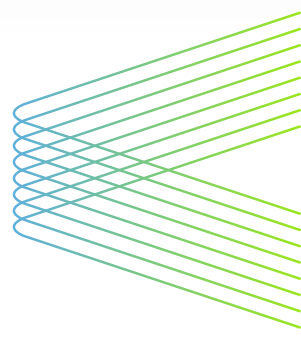


FROM SMALL TO MIGHTY



Celebrating 10 years of Nanoscience in Ireland

CRANN



Nanoscience is the study of materials on the nanoscale. It affects every type of manufactured product you can think of.

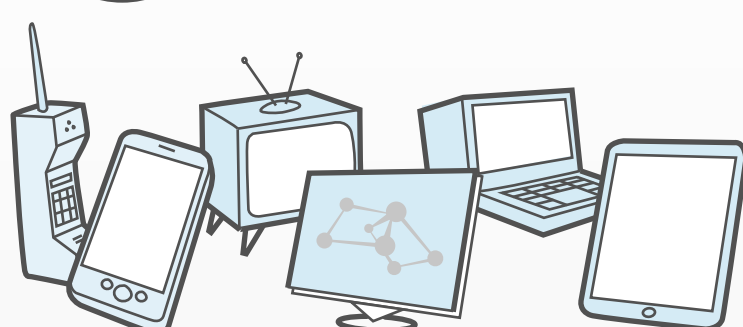
1,000,000

times smaller than a grain of salt – that's the nanoscale.

NANOSCIENCE GLOBALLY



Nanoscience is changing the face of manufacturing in medicine, energy, transport and technology.



The global nanotech enabled market has grown from **\$420M** to **\$254BN*** in the past decade.

NANOSCIENCE IN IRELAND



In 2003 CRANN, the Centre for Research on Adaptive Nanostructures and Nanodevices, was established in TCD with just 6 researchers working with 4 companies. Today, 10 years later it has –



300+
researchers employed



100+
companies partnered with

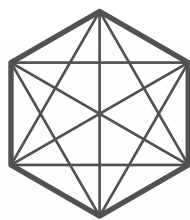


€50M
from industry and international funding



50+
patent applications

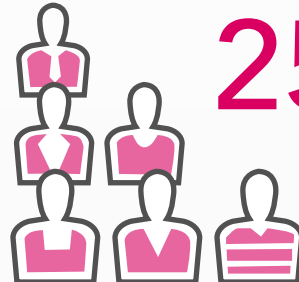
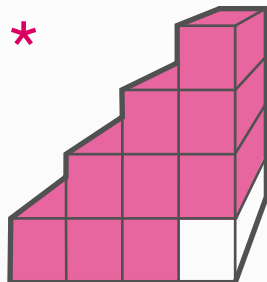
DECADE OF INNOVATION



Over the last 10 years, **€300M** has been invested in nanoscience in Ireland from Government and EU funding.

Nanoscience is linked to –

€15BN*
or 10% of Irish exports



250,000
Irish jobs

Ireland has attracted:



90% of the world's medical companies

70% of the world's tech companies



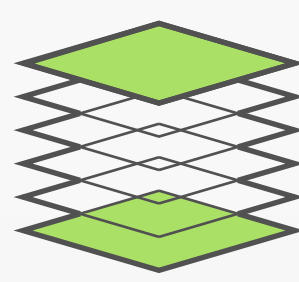
Ireland is at the forefront of research –



1st in EU for ERC starting grants in nanoscience

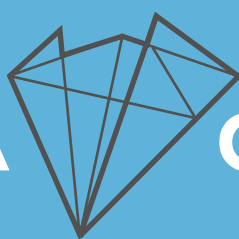


6th worldwide for nanoscience research

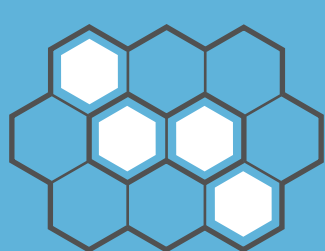


8th worldwide for materials science research

TOWARDS A GIANT FUTURE

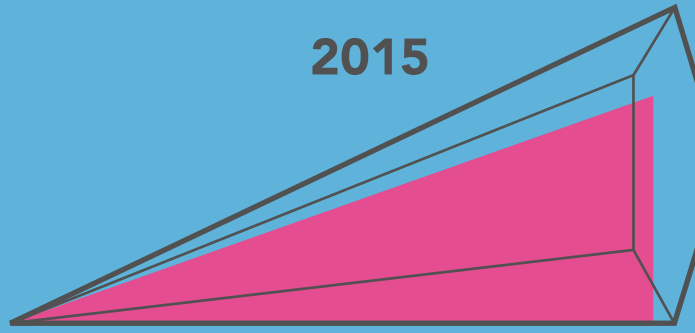


2013



€1BN
EU investment in graphene flagship project

2015



\$2.5TN
Global nanotech market growth

2016



20,000
more manufacturing jobs projected in Ireland

crann.tcd.ie

* Forfás Report – Ireland's Nanotechnology Commercialisation Framework 2010-2014