

AGENDA

TITANIUM POWDER BY SANDVIK – THE ADDITIVE ADVANTAGE

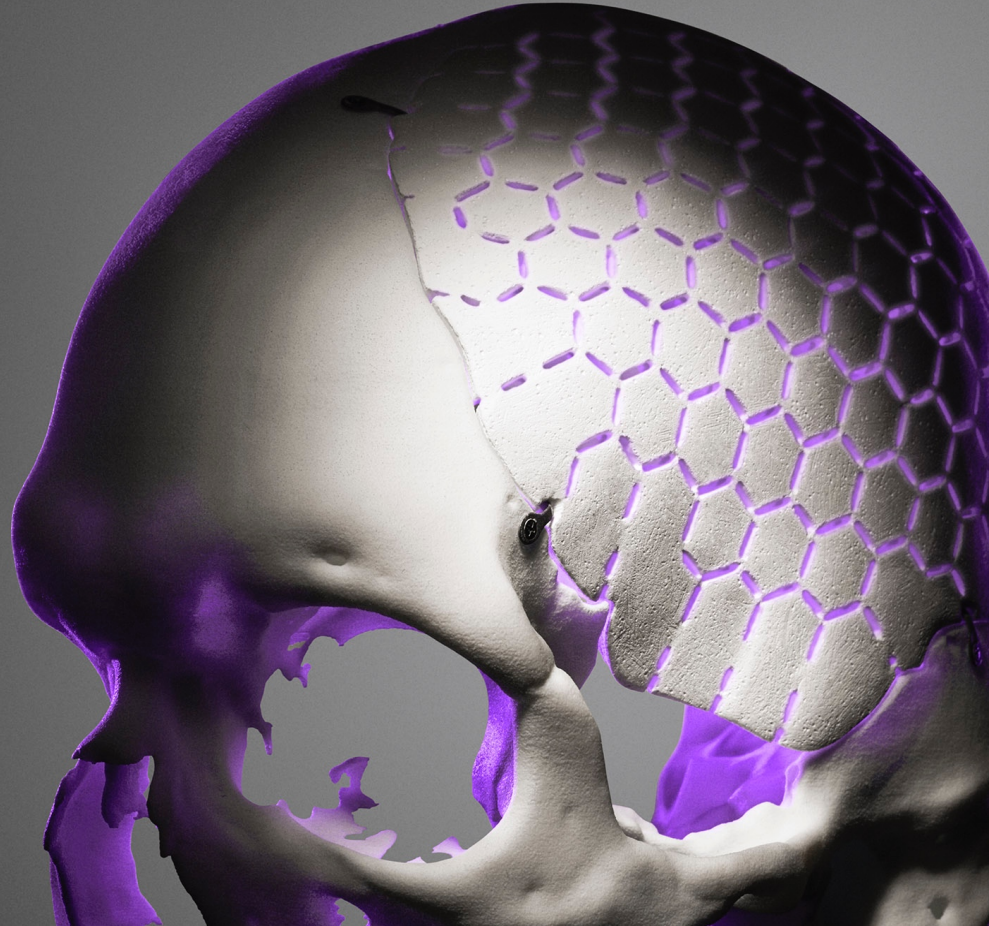
13:30 - 13:45	SAFETY FIRST AND WELCOME!	Kristian Egeberg
13:45 - 14:10	INTRODUCTION TO SANDVIK – AND TITANIUM AS AN ELEMENT	Mikael Schuisky
14:10 - 14:35	TITANIUM AND NICKEL POWDER PRODUCTION BY SANDVIK	Martin Mueller
14:35 - 15:00	TITANIUM AND NICKEL POWDER BY SANDVIK – THE ADDITIVE ADVANTAGE	Keith Murray
15:00 - 15:20	SWEDISH "FIKA"	All
15:20 - 15:40	AM-PROCESSING OF TITANIUM	Harald Kissel
15:40 - 16:10	BEAMIT – EXPERIENCE FROM AM OF TITANIUM COMPONENTS	Michele Antolotti and Martina Riccio
16:10 - 16:25	TITANIUM COMPONENTS FOR GSD E-BIKES	Zach Krapfl
16:25 - 16:40	LIGHTWEIGHT COROMILL® 390	Matts Westin
→ 16:40 - 16:55	OSSDSIGN – IMPLANTS FOR BONE REGENERATION	Kajsa Björklund
16:55 - 17:10	SWISS CENTER OF MANUF. TECHNOLOGIES FOR MEDICAL	Harald Kissel
17:10 - 17:30	SUMMARY, CONCLUSIONS AND KEY TAKE-AWAYS	Mikael Schuisky & All
18:00	DINNER @ BRUKSMÄSSEN	All



OSSDSIGN

IMPLANTS FOR BONE REGENERATION

*KAJSA BJÖRKLUND, PhD
DIRECTOR TECHNICAL OPERATIONS*



ABOUT OSSDSIGN

OssDsign is an innovator, designer and manufacturer of implants and material technology for bone regeneration.

Our roots are Swedish but we exist to help patients and surgeons worldwide.



UPPSALA
UNIVERSITET

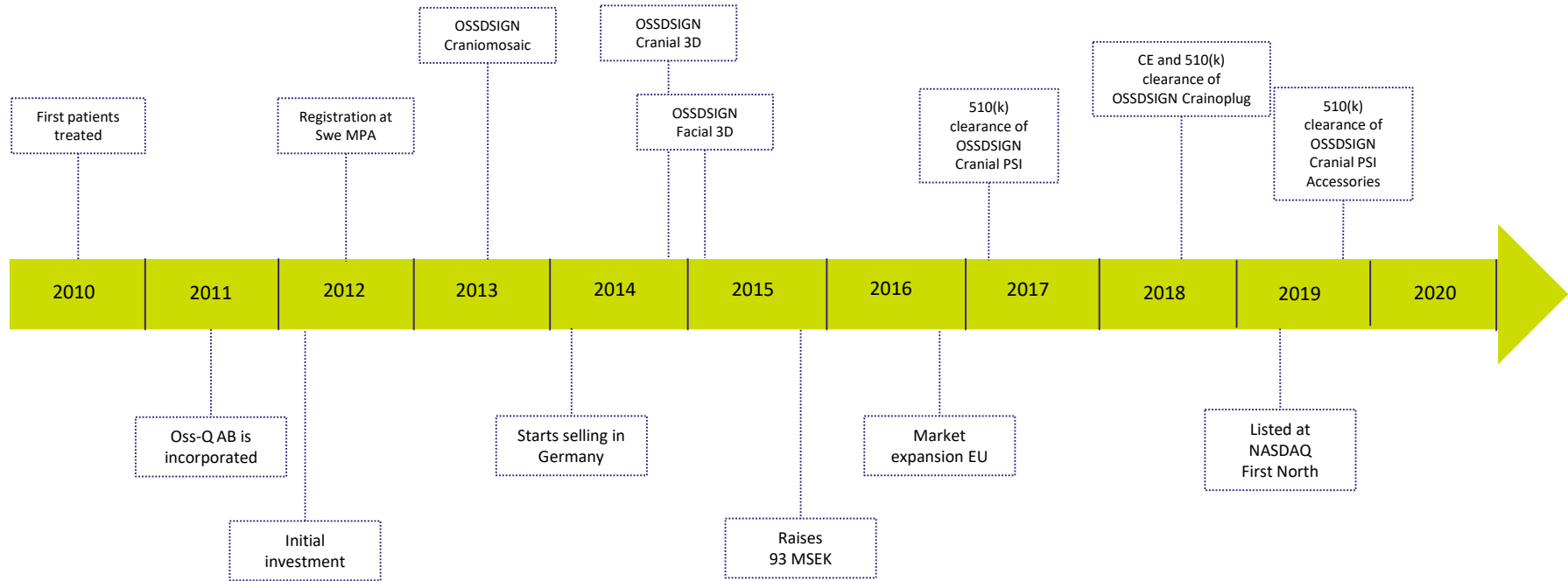
 **KAROLINSKA**
University Hospital

OssDsign's technology is the result of collaboration between clinical researchers at the Karolinska University Hospital, Stockholm, and material science experts at the Ångström Laboratory at Uppsala University.

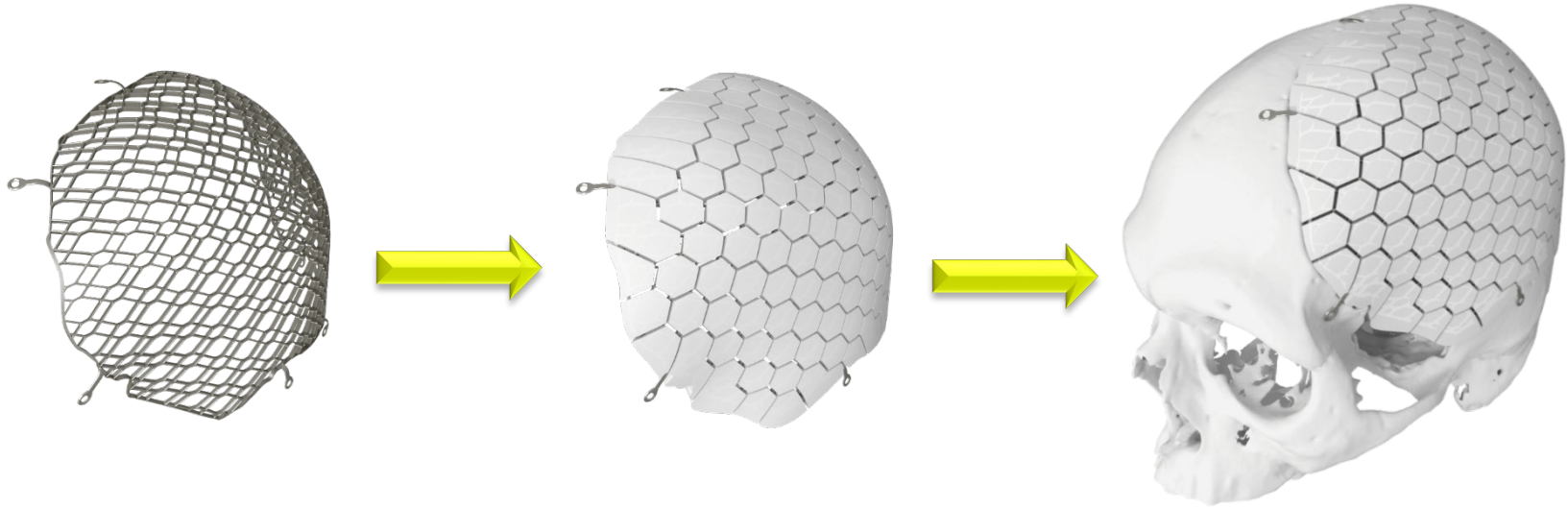
It started with Unmet Clinical Needs



From clinical need to innovative patient treatment



The OssDsign Technology



Titanium reinforced bioactive ceramic implants
Combining mechanical and biologic features

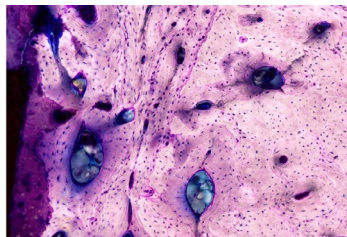
BENEFITS

Low observed rate of infections
and other complications leading to
implant removal^{1,2}

2%

*Reported rate of post-op infections
leading to implant explantation^{1,2}
(Competing materials: 7-15%³)*

Regenerative features observed
in terms of bone and blood vessel formation¹



*Patient histology at 31 months post-op
showing compact, vascularized bone in
contact with OSSDSIGN material remnants
and recipient bone.¹*

Complete cranioplasty solution
Delivered sterile with integrated fixation
arms and easy to use custom accessories
allowing for single-stage cranioplasty



*The fixation arms allow for easy fixation to
the skull with standard neuro micro screws*

OSSDSIGN Implants



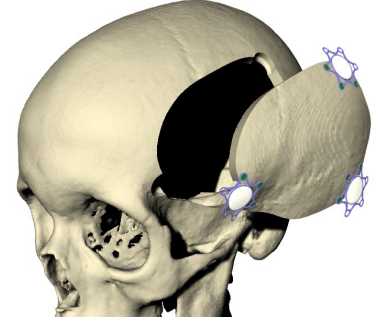
OSSDSIGN Cranial PSI

for reconstruction of cranial defects
In regular use in EU since 2015
510(k) cleared since 2017



OSSDSIGN Facial PSI

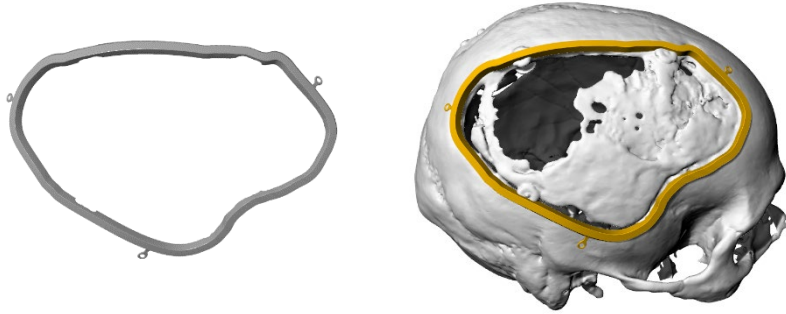
for reconstruction of facial defects
In regular use in EU since 2015



OSSDSIGN Cranioplug

for burr hole cover and bone flap fixation
CE marked and 510(k) cleared since 2018

OSSDSIGN Custom made Cranial Accessories

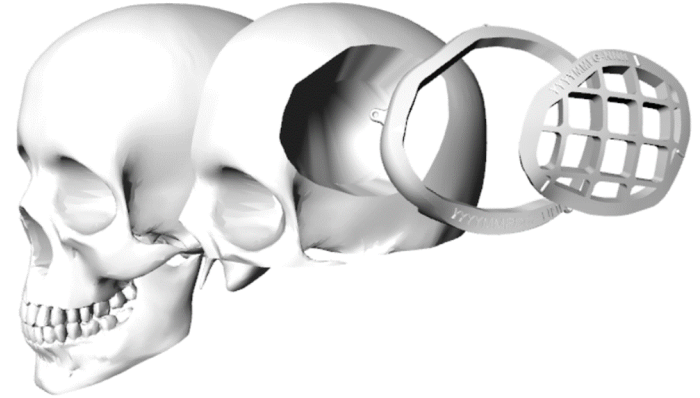


Titanium Drawing guide

To facilitate the implantation of Cranial PSI

3D Printed Titanium

Released to the EU market Feb 2017



- 1. Anatomical Models**
- 2. Plastic Drawing Guide**
- 3. Cranial Implant Trial**

To facilitate the implantation of Cranial PSI

3D printed plastic

Released to the EU market June 2018

510(k) cleared since Oct 2019

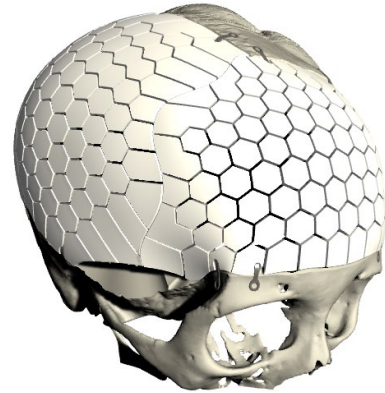
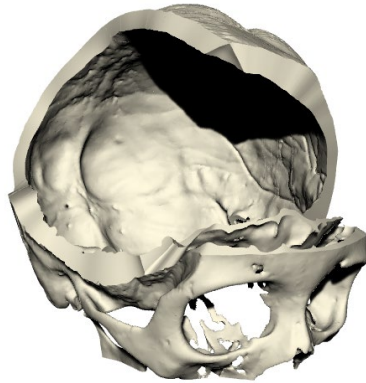
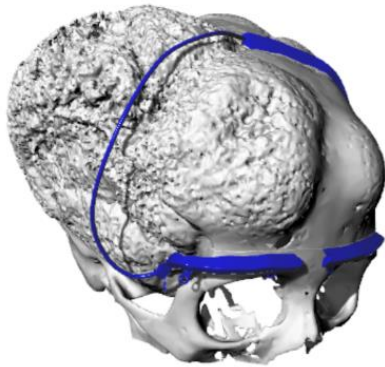
Cranial reconstruction following removal of giant plaque meningioma

The patient presented with a giant plaque meningioma infiltrating a large portion of the skull bone.



Pre-planning and cooperation with surgeons

Extensive planning and cooperation between surgeons and the OssDsign team led to a 2 implant surgical approach utilizing special surgical drawing guides.





THANK YOU

