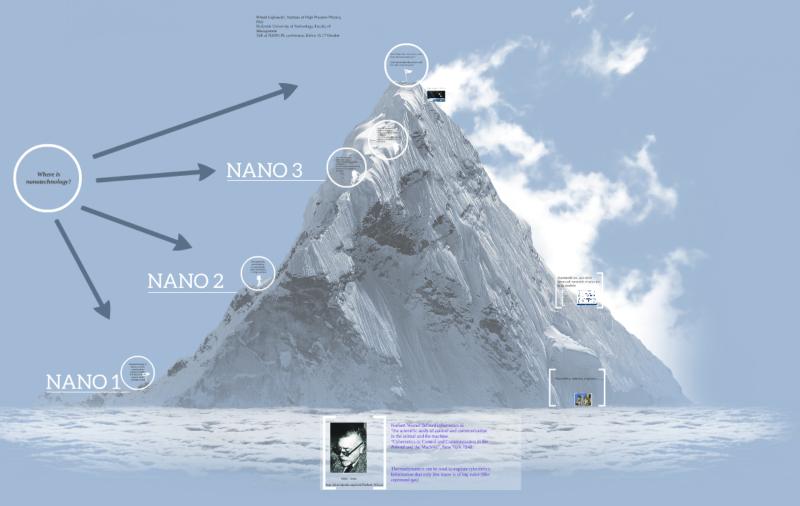
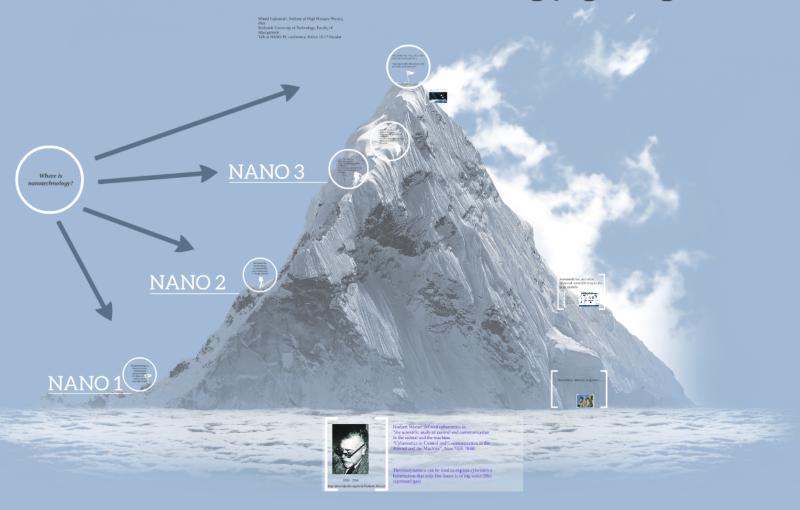
#### Quo vadis nanotechnology? Where is nanotechnology going?



#### Quo vadis nanotechnology? Where is nanotechnology going?



## 

Witold Łojkowski, Institute of High Pressure Physics, PAS
Bialystok University of Technology, Faculty of Management
Talk at NANO-PL conference, Kielce 15-17 October

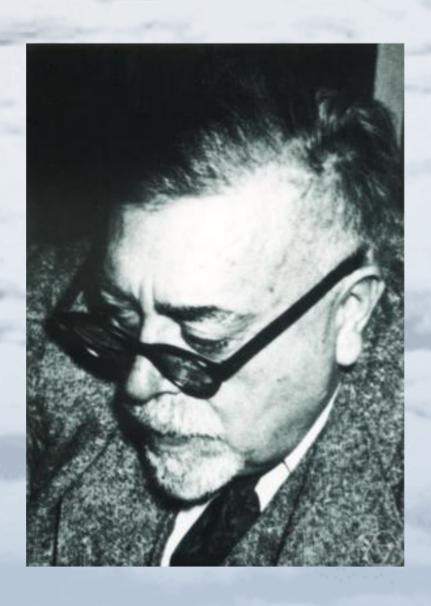


1984 - 1964 http://pl.wikipedia.org/wiki/Norbert Wiener

Norbert Wiener defined cybernetics as "the scientific study of control and communication in the animal and the machine.

"Cybernetics or Control and Communication in the Animal and the Machine". New York 1948.

Thermodynamics can be used to explain cybernetics Information that only few know is of big value (like copressed gas)



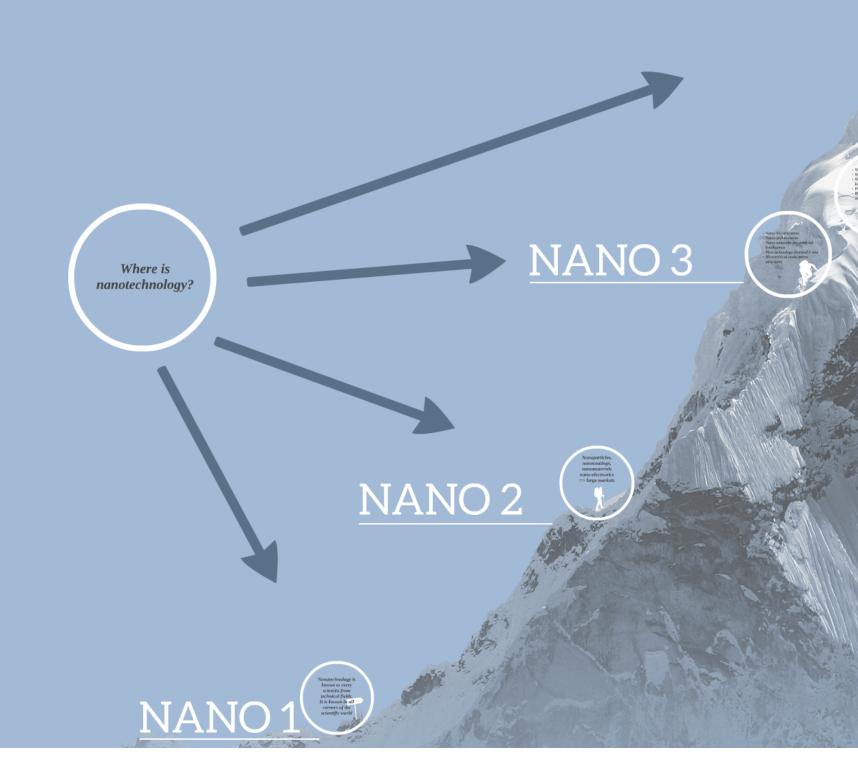
1984 - 1964

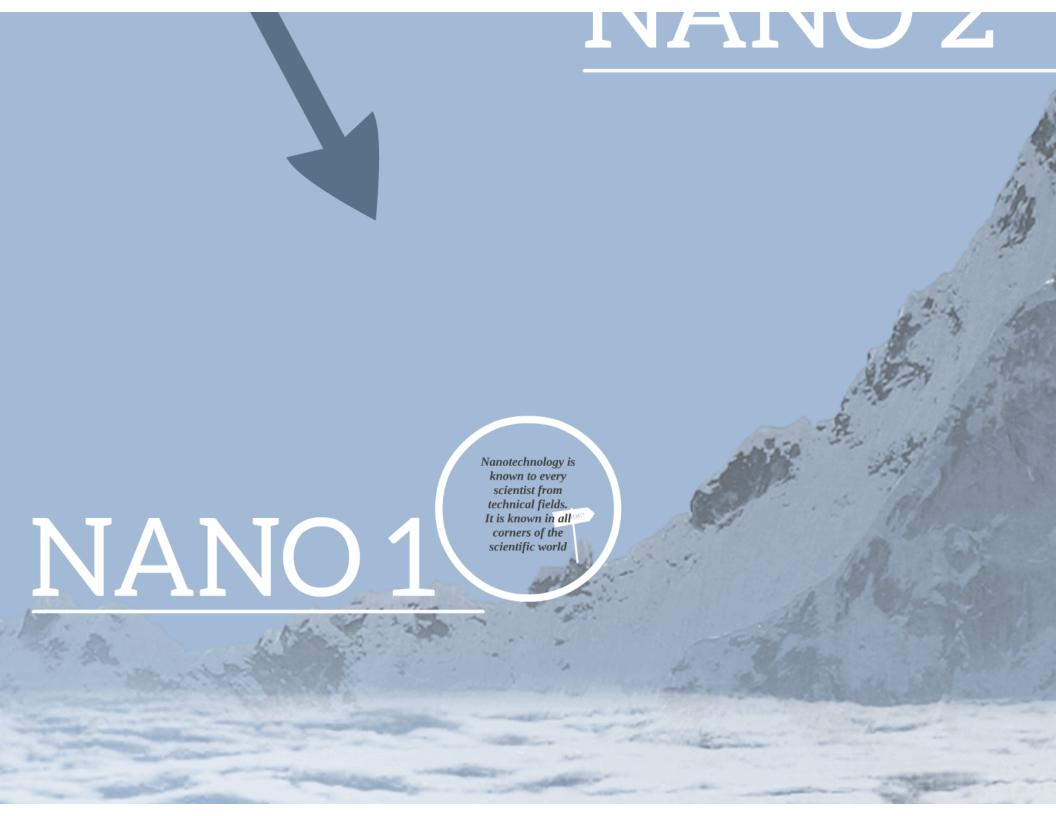
http://pl.wikipedia.org/wiki/Norbert\_Wiener

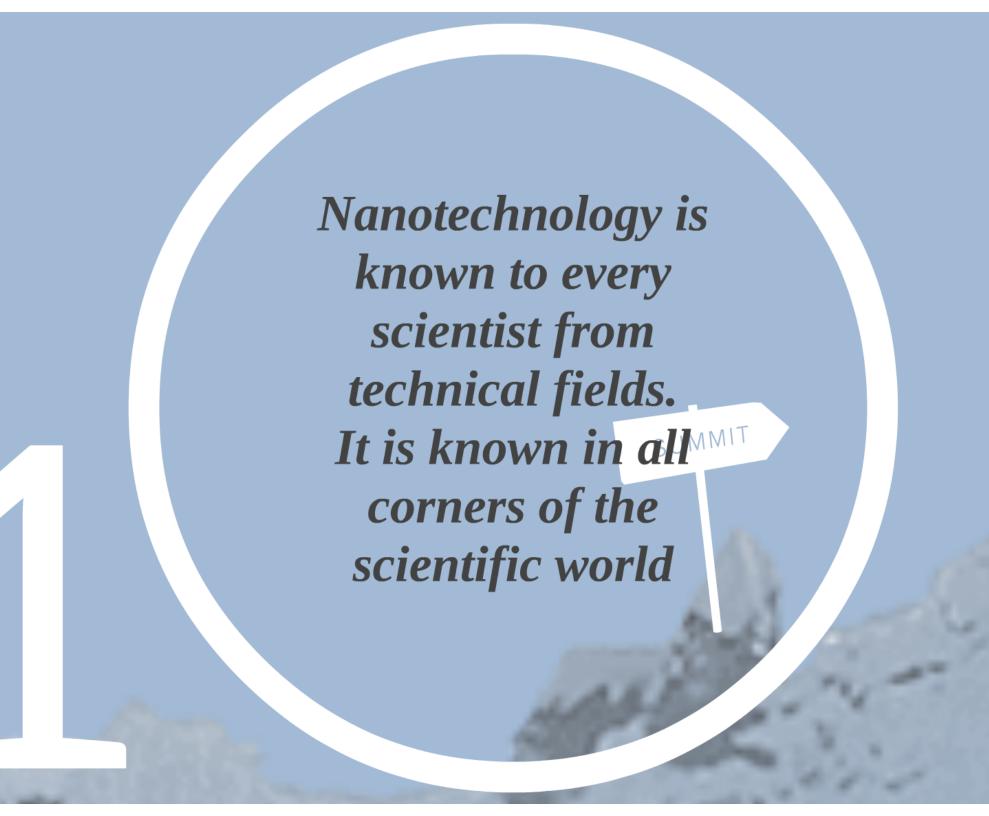
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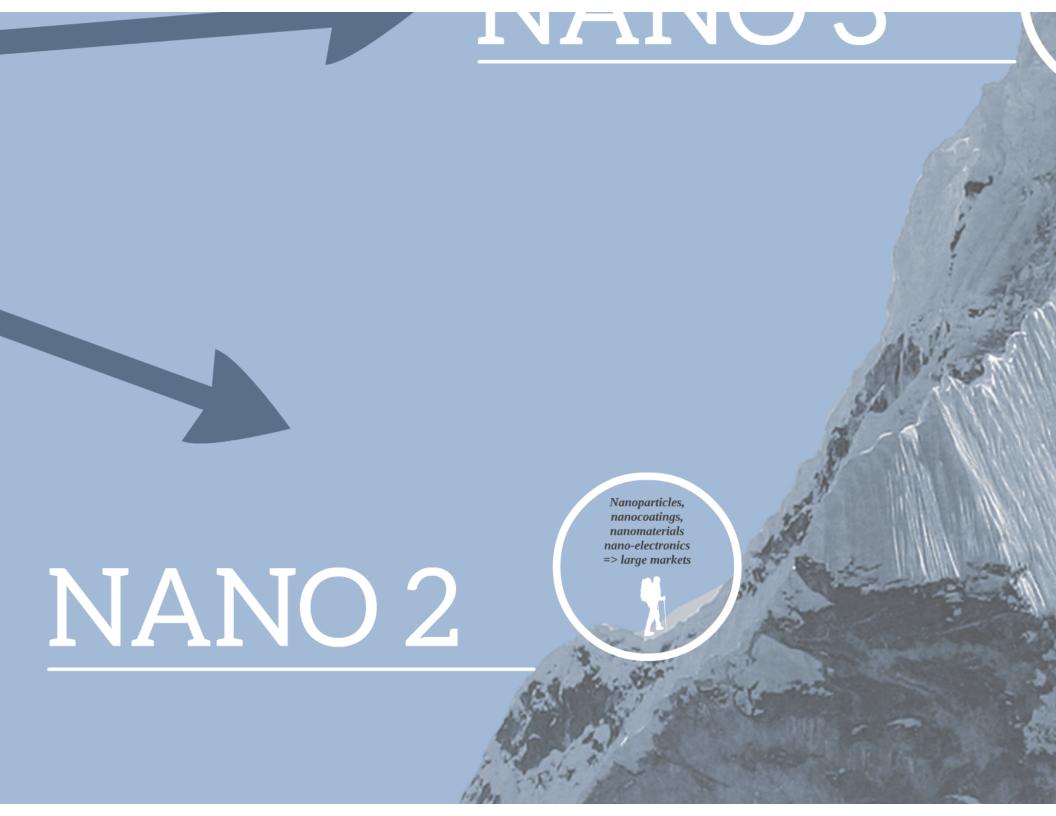
Thermo Informa copress

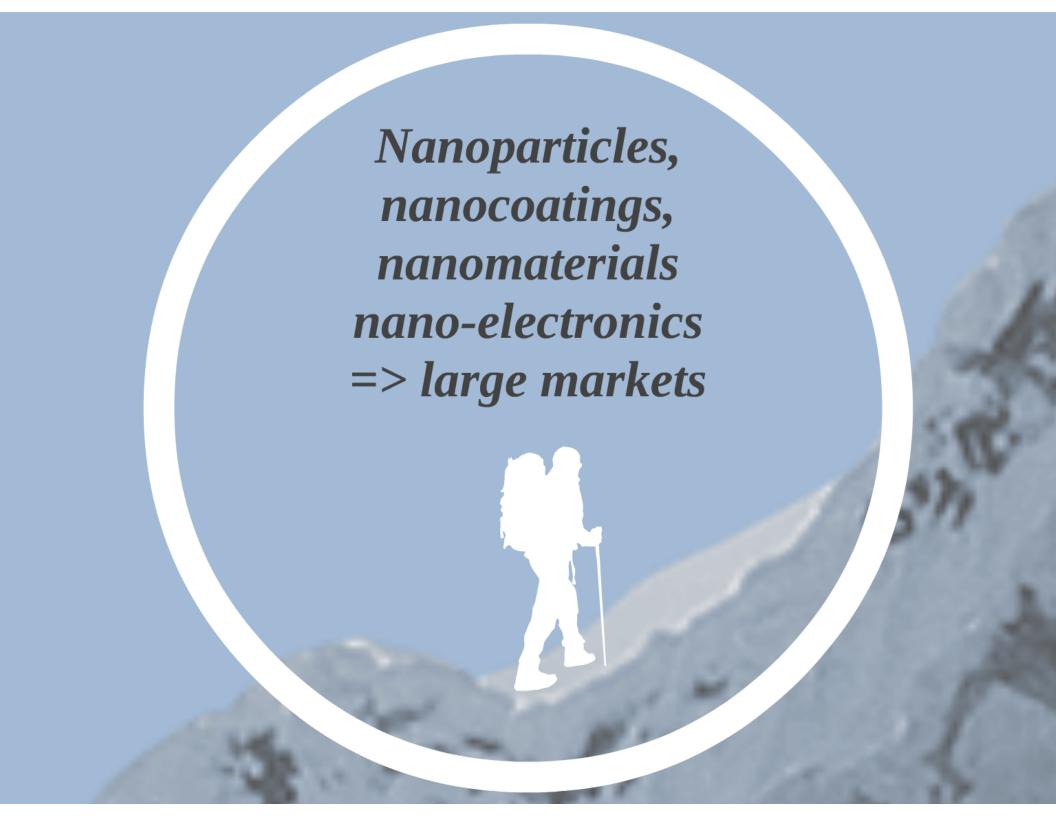
## Where is nanotechnology?

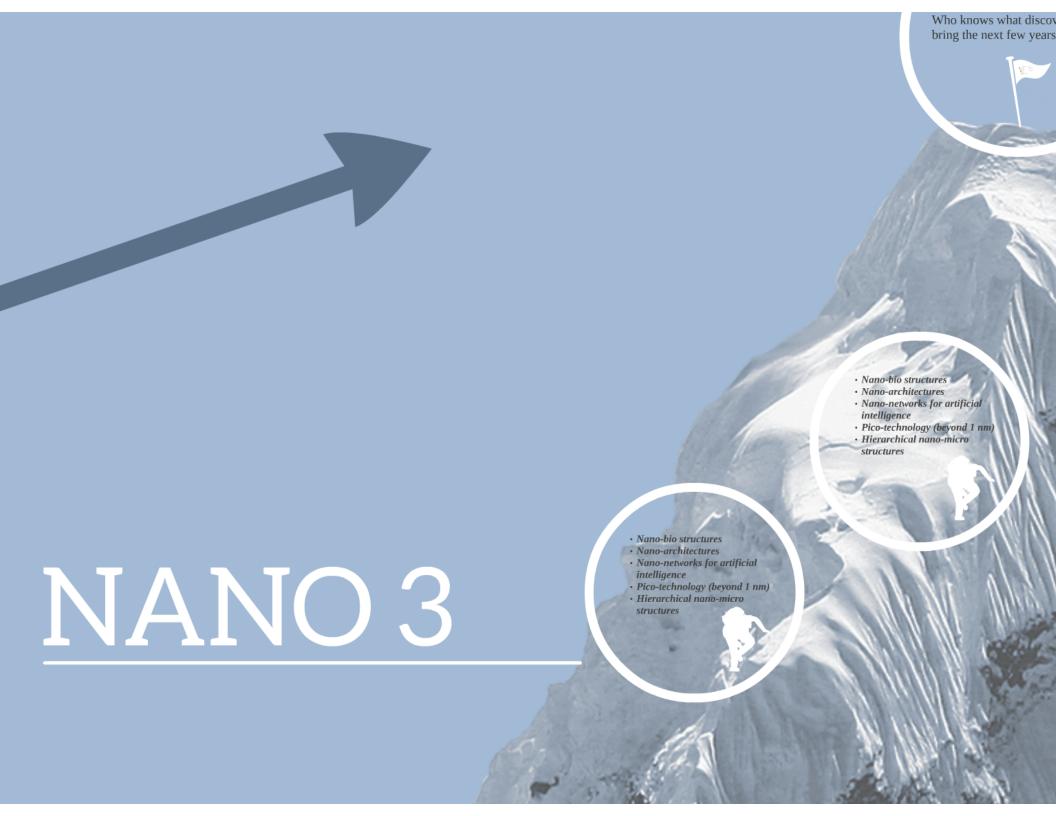


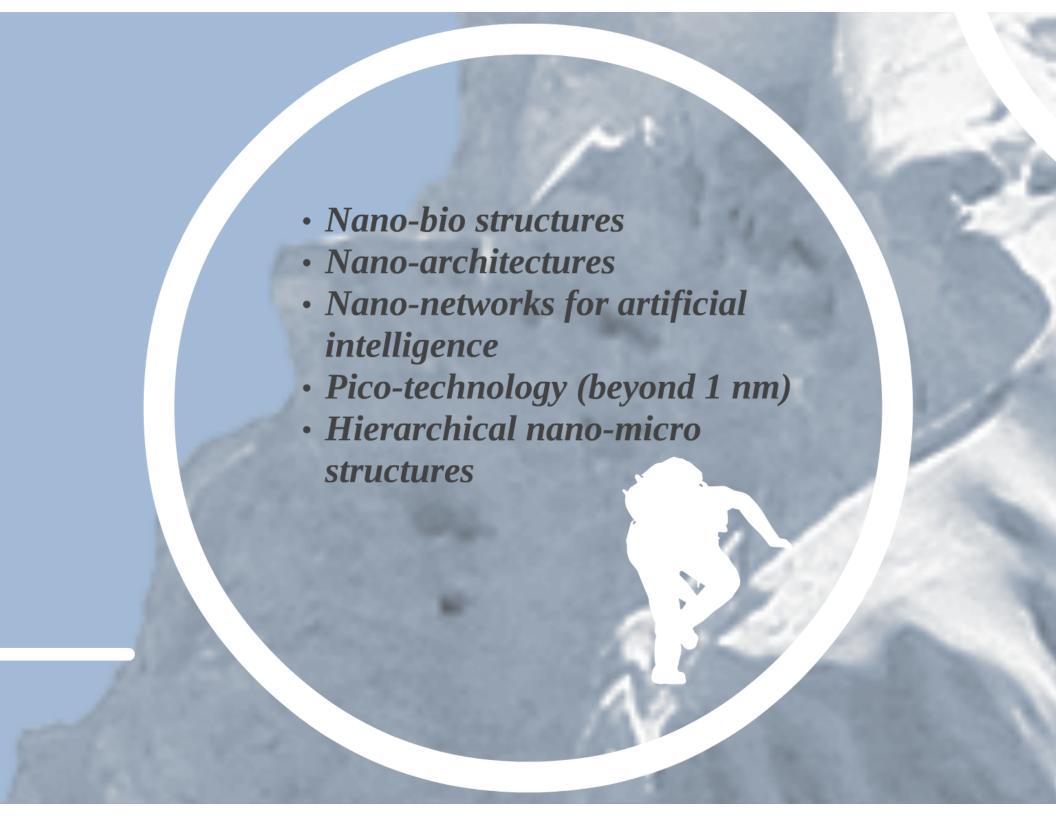








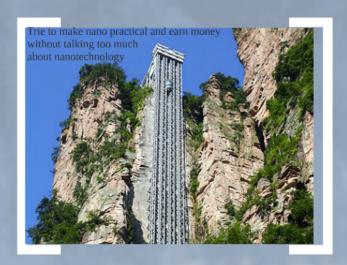


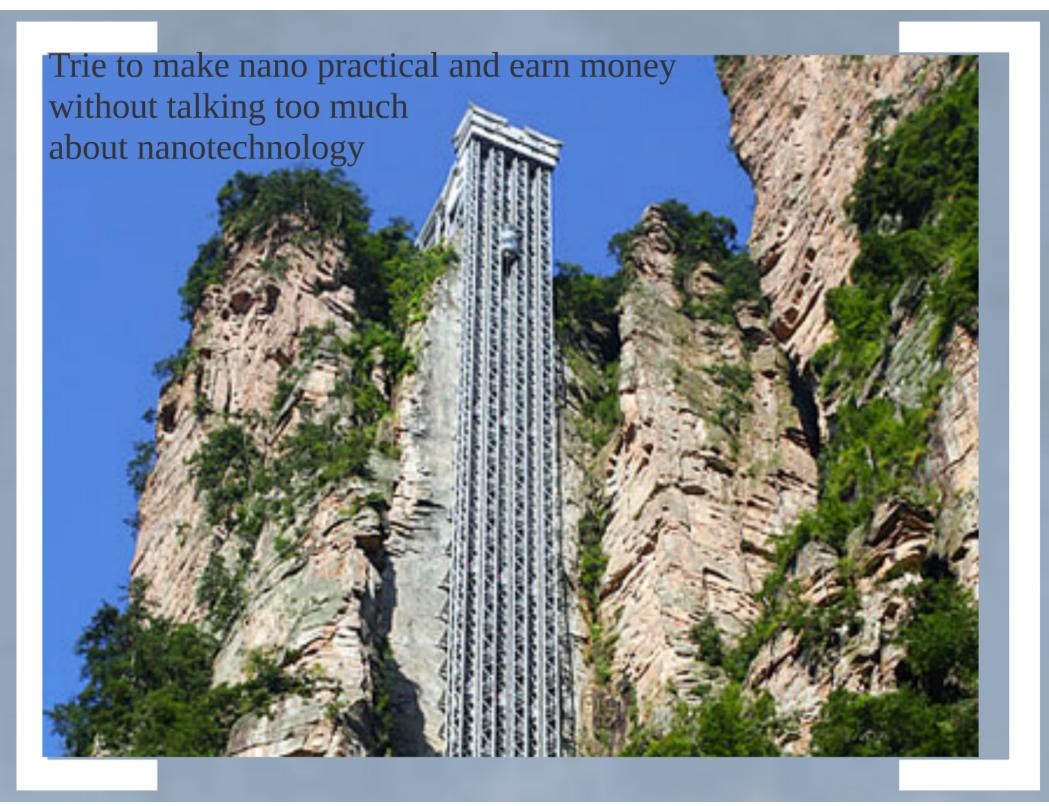


Information has a big value, when only few have access to it. Who knows what discoveries will bring the next few years?



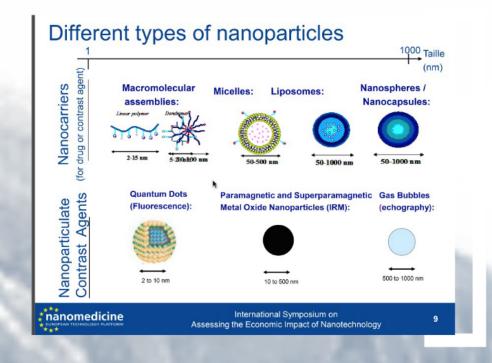
Meanwhile, Industry, engineers......





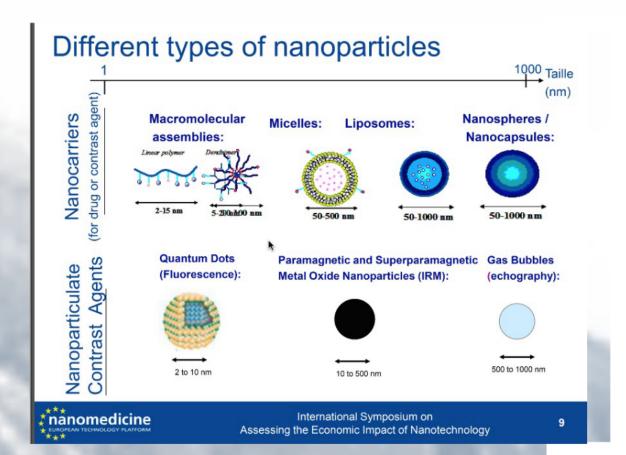
# Nanomedicine, and other advanced nanotechnologies are large markets

Courtesy
Patric
Loubaton
OECD symposium.
Washington 2012



### ge markets

Courtesy
Patric
Loubaton
OECD symposium.
Washington 2012



The space elevator made from nano- fibers, may come true sooner than we expect....



#### Thank you very much:



All of you, for coming there - the conference is for you, and made by you



Krzysztof Kurzydłowski - for inspiration& encouragement



Prof. Jerzy Kątcki, Chairman of the Board, National Centre for Research and Development, Honorary Patron of NANO PL



My team, students & coworkersfor them nanotechnology is their life. Administration of the Institute of High Pressure Physics, PAS Many sponsors, media partners and great thanks to:

Swiętokrzyskie Regional Centre for Innovation and Technology Transfer!



And the Targi Kielce Ltd team



Pelipaparoli pr saladii introderi tasi nali one-qua me

## Thanky



All of you, for coming there - the conference is for you, and made by you



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Prof. Jerzy Kątcki, Chairman of the Board, National Centre for Research and Development, Honorary Patron of NANO PL



My team, stude



Prof. Jerzy Kątcki, Chairman of the Board, National Centre for Research and Development, Honorary Patron of NANO PL



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Perhaps you will get valuable information here?

And come again next year:)

#### Quo vadis nanotechnology? Where is nanotechnology going?

