

IoN Consulting

The Institute of Nanotechnology (IoN) has a cumulative staff experience of over 60 years analysing technology and market trends, providing risk analysis, and assessing the impacts of changes in government policy, regulation and legislation. Our clients include industry, academia and government, for whom we provide intelligence on nanotechnology and its applications in different industrial sectors and global regions. We were one of the first organisations to report on and analyse the impacts of nanotechnology. Early on, the Institute supported the UK Government in the formulation of its policy in nanotechnology in a variety of ways - from undertaking benchmarking exercises to leading fact-finding Missions to major nanotechnology centres and companies across Europe and in the USA.

Since 1997, the Institute has been mapping and analysing technology and market trends, identifying and engaging with major players, participating in evolving government policy, and monitoring changes in regulation and legislation. This knowledge and experience is now available to our clients through a bespoke consultancy service.



Our approach

We use both quantitative and qualitative analysis to meet our clients' needs. Before undertaking any activity we want to fully understand our client needs: nature of the intelligence required, scope of activity, regional and sectoral limits. This will usually take the form a pre-meeting telephone call to gather initial requirements, followed by a more in-depth, usually face-to-face discussion (dependent on the scope). We will agree timetables and budgets at this point, and detail our methodological approach.

We make use of publication and patent databases, company reports, our own internal databases of organisations, their business streams and key people, and combine this with interviews, Delphi surveys and expert workshops, as appropriate, to deliver validated results to our clients.

In addition, the Institute has an extensive network of global scientists, industrialists, investors, and regulators with whom we regularly interact for the purpose of gathering high-level intelligence on specific topics.



Market Intelligence

Starting with a client's product or manufacturing process, we provide tailored market intelligence comprising current and future unit and market valuations, opportunities in different markets and global regions, and assessment of the competitive environment; allowing our clients to make informed decisions on future business strategy. Supporting this analysis we have a comprehensive database of key players, knowledge of global markets and the underlying technologies, built up through our work in international projects and with organisations in different industrial sectors and global regions.



Technology Assessment

We review current products and manufacturing processes employed by our clients, and advise how nano and other advanced technologies will impact their business and can be harnessed to enhance product value and manufacturing efficiency. This is built on our strong understanding of the development trends of nano and other advanced technologies and manufacturing processes, in a broad spectrum of industrial sectors, established through our participation in multidisciplinary and international projects and working directly with companies in our corporate membership scheme.



Technology Scouting

We assist our clients in finding technology solutions to solve problems and to enhance product performance and applications. We perform an initial analysis of client requirements and use our networks and contacts to identify new technologies that meet these needs. This confidential process spans a range of services from personal introductions to canvassing our database for potential technology providers.



Regulation

The current climate has seen many regulatory changes (e.g. REACH, TSCA, RoHS) regarding nanomaterials, which impact all high technology businesses. Keeping abreast of these, however, is time-consuming and often beyond the resources of an individual organisation. IoN supports clients through providing information and advice on regulatory developments applicable to our clients' products and processes, detailing key changes, likely timeframes for implementation and implications for different business sectors. We offer bespoke reports, risk analysis and awareness raising workshops, all built upon our knowledge and connections, established through direct regulatory experience, European projects and participation on standards and government committees.



Environment, Health, and Safety

Environment, health and safety issues are a major concern to producers of nanomaterials and nano-enabled devices, and underpin many of the proposed changes in legislation. IoN keeps its clients abreast of new research, its relevance and how it may affect future policy and regulations through reports, training workshops and access to an international network of EHS experts.



Government Policy

Changes in government policy can affect funding priorities, support measures, legislation and regulation, all of which have major impacts on business. We offer our clients early warning of changes in government policy, and the opportunity to influence policy through our activities. The Institute both monitors and contributes to policy development at a European and UK level through its publicly-funded projects, membership of government committees and advisory groups, response to strategy documents and channelling the views of our members.

Examples of our work

The Institute has participated in a number of publicly funded projects as well as delivering consultancy services to different organisations:

NanoCelluComp

NanoCelluComp: FP7 project (2011-14). Aims to develop a technology that will utilise the high mechanical performance of cellulose nanofibres obtained from food processing waste streams, IoN lead contractor.



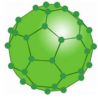
NMP Scoreboard: EC contract (2010-12). Qualitative and quantitative analysis and benchmarking of nanotechnology, new and advanced materials, manufacturing and production processes.



International NanoMicroClub: UK government contract (2010-11). Supporting UK micro and nanotechnology SME entry into new markets (US, Russia, and Japan)..



observatoryNANO: FP7 project (2008-12). Analysis of key emerging scientific and technical developments of nanotechnology and their socio-economic benefits. In addition, reviewing ethical and societal aspects and EHS issues, for the purpose of supporting policy and decision makers. 4m euro total budget, IoN lead contractor.



NanoSustain: FP7 project (2010-13). Life-cycle analysis of 4 different classes of nanomaterials (CNT resins, nanocellulose, ZnO and TiO). Providing training and support for industry in these matters.



Nanomaterials survey: European Space Agency (2008-10). Survey of nanotechnology capabilities and capacities in Europe for the aerospace industry, including a worldwide inventory of nanomaterials currently used as research tools and/or in industrial production, mapping European capabilities in these areas and identifying gaps.



FramingNano: FP7 project (2008-10) for an international multi-stakeholder dialogue platform leading to framing the responsible development of nanosciences and nanotechnologies. IoN responsible for website development and online tools, data collection and analysis and organisation of workshops.



ENRHES: FP7 project (2008-09) to review the health and environmental safety of engineered nanoparticles. IoN responsible for industry survey.



A Nanotechnology and Materials Strategy for Scottish Industry. Scottish Enterprise (a UK development agency) funded project (2008) to identify those emerging nanotechnologies that are expected to impact on Scotland's national and regional priority industries.



NanoRoadMap: FP6 project (2005-07). Provided roadmaps on nanotechnology developments in materials, health and medicine, and energy. IoN responsible for energy sector (PV, TE, storage, and insulation).



EuroIndiaNet: FP6 project (2005-07) to bridge the gap between Europe and India's nanotechnology knowledge bases and provide a better understanding of innovative support structures, training programmes and government policies.



Nanoforum: FP5 project (2002-07). Provided analysis of nanotechnology developments in different industrial sectors and support to business through industry events and workshops. 2.7m euro total budget, IoN lead contractor.



ICPC-NanoNet: FP7 project (2008 - 2012). Focuses on analysis of nanotechnology development and government policy in countries across the globe through webinars and live webcasts, and consolidation through databases and annual workshops.

Staff Profiles: Our staff specialise in various areas of nanotechnology



Keith Dingwall - Technology Analyst

Keith is an experienced analyst with a wide knowledge of the nanotechnology community. He has extensive experience in communicating with industry worldwide. On top of this, he has ten years of experience in commercial engineering roles within the electronics and semiconductor industries. More recently he worked in a knowledge exchange role with a Scottish University where his primary focus was on commercialising a range of science and engineering research.

Key technology/industry areas - electronics, thin films, product design



Sergey Gordeyev - Technology Analyst

Sergey is an experienced analyst, with a wide knowledge of the nanotechnology community in the EU and interface with companies. He has previous experience in materials research and technology consultancy to industry and academia.

Key technology/industry areas - security, materials



Richard Moore - Scientific Director

Richard has wide experience at senior levels in UK and Europe. He is responsible for the NanoMedNet network. He is active in the development and delivery of nanomedicine professional courses, workshops and conferences. He is also a frequent speaker at major conferences and contributes to specialist magazines and journals.

Key technology/industry areas - medicine and health, also standards, risk management, governance, regulations and the innovation process



Mark Morrison - CEO

Mark is an experienced project manager and technology analyst. He has an extensive knowledge of and experience in academic and industrial research, regulations and standards, communication, Framework Programmes, UK and EU government agencies and committees.

Key technology/industry areas - materials, consumer products



Lesley Tobin - Technology Analyst

Lesley is the Project Coordinator of ICPC NanoNet. She is an experienced analyst, with knowledge of the nanotechnology community in International Cooperation Partnership Countries. She has previous experience with academia, media and not-for-profit organisations.

Key technology/industry areas - information and communication technologies

Contact us today on Tel +44 (0)141 303 8444 to discuss your needs:

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Corporate members of the Institute benefit from a 20% discount on all services.

For further information on corporate membership click [here](#) or contact Steve Mulligan.