

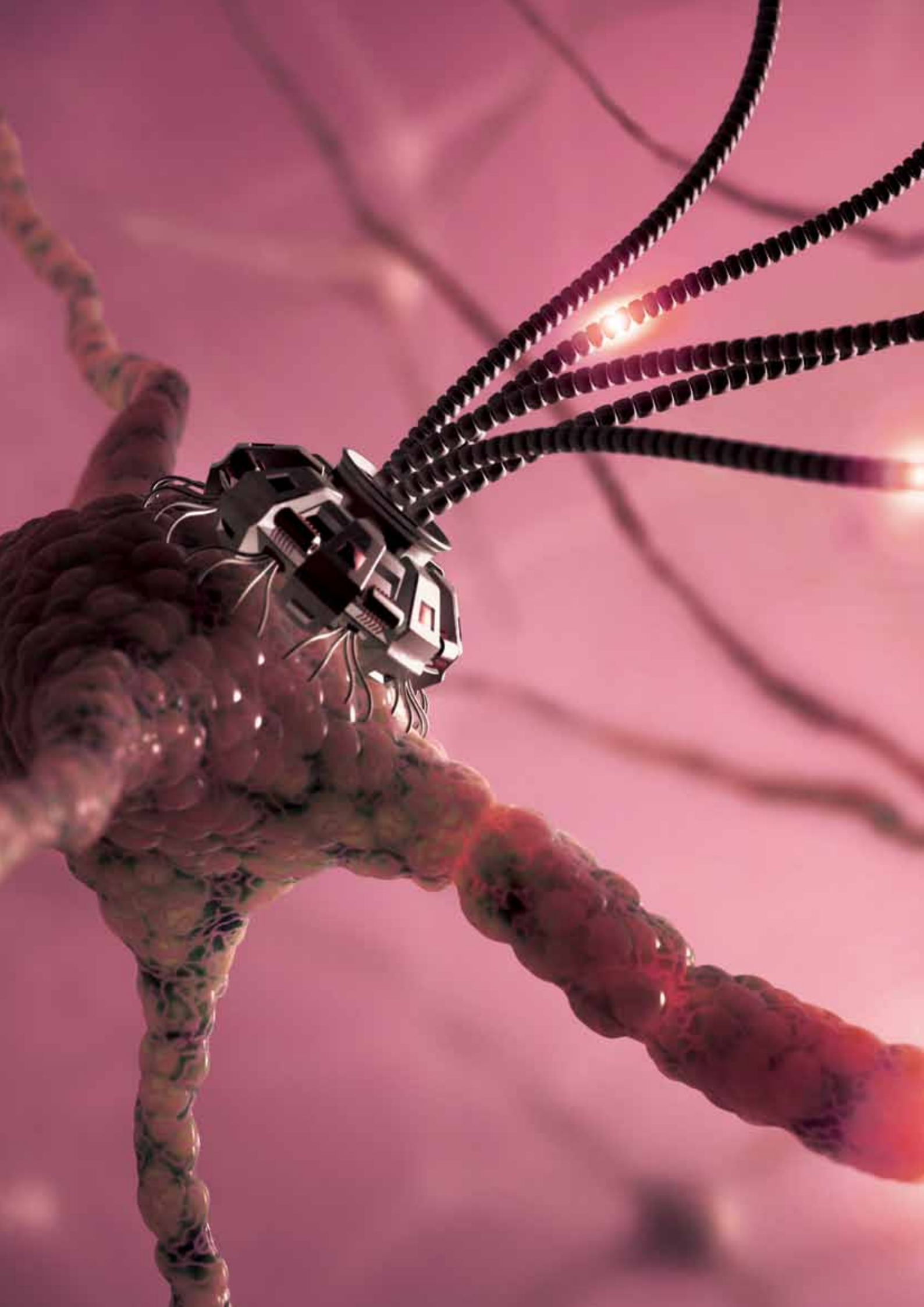


The World Nano Foundation

Vision

2015-2020

Small ideas that will change the world



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The World Nano Foundation



Mission Statement

“Supporting the science of the
ultra-small for the benefit of all”

Foreword

Over 50 years ago, at an American Physical Society meeting at Caltech, a talk was given named 'There's plenty of room at the bottom' which first detailed the concept of 'nanotechnology'; the talk was given by an American Physicist, Richard Feynman, before the term 'nanotechnology' had even been coined. Feynman communicated a process by which the ability to manipulate individual atoms and molecules, using one set of precise tools to build and operate another proportionally smaller set, which would then be used to build and operate an even smaller set and so on down to the needed scale. The talk is now considered to be the one of the seminal events for 'nanotechnology' and influenced the theoretical beginnings of the science years later.

A decade or so later, Tokyo Science University Professor Norio Taniguchi, defined the word 'nanotechnology' in a 1974 paper, whereby he stated: "Nano-technology' mainly consists of the processing of separation, consolidation and deformation of materials by one atom or by one molecule." The simple notion of this definition was explored in much more depth by Dr. K. Eric Drexler in the 1980s, who promoted the technological significance of nano scale phenomena and devices through speeches and books, such as *Engines of Creation: The Coming Era of Nanotechnology* (1986), which is considered the first book on the topic of nanotechnology.

The 1980s saw the first major developments for 'nanotechnology' and 'nanoscience'; with the birth of cluster science and the invention of the scanning tunnelling microscope (STM). These advancements steered the way to the unearthing of fullerenes in 1986 and carbon nanotubes a few years later. Nanotechnology has since grown further with the study of semi-conductor nanocrystals and the invention of the atomic force microscope. Today, universities the world over have dedicated centres for the study of nanotechnology and a rising number of nanotechnology business is developing. Nanoscience today is reshaping technology.

In 2015 we see the launch of The World Nano Foundation during The World Nano Summit at Discovery Park, Sandwich, England. The Foundation purpose is to support nano entrepreneurs from concept to commercial application through learning, collaboration, investment, future proofing and sales and marketing. It will be a membership organisation but has a fund strategy for the next five years. The aim is to realise extraordinary nanoscience in commerce and everyday life.

About The World Nano Foundation

The World Nano Foundation is a not-for-profit charitable organisation, which will work and collaborate with a wide variety of partners. Maximising support and funding to bring the science of the ultra-small to the world and commerce alike.

Aimed at aiding entrepreneurs, inventors, professors and professionals from a business-up perspective, the Foundation is a medium for nurturing, developing and commercialising ground-breaking new nanotechnologies to revolutionise the world and how we interact with it.

The Foundation has been supported by a number of illustrious figures who aim to create a legacy for not only the nanotechnology industry, but for the international community. Our philosophy is simple, every product or innovation must come with a true point of difference and it is simple for the world at large to understand the benefits it can bring.

Support will be given from the Foundation to a diverse range of nano activities across various platforms including but not limited to investment, collaboration, R&D, IP, testing, supporting media, summits, awards and education, with focus on public and business engagement.

The goal is to pool knowledge and experience, through the development of partnerships in Business, Science, R&D and Academia.

We aim to create five centres of excellence across the World, where an array of world-class universities and researchers can support trailblazing nanoscience organisations. From such a strong foundation we will collaborate with a network of partners from across the globe.

The creation of an environment to smooth the process of funding, business collaboration and long-term monetisation is paramount for these truly disruptive innovations. Furthermore, in protecting any innovation, we will utilise aspects of science and business to future proof the commercialisation of nanotechnology.

The Foundation should be a mechanism to create and shape the global research agenda and influence policy nationally and internationally in the field of nanotechnology. Additionally, the Foundation will educate and influence the wider population in regard to nanotechnology and its applications.





Our vision is the creation of extraordinary nanotechnology businesses that improve our way of life

The mission is to support the science of the ultra-small for the benefit of all

Our intentions:

- *Collaboration with commerce, investors and academia*
- *Access funds and raise global awareness*
- *Educate and commercialise technology*
- *Bring the science of business to nanoscience*
- *Global recognition and accountability*
- *Global standardisation*
- *Skills – from school to phd*
- *Open technology transfer*
- *Public/private partnerships*

**Quite often the world of
commerce does not sit easy
with the world of science**

**Together they are stronger
and this will only come from
collaboration and understanding**

The Challenges

- *Protecting the integrity of the IP and innovation*
- *Bringing true value to investors*
- *Making sure there is a real need in the market place*
- *Educating all parties on roles and responsibilities*
- *Creating one view that is simple but collaborative*
- *Speed of change*
- *Available to all*
- *Environmental degradation*
- *Illegal autoproduktivty and cloning*
- *Developing standardisation metrics*
- *Molecular manufacturing*
- *Global data consistency and global measurements and standards*
- *Global codes of conduct*
- *Health and safety*
- *Public perception*



Layered Sustainability

A lasting Foundation for all

- *A self-supporting vehicle to enhance and grow nanotechnology businesses*
- *Supporting innovation in technologies that will make the world more sustainable keeping innovation and technologies creating sustainable growth*
- *Providing sustainable security against Investment and employment*
- *Providing defined roles for graduates and school-leavers in nanotechnology to aid the sustainability for future employment*
- *Global regulatory monitoring (un) – similar to united nations*
- *Sustainable solutions using less resources*
- *Standards of sustainability*



Investment

Support through Investing Resources

- *Investor support services*
- *Guidance in the 1st, 2nd phase investment and 3rd final business phase through to maturity*
- *Supporting services and media to business*
- *Technologies/science proof of concept and commercial applications (R&D)*
- *The future world benefit through sustainable investments*
- *Help with grants and investment or mergers and acquisitions*
- *Self-serving revenue generating membership organisation*
- *Intellectual property protection, patents and copyright*
- *Investing in the creation of nanotechnology indexes*



Experience Tree

A Network of Knowledge

- *Providing branches of expertise to aid the nano community worldwide, such as in Finance, Compliance, Health and Safety, Accounting (tax), HR and Recruitment, Sales, Marketing and Business Planning*
- *Collaboration and partnerships sharing pool*
- *Using scientific experts to create and improve inventions, add value and future proof*
- *Creating a journey plan for nano start-ups from seed to maturity*
- *Recognising commercial possibilities*
- *Share learning from nano organisations who have already gone through the journey*
- *Receiving advice 'workshops' from renowned figures in science/business who are 'top of the tree'*
- *Create a communication machine to support the industry*
- *Developing internationally trade partnerships*



Thought Resonance

The Dissemination of Information

- *Collaboration between nano start-ups with each other, business and academia*
- *Gaining suitable coverage for inventions/organisations when the time is right*
- *The World Nano Foundation (WNF) Awards*
- *The World Nano Summit (WNS)*
- *The World Nano Exhibition and cities of excellence*
- *The World Nano Museum/Nano Science Tour*
- *Infiltration into the public consciousness*
- *The World Nano Fund*
- *The World Nano Foundation scholarships and bursaries*
- *A repository of thought leaders to collaborate challenge and monetise*



Legacy

- *A sustainable business enterprise network*
- *Building a skilled workforce for a better future*
- *Collaboration of learning around the world*
- *Innovations to enhance life on Earth*
- *A media and marketing tool for legacy and communication*
- *A well regulated and safe nano environment for future generations*
- *An engaged world through media and education*

These aims and objectives have been produced and supported by various experts from Commerce and Academia as well as regulatory organisations. The future trustees will develop the plan through to maturity and beyond.

Serving and supporting the Membership Stakeholder Groups

- *Educational institutions*
- *Investment mechanisms*
- *Philanthropy and ethical family trusts*
- *Nano and enabling technology companies*
- *Professional services*
- *Other business services*
- *Media*
- *Science park facilities*
- *Governments and Government agencies*
- *Scientific supply chain providers*



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The World Nano Summit

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