

ICNT 2005

# AUSTRIAN NANO INITIATIVE



*Dynamik mit Verantwortung*

03.11.05

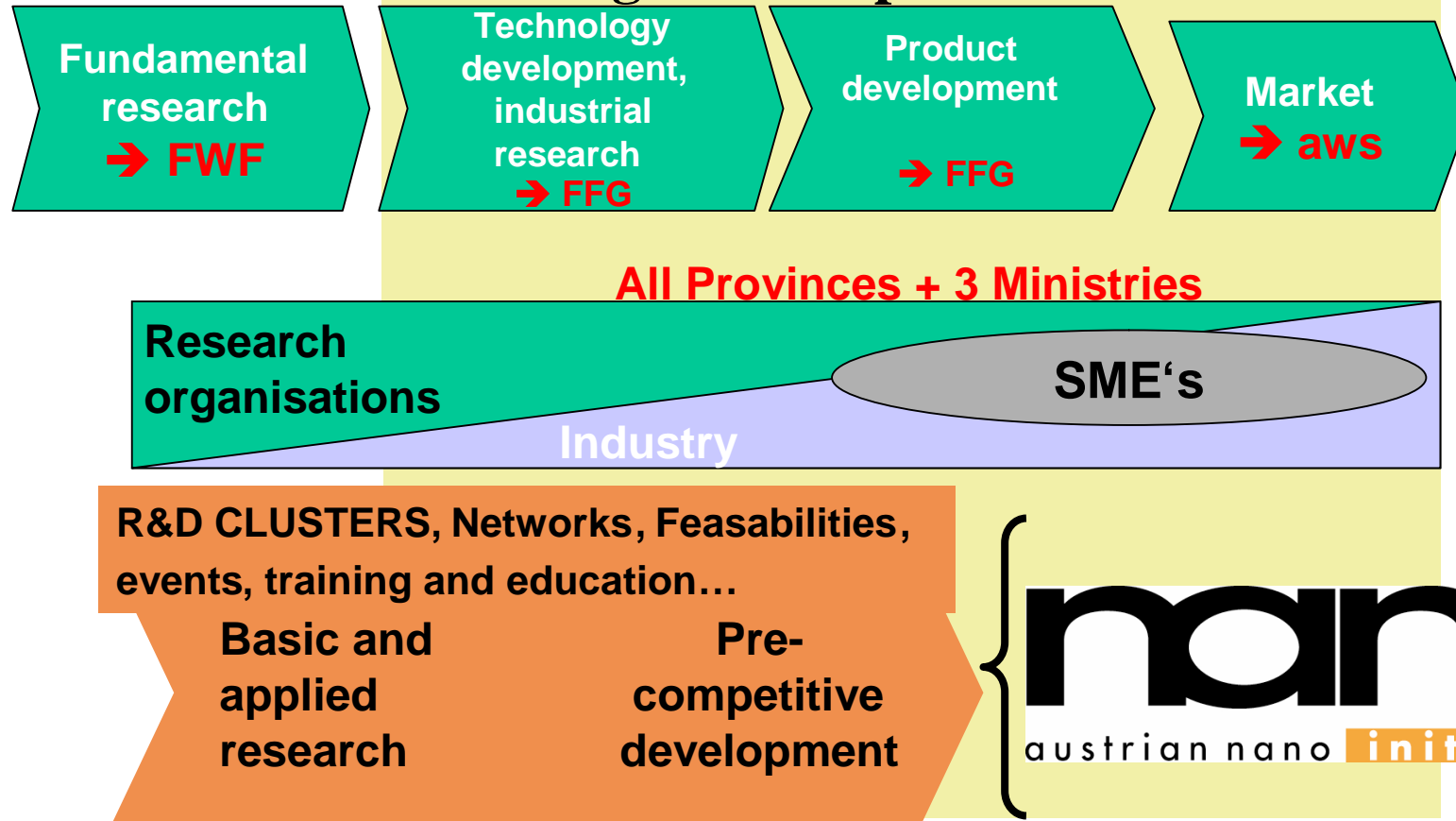
BMVIT Abt. III/I5

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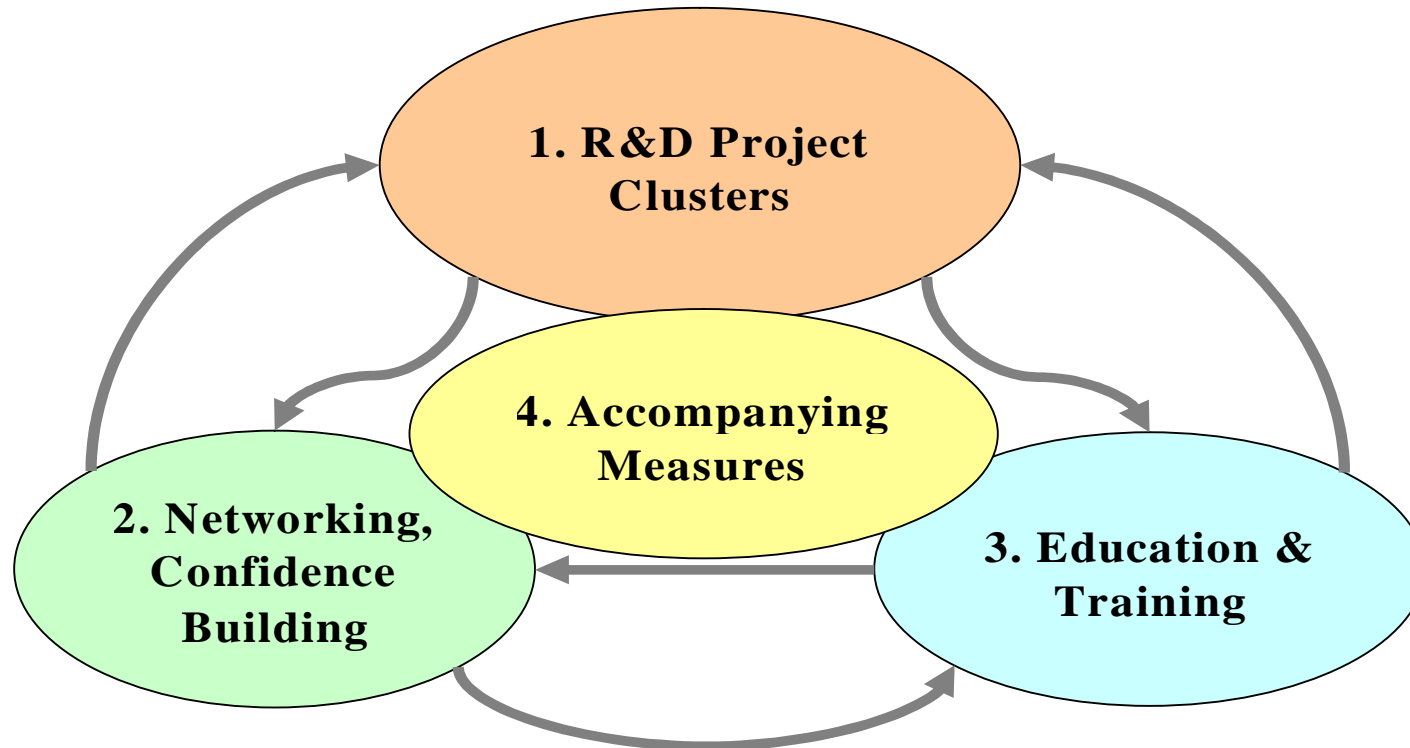
## The Austrian Nano Initiative ...

- is a comprehensive funding programme for nanoscale sciences and nanotechnologies (NANO) in Austria
- budget: 35 M € for the years 2004-2006 – 2008+ (*mid-longterm*)
- Is based on 3 pillars: research funding – networking – education & training
- Forms an umbrella over support measures on the national and regional levels
- Is carried by several Ministries, federal states and funding agencies
- Is coordinated strategically by the BMVIT and on the operative level by FFG

# The Austrian NANO Initiative and its Position in the Austrian Funding Landscape



## Programme action lines (1)



## Programme action lines (2)

### **Research and Technology Development Project clusters**

Building and strengthening research, technology and cooperation competence by funding strategically decisive RTD project clusters. These may range from basic research to technology development and should achieve substantial progress in technology and know-how for science and enterprises

### **Networks and Confidence Building**

Expanding and managing the networking of the Austrian players nationally and internationally and with other networks



## Programme action lines (3)

### **Training and education**

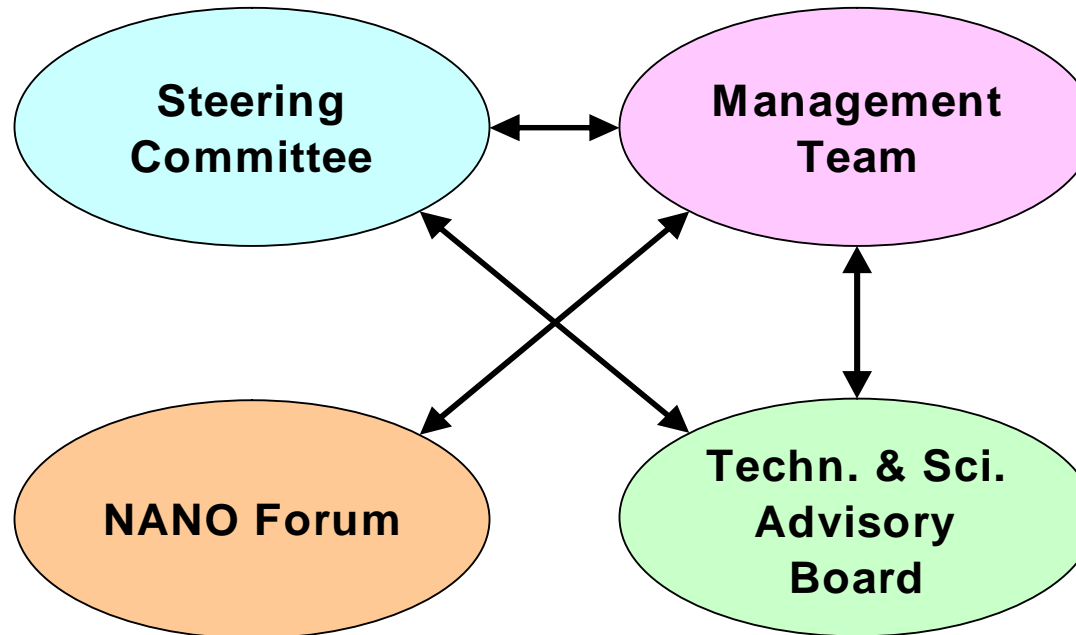
Strengthening the human resources required for qualitative and quantitative growth by developing, funding and implementing suitable education and training measures for students, researchers and staff members of enterprises

### **Accompanying measures**

Developing, preparing and buying specialist studies, market and feasibility studies, strategic concepts. Technology foresight studies and analyses as well as building up a national strategic accompanying research programme (e.g. risk research)



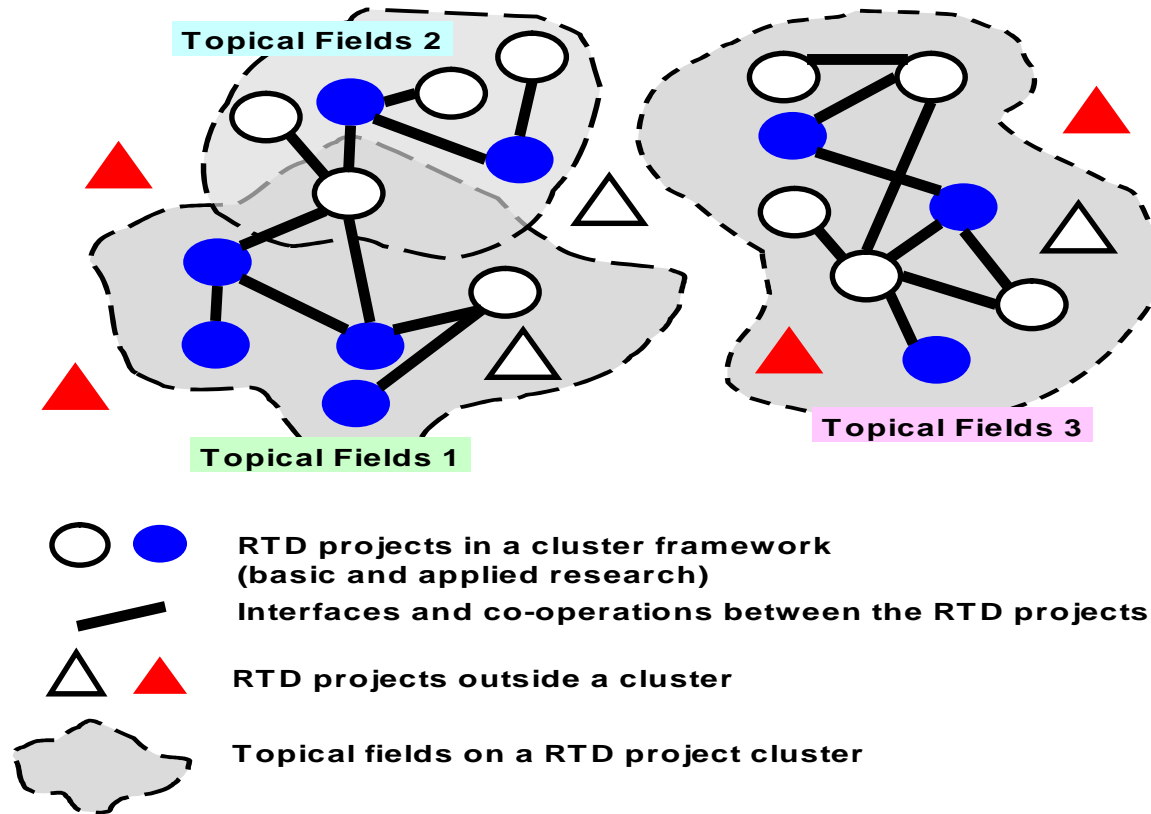
## Bodies of the Austrian NANO Initiative and their interactions



Programm Action Lines	Budget 2004 (k €)	Budget 2005 (k €)	Budget 2006 (k €)	Budget 2007 ff
RTD Project Clusters	<b>10.000</b>	<b>8.000</b>	has to be defined	has to be defined
Networks and Confidence Building	<b>1.100</b>	<b>1.000</b>		
Training and Education Measures	<b>320</b>	<b>450</b>		
Accompanying measures	<b>200</b>	<b>300</b>		
<b>Total</b>	<b>11.620</b>	<b>9.750</b>	<b>10.000</b>	



## Schematic representation of three fictitious consortia clusters



## **Requirements for an RTD project cluster:**

minimum of 1 RTD project focussing on basic research and at least 1 RTD project focussing on industrial research and technology development

total of at least 4 RTD projects

minimum number of all partners amounts to at least 3 enterprises and at least 3 R&D organisation

minimum of 15% of the overall RTD project cluster has to be borne by enterprises

## **evaluation procedure:**

Expert Opinion in writing

hearings

Jury meeting and funding recommendation

legally binding funding decision by the BMVIT



The first five Austrian NANO project clusters are (1):

### **NADINE (“Nano Diamond network”)**

- unites seven projects and fifteen partners.
- The material diamond is defined due to its characteristics as outstanding material for biotechnological applications
- The main topics are cell engineering, nano-biosensors, MEMS and NEMS.
- The Competence Centre Medicine in Tyrol (KMT) coordinates the project cluster together with the company Rho-BeSt coating.

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The first five Austrian NANO project clusters are (2):

**NANO-HEALTH** “Nanostructured Material for Drug Targeting, Release and Imaging”

- coordinated by Joanneum research
- focuses on the development of new therapy solutions for diseases such as diabetes and Alzheimer applying innovative nano-particles.

**ISOTEC** “Integrated Organic Sensor and Optoelectronics Technologies”

- lead by Joanneum research and the University of Technology in Graz
- will open new opportunities in the combination of new organic semi-conductors as well as structuring and production methods applicable for sensors and optoelectronics.



The first five Austrian NANO project clusters are (3):

## **NANOCOAT** “Development of Nanostuctured Coatings for the Design of Multifunctional Surfaces”

- coordinated by the Materials Competence Centre in Leoben (MCL) and focuses on the development of concepts for suitable manufacture technologies to design multi-functional surfaces and interfaces

## **NSI** "Nanostructured Surfaces and Interfaces"

- lead by the NanoScience & Technology Centre in Linz (NSTL).
- The main topics are biocompatible nano-structures, polymers and nanocomposites as well as metal surfaces and interfaces



## Networks and Confidence Building (1)

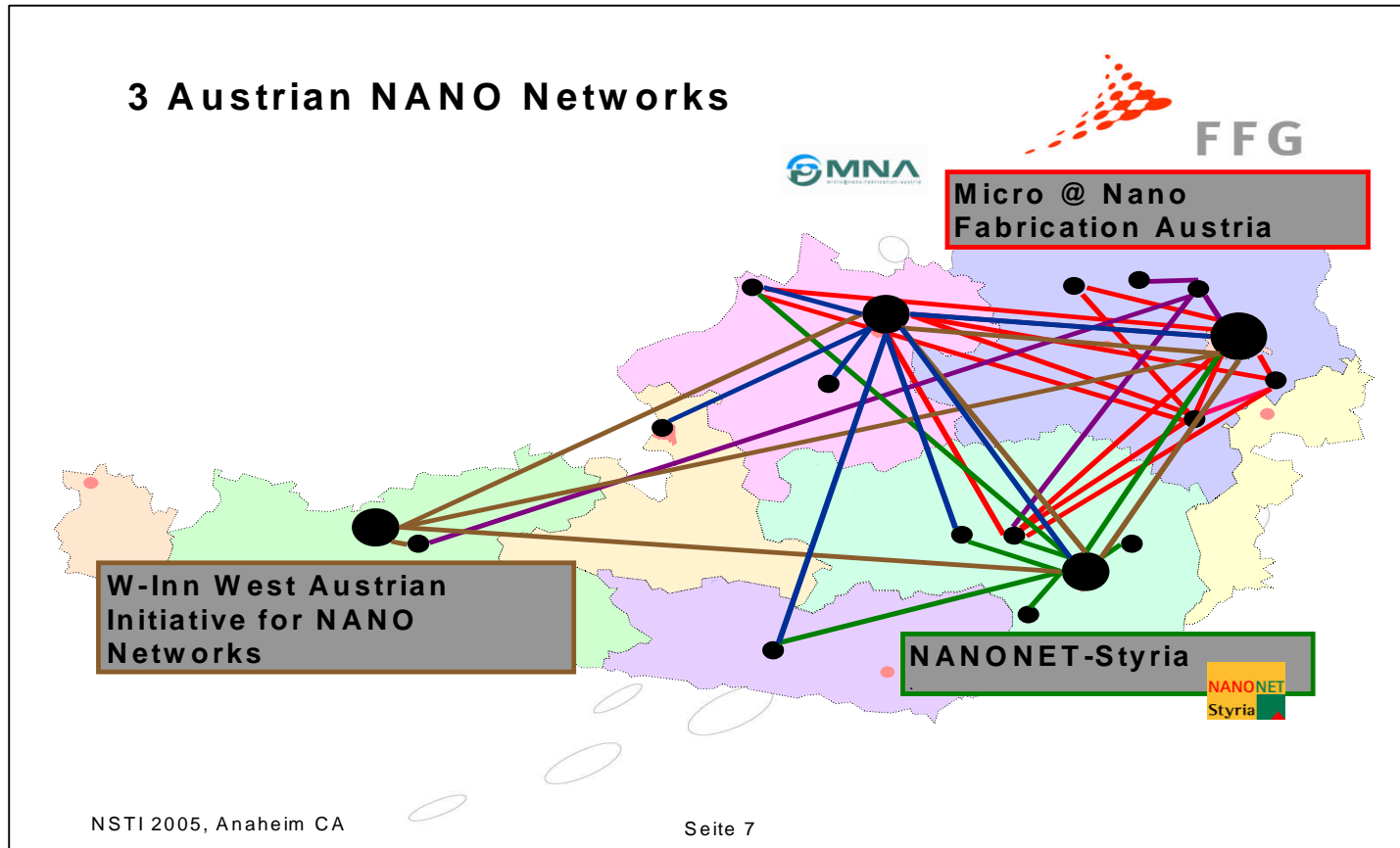
- Exploratory activity (exploring innovative ideas, feasibility studies)
- Network activity (building, operating and managing new networks)
- Event activity (designing, organising and managing events)
- Other kinds of activities (to be defined by the applicants and checked by the Management Team)

### **By end of September there had been:**

26 proposals and 5 in evaluation

10 of 26 accepted





## The Austrian NANO Initiative 2005:

- 3 project cluster in evaluation
- Funding decision by end of November
- Possibility of submitting a new proposal issued by an existing RTD project cluster
- mid-term evaluation of the programme will start with January 2006





Thank you for your attention!

