



RUSNANO
Russian Corporation of Nanotechnologies

RUSNANO: Driving the Nanotech Industry Growth





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Russian Corporation of Nanotechnologies

- **RUSNANO** state corporation est. 2007
- Initial capital ~ €3.25 billion
- Mission: **Develop Nanotechnologies in Russia; Modernize Russian Industry**
- Business acting as: Private Equity / Venture Capital investment fund
- Regulatory acting as: “Ministry of Innovations”
- Primary activity – Investments into business (manufacturing)

International projects are welcomed

«Nanotechnology is one of the most promising sectors of the rapidly developing innovation economy. The total amount of Nanotechnology funding has already reached \$15 billion world-wide. In the next 5-6 years, experts say the industry will grow to the stunning sales figure of \$2 trillion». – **Anatoly Chubais,**
CEO and Executive Board Chairman



Investment key services

Projects:

- Early Stage (at least prototype)
- Expansion Stage (up to...)
- Manufacturing (production)
- Location - Russia

Financing:

- Up to 75% (RUSNANO's total)
- Loans: up to 10 years
- Ownership: < 49%

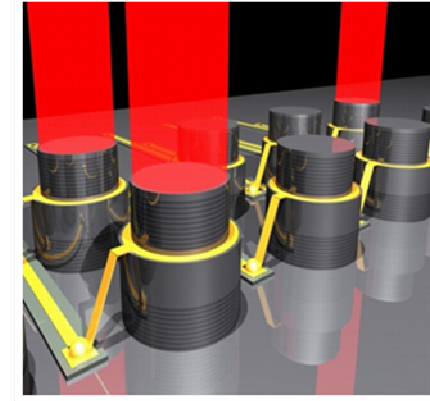
In addition to cash:

- Production facilities
- Administrative, Regulation, Promotion support
- Access to protected technologies and markets in Russia

Basic condition – location in Russia



Investment criteria



Requirements:

- Manufacturing
- Relation to Nanotechnology
- Scientific and technological feasibility (proof-of-concept clearly defined)
- (at least) lab prototype
- Overall positive investment appeal
- Revenue of at least €6 mln by the 5th year of project development

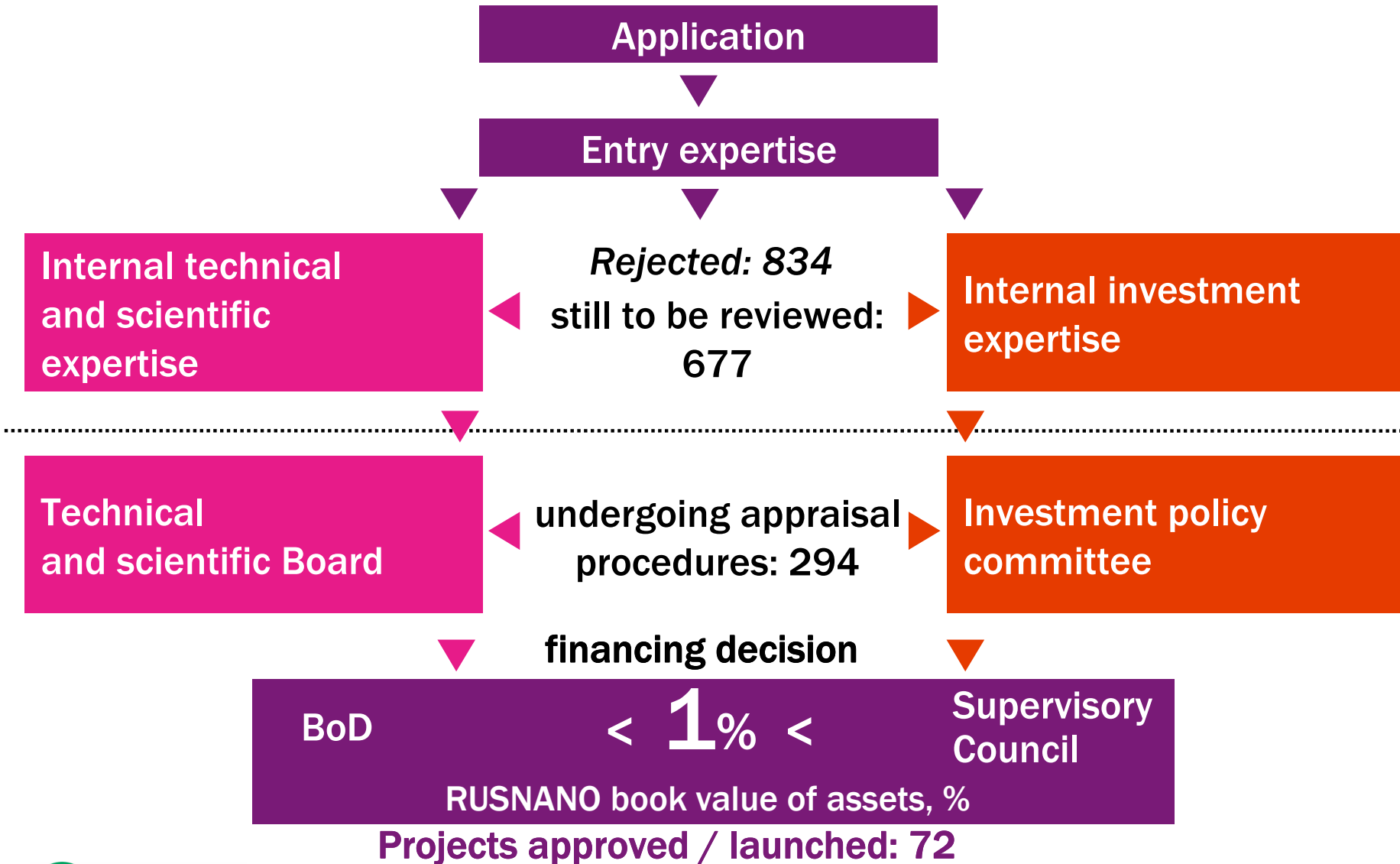
Advantages:

- New products, services and application platforms development
- Unlock new market segments acquisition
- Allow exceed product's existing technical and economical parameters
- Allow Lab-to-Market bridging

Basic condition – location in Russia

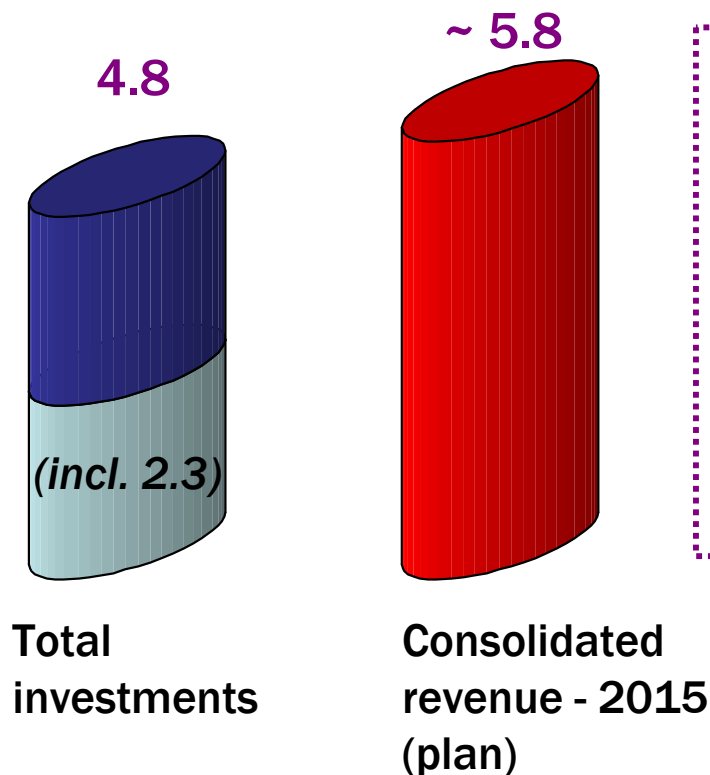
Investment Project Selection Mechanism

1.04.2008 – 16.04.2010, total applications: 1582



Investment Projects: Summary

€ billion



- Approved by the Supervisory Council: **64 projects**
- Total investment volume: **€4.8 billion**
(incl. RUSNANO's share: **€2.3 billion**)
- Consolidated revenue - 2015 (planned): **~ €5.8 billion**

In Q3 2009, RUSNANO achieved the planned “project capacity” – a minimum of 15 projects per quarter. It makes our strategic task possible:

to ensure production volume of Russian nanoindustry by 2015 – €30 billion per 1 year

Case1: OPTO- and NANO-electronics

From Start-Up in Germany to mass-production in Russia

- Applications: all segments of the light engineering market
- Advantages: energy efficiency, durability, environmental safety
- Ensures significant energy cost reduction. Reduce the loading of power generating facilities

Project participants

- OptoGan – technology developer
- Financial co-investors – ONEXIM Group, “RIK” OJSC

Project status

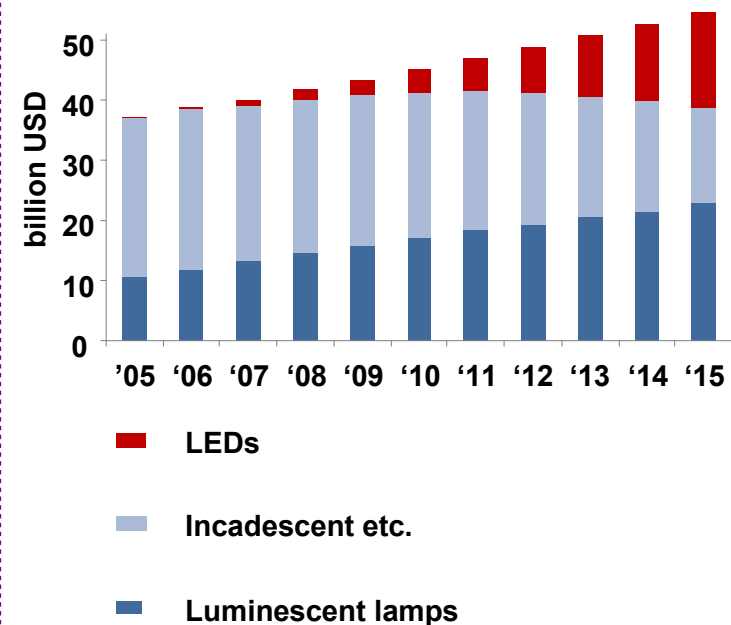
- Project financing commenced. Production – Q3 2010

Financial indicators

- Required investment (total/ RUSNANO): €75.4 million / €40 million
- Invested: €28.8 million / €6.7 million
- Revenue in 2015: €164 million



Dynamics of the Global Light Engineering Market



Sources: Strategies Unlimited, RBC, 2009

Case 2. Solar energy (Thin Films)

Leading-edge thin films technologies for solar modules production

Applications: large power generating companies, private households, facilities requiring independent power sources

Project participants

- “Oerlikon Solar” – technology developer
- Financial co-investor – Renova

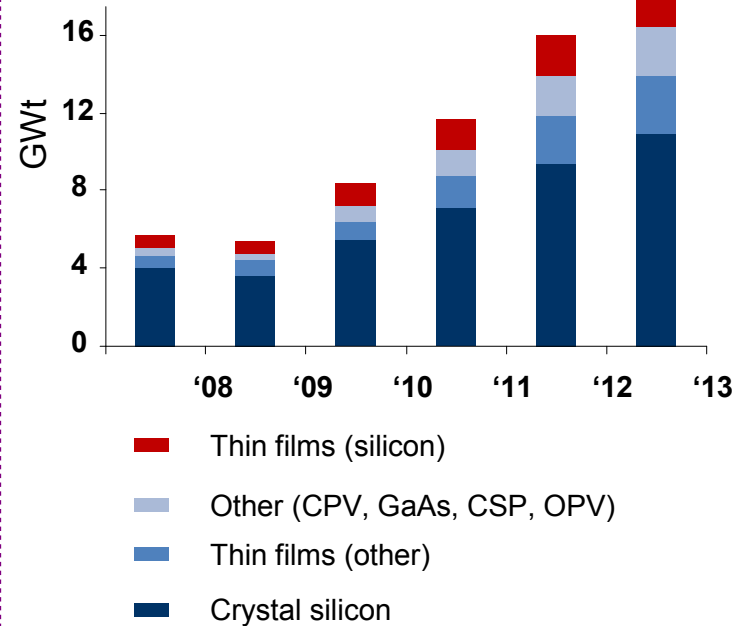
Project status

- Project financing commenced

Financial indicators

- Required investment (total/RUSNANO): €445.6 million / €299.3 million
- Invested: €79.8 million / €79.8 million
- Revenue in 2015: €228.3 million

Solar Plant Installed Capacity Growth by Technology



Sources: Photon Consulting, 2009

Case 3. Life Science

Cascade plasmapheresis

medical equipment production: cascaded blood plasma purification and other methods of hemocorrection

Financial indicators

- Required investment (total/RUSNANO): €60 million / €28.6 million
- Revenue in 2015: €90.5 million

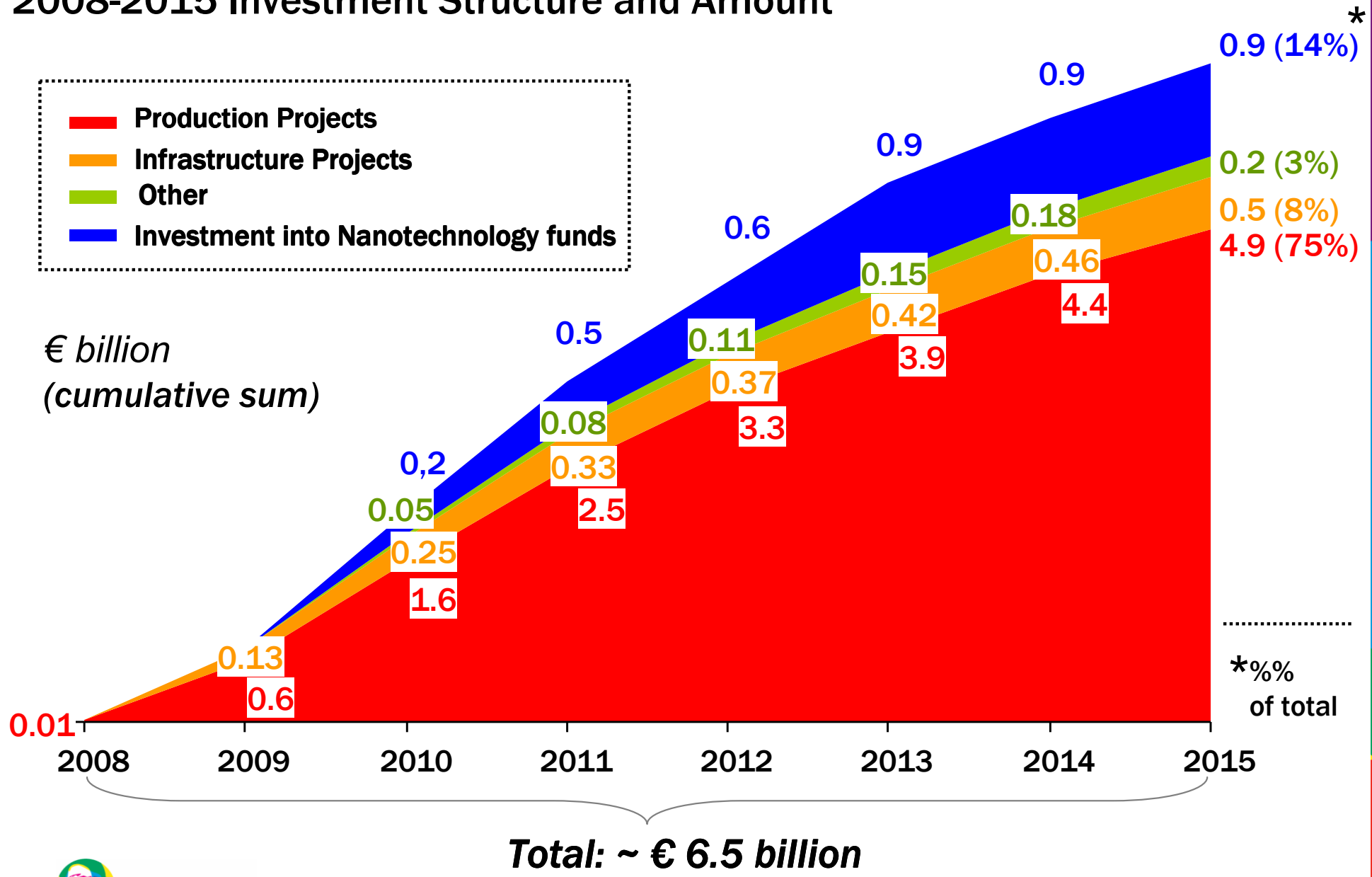
Project social value:
Treatment of cardiovascular diseases and acute toxic exposures

Annually, application of the cascade plasmapheresis method helps to prevent over 21,000 deaths in Russia

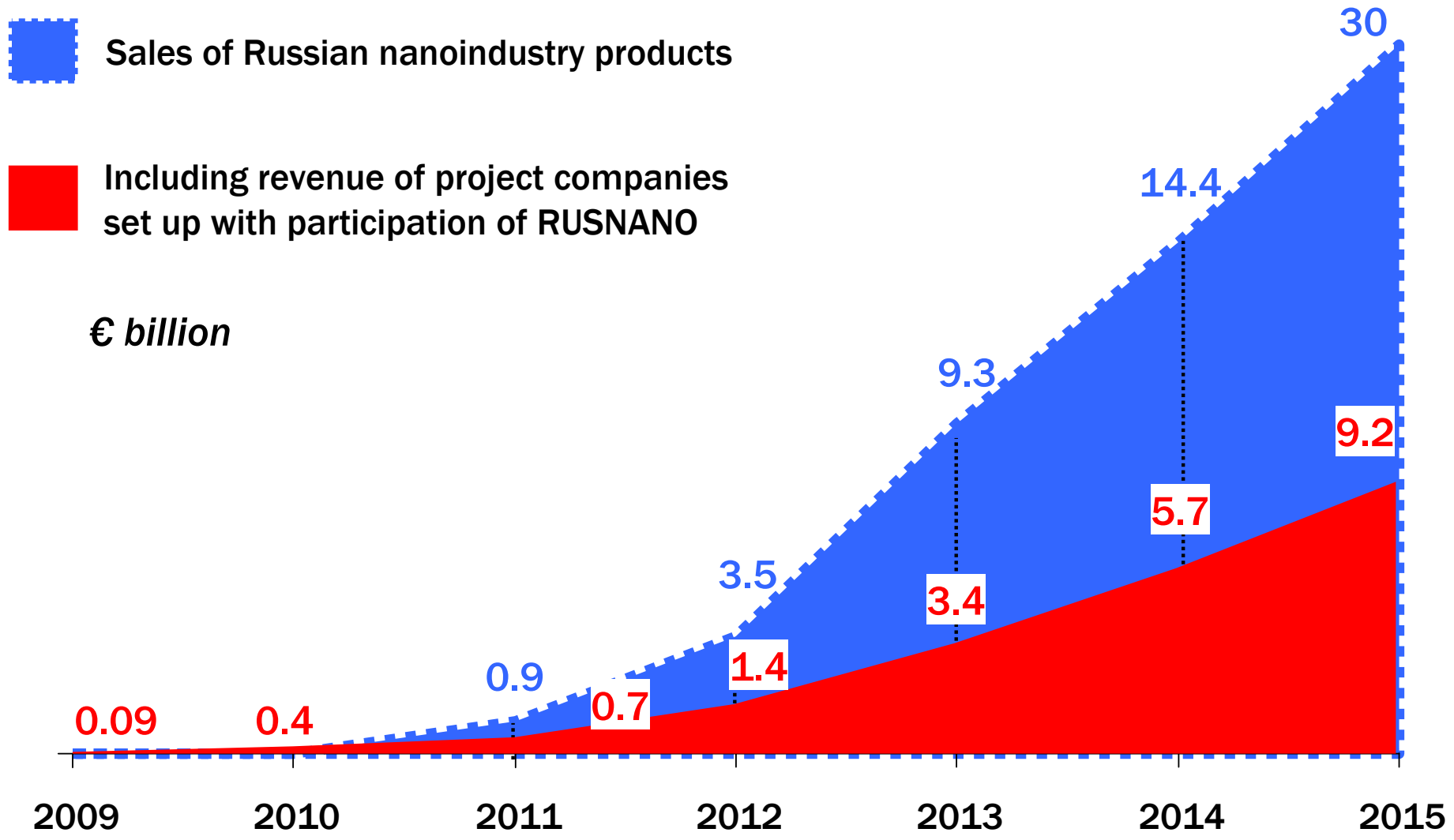
Sources: Russian Cardiological Research-and-Production Complex, Hematological Research Centre



RUSNANO financed projects: 2008-2015 Investment Structure and Amount



Dynamics of the Russian Nanoindustry Market: Forecast



RUSNANO welcomes opportunities to collaborate with foreign companies, governmental organizations, investment funds

RUSNANO: Financial and non-financial support for co-investors



YOU:

- Apply for your project financing
- Invest in joint project together with RUSNANO
- Further develop your technology with RUSNANO
- Get inspired with new ideas at annual Moscow Nanotechnology International Forum (www.rusnanoforum.ru)

Basic condition – location in Russia