

# NANOTECH JYVÄSKYLÄ

Outline 2010

Nanotechnology Cluster Programme

More business from nanotechnology,  
microtechnology and future materials.

Activating companies and research  
institutions for cooperation.



# NANOTECH JYVÄSKYLÄ

Outline 2010

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[www.jklinnovation.fi](http://www.jklinnovation.fi)

[www.oske.net](http://www.oske.net)

[www.nanocluster.fii](http://www.nanocluster.fii)

Jyväskylä  
**Innovation**



# NANOTECH JYVÄSKYLÄ

## Strategic objectives

1. Enhance utilizing of the technologies
2. Recognize and support growth companies, existing and start-ups



# NANOTECH JYVÄSKYLÄ

## Core Companies

The technologies are or will be the core business

1. Stresstech Ltd.
2. Stafix Ltd.
3. Ecocat Ltd.
4. Mecania Ltd.
5. Liqum Ltd.
6. Hoxville Ltd.
7. Magnasense Technologies Ltd.  
(Est. 2010)
8. Natucell Ay
9. NEMCEL Ky (Est. 2010))
10. Nanolab Systems Ltd.
11. Zero Point Finland Ltd. (Est. 2009)





# Magnasense

*Technology for Diagnostics at Point of Care*

## Magnasense Magnetometric Reader

*The innovative way of diagnostics*

Magnasense has created an improved platform for lateral flow tests. Our novel approach allows for quantitative measurements and increased reliability and sensitivity of the test format in an effort to open new markets for lateral flow test manufacturers.

## Contact info

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Survontie 9  
FI-40500 JKL  
FINLAND - EUROPE

**Mika Laitinen, CEO**

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Web: [www.magnasense.com](http://www.magnasense.com)



# Mecania

Production  
technology  
for industry



## Mecania Automation Oy

Heinämäentie 2  
FI-40250 Jyväskylä  
FINLAND

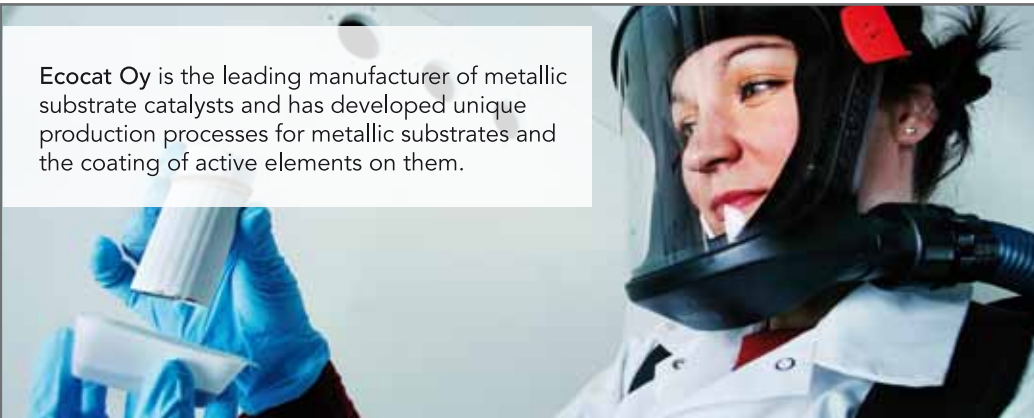
tel. +358 20 786 6770  
fax. +358 20 786 6771  
mecania@mecania.fi

[www.mecania.fi](http://www.mecania.fi)

# ECOCAT

Fresh Ideas - Cleaner Future®

Ecocat Oy is the leading manufacturer of metallic substrate catalysts and has developed unique production processes for metallic substrates and the coating of active elements on them.



Contact Person:

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ECOCAT OY  
Typpitie 1  
FI-90650 OULU  
Finland

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Mobile: +358 (0) 504088142  
Fax: +389 (0) 1065700  
Email: [toni.kinnunen@ecocat.com](mailto:toni.kinnunen@ecocat.com)  
Web: [www.ecocat.fi](http://www.ecocat.fi)

# hoxville

**Hoxville proudly provides industrial sensor systems for condition monitoring.**

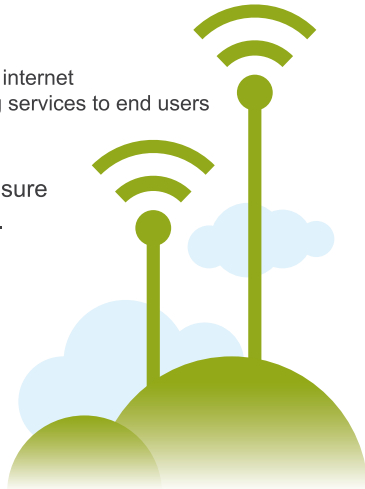
- The sensors act like stand-alone analyzers
- They screen the data locally with sophisticated algorithms
- Each sensor is accessed via the ethernet port and used via the internet
- The products can be built into our customer's offerings enabling services to end users

The sensors and systems are currently used in rotating machinery, industrial gearboxes and wind turbines to measure vibration, torque and oil-aging and temperature wirelessly.

## Hoxville Oy

Väinönkatu 26 B  
FI-40100 Jyväskylä, Finland  
[www.hoxville.com](http://www.hoxville.com)

**Tel** +358 50 3635999  
**E-mail** [info@hoxville.com](mailto:info@hoxville.com)





## Instruments for quality control and residual stress measuring

- Barkhausen Noise
- X-ray Diffraction
- Hole-drilling
- Grinding burn
- Heat treat defects
- Residual stress
- Retained austenite
- Hardness changes
- Shot peening
- Welding stresses

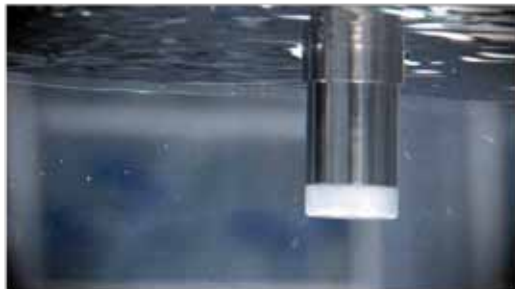
Prism hole-drilling instrument



stresstech group

[www.stresstechgroup.com](http://www.stresstechgroup.com)

# LIQUM Tasting the water



## Liqum Oy

Seenintie 2  
FI-40320 JYVÄSKYLÄ  
FINLAND  
web: [www.liqum.fi](http://www.liqum.fi)

Tel. +358 10 3472 400  
Fax. +358 10 3472 401  
e-mail: [liqumFI@liqum.com](mailto:liqumFI@liqum.com)



# Stafix

Platform for New ideas!



**Stafix®** is a statically charged, printable polypropylene film that adheres **quickly and easily** to virtually **any clean, dry surface** **without** any adhesives.

## Stafix Ltd.

Konttisentie 8B  
FI-40800 Vaajakoski  
FINLAND

**Ph.** +358 50 551 5660  
**E-mail:** info@stafix.fi  
**Web:** www.stafix.com

# NANOTECH JYVÄSKYLÄ

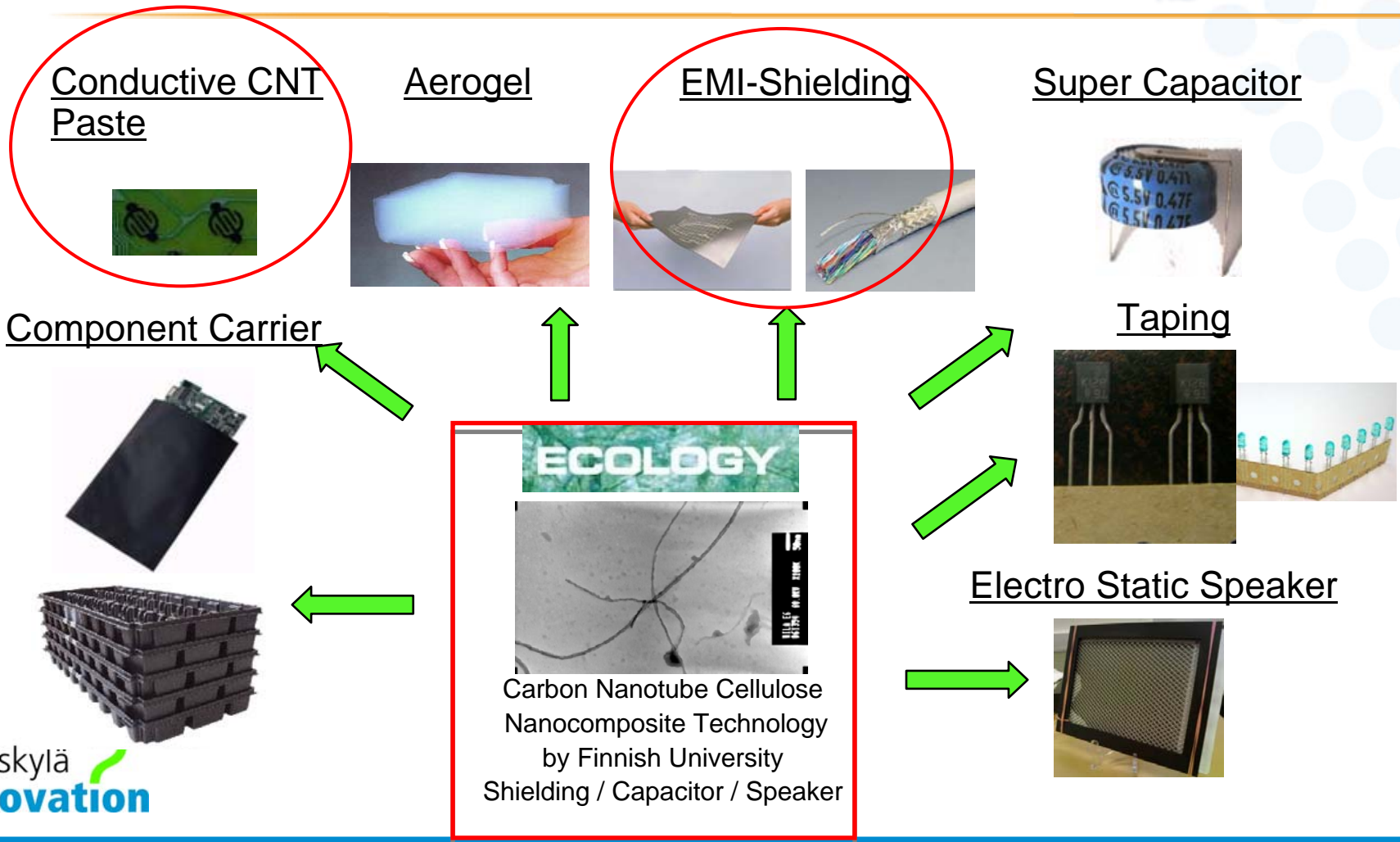


## Contact

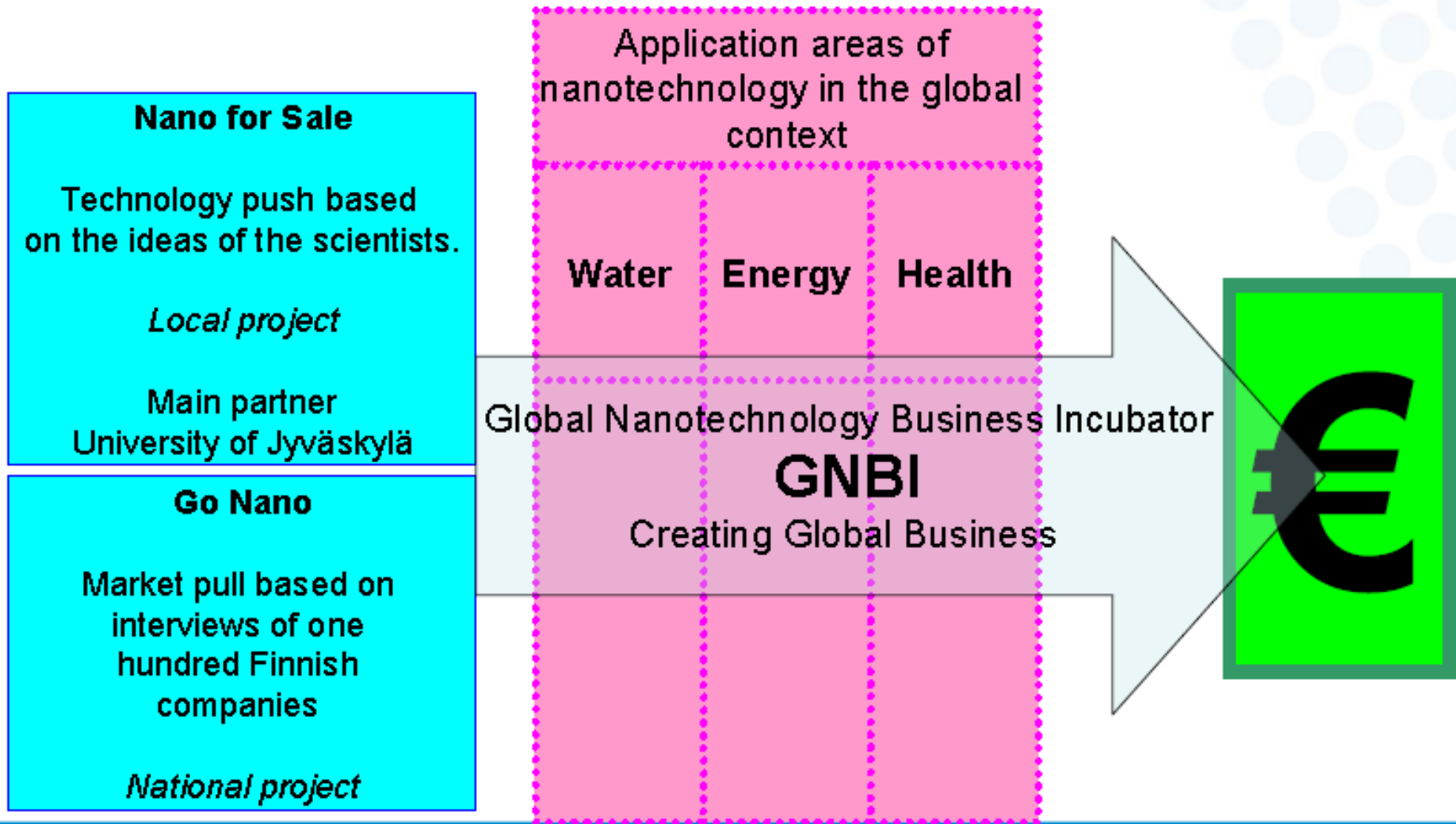
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- Nanolab Systems Ltd.
    - Several commercialized nanoproducts: Hybtonite, N-Sizer (a nanoparticle synthesizer)...
    - **Consultancy services on founding nanoscience centers**
  - Natucell Ay
    - Carbon Nanotube Cellulose composites: esp. **supercapacitor**
  - NEMCEL Ky (Est. 2010)
    - **Carbon Nanotube Cellulose composite applications** such as loudspeaker, EMI and EMC materials
- Zero Point Finland Ltd. (Est. 2009)
- Nanotechnology applied in consumer products

# POTENTIAL PRODUCTS



# NANOTECH JYVÄSKYLÄ



# NANOTECH JYVÄSKYLÄ

SEEDS

University of Jyväskylä

NEEDS

National project

Application areas of  
nanotechnology in the global  
context

Water

Energy

Health

FIELDS





MARKET PLACE

NEEDS of the  
companies

Start up technology  
companies

SEEDS from the science

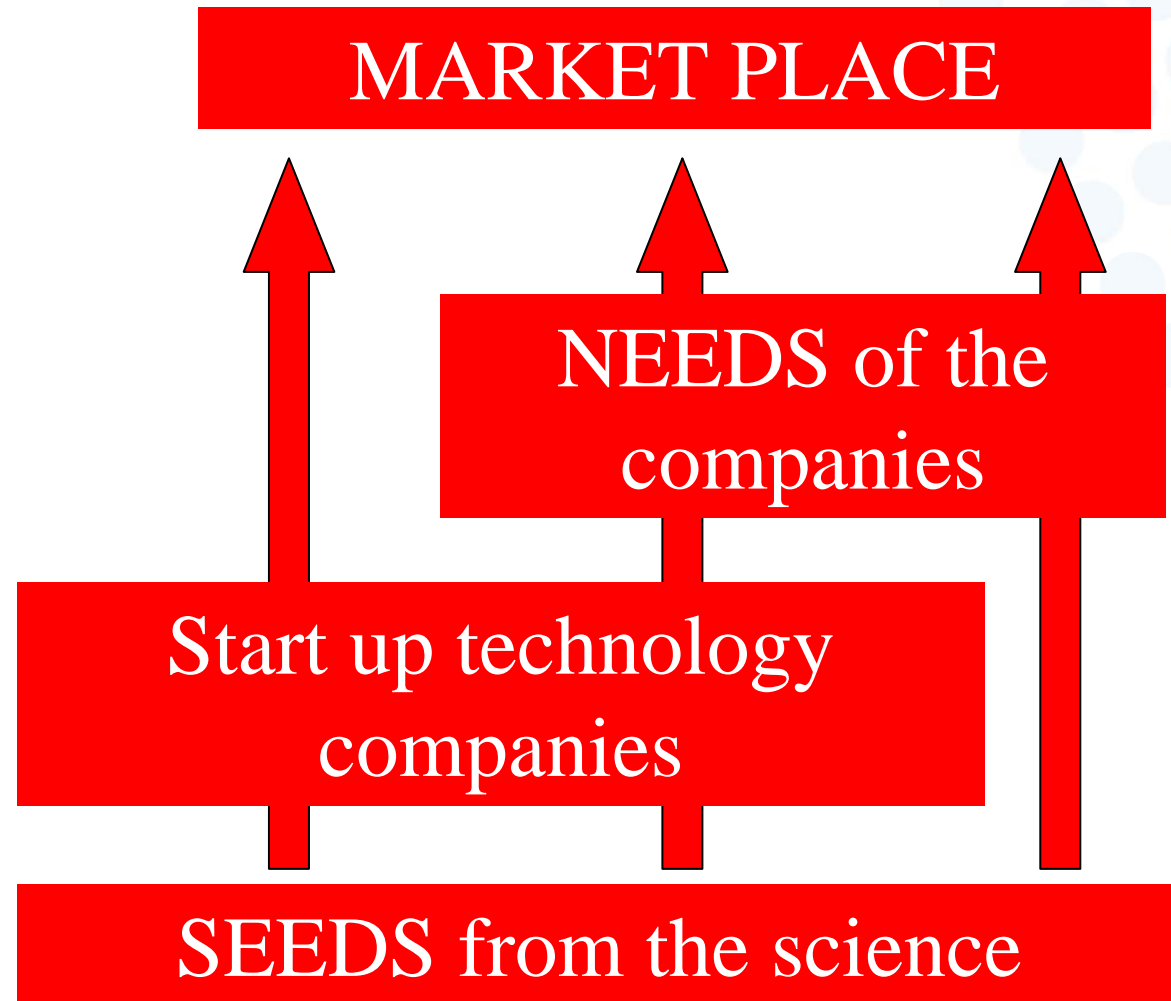
Go Nano

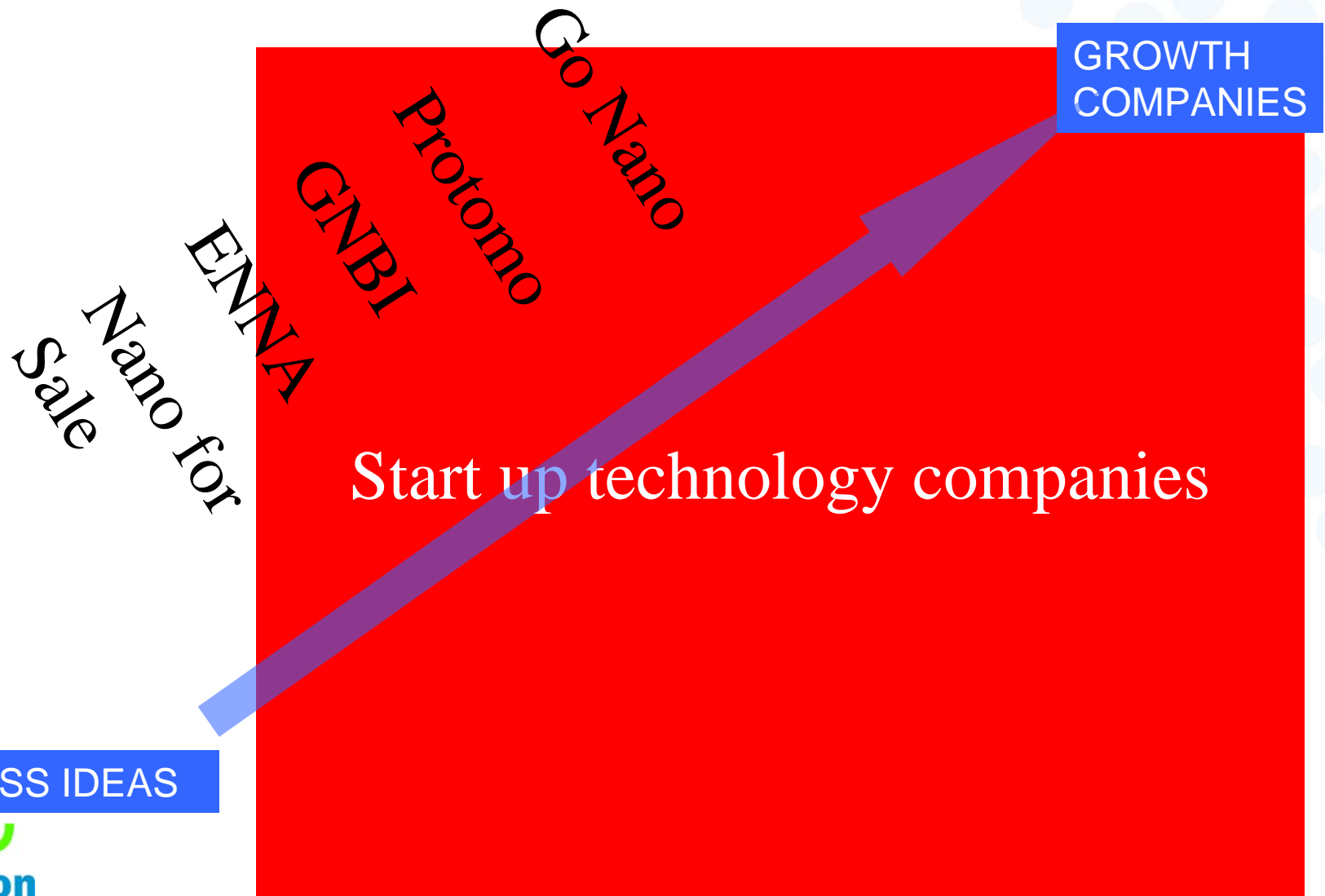
Protomo

GNBI

ENNA

Nano for  
Sale



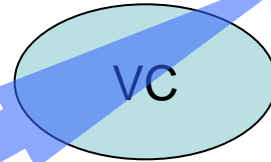


## National players

GROWTH  
COMPANIES



Tekes

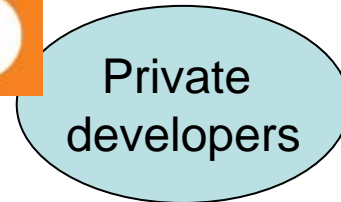


Technopolis Oyj  
Keski-Suomen  
Yrityskehitys Oy

The New  
Incubator  
Concept 2010



**PROTOMO**



OSKE

BUSINESS IDEAS

# NANOTECH JYVÄSKYLÄ

## Global Nanotechnology Business Incubator and other structures supporting the enterprises in the global environment

### *Aims*

- Mobility of the entrepreneurs and business developers
  - Entrepreneurs and companies of all sizes and ages can more easily visit the country of destination and later start their R&D, enter the market or commence their production.
  - Business developers will exchange information and experiences
- Funding for the companies and for the network
  - Bilateral agreements
  - EU funds
  - Investments
  - World Bank etc.



## Global Nanotechnology Business Incubator and other structures supporting the enterprises in the global environment

### *Locations and actors*

#### India

Discussions and negotiations:

1. IIT, Kharagpur
2. IISc, Bangalore
- 3 National Chemical Laboratory, Pune
4. JJS Academy of Technical Education, Noida and Bangalore

#### China

Bio Bay Ltd, Suzhou

#### USA

Many geographical areas under observation (California, Austin, Chicago, Michigan, Phoenix...)

First meetings will take place in May 2010

#### Russia

1. Teknopark Ingria. St. Petersburg
2. Science City of Obninsk and Kaluga area in general

#### **EU – Finland as a gateway to the EU markets**

Operations will be spread in the **seven cities** of the Nanotechnology Cluster Programme in Finland. Some other countries are under negotiations.



*Thank You for Your Attention!*

