

Japanese Nanotechnology Networks

- International Status Reports -

Workshop on Nanotechnology Networking and Int'l Cooperation

October 11, 2003

IUMRS-ICAM 2003, Yokohama, Japan

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New Energy and Industrial Technology Development Organization (NEDO)

Today's Topics

- (1) What is NEDO?*
- (2) What is the purpose of NEDO's Networking Activities?*
- (3) Introduction to a few Japan's domestic networking activities.*

- Establishment: October 1, 1980
- Independent Administrative Institution: October 1, 2003
- Number of staff: 751 (as of July 2003)
- 2003 Budget: \$2.6 billion (\$1=¥120)
- Main Areas of NEDO's Activities

(1) New Energy & Energy Conservation Technology

(2) Industrial Technology

(3) International Cooperation

Industrial Technology Development Departments (R&D by Field)

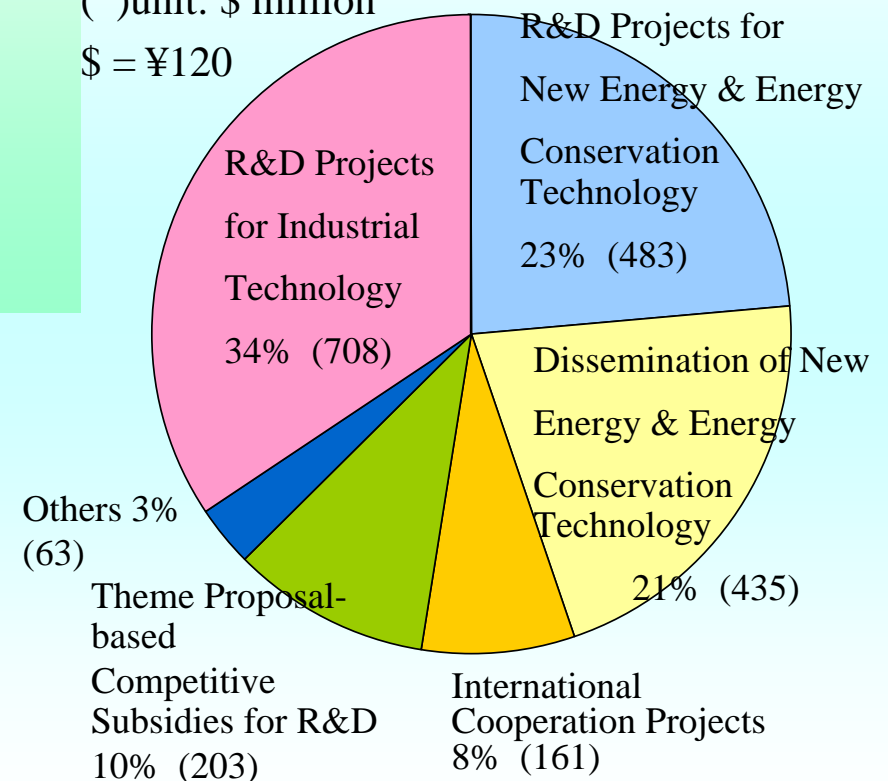
- Nanotechnology and Materials Technology
- Electronics and Information Technology
- Biotechnology
- Medical and Welfare Technology
- Machinery and Aerospace Technology
- Chemicals Management Technology
- Global Environment Technology

WHAT IS NEDO?

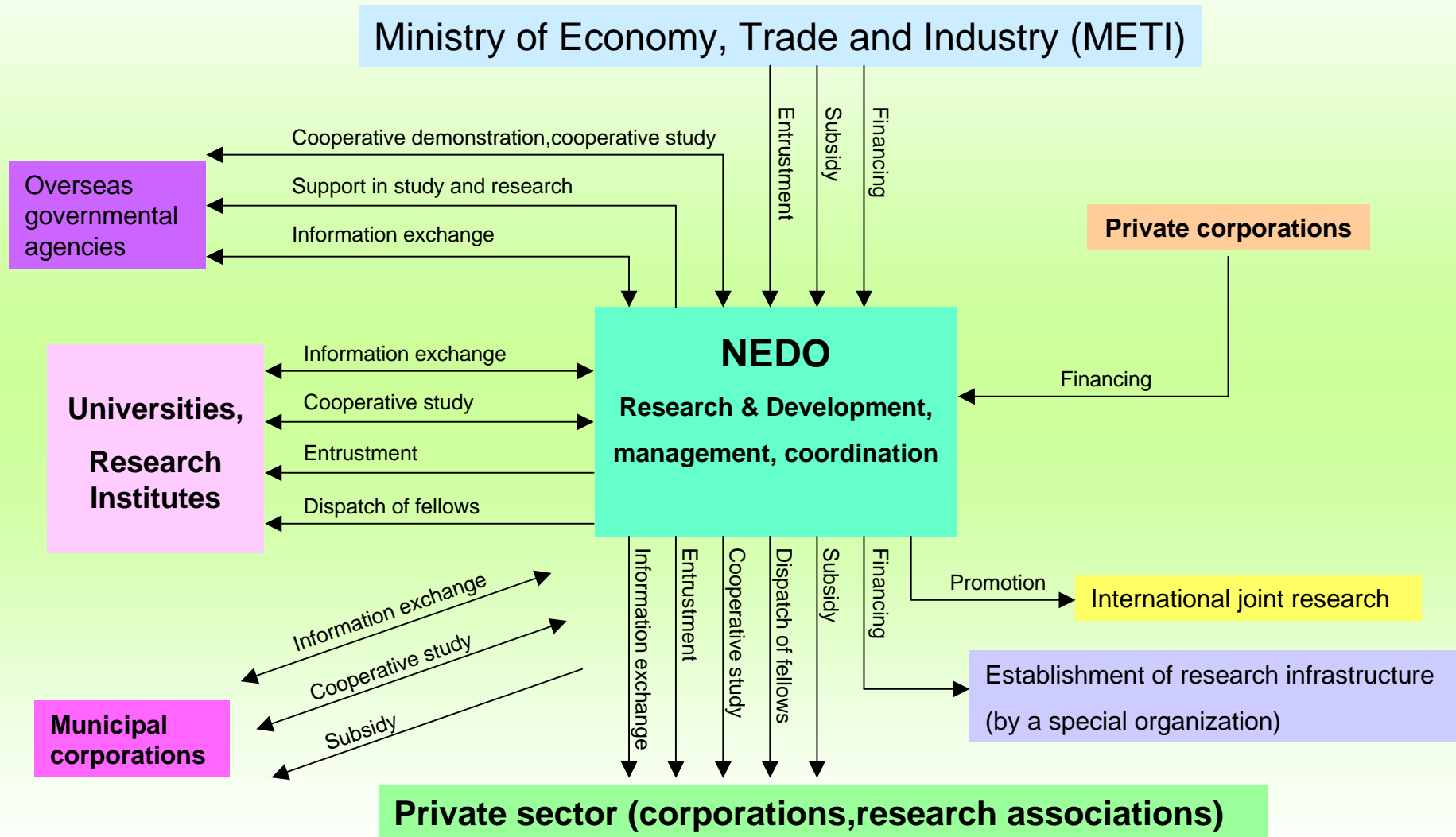
Total for R&D Investment: \$2.1 Billion

() unit: \$ million

\$ = ¥120



NEDO 's Research and Development System



Role of NEDO in projects promotion

- Planning new R&D
- Budget submission to METI
- Call for proposals
- Technology evaluation
- Contracting
- Inspection of accounts
- Networking researchers
- Collaboration arrangement
- Spread of R&D results
- Public relations:
 - Press release, - Workshop,
 - Symposium,
 - Congress, - Exhibition

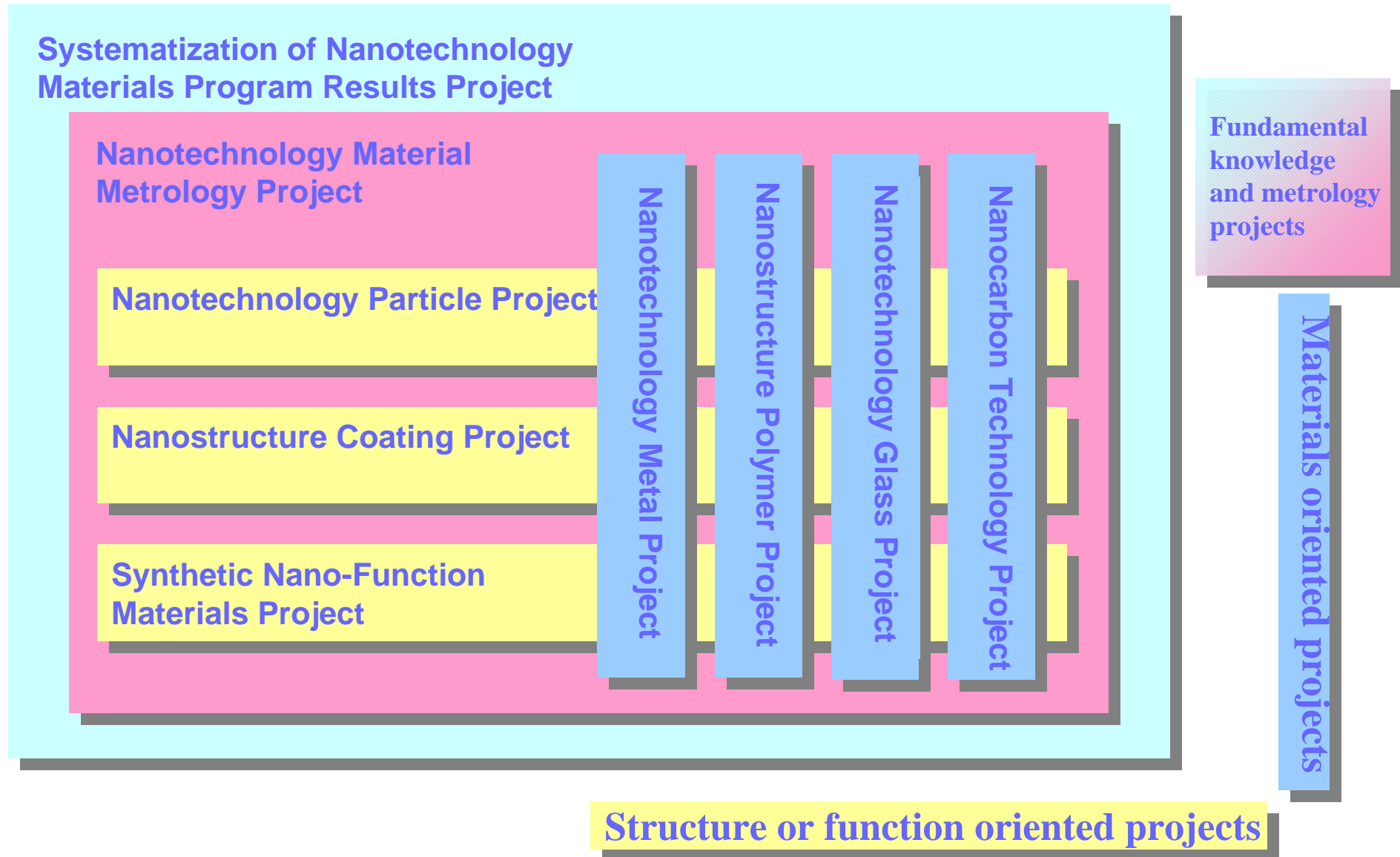
For Promoting Industrial Technology

To Contribute Economic Growth

The Last Goal = Nanotech Industry

Nanotechnology Program - Nanomaterials and Processing Sub-Program -

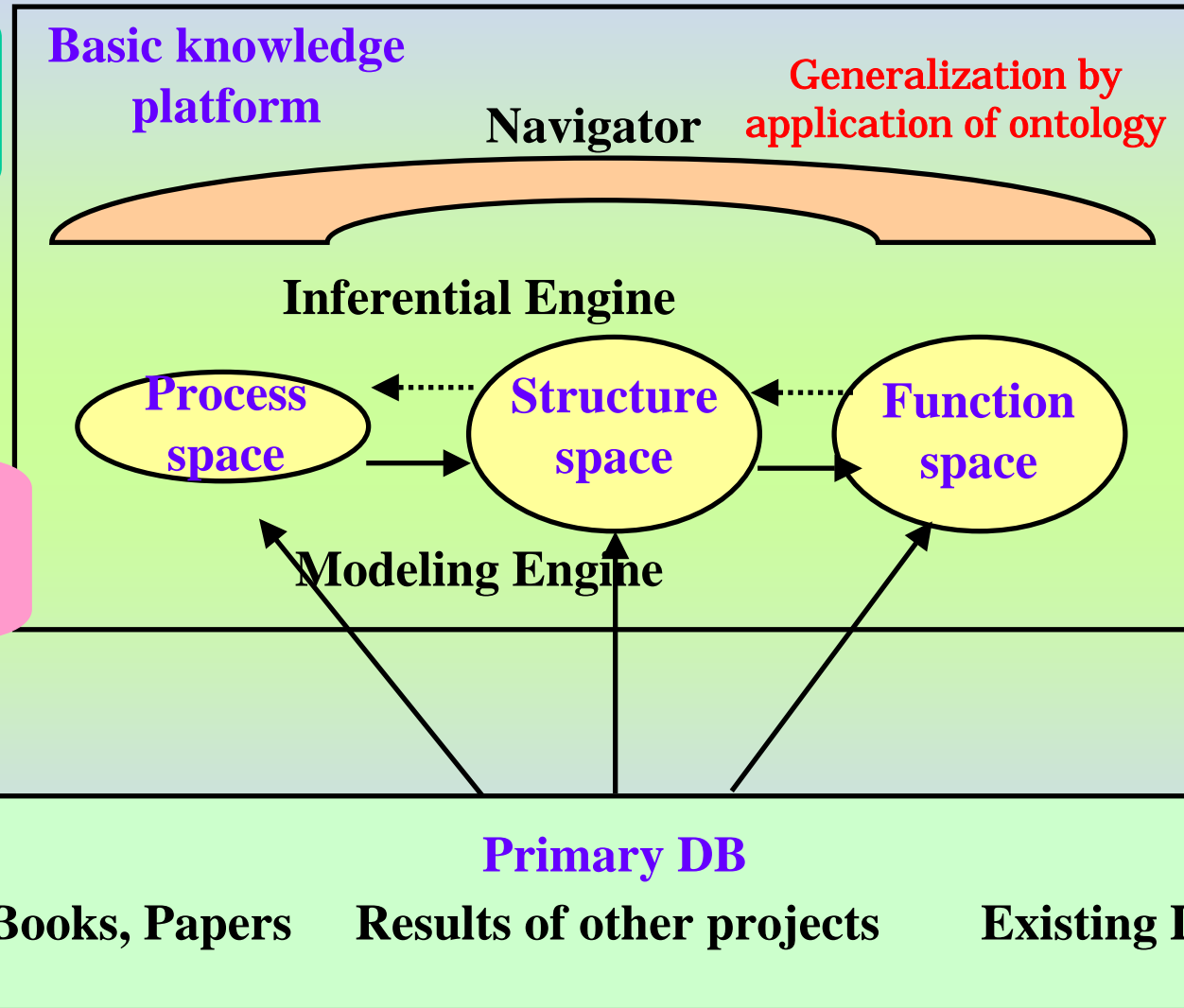
- Objectives: 1. Establishment of fundamental nanotechnologies on material
2. Systematization of the research results to establish knowledge platform for nanotechnology



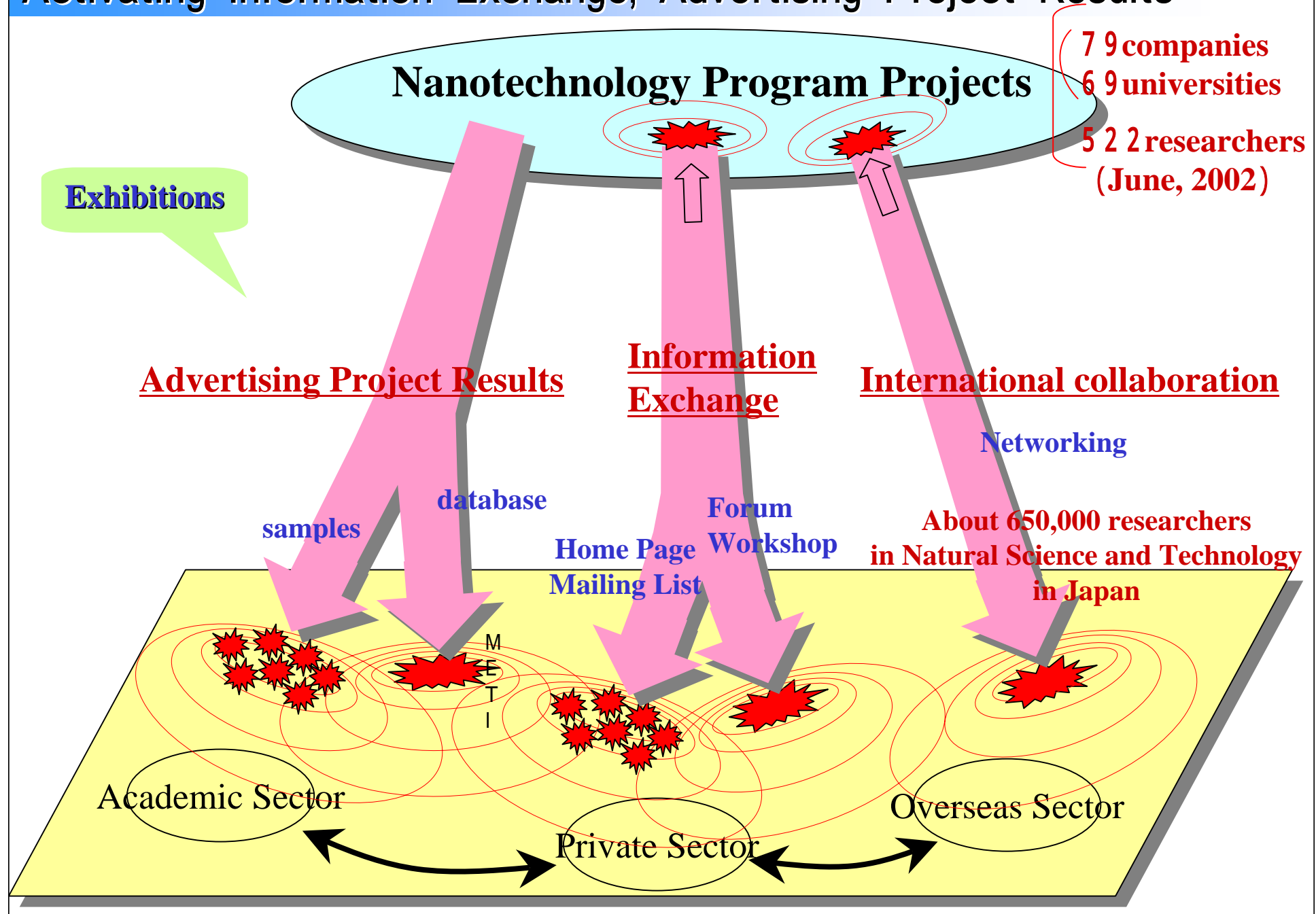
Systematization of Nanotechnology Materials Program Results Project (FY2001-FY2007)

Networking
among the
nano-projects

Intellectual
Property



Activating Information Exchange, Advertising Project Results



Information Exchange through Exhibitions and Conferences

nano tech 2003 + Future

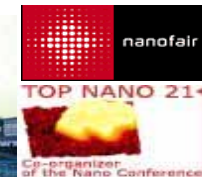
International Conference and Exhibition on Nanotechnology
February 26 – 28, 2003 Makuhari Messe



Showtime for Nanotechnology

Nanofair 2003

September, 9 - 11
St.Gallen, Switzerland



2003年10月8日水▶10日金
東京ビッグサイト

<http://www.nikkei-nanofair.com/>

EuroNanoForum 2003

Trieste - Italy / 9,10,11,12 December



European Commission
DG Research
Industrial Technologies

http://www.euronanoforum2003.org/index_en.php



March 17 – 19, 2004, 10:00-17:00 Tokyo Big Sight, Hall 4&5 and Conference Hall

<http://www.ics-inc.co.jp/nanotech/index.html>

Tokai manufacturing industry creation project
東海ものづくり創生プロジェクト
The Tokai conference of manufacturing industry creation
東海ものづくり創生協議会

The Tokai nanoprocess and nanomaterials society

東海ナノプロセス・マテリアル研究会

参加企業・機関約100団体で、
8割が東海地方を中心とした大企業・中堅中小企業・ベンチャー企業、
1割が大学・高専、1割が公的な研究機関・支援機関です。
10名ほどの幹事会組織を設け事業計画をたてており、代表幹事は
名古屋工業大学セラミックス基盤工学研究センター長の高橋実教授です。

今のところ、大学等の技術シーズをプレゼンし、それを基にして
事業化を目的とした小グループでの研究会活動を立ち上げていく
という活動をすすめています。

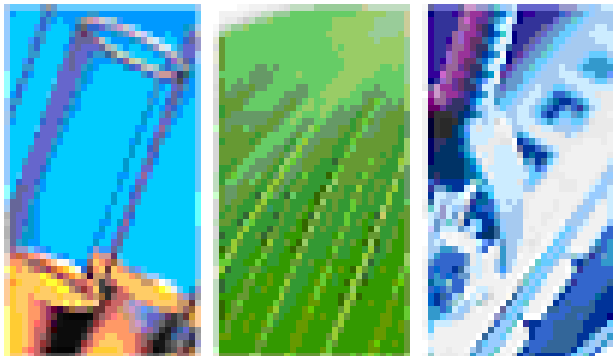
Kansai Nanotechnology Initiative

関西ナノテクノロジー推進会議

- ・各研究会における調査活動および研究情報の交流
- ・上記活動を通じた新規研究開発プロジェクトの立ち上げ
(提案、公募への応募など)
- ・ナノテクの産業化を支援するための方策
(中小企業向けコンサルティング機能の充実、等)
の検討実施、その結果を国へ提言

既に、昨年度、推進会議のメンバーを中心に、
アンケートやヒアリング調査を実施し、
支援方策として必要と考えられるものを抽出して、
「ナノテクパワーアッププログラム」として取りまとめ、
今春、経済産業省等に提言済み

- ・技術情報アセスメント



Create the next world using Nanotechnology

最先端技術「ナノテクノロジー」で新しい世界を創造する

の
て

Tokai nanoprocess and nanomaterials society

JFCC AIST, Chubu
METI, Chubu office

{about 100 companies and organizations}

Local Government
Municipal
corporations

Networking for creating new materials and processing technology

· Networking · Needs – Seeds Matching · Laboratory tour · Seminar, Forum · Research Activity

Universities, Research Institutes



Companies

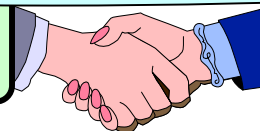
Kansai Nanotechnology Initiative

{established in April 2001,
136 companies member}

Technical Information Exchange, Assessment of technology seeds

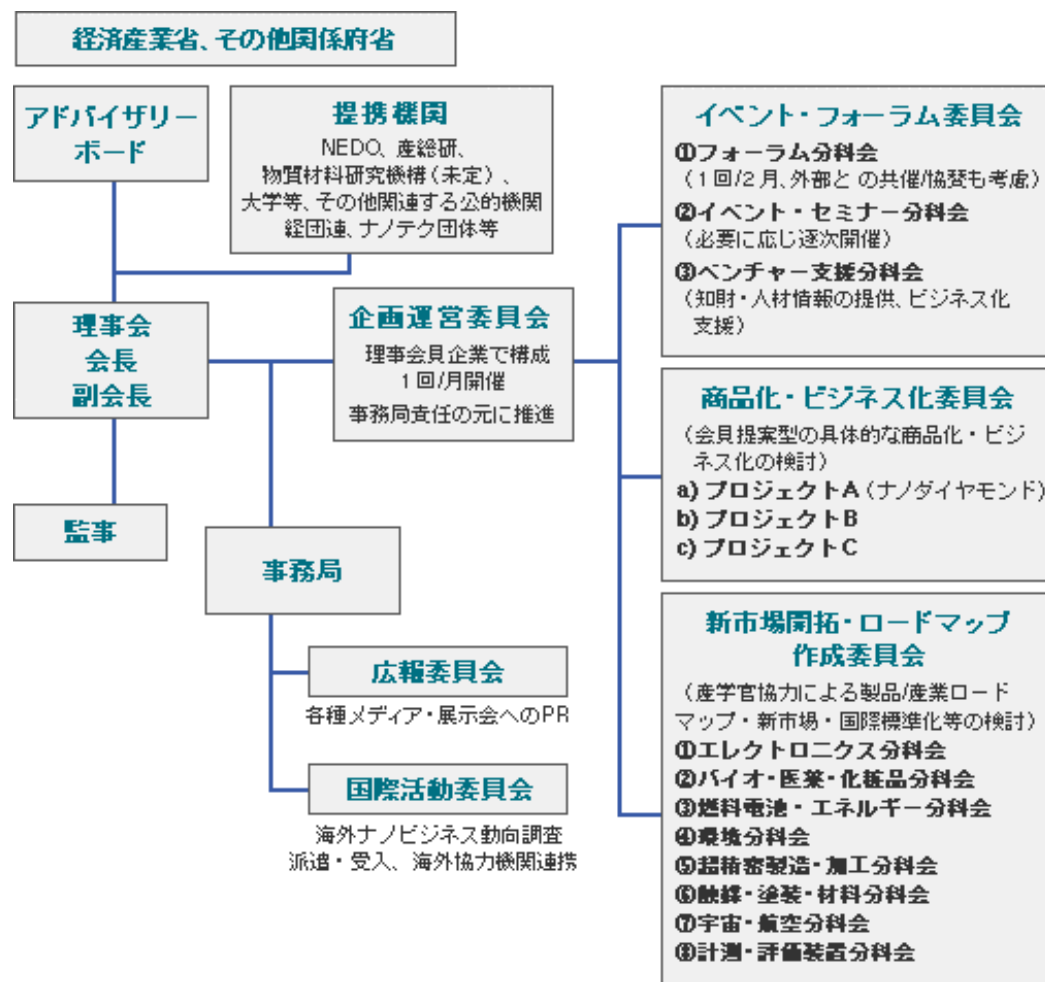
“Nanotech Power-up Program”, proposal to METI

Universities, Research Institutes



Companies

Nanotechnology Business Creation Initiative, 15 OCT, 2003



Event, Forum, Seminar

Supporting venture incubation

From R&D to Commercialization
Business Strategy

New Market
Roadmap