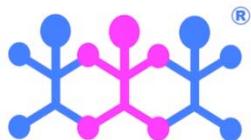


*The Challenge for
Creation of New
Industries*

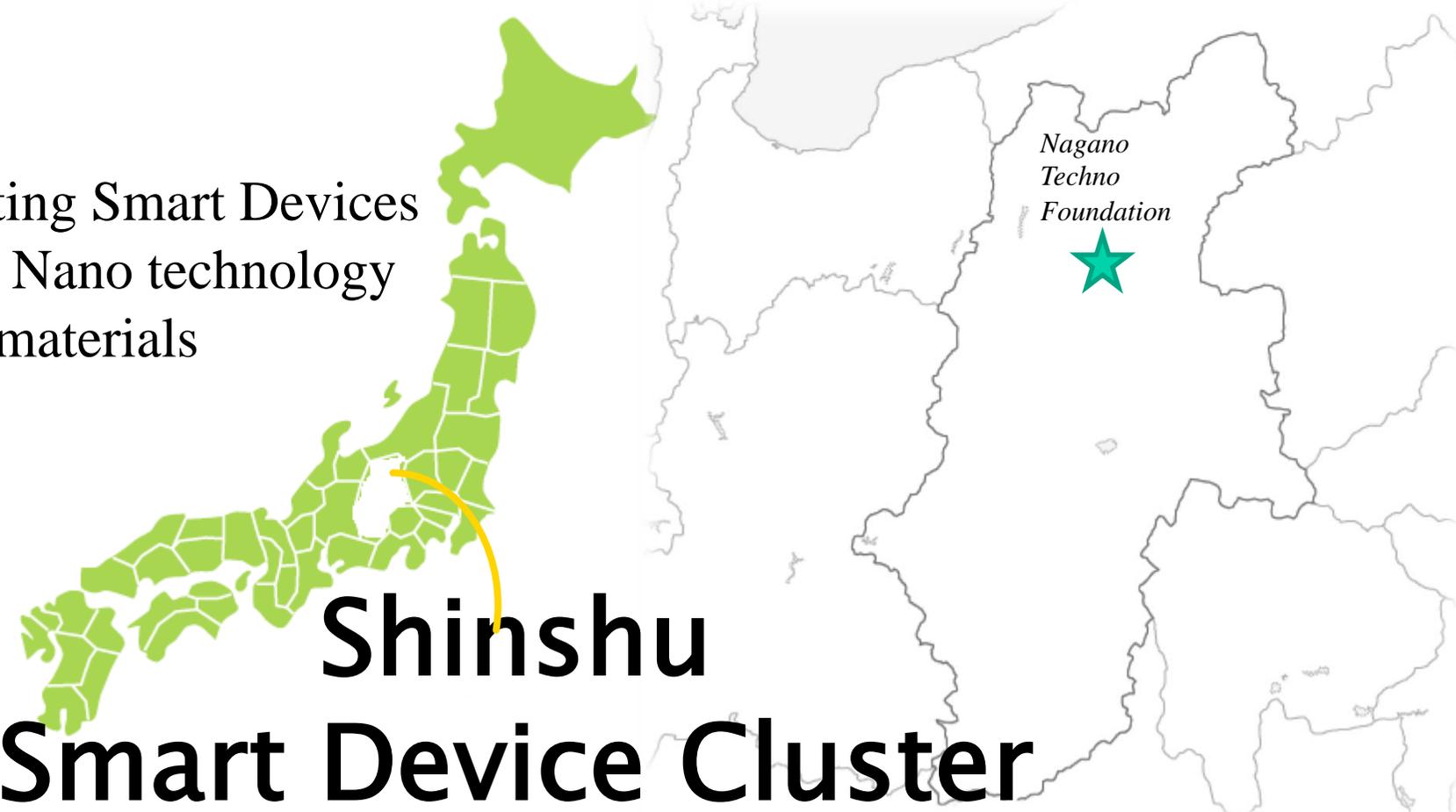
Nagano Techno Foundation

<http://www.tech.or.jp/eng/>



Nanotech Project

Creating Smart Devices
with Nano technology
and materials



**Shinshu
Smart Device Cluster
Project**

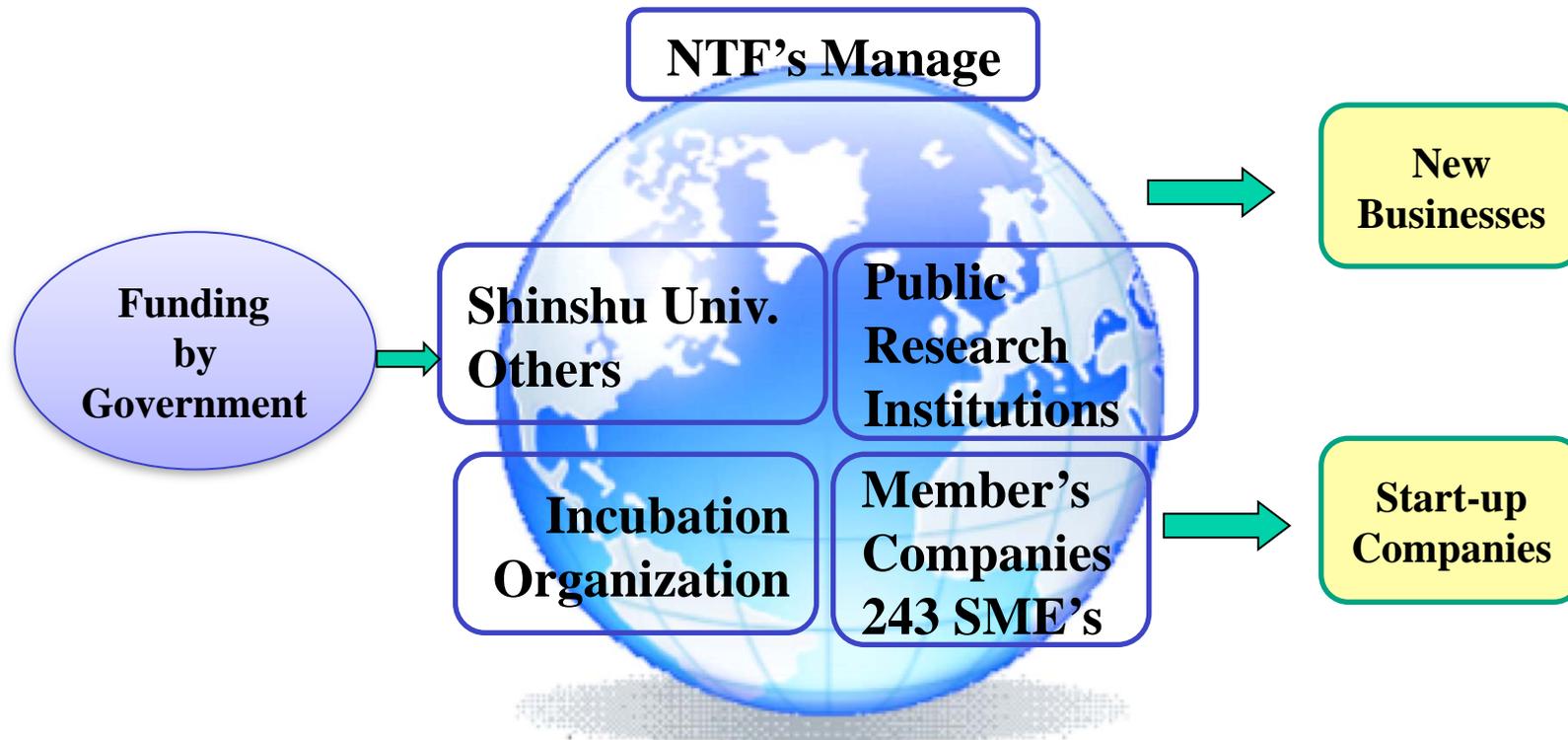
*Nagano
Techno
Foundation*



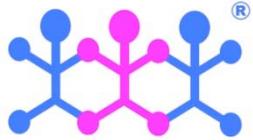
Knowledge Cluster Initiative Program (the 2nd Stage)



Shinshu Smart Device Cluster Project



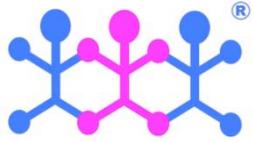
- (1) R&D for Smart Device Using Nanocarbon (CNT)
- (2) R&D for Smart Device Using Organic/Inorganic Nanomaterials
- (3) R&D for Smart Devices Using Interfacial Nanotechnology
- (4) R&D for producing Smart Devices
- (5) R&D for Functional Inkjet Ink
- (6) Establishing most Advanced Nanocarbon R & D Centers in the world



Relationship with Veneto Nanotech



- Feb. 2003: Nanotech Forum Nagano established by 243 SME's in Nagano Prefecture
- July 2007: Start Activities under the Knowledge Cluster Initiative(the second stage) supported by government (Shinshu Smart Device Cluster Project)
- Sept. 2008: Concluded MOU with Veneto Nanotech
- Sept. 2009: Annual follow-up meeting on MOU in Veneto
- Feb. 2010: Annual Nanotech Symposium in Nagano
- Mar. 2010: Annual Nanotech Symposium in Veneto
- Mar. 2010: Japanese SME's Nanotech delegation to Veneto
- Feb. 2011: Italian SME's Nanotech delegation to Nagano

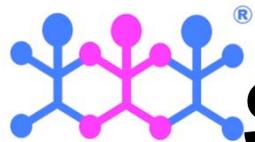


Cooperation with Veneto Nanotech

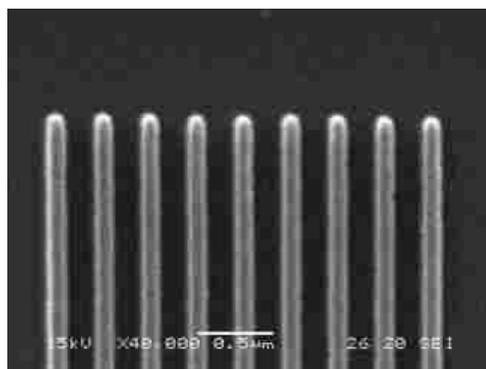


- (1) Share of the list on the patents
- (2) Share of the list on the technologies
- (3) Exchange of the coordinators
- (4) VN's technologies are more market-oriented.
- (5) NTF's technologies are more seeds-oriented.
- (6) VN applies NTF's seeds
to end-products
- (7) NTF supplies their seeds
to VN
- (8) NTF uses VN's technologies
other than CNT technologies

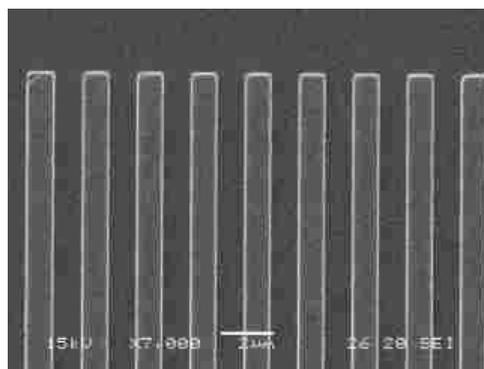




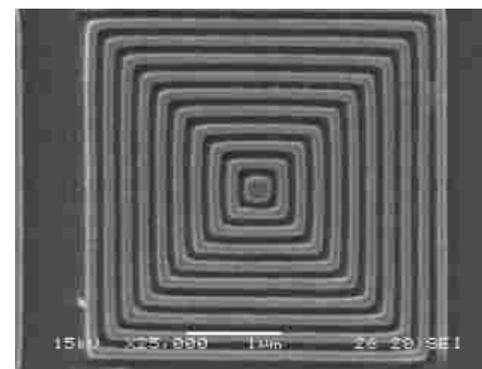
Samples of Nano Imprinting



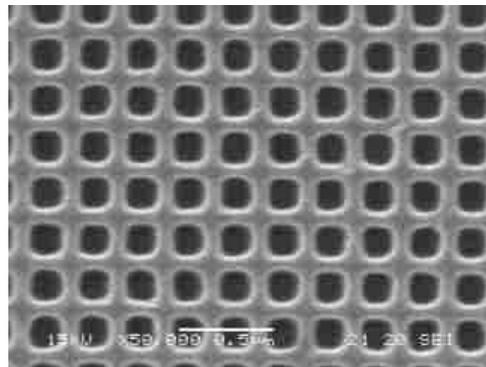
100nm Line & Space



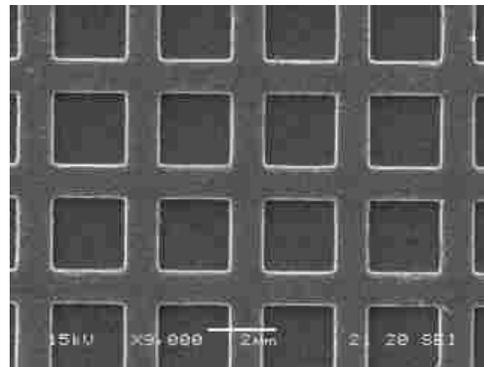
1000nm Line & Space



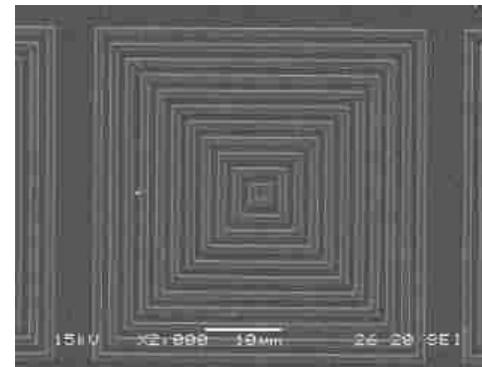
90nm O characters



80nm Grid



1000nm Grid



1000nm O characters

UV resin : PAK-02

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