

The Southern Sweden and Greater Copenhagen region is an international frontrunner in nanotechnology research and development. We provide unique opportunities for companies that use nanotechnology to custom design ultra-precise new structures, devices and products with new and often extraordinary properties.

PROFESSIONAL ADVISORY SERVICES FREE OF CHARGE

Our advice and services are designed to help you find the right investment opportunities, the right business partners and the best location for your venture. We combine business intelligence and professional advisory services to match your company's specific needs.

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BIG IN NANO

WELCOME TO
GREATER COPENHAGEN
AND SOUTHERN SWEDEN

invest in skåne

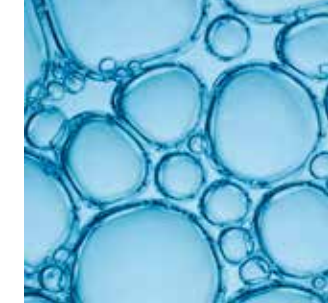
COPENHAGEN
CAPACITY
Invest in Greater Copenhagen

Interreg
Öresund-Kattegat-Skagerrak
European Regional Development Fund



ESS & MAX IV:
Cross Border
Science and Society

FRONTRUNNERS IN NANOTECHNOLOGY



OUR MAIN ASSETS

1 OUTSTANDING TESTBEDS, CLEANROOMS AND ADVANCED INSTRUMENTS

We have several regional flagship facilities equipped with some of the world's most advanced research equipment

- **4D Imaging Lab** A new facility at Lund University for 3D and 4D imaging of the internal structure of bulk materials and objects
- **DTU-Danchip** A national nanofabrication centre at the Danish Technical University housing state-of-the-art process equipment for lithography, etching, thermal processing, thin film deposition, wafer cleaning and advanced packaging
- **Lund Nano Lab** A cleanroom facility with world-class expertise in epitaxial growth and semiconductor processing

2 COMPANIES WITH GROUND-BREAKING PRODUCTS, SERVICES AND PROCESSES

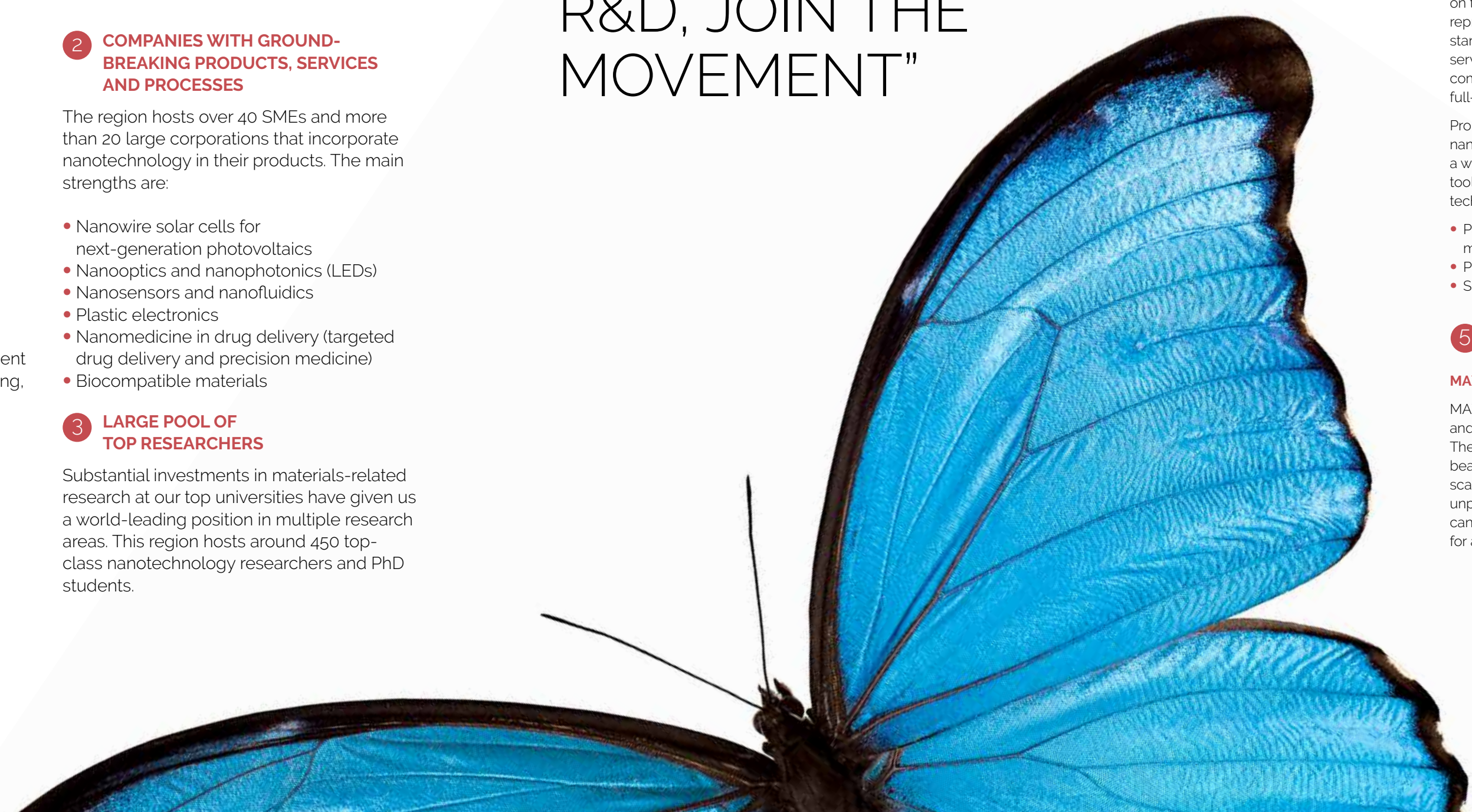
The region hosts over 40 SMEs and more than 20 large corporations that incorporate nanotechnology in their products. The main strengths are:

- Nanowire solar cells for next-generation photovoltaics
- Nanooptics and nanophotonics (LEDs)
- Nanosensors and nanofluidics
- Plastic electronics
- Nanomedicine in drug delivery (targeted drug delivery and precision medicine)
- Biocompatible materials

3 LARGE POOL OF TOP RESEARCHERS

Substantial investments in materials-related research at our top universities have given us a world-leading position in multiple research areas. This region hosts around 450 top-class nanotechnology researchers and PhD students.

"GROUND BREAKING R&D, JOIN THE MOVEMENT"



4 PRONANO – A PILOT PRODUCTION FACILITY FOR NANOPRODUCTS

ProNano will be a state-of-the-art facility focused on the successful conversion of prototypes into reproducible products. Meeting the highest industry standards, ProNano will provide equipment and services that assist researchers and companies in their commercialization process i.e. turn research results into full-scale production.

ProNano is designed to support the entire value chain for nanomaterials-based innovation (TRL 3–7) – and includes a world-class accredited metrology lab with cleanrooms, tools and services for the development of key enabling technologies. The facility also offers:

- Parallel development of automated manufacturing methods to shorten time to market
- Pilot lines for manufacturing verification
- Services and consultancy in nano safety

5 TWO WORLD-LEADING RESEARCH FACILITIES

MAX IV Laboratory

MAX IV is the world's brightest synchrotron light source and has a dedicated nanotech beamline, NanoMAX. The beamline provides highly focused and coherent beams that enable imaging applications using diffraction, scattering, fluorescence and other methods – all at unprecedented resolutions. With NanoMAX, companies can gain access to experimental techniques applicable for a range of experiments including:

- Nano-particles characterization (self-assembly of nanoparticles, large clusters)
- Residual stress and strain analysis
- Chemical and phase analysis in novel materials
- Functionality of applied materials
- Coatings and thin films characterization
- Earth science and related materials
- Crystallography
- Tomography for 3D characterization
- Investigation of catalysis processes

The European Spallation Source (ESS)

ESS will be a world leader in experiments that expose materials to intense beams of neutrons in specialized instruments. The resulting images will reveal the molecular structure of materials, allowing scientists to explore their physical and chemical properties on a whole new level. ESS will make a unique contribution to materials science and our understanding of industrial challenges.

6 HIGH R&D INVESTMENT BREEDS VIBRANT INNOVATION SYSTEM

Internationally recognized for their ground-breaking R&D, Denmark and Sweden are ideal locations for your nanotechnology activities. Since 2012, both countries have invested more than 3% of annual GDP in R&D – one of the highest rates in the world. This spending has fostered a vibrant nanotechnology innovation system populated by an array of organizations, institutes and clusters that provide fertile conditions for a diverse and fast-evolving nanotechnology ecosystem.