



### **Observations from Finnish-Russian Innovation Alliance on Nanotechnology**

- Russia has a very strong scientific base
- Lots of underutilized commercialization opportunities
- Lack of tradition and resources necessary for international business development
- Patenting is a serious bottleneck
- Russian operating environment not very supportive for entrepreneurship

Finland and Russia can complement each others to accelerate the commercialization process, find experienced business staff and create presence in the European Union

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### **Commercialization Difficulties Stem From Business Problems, Not From Technology**

#### Over 50 commercialization cases evaluated

- No clear customer sector \* 3
- Entering an existing market with a product that's advantages are not clear.

  • No market potential, solution with no real commercial problem to solve
- Benefits vs. costs are not clear \* 2
- IPR issues, Global patents owned by competitors. \* 2
- Lack of international experience
- Lack of knowledge about how the market/customers operate.
- Lack of knowledge about the customers/markets.
- Financing, no money to build proof of concept, not getting investments before proof of concept.

- · Idea already tried elsewhere with no success.
- real commercial problem to solve
- · No relevant interested partners identified
- · Not compatible with related western standards
- Possible competitors are large multinational corporations
- Problems with international partners
- References are kept as a secret
- The research the innovation is based on has not been published in international journals -> credibility

Source: Finnish-Russian Innovation Alliance on Nanotechnology

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## There Is a High Risk of Failure in Technology Commercialization

- Lack of International Commercialization Experience
- Limited pool of internationally experienced business talent
- Alarming situation in IPR management limits opportunities for international licensing and Start-Up fundraising



As a result, enormous hardware investment in science may **fail** to bring the expected **commercial** results and improvement of Russia's **international competitiveness** 



### Two Approaches To Technology Commercialization

"A solution looking for a suitable problem"

- Technology-centric approach
- Many possible applications
- Limited understanding of customer needs
- Lack of customer focus
- Impossible to prioritize the product features needed
- Difficult to assess the commercial viability
- High risk

Identifying a commercially relevant problem

- We have a hunch that only we could solve the problem...
- Assess the market potential for the solution
- Who are the customers, how many, where
- How much does the lack of solution cost?
- What's the maximum cost to offer attractive ROI to the customers

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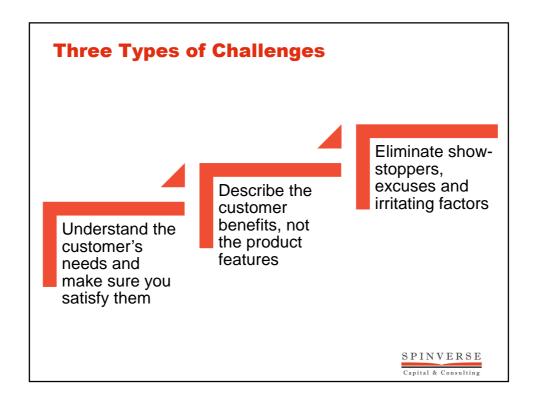
#### Few Basic Assumptions...

- Your technology works
- You can manufacture your product at reasonable price
- You can protect and <u>defend</u> your innovation
- You find financing to support your development and product launch to the market

This is <u>necessary</u>, <u>but not sufficient</u> to succeed in a competitive market place where customers have a lot of choice and very limited appetite for risk

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### "There is no second chance to create the first impression"

- Credibility is an impression, only partly based on hard facts – Avoid surprises you need to justify
  - Would you buy snowmobiles from an Australian or Canadian company?
  - Consider establishing local presence in your main markets
  - Obtain patents, trade marks, product reviews, CE-Mark and other certifications
- Make sure everything you show, tell and do is in line with the impression you want to make
  - Look at Website, brochures etc. of your customers' other business partners
  - Make sure your people speak customer's business language

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# Market Validation – Find Fit Between The Customer's Needs and your Proposition

- What is the customer's problem or opportunity you help to address?
  - Can you quantify it?
  - What does it mean to different people in customers organization?
  - Have you talked to the right people and all of them?
- Do you understand the customer's decision process
  - From a "innovation scout's" interest to real implementation of your technology?

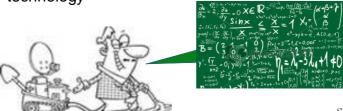
This is <u>not</u> about databases and desk study, but meeting real people in real companies and asking the right questions

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#### Customers Don't Need "Technologies", But Solutions To Their Problems

- "What" first, "How" then Describe the customer benefits, not the product features
  - We sell productivity, quality, profitability, market share...
  - We must tie our offering to the customer's problems
- Only after the customers understand the benefits, they get interested about the product features and underlying technology



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