



TROISK TECHNO PARK

The Key Element of Troitsk Innovative System

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ТЕХНОПАРК
троицк

Meeting with Korea-Russia Industrial Technology Cooperation
Center Delegation, Troitsk, 13 October 2008

- State research center with 12 R&D physical institutes;
- Strong educational system with MSU and MIPT departments;
- More than 10 thousands of well-skilled technical specialists;
- More than 50 science intensive companies in IT, laser technologies, nano-technologies;
- Best dislocated – 20 km from Moscow.

Existing possibility for high-tech cluster development

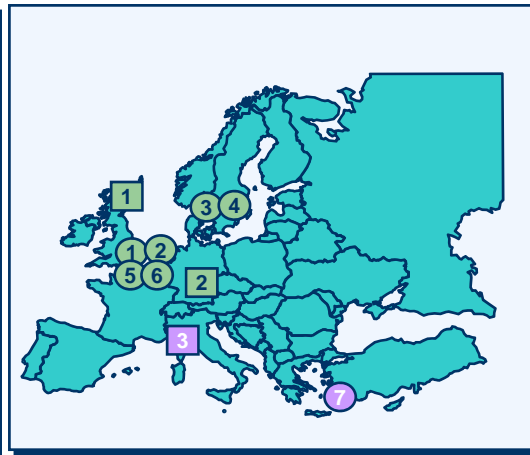
MANY LEADERS DEVELOPED IN CLUSTERS

- In technoparks
- In other places

Northern America



Europe



Asia



1993-1998

- ① America Online, VA
- ② Peoplesoft, Pleasanton/CA
- ③ US Robotics, Chicago
- ④ Cisco Systems, San Jose
- ⑤ Parametric, Walham/MA
- ⑥ EMC, Boston
- ⑦ Com, Santa Clara

- ① Parity PLC, London
- ② DCS Group, London
- ③ WM Data, Stockholm
- ④ Allgon, Stockholm
- ⑤ Psion, London
- ⑥ MMT Computing, London
- ⑦ Aseson Askeri, Ankara

- ① Namtech Electr. Device, Bangalore
- ② Advandec Info Service, Bangkok
- ③ Acer, Taipeh
- ④ KCE Electronics, Bangalore
- ⑤ Hana, Bangkok
- ⑥ Shanghai Yangzhong, Shanghai
- ⑦ Videsh Sanchar Nigam, Mumbai

Leaders

1999-2005

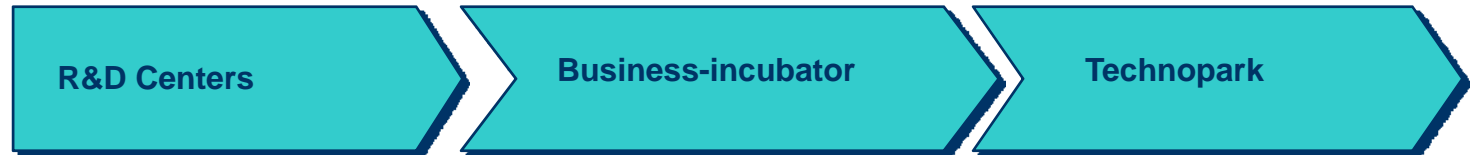
- ① Niku corp., Redwood City/CA
- ② DSL.net inc., New Haven/CT
- ③ Findwhat.com, Fort Myers/FL

- ① Innovation Group PLC, Hampshire
- ② Net Insight AB, Stockholm
- ③ Tiscali SPA, Cagliari

- ① C4 Technology inc., Tokyo
- ② Gigno System Japan inc., Tokyo
- ③ Celartem Technology inc., Kyoto

Future Leaders

CLUSTER MAY SUPPORT DIFFERENT STAGES OF INNOVATIONS



Main activities

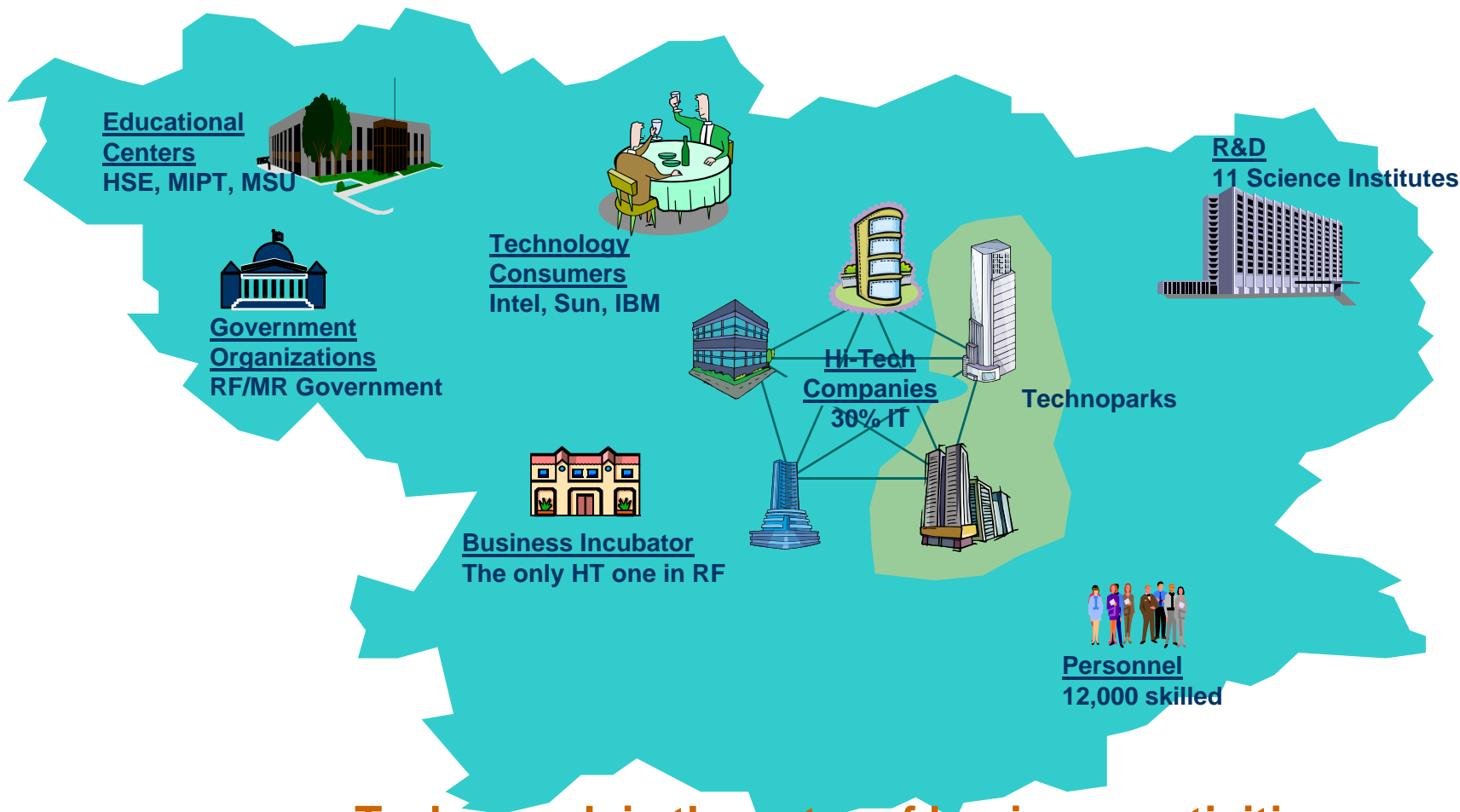
- R&D
- Technologies commercialization
- Stimulation of sector development

Description

- Laboratories;
- Basic science
- Applied science
- Education
- Granting of services and infrastructure for start-ups;
- Tenders of business-plans and ideas for financing
- Business-centers
- Individual conditions for “anchor” companies
- Territory with engineer infrastructure for constructions of offices and plants






Result

- Creating of new technologies
- Starting new business-ideas
- Easy to create new company
- Growth of competitiveness at the expense of synergic “cluster” effects



Technopark is the ceter of business activities

WORLD PRACTICE: 3 MAIN TYPES OF TECHNOPARKS

| Models | 1 World leaders | 2 Innovators | 3 Workshop |
|---|---|---|---|
| Conception | <ul style="list-style-type: none"> Using market tools | <ul style="list-style-type: none"> Development of supporting sectors | <ul style="list-style-type: none"> Concentration of resources on main tasks |
| Type | <ul style="list-style-type: none"> Science park | <ul style="list-style-type: none"> Technological park | <ul style="list-style-type: none"> Technological park |
| Specialization | <ul style="list-style-type: none"> Hi-Tech | <ul style="list-style-type: none"> IT | <ul style="list-style-type: none"> Software development |
| Management system | <ul style="list-style-type: none"> Decentralized Social associations | <ul style="list-style-type: none"> Coordination by the Government | <ul style="list-style-type: none"> Centralized Non-profit organizations |
| Preferences/financial motivation | <ul style="list-style-type: none"> State order Grants for R&D | <ul style="list-style-type: none"> Tax and customs preferences for innovative companies | <ul style="list-style-type: none"> Tax and customs preferences for export-oriented companies |
| Financing start-ups | <ul style="list-style-type: none"> Open venture investments market | <ul style="list-style-type: none"> Venture funds with State equity | <ul style="list-style-type: none"> Western venture capital |
| Examples |  USA  UK |  Ireland  Israel |  India |

Technoparks in Russia are of mixed type

TECHNOPARKS IN RUSSIA. PILOT REGIONS

Moscow region

- More then 10 well-known science centers with good human resources potential
- Efficient transport accessibility
- Bottom-up Initiative efforts (Dubna, Troitsk, Dmitrov, Chernogolovka)

Sankt-Petersburg

- Proximity to European markets
- Existing engineering centers of major companies (Motorolla, Siemens, Alcatel etc.)

Novosibirsk

- High potential of human resources of Siberian department of RAS
- Many companies working on external markets

Nijniy Novgorod

- High educational level, proximity of large science centers
- Low wage costs for well-skilled specialists

TRADITIONAL
SCIENCE
CENTERS

- Government Program “Technoparks development in Russia”:
 - Budget investments to bring engineering infrastructure to “green-field”;
 - More than \$ 500 mln. in 2006-2010
- Russian Venture Company:
 - Up to \$ 400 mln. for creating of venture funds
- State Corporation “ROSNANOTECH”
 - \$5 bln. for innovation infrastructure development and project financing (tender basis)

- For existing companies – technopark reduces costs, allows entrance to new markets, provides access to new technologies and education people
- For start-ups – support on all stages from idea generation till successful launch of commercial product
- For investors – new investment opportunities, deal transparency and risk mitigation

- For scientists – new outsourcing orders, new ideas and people, new partners and market trends understanding
- For government – support of small and medium size business, new working places, additional taxes, increase growth speed of high-tech sectors, strengthen position of Russia on international IT market

- Part of Government Program “Technoparks development in Russia”
- **Key Points:**
 - Science and technological outsourcing
 - Supported by more than 30% of total Russian IT companies
 - Education – HSE, MIPT and MSU
 - Business-incubator launch – February 2008
 - Co-organizer of “SVOD” Conference in Silicon Valley, CA

- **Phase 1 Development (2007-2009)**
 - Started in 2007
 - Business-incubator launch
 - Construction of Mixed Use Building (Offices and apartments for High-Tech Companies) and High-Tech office complex
- **Phase 2 Development (2009-2011)**
 - 12 hectares plot of land
 - 2 Data-centers
 - 100,000 sq.m. of high-tech offices
 - Construction starts in 2009
- **Phase 3 Development (2011-2020)**
 - Further development using RAS resources

Troitsk Technopark is ready-to-implement for any kind of high-tech requests

Resources:

- **Huge R&D potential of Science Institutes**
- **Wide science and HT connections in Russia and throughout the world**
- **Some HT companies have strong connections with South Korea**

Technoparks are the gateway to russian innovations

PROJECT PARTNERS



Leading IT-companies:



CONSULTANTS:



U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION

NORTHSTAR CORPORATE FINANCE

MEMBER OF HSH NORDBANK GROUP

**Thanks for your
attention!**

www.it-park.org

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