Appropriateness of Government Agencies for the Programs

Forced Distribution in Weighted Scoring

- A (Upper 10%)
- B (10 – 30%)
- C (30 – 70%)
- D (70 – 90%)
- E (Lower 10%)

Descriptive Recommendations

- Re-Planning
- Redirecting its focus on Special Area
- Linking or Merging with Other Program
- Increasing or Reducing Budget

Current Issues

- Measurement Problem in R&D Activities (esp. Basic Science)
- Lack of Quantitative Indicators
- Short of Evaluation Peer Pool
- Frequent Disputes on Evaluation Criteria
- Short-Sighted Evaluation

International Collaboration

- Cross-Check of Evaluation Criteria
- Co-Development of Advanced Measurement Tools
- Exchange of Best Evaluation Practices
- Exchange of Evaluation Experts