bioretec better healing - better life

Bioretec

bioresorbable medical implants company

CEO Timo Lehtonen

Health Technology and Pharmaceutical Developer Night



Bioretec in brief:

- Globally operating company that develops and manufactures bioresorbable orthopedic implants
 - HQ and production in Tampere Finland and subsidiary in Austria
 - Headcount 28 with >200 manpower years of experience from bioresorbable implants
 - Publicly listed in Nasdaq Helsinki First North marketplace



Bioretec's goal is to produce bioresorbable implants to improve patients' quality of life and produce significant benefits...



Patients

...No need for removal surgery ...The risks of complications are reduced.



Surgeons

...Only value-creating care measures ...No risks associated with removal surgeries

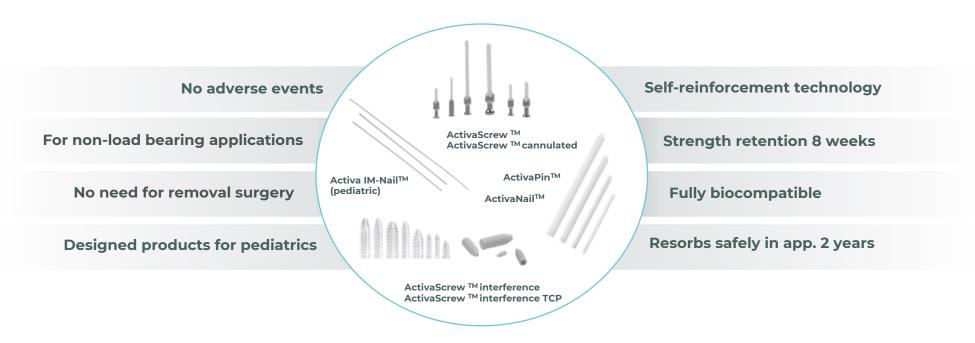


Society

....More efficient use of health care resources Reduce the total cost of care

Bioretec's current Activa biopolymer implant product line provides the know-how and foundation to launch RemeOsTM

Commercially available Activa products



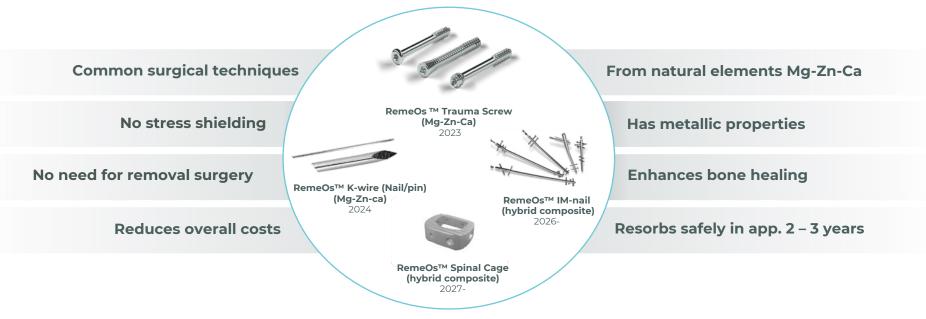
Shoulder Hand & Wrist Knee

✓ Manufactured by Self-reinforced bioabsorbable polymer (PLGA¹)

The **benefits** of the RemeOs[™] product family based on the innovative bioresorbable metal



Our new RemeOs™ product line will be available in 2023



Manufactured from RemeOs[™] alloy¹ and patented hybrid composite²

First product group to be commercialized is RemeOsTM – Trauma screws

- RemeOs[™] bioresorbable alloy is based on fully natural material composition¹
 - Calcium 0.5 0.7 wt.-%, Zinc 0.4 0.7 wt.-% and the rest being Magnesium
- RemeOs[™] trauma screw product line contains 4 types of screws for fracture fixation:
 - Cannulated fully threaded compression screw
 - Cannulated partially threaded compression screw
 - Cannulated LAG screw
 - LAG screw
- Safety and efficacy proven in preclinical and clinical studies
 - Safety and efficacy verified in clinical trial 3 years follow-up confirming complete degradation and disappearance with High resolution CT



Diameters: 2.0 – 4.0mm (0.5mm increments)

Lengths: 8 – 50mm (2mm increments)

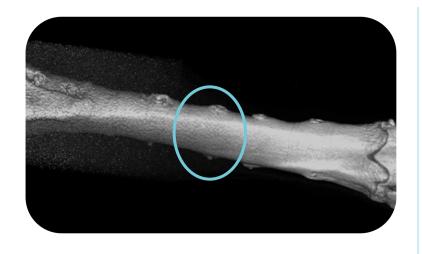
¹ Rare earth elements (set of 17 soft heavy metals), also called the rare-earth metals (REE) or the lanthanides (though yttrium and scandium are usually included as rare-earths) have shown in vitro negative effects like promoting apoptosis, as well as other short and long term negative biological effects.

² Final anatomical locations, indications, designs and sizes of RemeOs™ products depend on regulatory approval in connection with marketing authorization

Bioactivity and Enhanced bone growth verified in vivo

RemeOs:

Titanium:

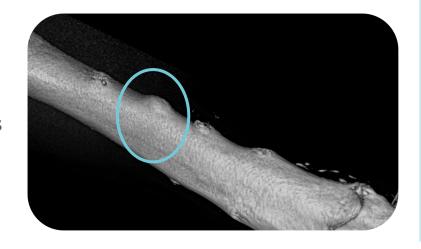




RemeOs[™]
Trauma screws vs.
Titanium screws
analyzed by
Micro-CT in sheep

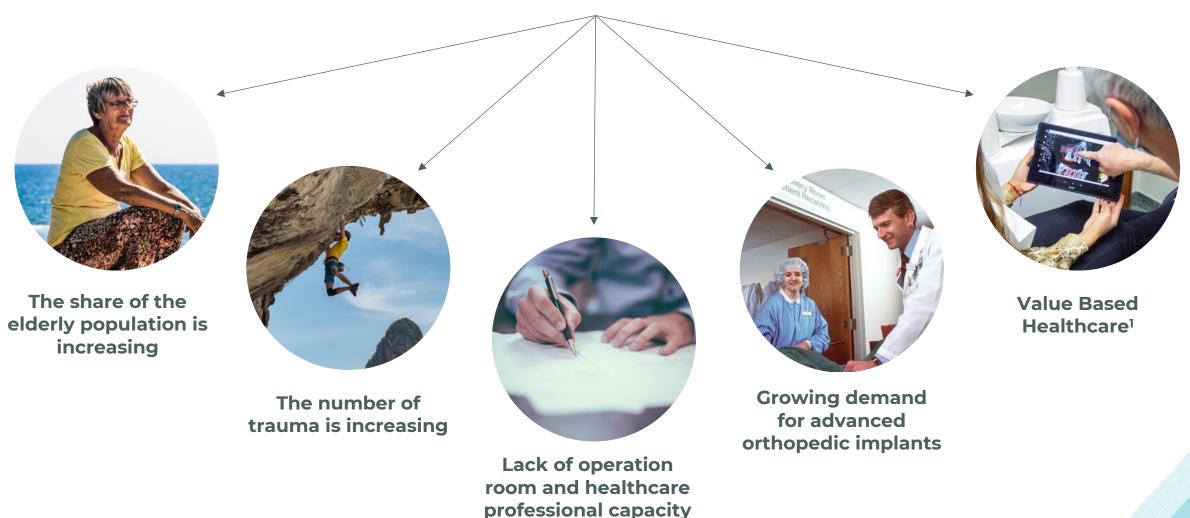
12 weeks

6 weeks





Our bioresorbable products meet the growth drivers of the market...



Status update of the year 2022

RemeOs™ product line:

US/FDA DE Novo:

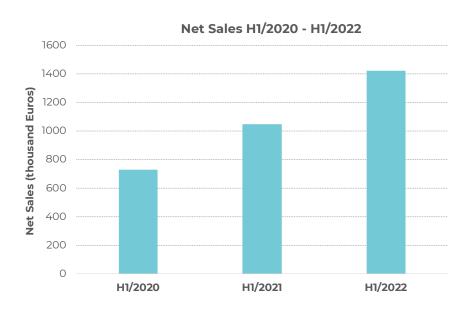
- De Novo application submitted in May 2022
- Supplement of the De Novo application to be completed by the end of 2022
- Expected approval in April 2023

• EU/CE-mark

- The CE-mark application submitted in December 2021
- We are still waiting for the feedback from the Notified Body on main sections of the submitted application
- Expected approval in 2023
- RemeOs[™] K-wire (Nail/pin) clinical trial study site contracting on-going
- Hybrid composite patent has been approved in Europe
 - Patented material is utilized in future RemeOs[™] IM-nail and spinal Cage product lines

Activa product line:

Activa Sales Growth
+34% 2020 → 2021
+36% H1/2021 → H1/2022



RemeOs™ commercialization activities for the year 2023

Both US and EU commercialization plan follows the industry best practice through KOL's, education and training to create product awareness



- 1-3. Key Opinion Leader Community engagement on-going
 - 4. Regulatory approvals on-going in US and EU
- 5. Preparations on-going for product introduction in EU and US. Key hospitals for launch identified in US together with experienced local S&M advisors
- 6-8. Strong presence in forthcoming orthopedic key conferences (ACFAS, AAOS, EPOS, EFFORT)

Main R&D activities for the year 2023

RemeOs™ Trauma screw:

Finalization of the third-year follow-up study.

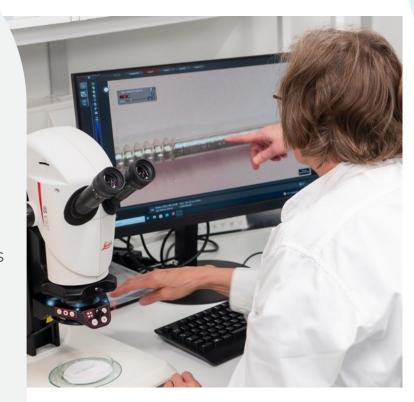
RemeOs™ K-wire (Nail/pin)

 Receive the first interim results from the First in Human clinical trial of the RemeOs™ Nail

Activa IM-Nail™

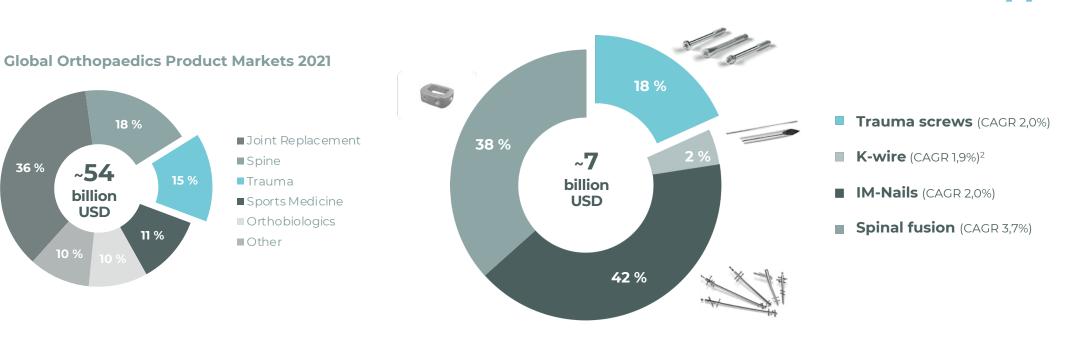
- Continuation of the Post-Market Clinical Follow-up study (PMCF) of the Activa pediatric IM- nail in forearm fractures in several European countries (62 % completed)
- Continuation of an investigator initiated clinical trial focusing on children's wrist (distal radius) fractures (70% completed)

IM-nail and spinal cage development based on hybrid composite



Global Orthopedic Market 2022 is recovering from Covid-19 pandemic

Our goal is to be the first in the US market with bioresorbable metal implants. RemeOs products open up to Bioretec an addressable global market for orthopedic products worth app. USD 7 billion, of which more than 65% accounted by the US market.



36 %

18 %

~54

billion

USD

Bioresorbable trauma screws are estimated for 2023 to be **USD**145 million rapidly growing market in US and Europe



The bioresorbable trauma screw usage is expected to grow significantly faster than traditional non-resorbable trauma screws



Thank you!

Financial calendar for 2023 will be released during December 2022

www.bioretec.com

