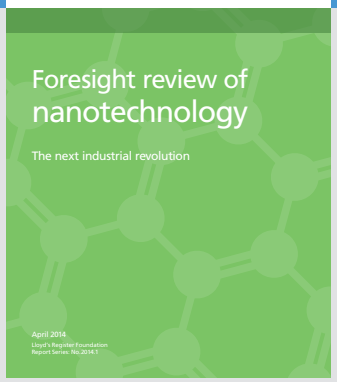
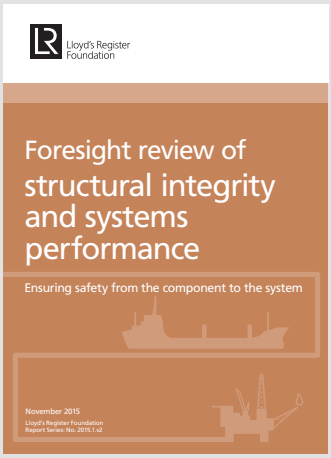
Lloyd's Register Foundation

Foresight for a safer future



What are the potential implications of nanotechnology on the safety and performance of engineering assets and the infrastructure on which modern society relies? This review finds that nanotechnology will have a far reaching impact on almost every industry including energy, transportation, manufacturing, medical, computing and telecommunications.

What will a future based in data look like? Data-centric engineering will feature in all aspects of critical infrastructure; from design to manufacturing, maintenance to decommissioning. Data will be used to predict and anticipate, plan and decide every aspect of the 21st century workplace.



How do we assure that a system, from individual components up to international networks of assets, continue to operate safely and reliably throughout the lifetime of the asset? This review explores which aspects design, manufacture, operation and maintenance can improve the safe operation assets and the individuals that work on them.

How can we build systems, infrastructures, networks, organisations and the associated human and social capacity to withstand stress and shock? How do we maintain minimum function even if we do not always know what the risks are?

Whats next?

Foresight review of
Robotics and Autonomous Systems

Foresight review of
Energy Storage

Foresight review of
Human Factors

Foresight review of
The Public Understanding of Risk

Foresight review of
Design for Safety

Contact us: info@lrfoundation.org.uk

Visit us: www.lrfoundation.org.uk

Lloyd's Register Foundation

Life matters