

## Bactiguard enters global license agreement with Zimmer Biomet

#### 27 September 2019

Christian Kinch, Chief Executive Officer Cecilia Edström, CFO and Deputy CEO



# Global license agreement with Zimmer Biomet

#### Highlights

- Exclusive global license agreement for orthopedic trauma implants
- Up-front license fee of USD 3 million at signing
- USD 2 million in milestone payments, contingent on U.S. regulatory clearance
- Royalties on net sales following commercialization
- Current CE mark used as a reference in obtaining regulatory clearance



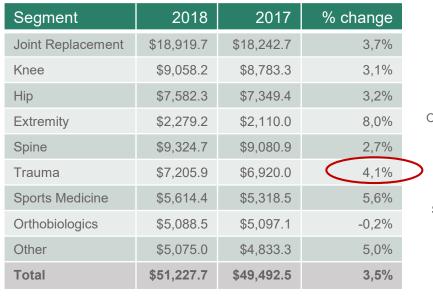
## Why partner with Zimmer Biomet?

- A major, global player in orthopedics
- Strong market position in the Americas, Europe, MEA and Asia Pacific
- Revenues of USD 7.9 billion in 2018
- Broad range of products
- 90-year heritage of proven clinical performance
- Strategy of addressing unmet clinical needs
- · Common vision of improving patient outcomes and quality of life



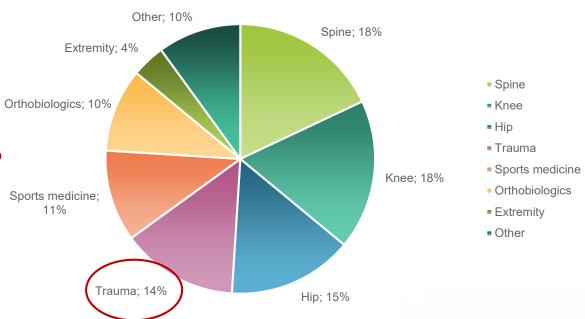
## Orthopedic market segments

#### Total market USD 51 billion, whereof trauma USD 7 billion and above average growth



Product Segment Performance: 2018 vs. 2017 (\$Millions)





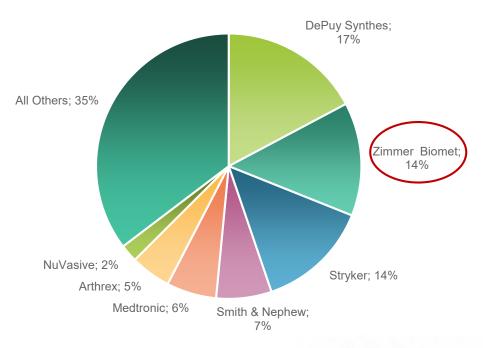


## Three major players in orthopedics

#### Revenues and market shares

Companies	2018	2017	% change
DePuy Synthes	\$8,827.4	\$8,987.9	-1,8%
Zimmer Biomet	\$7,081.7	\$6,964.4	1,7%
Stryker	\$7,029.2	\$6,608.7	6,4%
Smith & Nephew	\$3,456.6	\$3,353.4	3,1%
Medtronic	\$3,116.7	\$3,059.8	1,9%
Arthrex	\$2,514.3	\$2,306.3	9,0%
NuVasive	\$1,101.7	\$1,026.7	7,3%
All Others	\$18,099.9	\$17,175.3	5,4%
Market total	\$51,227.7	\$49,492.5	3,5%

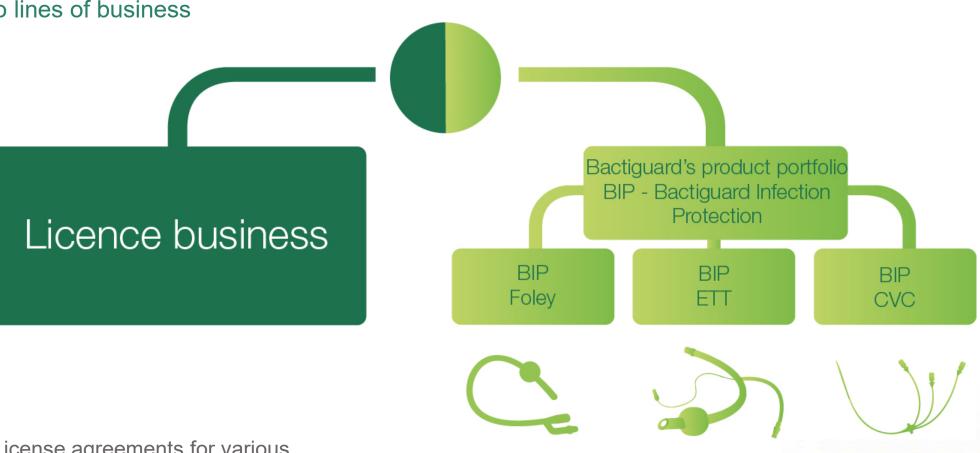
#### % of Market Share 2018





## **Business model**

Two lines of business



License agreements for various applications with Bactiguard technology

Proprietary product portfolio – sold through distributors



## Licensing business

#### BD (C.R. Bard)

- Successful partnership since 1995
- Bactiguard coated Foley catheters for the US, Japan and UK/Ireland
- Generating stable annual revenues

#### Vigilenz Medical Devices

- Bactiguard coated orthopedic trauma implants for the ASEAN markets
- CE mark awarded in December 2018, concluding clinical trial

#### Smartwise Sweden AB

- Advanced Bactiguard coated vascular injection catheters
- Collaboration agreement with AstraZeneca initiated in Q2 2018

#### Well Lead Medical

- License agreement for Foleys, CVCs and ETTs in China
- Ambition to accelerate growth in China, while regulatory developments are shifting towards locally produced devices

### Zimmer Biomet

Global license agreement for Bactiguard coated orthopedic trauma implants

## Other ongoing discussions





## Development project for vascular stents

- To reduce the risk of thrombosis in connection with interventions in the bloodstream
- Project led by Professor Staffan Holmin and his research group at the Karolinska Institute
- Research grant of SEK 1.5 million from Vinnova
- The grant makes it possible to carry out advanced experiments to study both efficacy and safety of the method



66 By coating the stents with Bactiguard's technology, we hope to reduce the risk of thrombosis in the acute- and subacute phase and thereby reduce the need of drugs...

Staffan Holmin, Professor Karolinska Institute

#### Stents save lives

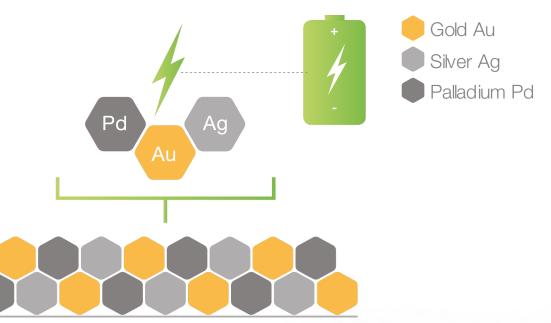
- Stents are used when blood vessels in the heart or nervous system need to be widened to allow the blood to pass freely
- Used in both acute care and as a preventive measure for heart attack and stroke
- Treatment leads to greatly increased risk of thrombosis formation (blood clotting)
- Managed by double doses of anti-platelet therapy for several months, which increases the risk of bleeding and gastrointestinal complications



## The technology

#### The galvanic effect – effective and safe

- When in contact with fluids the noble metals create a galvanic effect
- The different electro potentials of the metals create a micro current
- Prevents microbial adhesion (gram positive/negative bacteria and fungi)
- Non-toxic, non-releasing mechanism
- Long lasting
- Effective and safe





# IP protection "The holy trinity" Patent\* Trade Know-how secret

\*Current patent (2nd generation) valid until 2027/2029, 3rd generation filed



## Bactiguard coated products

	BIP Foley Catheters	BIP ETT, ETT Evac	BIP CVC	BD BARD	OrthoSyn™
Manufacturer	Bactiguard AB	Bactiguard AB	Bactiguard AB	BD (BARD)	Vigilenz
Regulatory approval	CE	CE	CE	FDA	CE
Duration of contact	Permanent	Prolonged	Prolonged	Prolonged	Permanent
Claims (in short)	Reduction of bacteriuria, reduction of catheter- associated urinary tract infections (CAUTI), reduction of the use of antibiotics.	Reduction of microbial adhesion, prevention of ventilator- associated pneumonia (VAP).	Reduction of bacterial adhesion, reduction of Catheter-related bloodstream infections (CRBSI).	Clinically proven to reduce catheter- associated urinary tract infections. Dramatically reduces bacterial adherence and minimizes biofilm formation.	Reduction of bacterial adhesion, a primary step in the formation of biofilm on the surface of orthopaedic implants.



## **Clinical evidence**

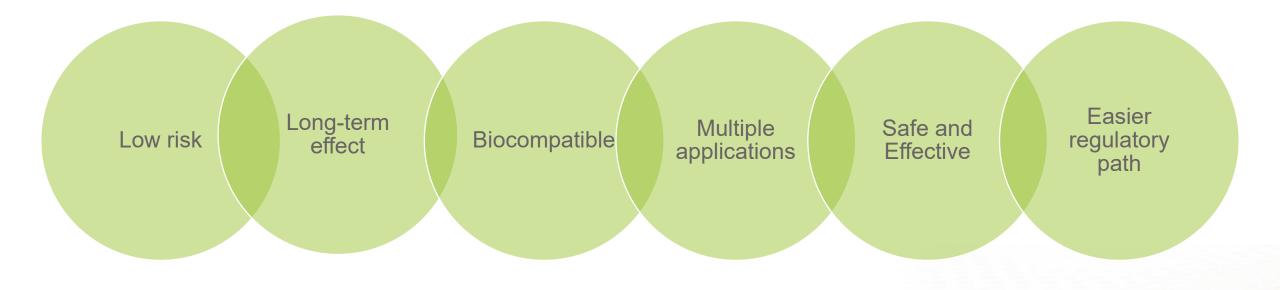
- >170 million Bactiguard coated catheters used since 1995
- No adverse events associated with the coating have been reported
- > 40 clinical studies (of which 31 are published) including over 100,000 patients
- 35% weighted average reduction of symptomatic CAUTI in clinical studies, and in some studies over 90%
- **Permanent catheter** Several reports of successful patient cases with permanent catheterization
- 52% reduction of catheter related blood infections with BIP CVC and indications for decreased risk of thrombosis
- 67% reduction of ventilator associated pneumonia with BIP ETT
- Promising interim clinical data on Bactiguard coated trauma implants





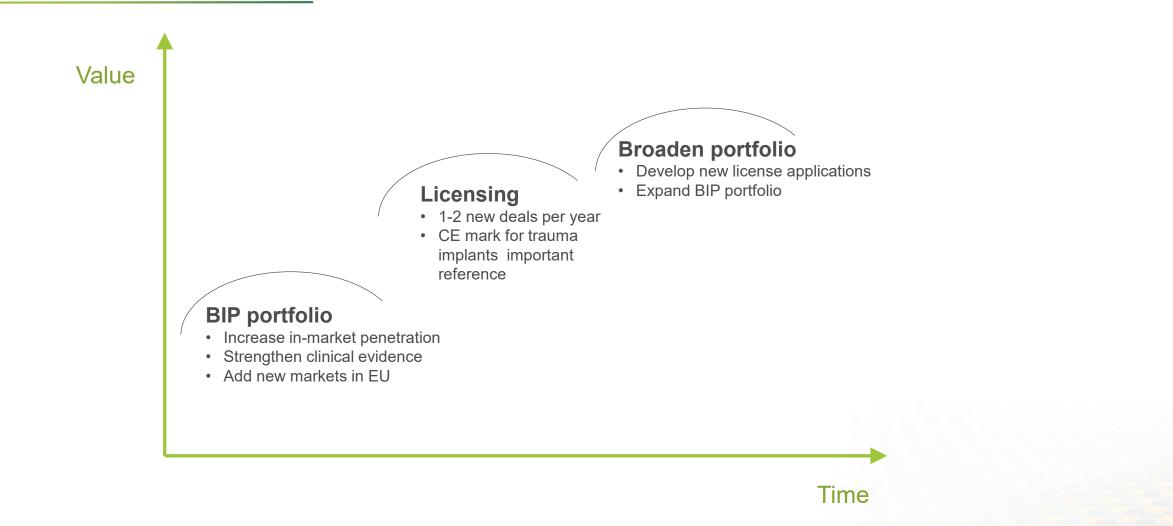
## Benefits of a non-toxic, stable technology

Infection prevention





## Growth strategy





## **Financial targets**

- Average sales growth of 20% per annum for a 5-year period, with 2015 as the base year – starting point MSEK 118.5
- EBITDA margin of at least 30% at the end of the 5-year period (by 2020)
- Equity ratio of at least 30%
- Over time uphold a dividend policy of 30-50% of net profit, taking into consideration the financial position of the Company. Bactiguard is currently in an expansion phase and will prioritize expansion before dividend





## Concluding remarks

- Important milestone for Bactiguard
- Zimmer Biomet a major, global player in orthopedics
- Confirms the value of the Bactiguard technology in a new application and global context
- Up-front license fee of USD 3 million at signing
- USD 2 million in additional payments contingent on U.S. regulatory clearance
- Royalties on net sales following commercialization
- Common vision of improving patient outcomes and quality of life



## More information available at www.bactiguard.se

For questions and additional information, please contact:



#### **Christian Kinch**

CEO Switchboard +46 8 440 58 80 christian.kinch@bactiguard.se





#### Cecilia Edström

CFO and Deputy CEO Cell phone +46 72 226 23 28 cecilia.edstrom@bactiguard.se

