



Innovative Infrastructure: Nanotechnology Centers



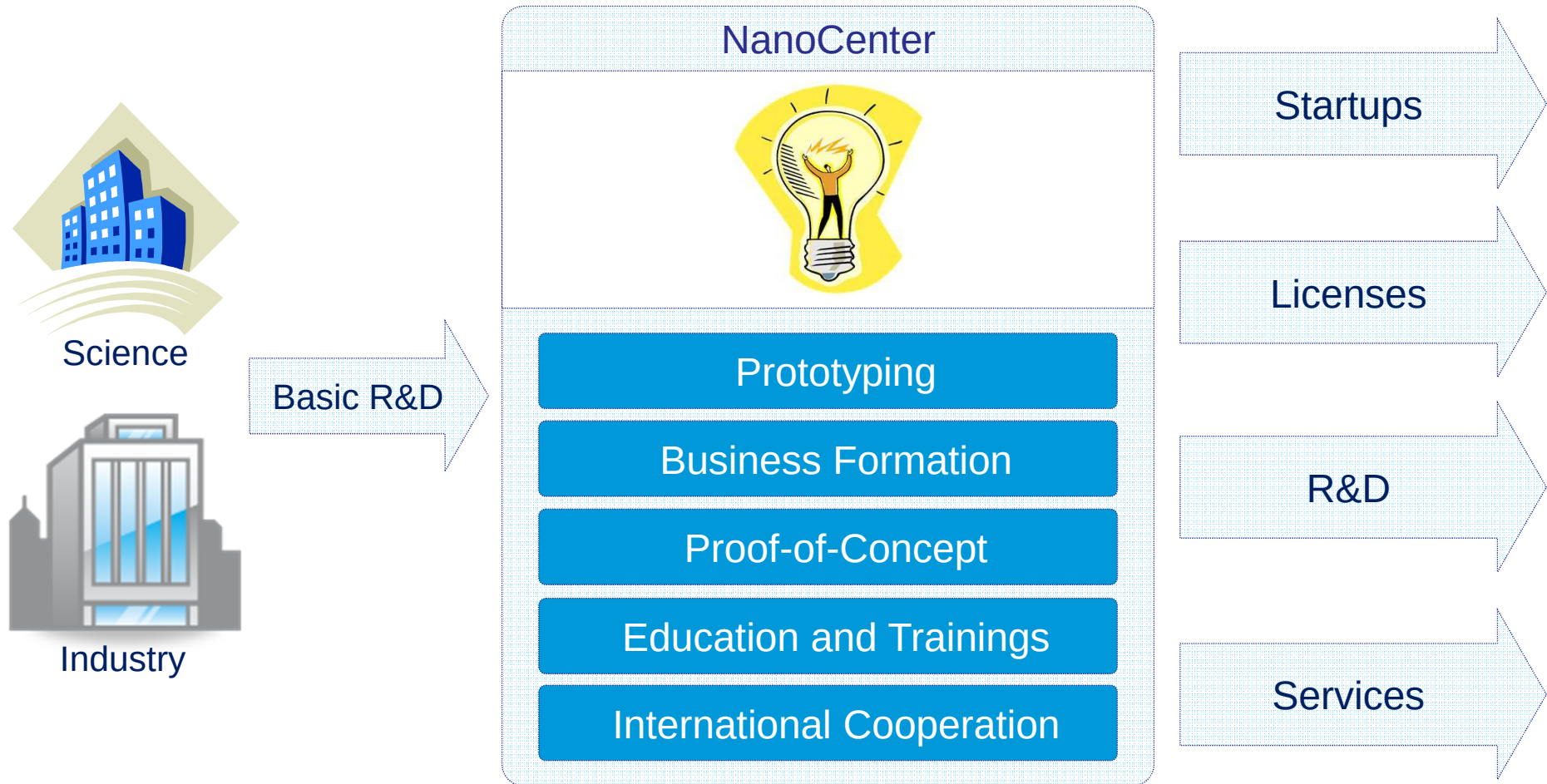
November 9, 2013
RASA Annual Conference, Tampa, FL

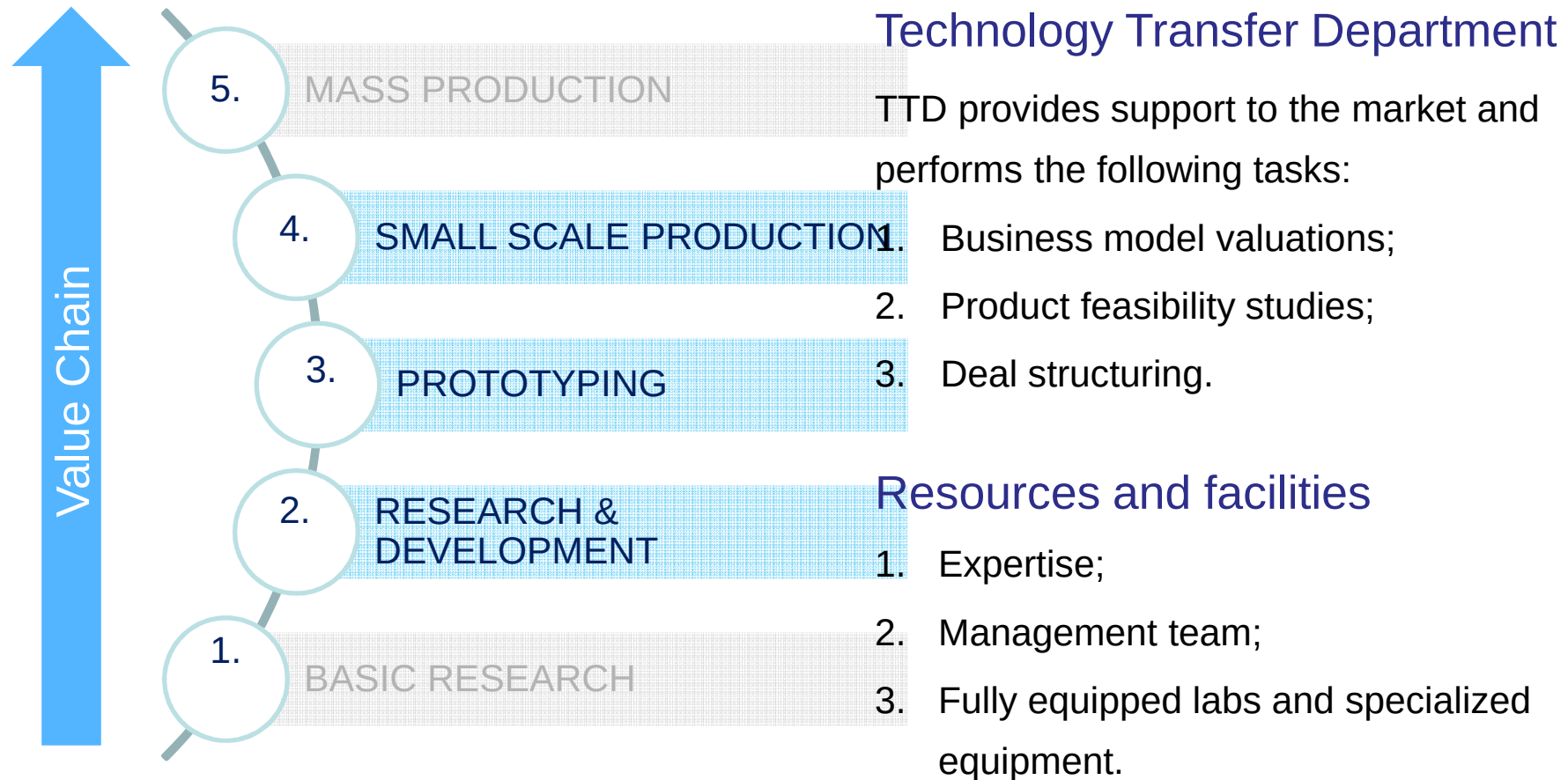
Nanotechnology Centers

NanoCenters focus on early stage investments in nanotechnology projects and commercialize IP through licensing and start-up creation.

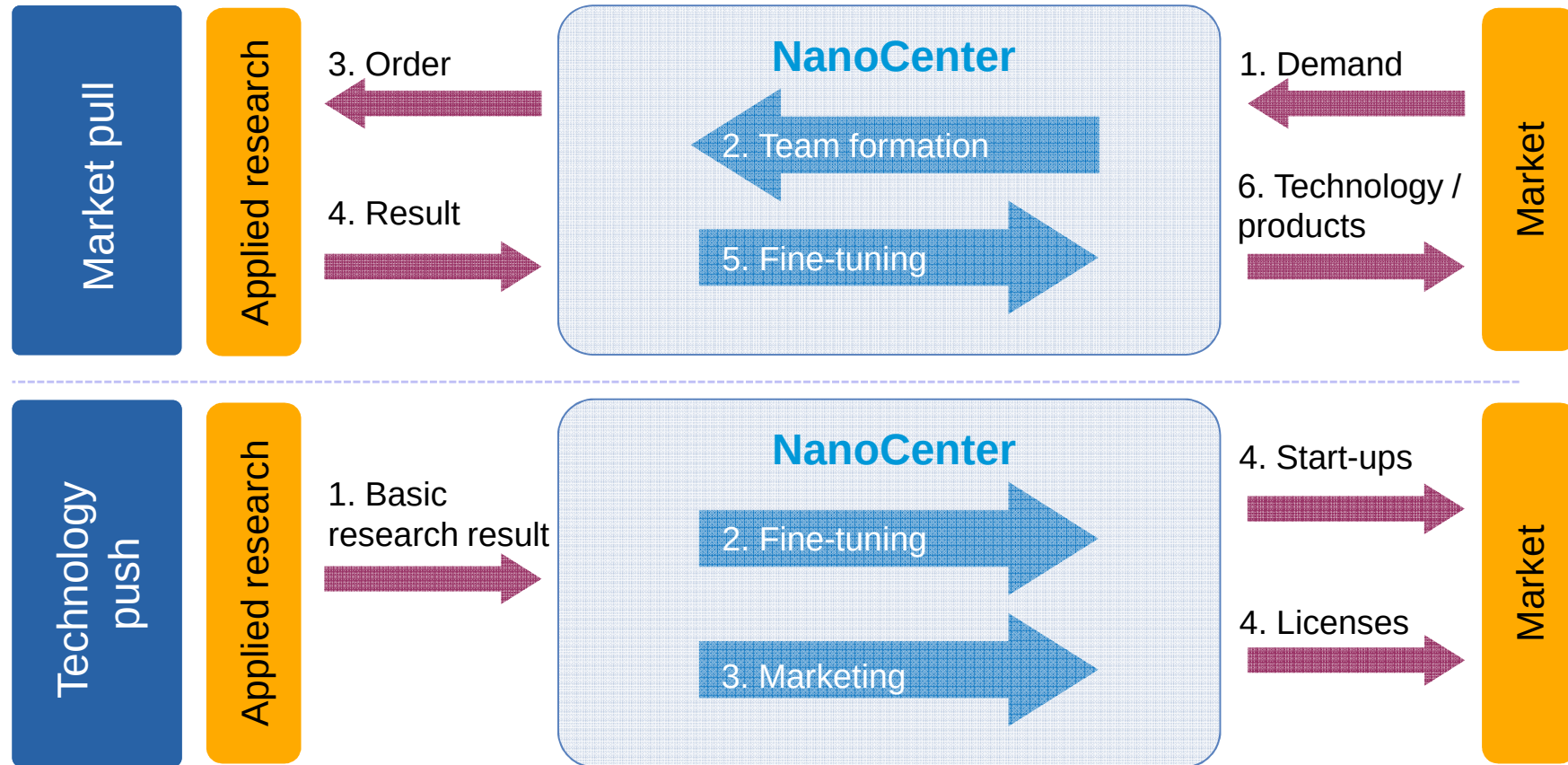


NanoCenters: Business Model





NanoCenters: Commercialization Model

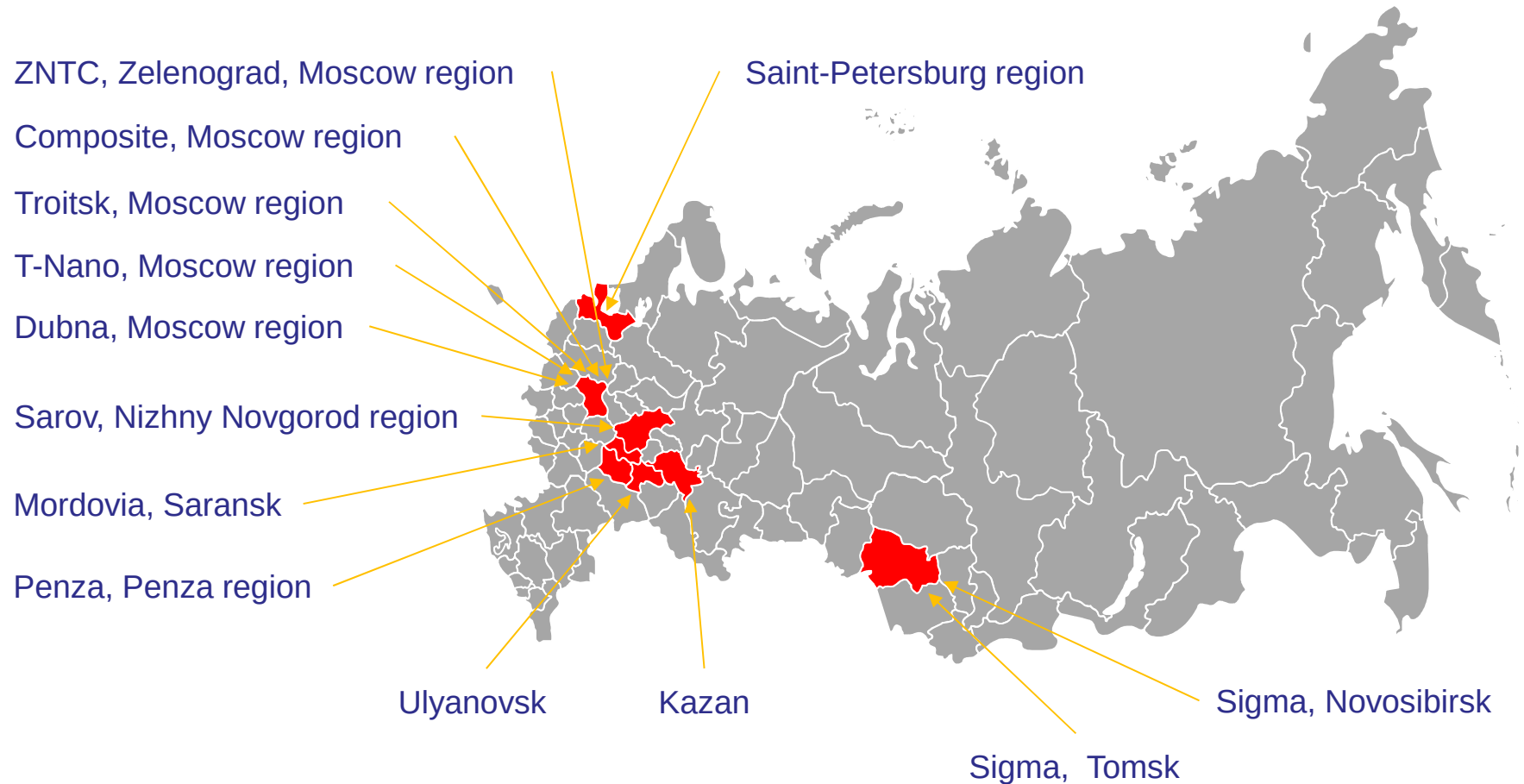


Nanocenters target existing demand by the market as well as yet-to-be-established markets and niches.

NanoCenters: Locations

Average NC budget: \$ 80 million

- Equipment: \$ 40 million
- OPEX: \$ 13.4 million



NanoCenters: Key Figures

FIEP resources

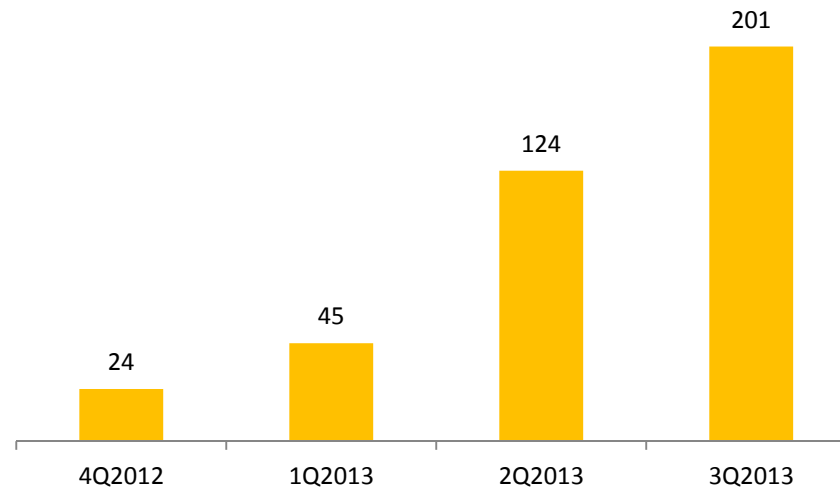
- ✓ Total budget of launched NCs: \$ 786.6 million;
- ✓ FIEP investments YTD: \$ 286.6 million;
- ✓ Co-investors investments YTD: \$ 280 million.

2H2013 status:

- ✓ 11 opened NCs;
- ✓ Revenue: \$ 12.17 million;
- ✓ 10 projects with international partners;
- ✓ 201 start-ups

KPI-2015

- ✓ Fully operational network of NCs;
- ✓ 400 start-ups;
- ✓ 250 licenses.





NanoCenters: Specializations



Центр нанотехнологий
Республики Татарстан

Kazan

1. Oil and gas;
2. Low-volume chemistry;
3. Catalysts;
4. Composite materials.



SYGMA
Novosibirsk

Sigma Novosibirsk:

1. Biomedical;
2. Instrument engineering;
3. New materials.



Composite:

1. Composite materials.



Troitsk:

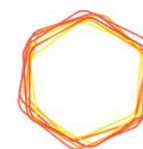
1. Applied laser technology;
2. Artificial diamonds;
3. Technology support center;
4. New electronics;
5. Personal medicine.



SYGMA
Tomsk

Sigma Tomsk:

1. Design and development of nanoelectronic components;
2. Biomedical;
3. Telecom;
4. Rad-tech.



ULNANOTECH

Ulyanovsk:

1. Construction and development;
2. Car-components;
3. Aviation and space industries.

T•NANO

T-Nano:

1. Design of nanoelctronics;
2. Semiconductors.



Saint-Petersburg:

1. Rad-tech;
2. Nanoelectronics;
3. Nanomaterials.



Dubna:

1. Rad-tech;
2. Functional nano-composites;
3. New materials;
4. Nano biotechnology.



Saransk:

1. Power electronics;
2. Light and LED;
3. Instrument engineering;
4. Construction and development



Zelenograd:

1. Micro- and nano-electronics;
2. Biotech;
3. Energy efficiency.



NanjCenters: Partners



JOINT-STOCK FINANCIAL CORPORATION
SISTEMA



DOWAKSA



DowChemical

Negotiations with Dow Akxa (Dow Chemical subsidiary) re Composite nanocenter investment. Initiated in 3Q2012, right now at the deal structuring and due diligence stage.



IMEC

Joint technology center with IMEC in Troitsk (agreement reached in 4Q2012). Planned for launch in 2013.



InterMolecular

R&D platform in thin films.





Support for Russian Scientists

The Fund encourages participation of US-based scientists of Russian origin in our projects.

We invite interested parties as:

- **Project contributors,**
- **Independent experts / estimators,**
- **Resident scientists,**
- **Company founders.**

Examples include: BiOptix Diagnostics Inc., BIND Therapeutics, Selecta BioSciences, SynBio, Joule Unlimited, BEBIG etc.

For more information, please visit: <http://en.rusnano.com/portfolio/companies>



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FUND FOR INFRASTRUCTURE
AND EDUCATIONAL PROGRAMS

Thank you!

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