



St Petersburg Electrotechnical
University "LETI"
Nanotechnology Centre



St. Petersburg's Nanotechnology Competence Mapping

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Selection criteria

- **Russian Nanotechnology Network (RNN)**
- **Research Educational Centers**
- **5 Federal Programs projects**
- **Rusnanotech projects**
- **European projects (FP7: NMP, IST)**



Russian Nanotechnology Network (RNN): 50 Members

- Central research institute of structural materials "PROMETEI"
- The Immanuel Kant Baltic Federal University
- National Research University ITMO
- St. Petersburg Electrotechnical University "LETI"
- St. Petersburg State Mining University
- St. Petersburg State Polytechnical University
- St. Petersburg State University

Threshold: nanotech equipment (2,5 M€, not earlier 2008)



Research Educational Centers: 40

- Immanuel Kant Baltic Federal University
- National Research University ITMO
- St. Petersburg Electrotechnical University "LETI"
- St. Petersburg State Mining University
- St. Petersburg State Polytechnical University
- St. Petersburg State University

Established in 2008 under Nanotechnology Infrastructure
Development, Federal Program



5 Federal Programs Projects: 502

Source: mon.gov.ru

St Petersburg's share: 46 (9,1%)

- **"PROMETHEY": 12**
- **St. Petersburg State University: 7**
- **"LETI": 5**
- **Polytechnical University: 4**
- **Ioffe Institute: 3**
- **National Research University ITMO: 2**
- **Immanuel Kant Baltic Federal University: 1**
- **St. Petersburg State Mining University: 1**



Rusnanotech projects: 49/92

Source: www.rusnano.com

St Petersburg's share: 4/10

- 1. Photovoltaic: 2/2**
- 2. Optoelectronics & nanoelectronics: 1/7**
- 3. Metal-working: 1/1**

loffe Institute: involved in 3 project (1, 2)

LETI: 1 project (2) + 2 training projects (1)



European projects (FP7: NMP-19, ICT-21)

Source: www.cordis.eu

St Petersburg's share: NMP-2, ICT- 5

- **"LETI":** **3 (NMP-2, ICT-1)**
- **ITMO:** **2 (ICT)** Finnish Partner:
ITÄ-SUOMEN YLIOPISTO
- **Ioffe Institute:** **2 (ICT)** Finnish Partners:
Turun Yliopisto, Gasera OY



European projects FP7 ICT

Source: www.cordis.eu

IOFFE: Miniaturised photoacoustic gas sensor based on patented interferometric readout and novel photonic integration technologies, MINIGAS

ITMO: SME's Training and Hands-on in Optical Design and Simulation, SMETHODS



Conclusion

- ❖ St. Petersburg's Nanotechnology community holds 3-4 position in research, manufacturing and training all over Russia with the share 9-10%
- ❖ Optoelectronics & Nanoelectronics are the most advanced areas in St. Petersburg's nanotechnology recognized internationally



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Thanks for your time

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