

## Better dental implants and less pain

A new high-tech research project will combine the latest in medical science with recent advances in nano-and process technology and developing an active implant surface, which can give patients all over the world a better and more painless experience when they undergo an implant surgery.

Knowledge about biological mechanisms, combined with the latest high-tech processes and analytical methods make it possible to functionalism implant surfaces at the nano scale level in order to implant the ability to integrate the body improved. Furthermore, it is possible to deposit the active materials on micro and nano level inside surface, which can not only promote the integration of implants in bone, but also increase the success rate further.

- The project has huge potential and is a unique opportunity to create breakthrough results for implant area. We know that we are the first to investigate so targeted and aggressive in this area. In particular, the technology combining new and large market potential, says Christian Schärfe Thomsen, Dental Product Manager Elos Medtech, which is behind the project along with iNANO at Aarhus University, researching into nanotechnology, Technological Institute, which develops plasma-based processes, and Elos Medtech represented at Elos Pinol, who is a supplier of implants for the dental industry.

- Although the project as the primary objective is to develop a surface for use in the dental segment, we have very high expectations that the surface can be transferred to a host of other market segments. There is, for example more than 4 million joints and hip patients and 1.1 million knee surgery patients who annually undergo surgery. The ultimate vision is to improve all forms of permanent implants, "says Søren Olesen, Vice President of Elos Medtech.

Advanced Technology Foundation supports research with 14.2 million Danish Crowns over four years.

<http://www.hoejteknologifonden.dk/index.php?id=350>