

Opinions about the use of the International Standardization of Nano-Technology in Japanese companies

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International Workshop on Challenges to Increased Use of Documentary Nanotechnology Standards

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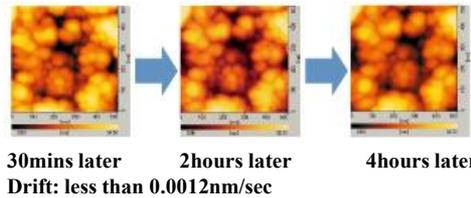
Seiko Instruments Inc.

Chair Person A committee of Standardization and Social Acceptance of NBCI

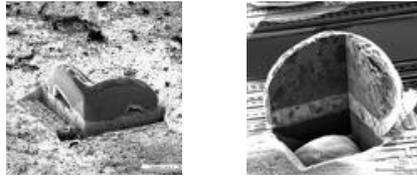
1. Direction of SII Nanotechnology as a Scientific Instrumentation manufacturer



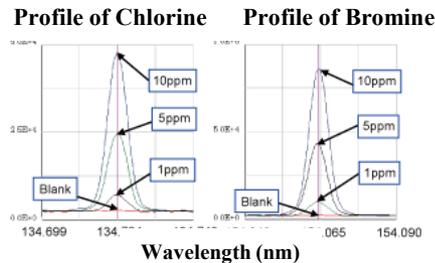
Example of Measuring & Analysis



Scanning Probe Microscope



Focused Ion Beam Equipment



ICP-MS Analyzer

Necessity and Utilization of Standardization

- Standard scale (ex. Grating)
 - Reference material
 - Protocols to measure each Nano materials
- Terminology

Improvement of reliability of Analytical Equipment

Necessity of Cooperation with other Technical Committee (such as. ISO/TC201,202)

2. About NBCI



- **NBCI** (Nanotechnology Business Creation Initiative) is an organization established in 2003 in order to promote Nano-technology related business. **Currently about 200 companies joined to NBCI**



- **Fundamental Function**

- ◆ *Committee of Technology*

- Creating a road map of Product and Technology
 - Visualization of Nanotechnology applications and progress
 - Research of technical movement

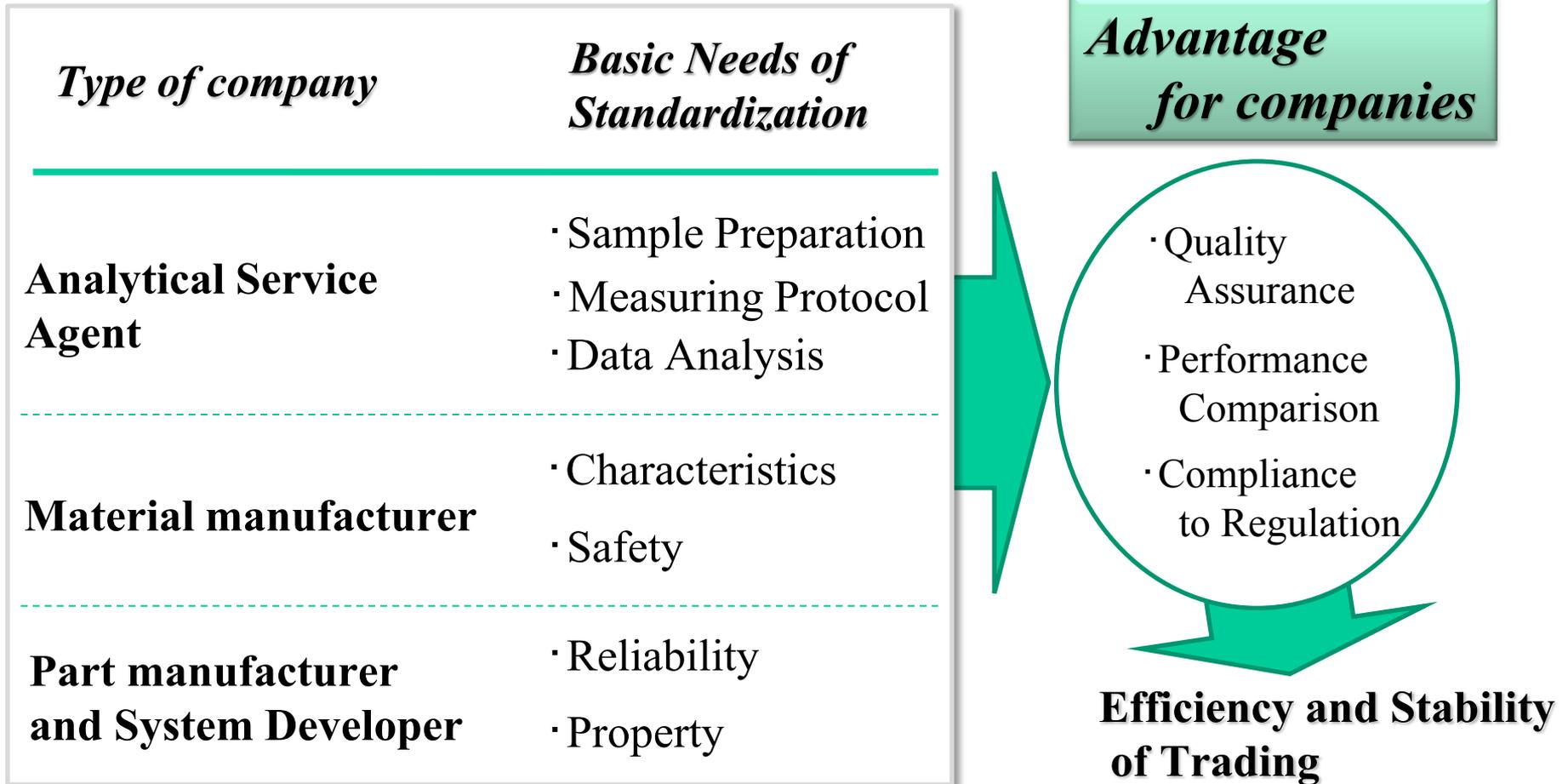
- ◆ *Committee of Standardization and Social Implications*

- Collection and Transmission of Safety Information
 - Supporting Domestic and International Standardization

- ◆ *Committee of Business*

- Business Matching among Venture Capitals, Middle Sized Companies, and Large Scale Companies

3. Standardization needs in three types of company



4. Looking-Forward Statement



1. Promoting Participation of Companies for Standardization

- **Creating and defining a standardization roadmap led by the Industry**
 - ex. Clarifying their need and its solution
- **National Backup toward the activity**
 - ex1. New Technology development
 - with National Research Agency & Universities
 - ex2. Leading RRT by National Research Agency

2. Accelerating Utilization of the Standards

- ex1. Standards linked with regulations
- ex2. Advertising the existence of Standards

5. Conclusion



- **Briefing of the direction toward the standardization of Nano-technology related Japanese companies.**

These companies, such as Material manufacturer, analytical Instrumentation Developer, Analytical Agent and/or Part Manufacturer , are looking for the standard to assure smooth trading, but their needs for standardization depend upon the type of company . Therefore, inter-connection of each company is important in the industry.

- **Describing the acceleration of participation and use of the standard by companies**

Any company understands the necessity and importance of the standard. They are not for the activity of no direct profit but external expenditure, except regulation related matter. So the support provided by the nation is necessary.

Thank you very much for your attention.