

WELCOME TO ILA BERLIN 2010

THIRD EUROPEAN AIR TRANSPORT CONGRESS



WE ARE ROKKORS NANOTECHNOLOGIES GMBH
VIENNA AUSTRIA

FASTEN YOUR SEAT BELTS, WE DEPART IN...

3

2

1

0

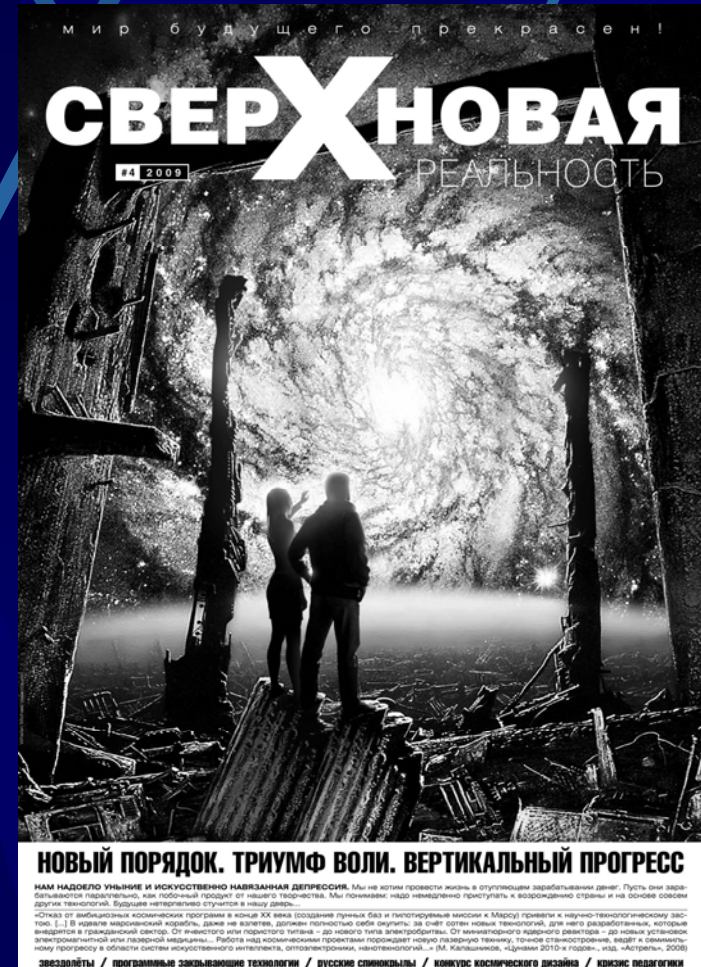
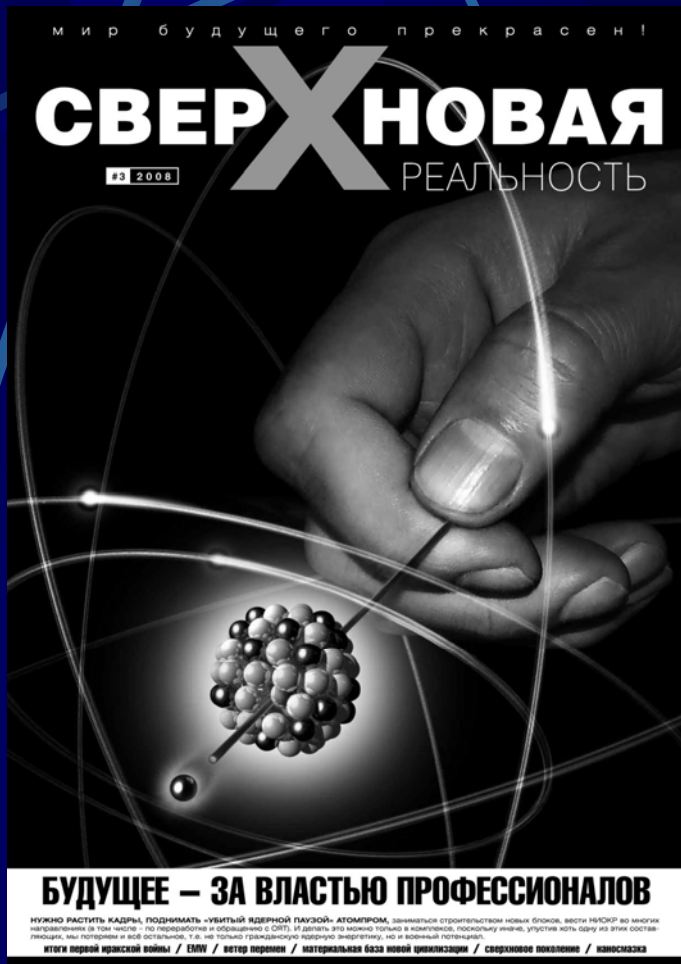
CNS = carbon nanostructures

CNT = carbon nanotubes

CNF = carbon nanofibers

SWNT, DWNT and MWNT are different types of nanotubes.

The June 2008 and July 2009 issue of Sverkhnovaya
Realnost, Russian high-tech magazine.





OUR CORPORATE MOTTO

IT IS IMPOSSIBLE TO HAVE STRATEGIC
PLANNING WHERE THERE IS AN ABSENCE OF
STRATEGIC VISION.

John Naisbitt, Megatrends, 1982.



Megatrends make or break companies and nations. Most people never see them coming.

NANOTECHNOLOGY IS A COLOSSAL MEGATREND THAT IS AND WILL CONTINUE TO CHANGE WHAT WE KNOW AS TECHNOLOGY AND INDUSTRY.

Rokkors was recently part of the Austria – Russia high tech trade and collaboration meeting on March 15, 2010.

Business & Technology Mission
Technology & Research transfer - Russia - Austria
15. March 2010, Vienna, Austria

<http://www.b2match.com/russiaaustria/index.php>



Why were we invited to the Berlin Air Show 2010?

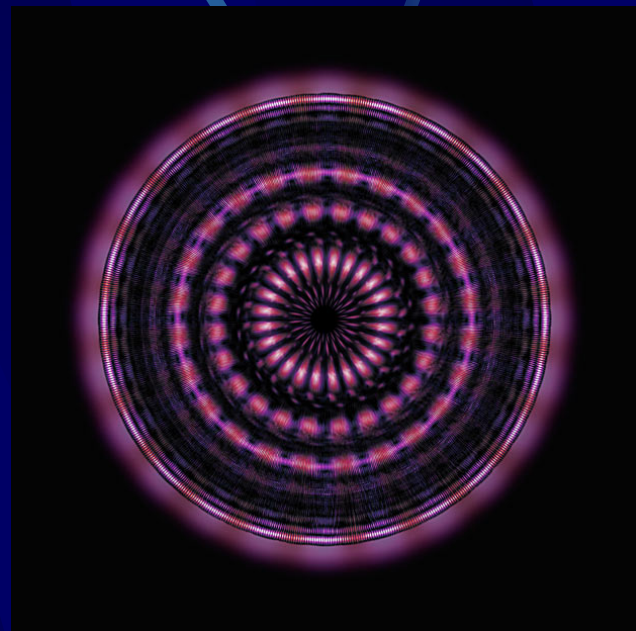
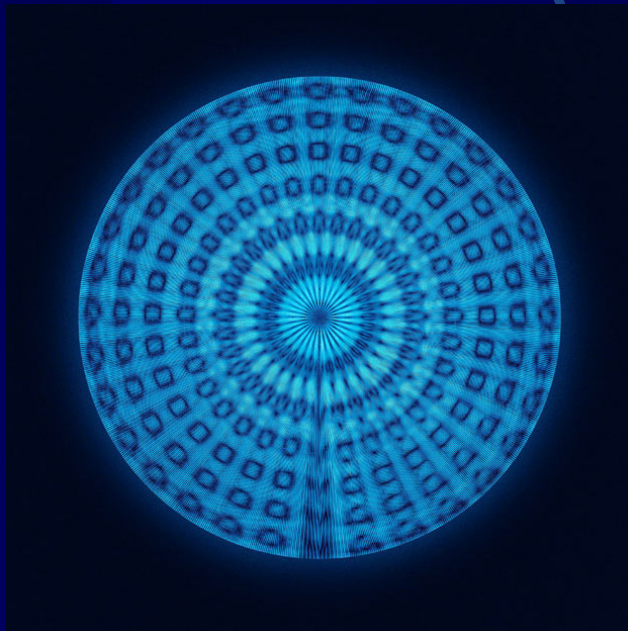


- Advanced airframe technology and methods.
- Water – Electric powered Jet Engines utilizing the Rokkors Hydrogen Power System and nanofilter technology.
- New space technology and materials.
- Space Elevator, a new mass tonnage delivery system to outer space.
- A new type of space propulsion system.
- Scalable nanotechnology processes that make such advancements and large scale projects possible.

At the nanotechnology level...

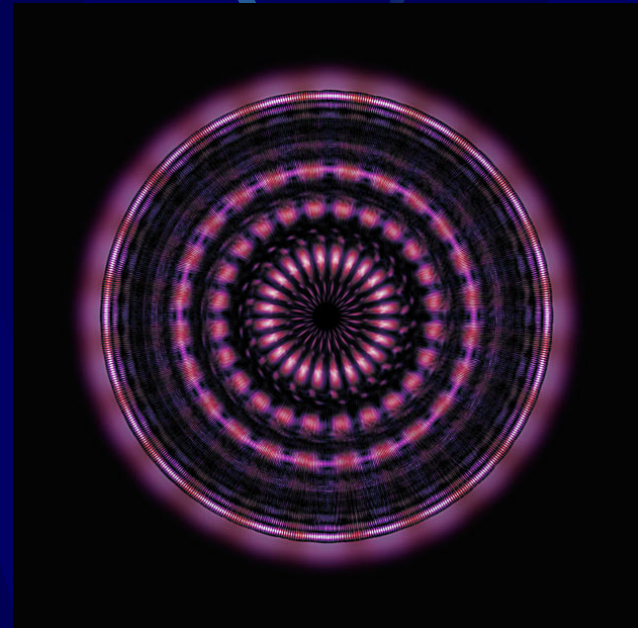
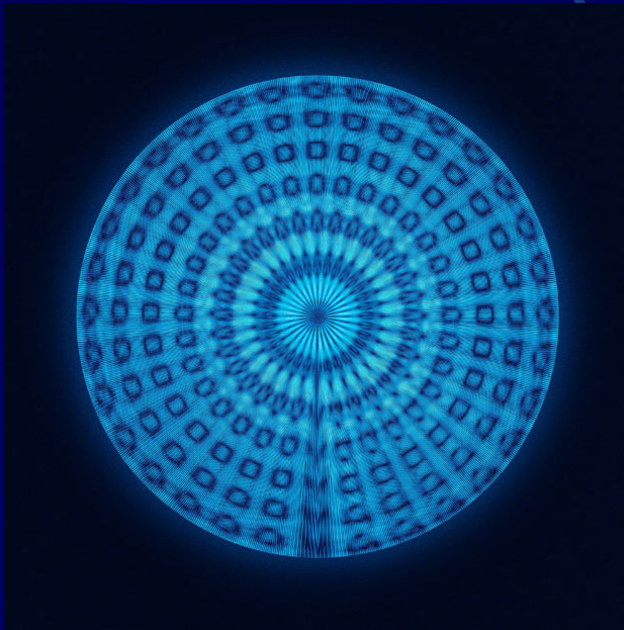
- Scalability of the process is the key to commercialization.
- Purity is directly related to strength and functionality.
- Rokkors Nanotechnologies is the leader in purity, strength and the scalability of nanotechnology processes.

Curious?

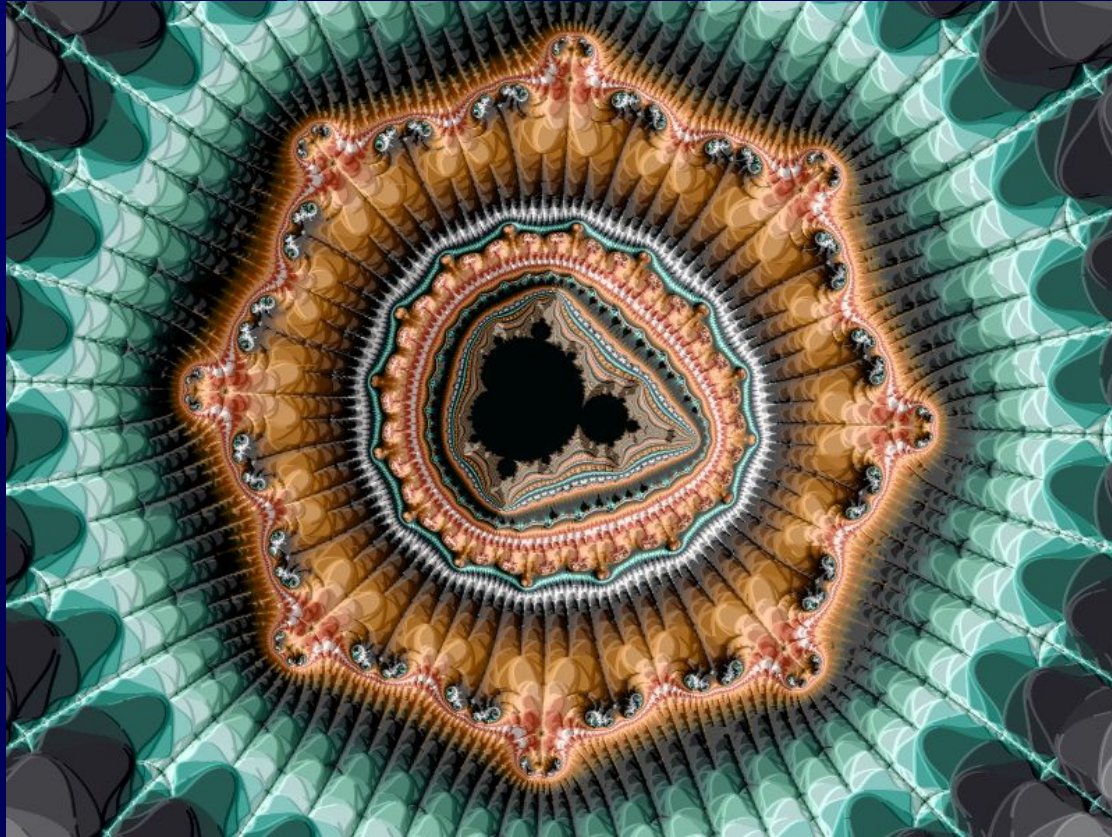


Graphic representations of a new type of machine that combines energy waves, nano-material input and is run by mathematical algorithms. fractal and differential geometry. There is no computer operating system.

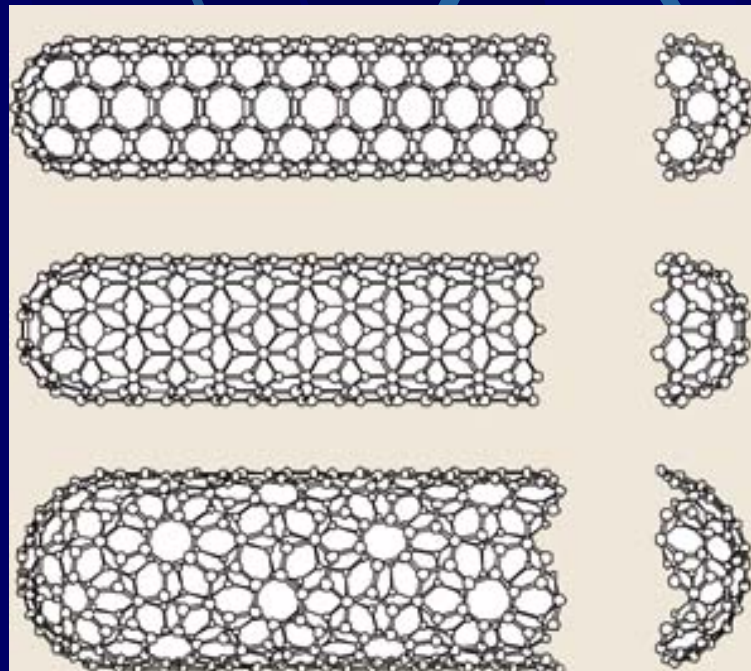
Imagine an airplane or spaceship section in one step with nanotechnology.



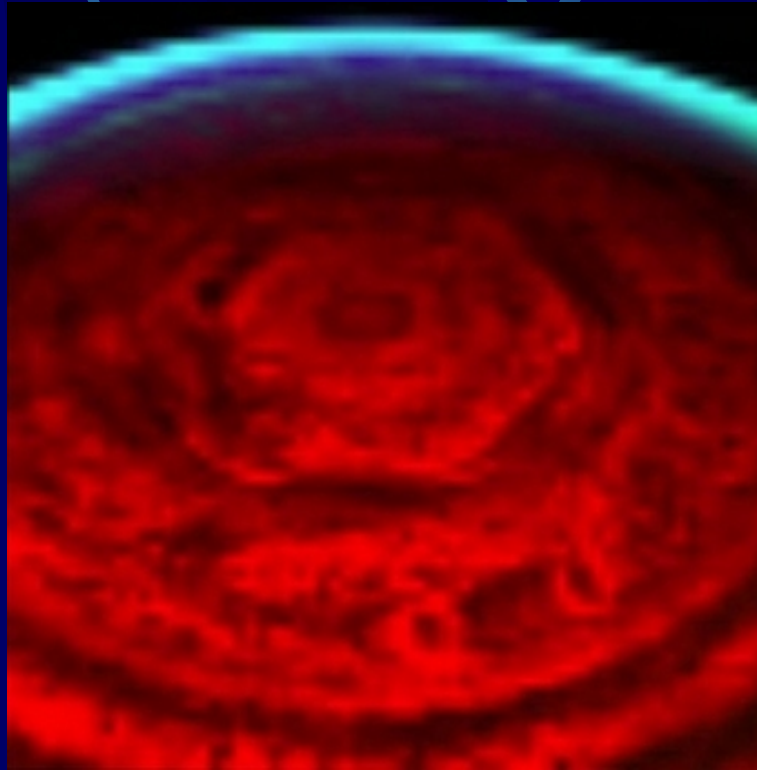
Look very closely at the black center, what is called the Mandelbrot Set. That is '0' and black within fractal geometry. Note how asymmetry generates perfect symmetry.



We discovered in 2003 that the key to nanotechnology is understanding that it is fractal in character. The graphic below shows various structures of carbon nanotubes and each is an interlinked mathematical fractal.



The Cassini space craft proved our theory that this Universe does not limit the size of a fractal. It is not a mystery. That is a hexagonal fractal at the north pole of Saturn the size of Planet Earth.



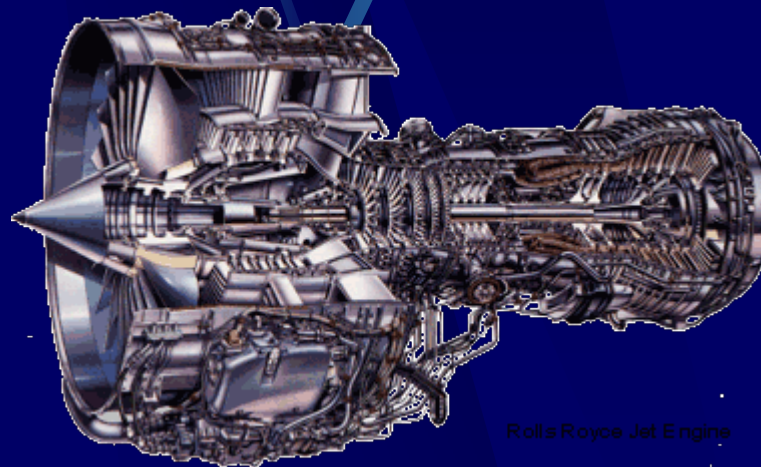
Nanotechnology and fractals are one and the same.

Nanotechnology fractals change the nature of matter as we know it

- Imagine carbon that will not conduct electricity; or
- Materials that reflect gamma rays, x-rays, UV, etc; or
- Flammable water that is not water as we know it; or
- Materials that direct gravity magnetic pulses in linear direction as thrust.

Which is best? Jet engines that are 'Green', or electric, or run on hydrogen or water? We submit it is a combination of each. We have already perfected Hydrogen Power Systems for autos, trucks, tractors, remote power and even home energy needs. Jet engines are the next logical step.

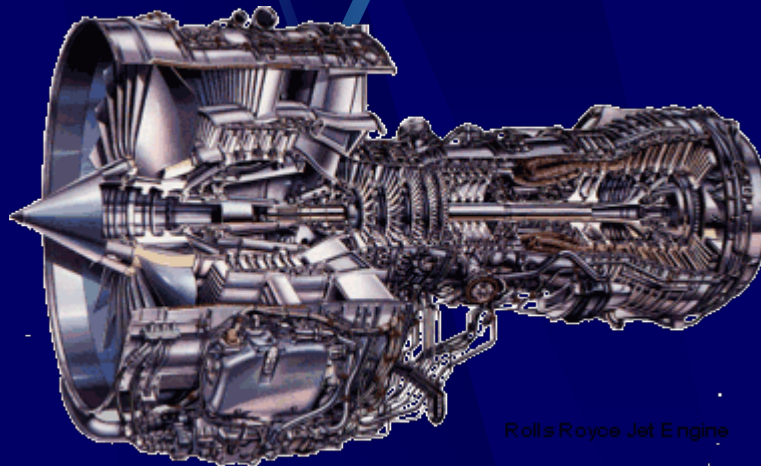
It is 'green' but deadly if the right steps are not implemented to control exhausts.



Rolls Royce Jet Engine

Water has suspended HAP's, VOC's and complex molecules due to man-made pollution. Water also has suspended heavy metals and minerals that in nanoparticle form are extremely toxic, deadly and carcinogenic.

The Rokkors approach is a water-powered electric turbine that includes the Rokkors Specific Trap nanofilter technology to remove such harmful particles. Then a water-powered jet engine would be green and safe.



Rolls Royce Jet Engine

We do nanotechnology and nanomachines

We have our own nanomachines group. We are now finalizing the prototype modifications to a full-scale nanotechnology enhanced device to power automobiles with water. Our nanomachines division has been making advanced research and production devices since 1981.

Our Hydrogen Power Systems...

require five key nanotechnology innovations to produce a finished system that is environmentally friendly, stable, durable, efficient and has a long operating life. It is in effect a new type of electric turbine powered by water and requires nanotechnology to get there.

We do not make jet engines, but we can show such a manufacturer how to make them better.

Arthur C. Clarke said it best as one of his Clarke's Laws:

WHEN A DISTINGUISHED BUT ELDERLY SCIENTIST STATES THAT SOMETHING IS POSSIBLE, HE IS ALMOST CERTAINLY RIGHT. WHEN HE STATES THAT SOMETHING IS IMPOSSIBLE, HE IS PROBABLY WRONG.

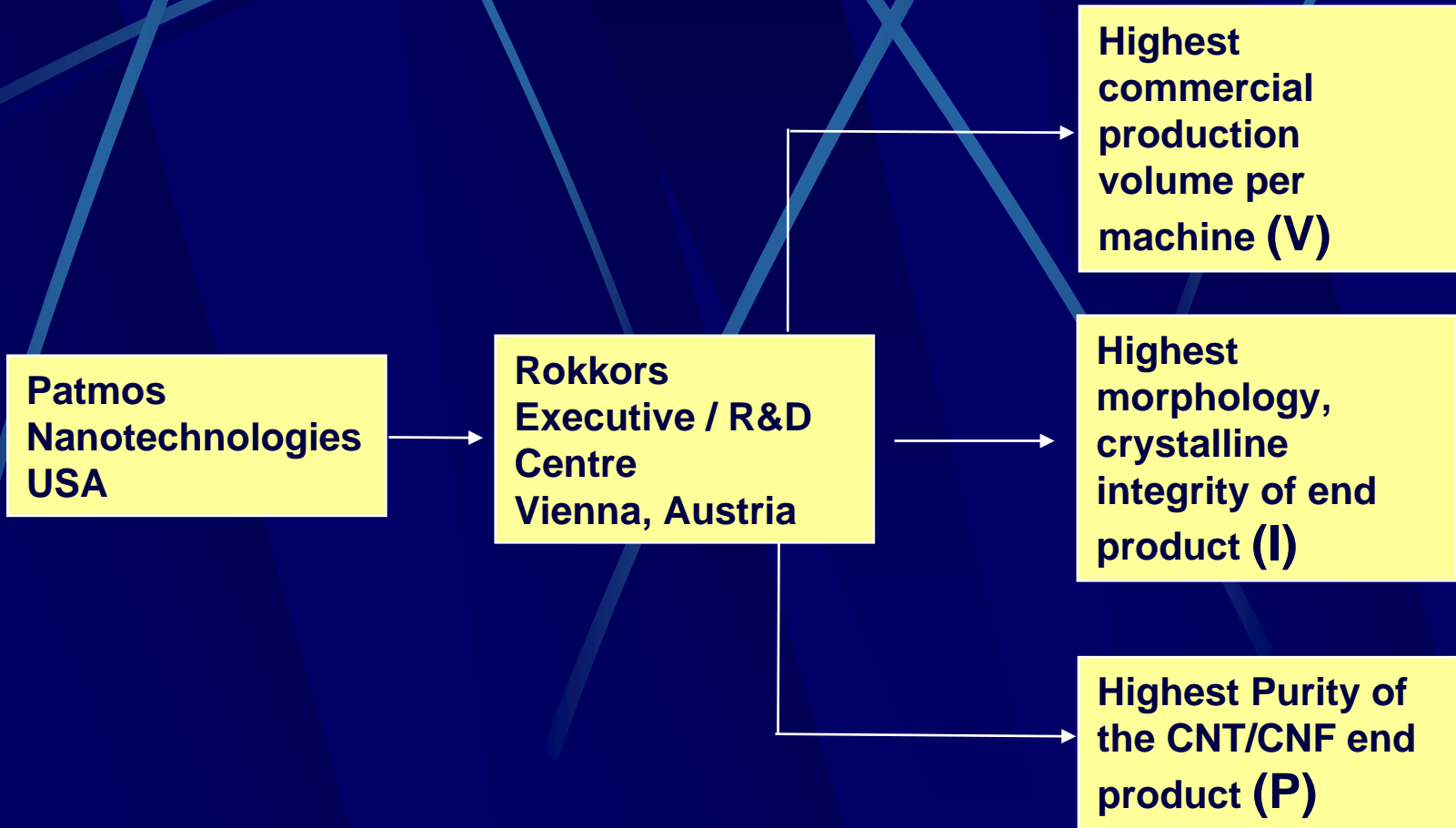
Aerospace and Private Space Program

- The projects we are working on are both commercial and a private space program that will heavily engage aerospace. We will be looking for strategic partners to play key roles.
- Right now we are focused on 6 major CNS production centers, 35 high tech spinoffs (and growing) and major industrial partners and customers waiting for output.
- The 35 spinoffs are final products and applications dependent on high purity carbon nanostructures.
- We do more than just carbon nanostructures.

Applied product focus:

- Specific Trap Nanofilters
- Thermal Heat Sinks (carbon, will not conduct electricity)
- Nano-optical processors, nano-second switching and processing speeds
- Nano-power systems
- Nanoceramics
- Nano-alloys & composites
- Nano-polymers
- Nano-plastics – injection molded
- Aerospace and outer space
- Many others

What makes Rokkors stand out when compared to our competitors? We call it **VIP**.



We break ground within 8 months on the most advanced
CNS technology plant in the world.
4,379 employees, €1.36 billion total cost,
+€16,000,000,000 per year in revenues.



Carbon Nanostructures (CNS) our way:

- **Ukraine** - 4,000 mt/month, 48,000 mt/year. That is larger output than all known CNS producers in the world and is the smallest of 6 major production centers we have in negotiations or engineering design right now.
- Russia, 8,000 to 12,000 mt per month
- TBA, 8,000 to 12,000 mt per month, maybe 20,000
- TBA, 8,000 to 12,000 mt per month
- TBA, 12,000 to 30,000 mt per month
- TBA, 12,000 to 30,000 mt per month
- Other nations under consideration.

Carbon Nanostructures (CNS) prepared by our method

- Single Wall Carbon Nanotubes (SWNTs)
 - One single graphite sheet rolled to form a tube
- Double Wall Carbon Nanotubes (DWNTs)
- Multi Wall Carbon Nanotubes (MWNTs)
- Multiple concentric Single Wall Nanotubes
- Carbon NanoFibers (CNFs)
- Composite carbon structures

It is true....

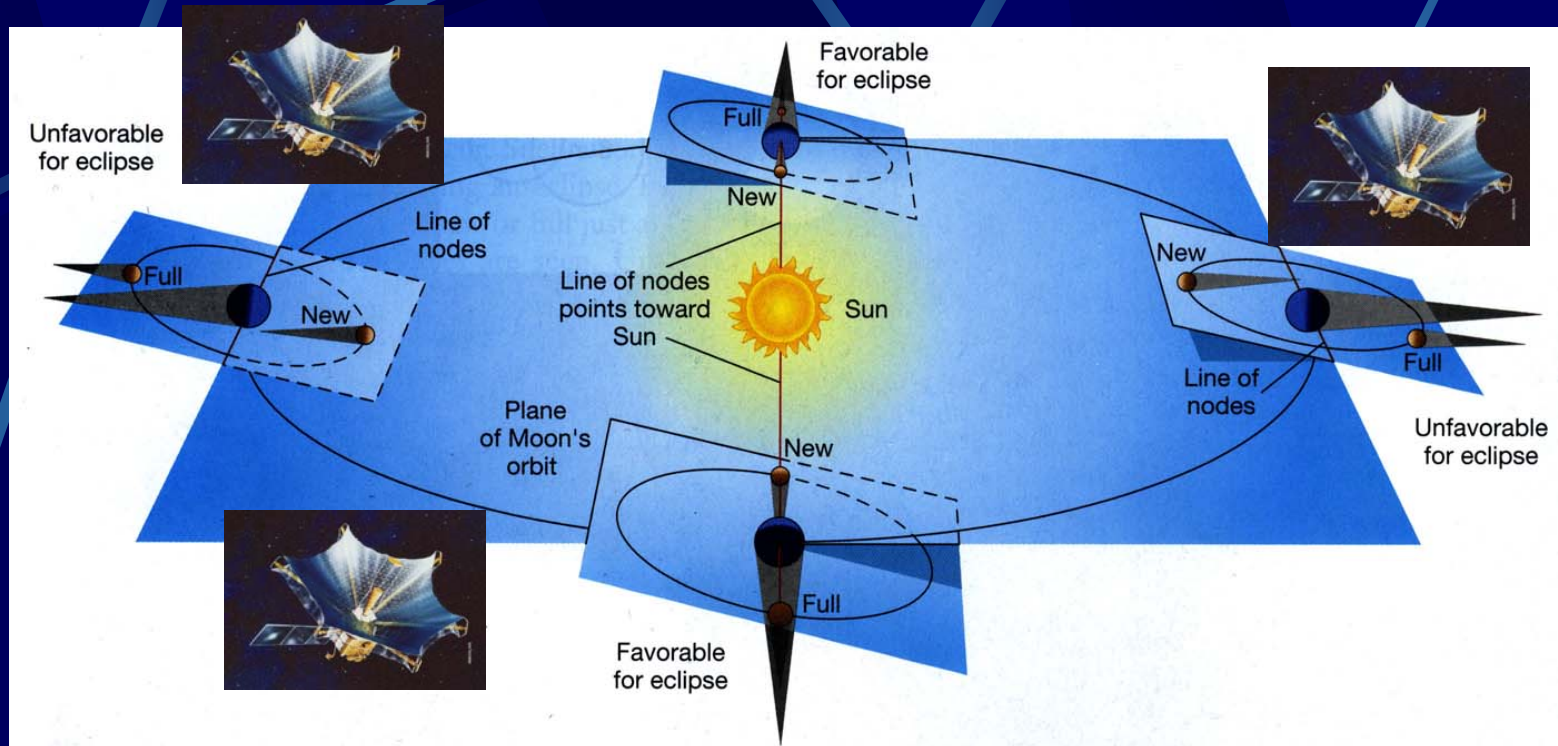
- Carbon nanofibers can be 15 to 17 times as strong as Kevlar, but there is a catch.
- Carbon nanotubes can be up to 23 times as strong as steel, but there is a catch.
- CNS are strong only if they are >95% to >99.5% pure. Lower purity, poor morphology means less strength.
- And there is another catch, volume of output to effectively address larger scale applications.
- We are already there, >95% to >99.5%, maximum purity and strength, and industrial volume output.

Antonov and Volga Dnepr will play a major role in our future directions and projects. Multiple airports will be shipping massive tonnages to a Space Elevator site.



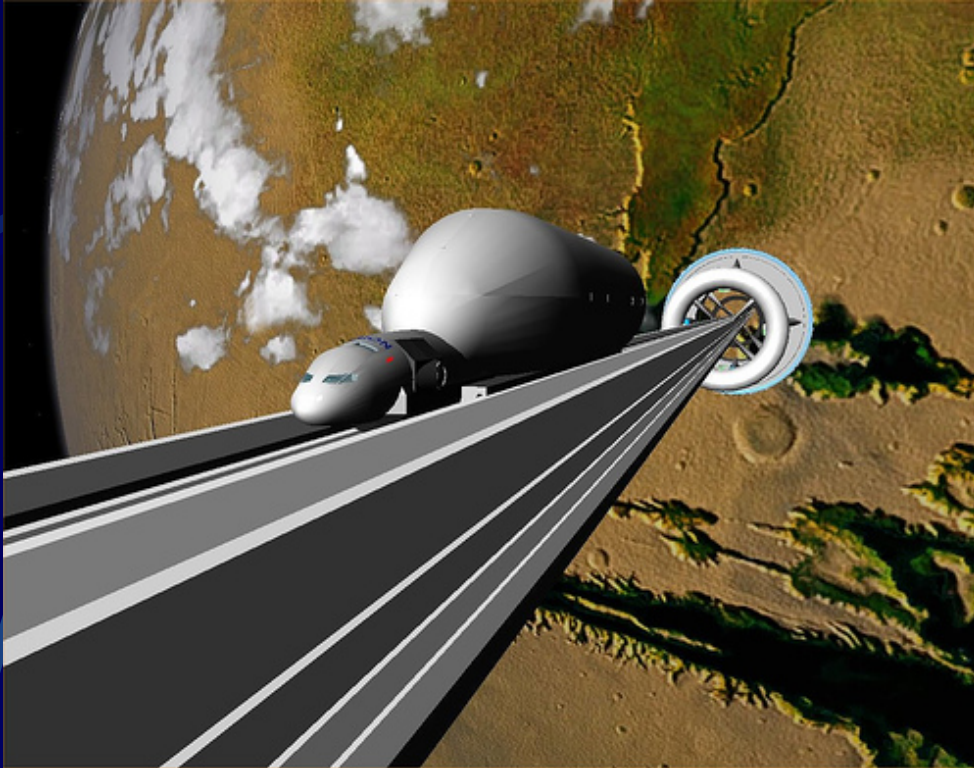
Just a glimpse of where we are in scalability:

Earth Needs an Early Warning System the size of Earth orbit around the Sun.



This VLBI would not be probing the depths of the Cosmos or looking for ET.

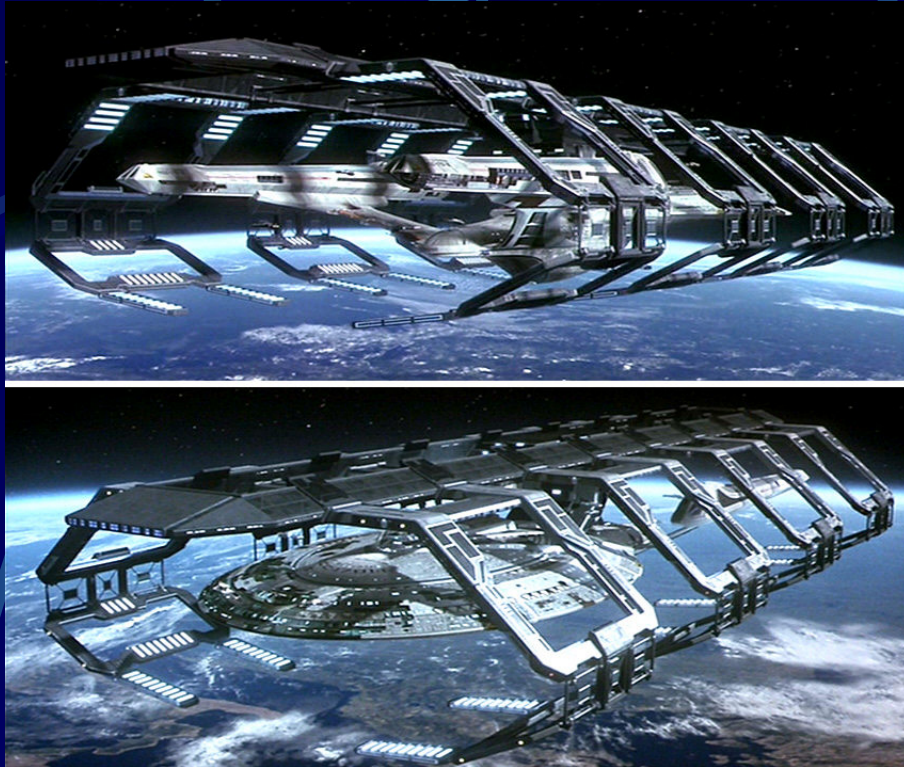
Leading Edge and Then Some



Many are trying to figure out how mankind can build a space elevator.

The Company is already in negotiations and advanced planning for such a facility.

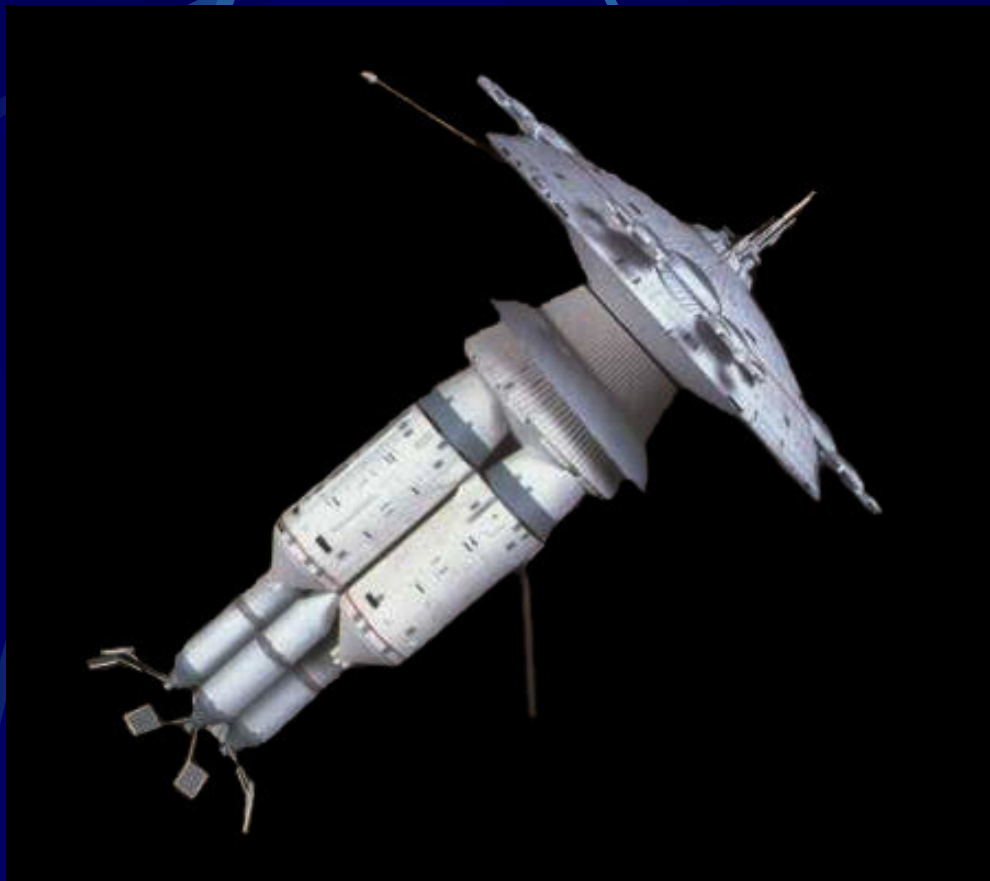
Leading Edge and Then Some



In addition to a Space Elevator we have scientists and engineers working on a Space Hanger, sort of an Out-of-this-World Final Assembly Line (FAL).

It would be in geosynchronous orbit above a Space Elevator.

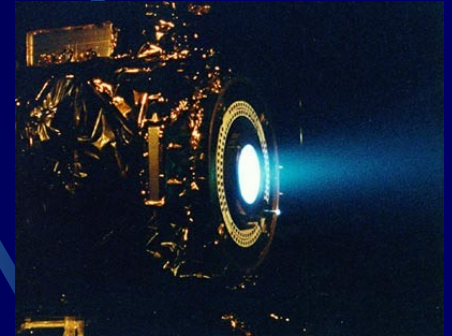
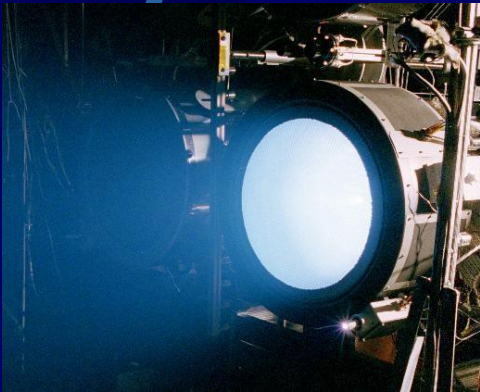
Leading Edge and Then Some



We are also working on a space station that would be in geosynchronous orbit.

It would be the anchor for a new VLBI radio telescope array and several other functions.

Ion Engines for Space Propulsion are a good idea but may soon be obsolete or relegated to short trip propulsion such as Space Tractors in near Earth orbit. Nanotechnology is a disruptive technology and changing the advancement (and displacement) at an accelerating pace.



Scientists collaborating with Rokkors have successfully test fired a new type of propulsion system three times within the past 8 months. It is only possible with nanotechnology. Capable of tremendous speeds, we are now focusing on Long-Range Collision Avoidance Systems.

The spaceship is in the early stages of design and has many nanotechnology features.



How fast?

It could depart this solar system in less than 2 weeks.

That is fast!!!



What we excel in and do is....

- Positioning aerospace to more proactively apply nanotechnology to future types of terrestrial and outer space vehicles and special purpose projects; and
- Opening new avenues for consortiums to expand work volume and revenues; and
- Moving mankind up the technology ladder; and



Strategic Vision and Strategic Plans need Strategic Partners.

Many aerospace companies will be needed as strategic partners for what we do and we have key technology to assist in moving aerospace ahead now.



Rokkors Nanotechnologies GmbH
Global Skills, Global Vision.

Thank you for your attention to this
presentation.

Rokkors Nanotechnologies, GmbH