

**BIO**  **S**  
RESTORE LIFE





Millions of hip  
fracture patients  
face 1 challenge.

Death within the  
1<sup>st</sup> year post  
surgery!





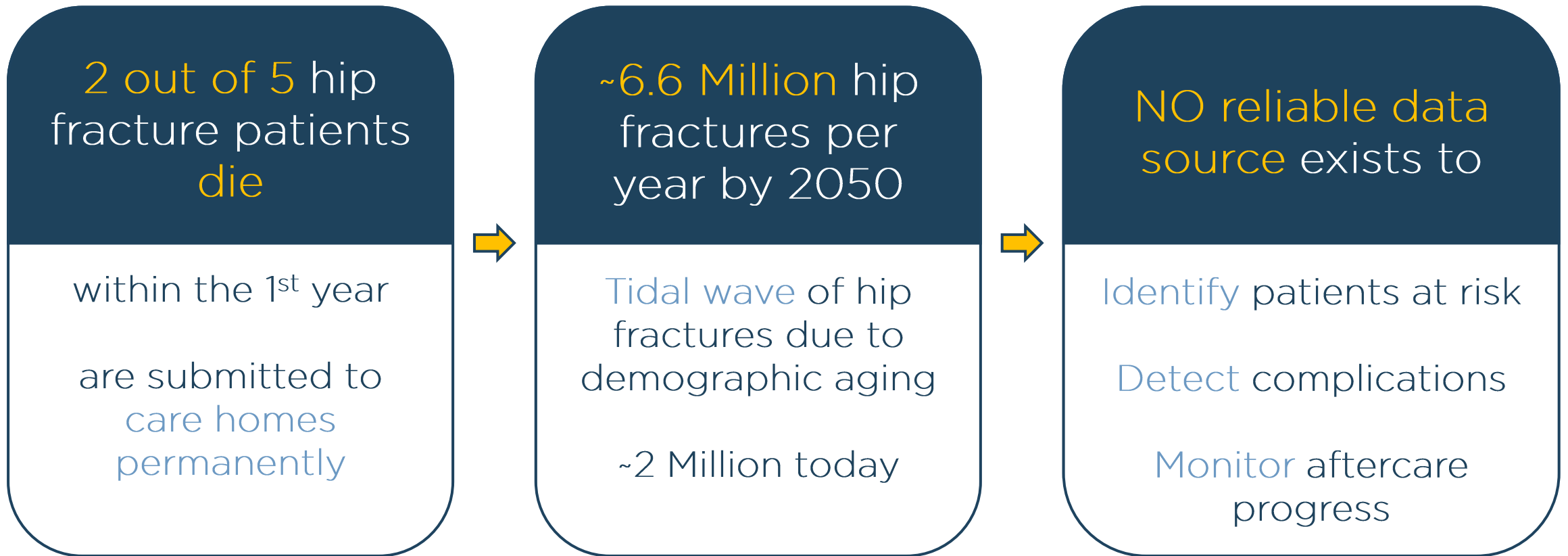
# Transforming Orthopedic Rehabilitation

by

Monitoring progress **remotely 24/7**  
Enabling a **personalized** care pathway  
**Empowering** the patient

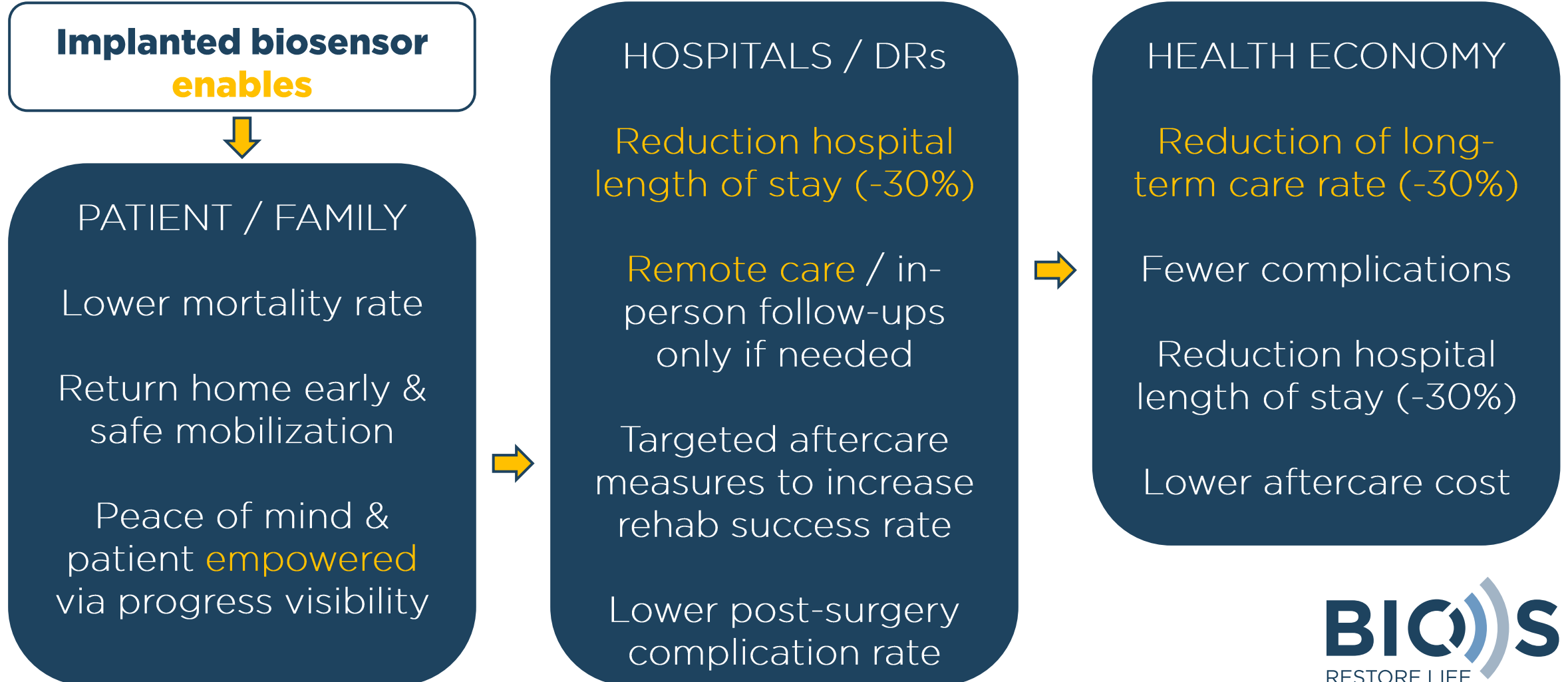
## PROBLEM

Millions of hip fracture patients face 1 challenge:  
Death within the 1<sup>st</sup> year post surgery.



## SOLUTION

Our data-driven biosensor platform enables successful rehabilitation on a large scale.





## PRODUCT

Our biosensor enables **real-time aftercare** management **compatible** with current implants.

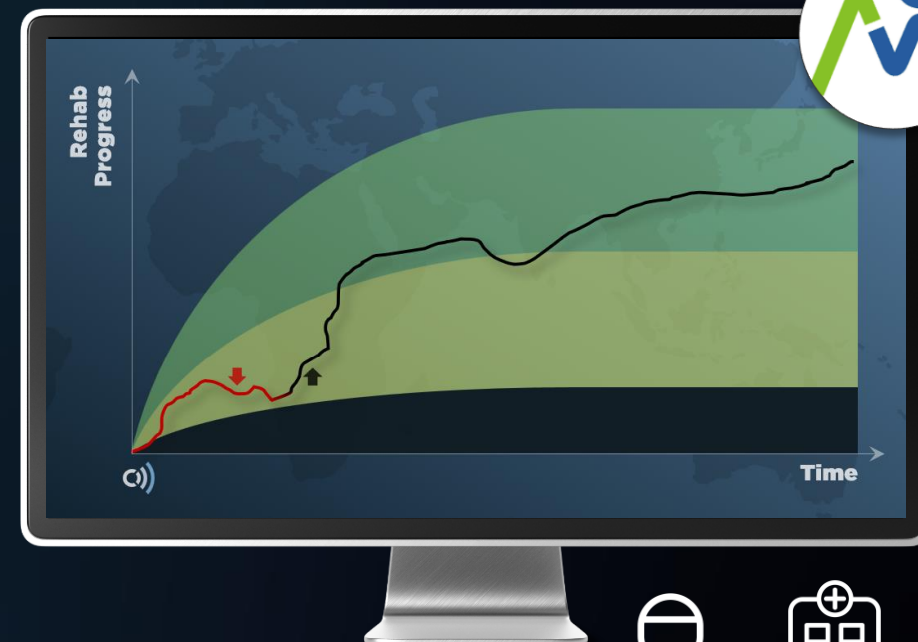
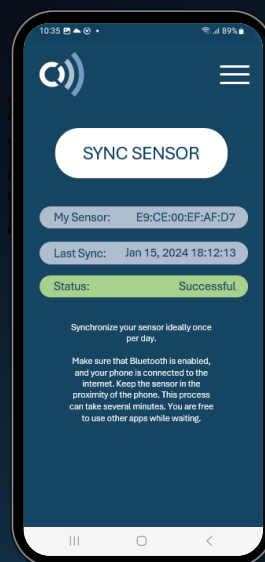
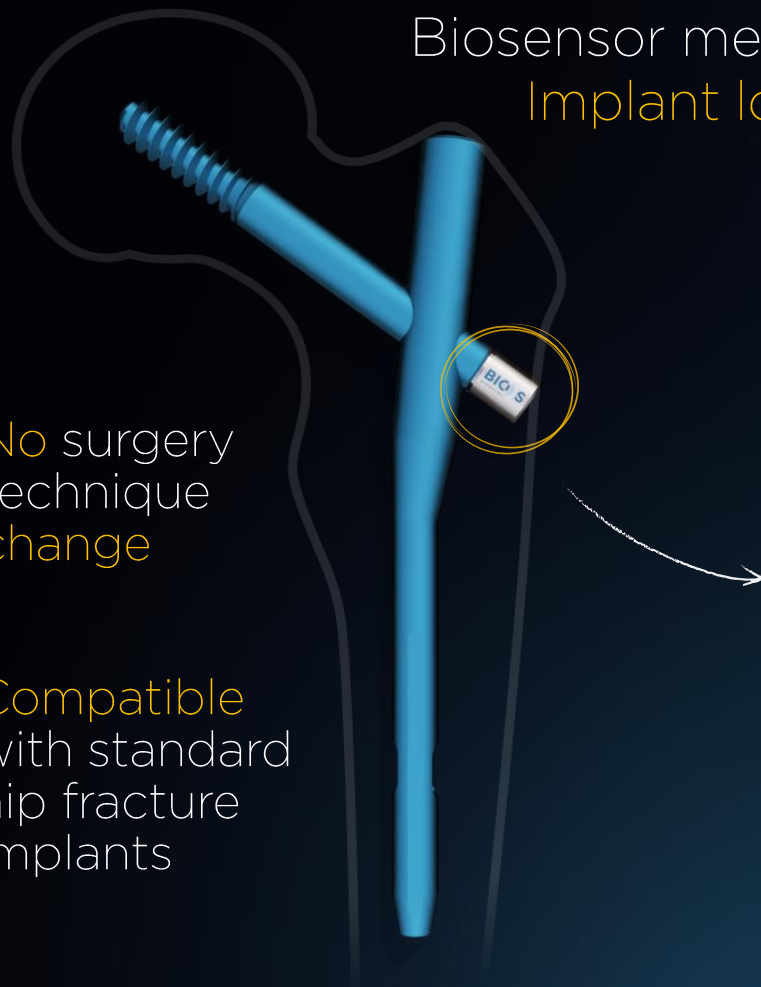


Biosensor measures  
**Implant loading**

**Monitor** rehab progress **24/7** via  
**actionable, clinically validated** and  
**benchmarked** Digital Mobility Outcomes  
to **personalize** care pathway in **real-time**

**No** surgery  
technique  
**change**

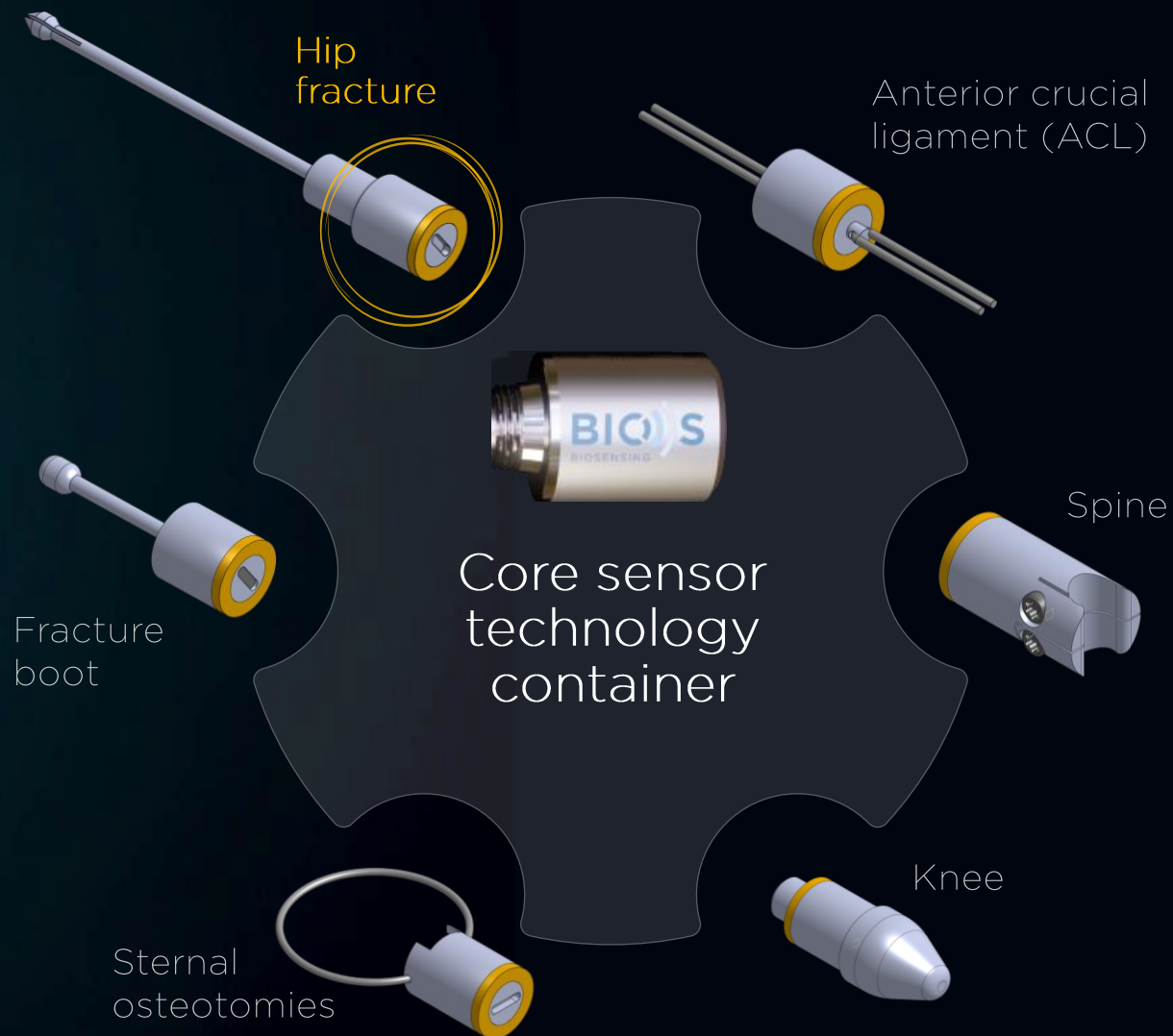
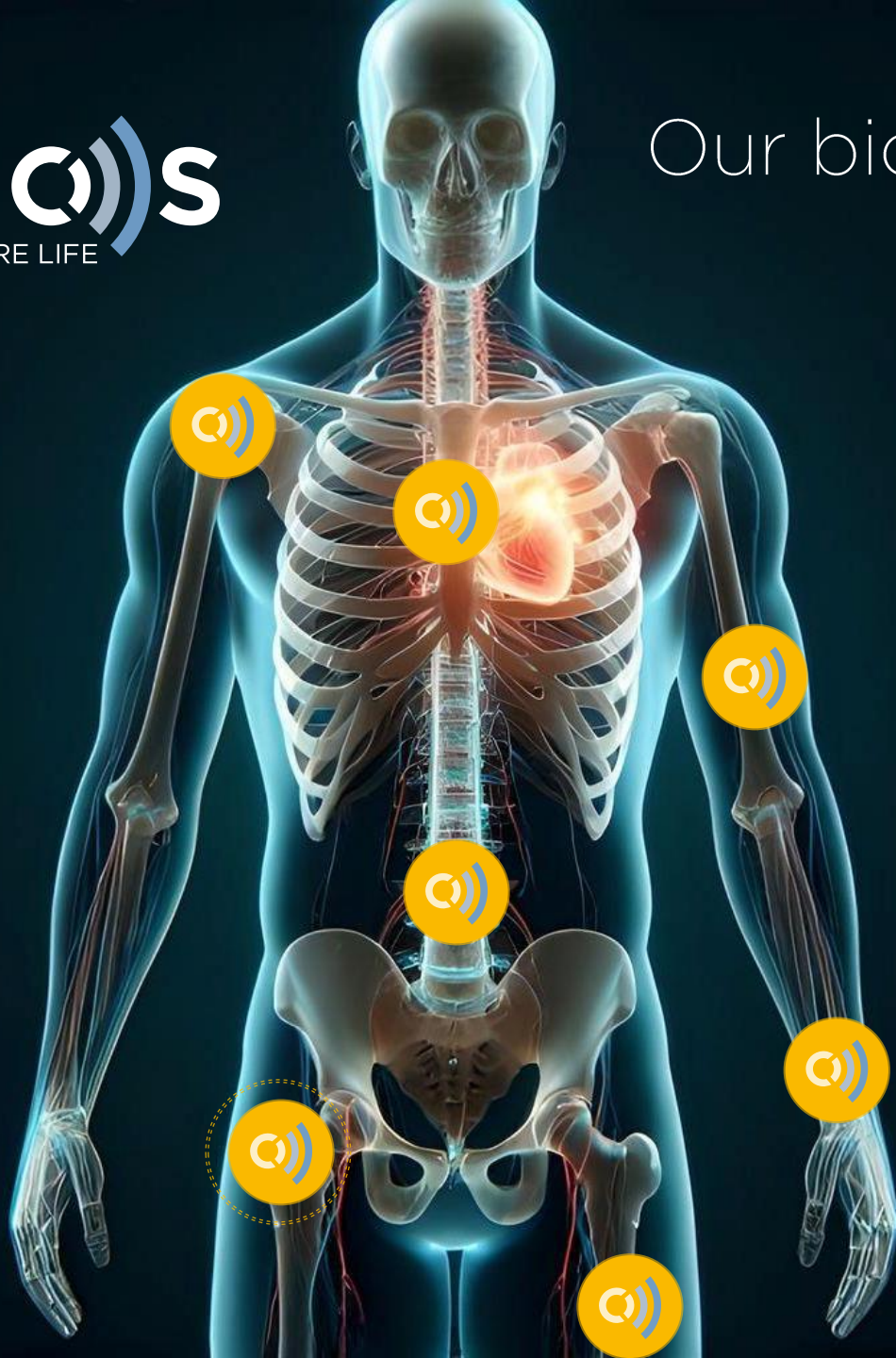
**Compatible**  
with standard  
hip fracture  
implants





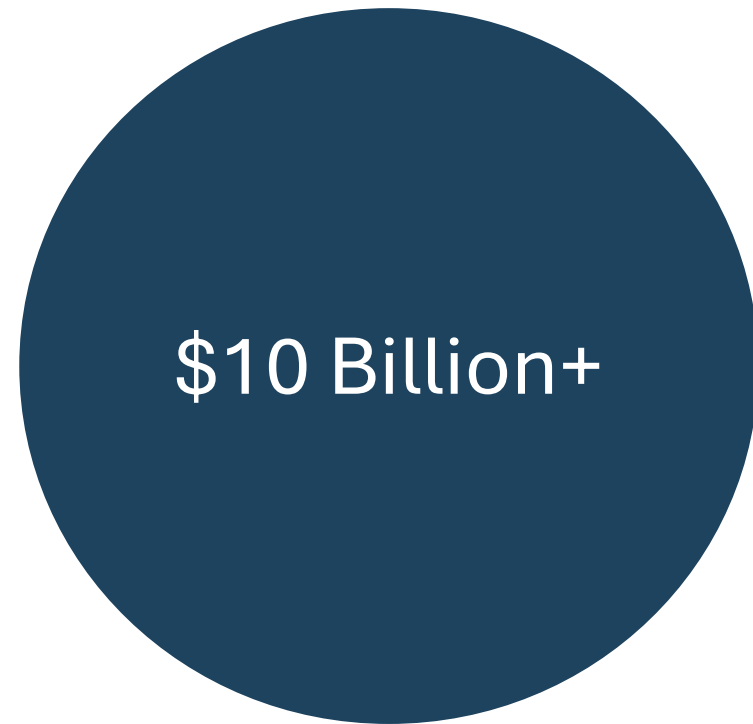
PRODUCT PIPELINE

Our biosensor application **pipeline** for musculoskeletal conditions.



## MARKET OPPORTUNITY

88% of US healthcare providers are investing in remote patient monitoring solutions.



TAM  
Musculoskeletal  
conditions  
(Worldwide)



SAM  
Musculoskeletal  
conditions  
(US only)









Launch market - SOM  
Hip fracture  
(US only, single hip  
nail)



## COMPETITION

No competitor solves for fracture loading & wearing compliance – our solution covers both.



					 
Wearing Compliance	100%	low	100%	low	medium
Data continuity	✓	✗	✓	✗	~
Data quality	high	medium	high	medium	low
Mobility Data	✓	~	✓	~	~
Load Data	✓	✗	✗	✗	✗
Temperature Data	✓	✗	✗	✗	✗
Sensor position	Hip	On skin	Knee	Insole	Wrist

Partnering with a market leader will accelerate market penetration in the US and worldwide.



## MARKET ENTRY

Fast market entry -  
FDA regulatory  
approval currently  
favorable over MDR

Reimbursement codes  
for remote data  
monitoring available  
today



## DISTRIBUTION

Partner with Stryker or  
J&J for distribution to

Accelerate market  
adoption and scale-up  
of sales world-wide

Both hold ~35% market  
share in the US



## BEACH HEAD MARKET

Leverage long-  
standing personal  
relationships with AO  
foundation surgeon  
network to establish  
lighthouse hospitals.



## TRACTION

LOI issued by market leader. 1<sup>st</sup> sale of 16 units.



### MVP & IP & SALES

Bootstrapped (incl. grants) by founders up to **MVP**

Sustainable Tech Advantage **full product family patent** pending, freedom to operate (FTO) in place

**1<sup>st</sup> sale of 16 units** for fracture boots to be used in a clinical study

### DISTRIBUTION

**Successfully completed** technology due diligence by market leader

**Letter of intent** in place

The logo for Johnson &amp; Johnson (J&amp;J), featuring the letters "J&amp;J" in a bold, red, sans-serif font.

The logo for Stryker, featuring the word "stryker" in a bold, black, sans-serif font.

### PRIZES & FUNDING

Part of 2024 "**Swiss National Startup team**" (Venture Leaders MedTech)

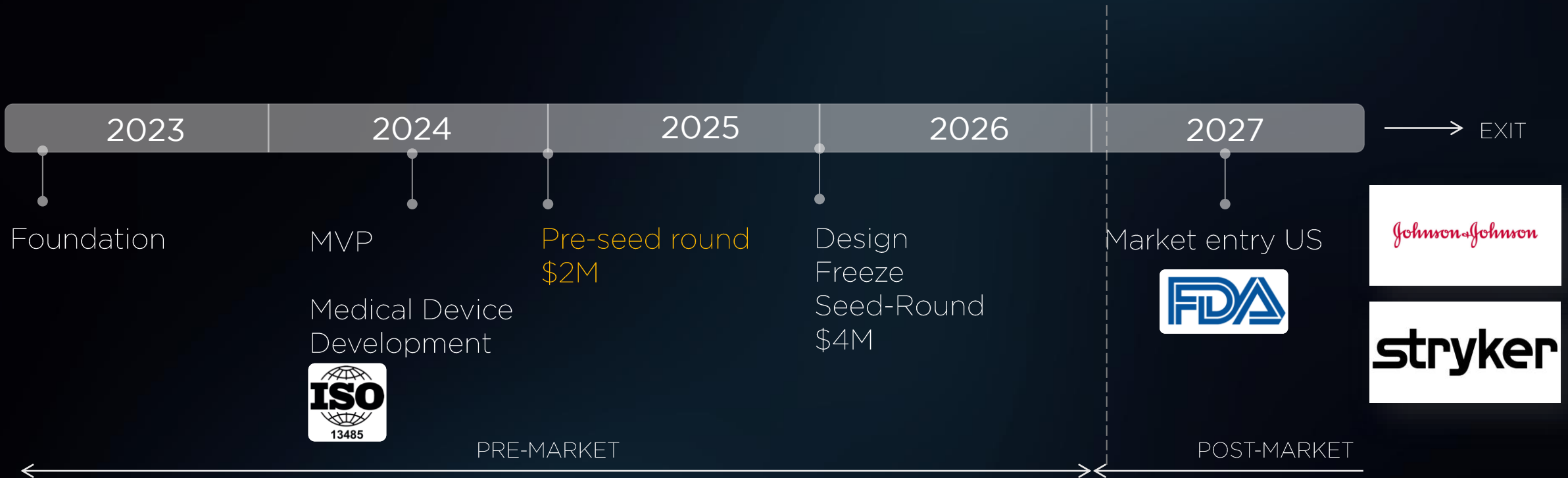
Best **AgeTech 2023** and **Tech Startup 2024** awards

**Lead** and **co-investors** for seed round secured



# ROADMAP

FDA submission in 2026. US market entry in 2027. Exit via acquisition post 2028.



US market revenue projections >USD70M in 2030. Staggered sensor rollout as of 2027.

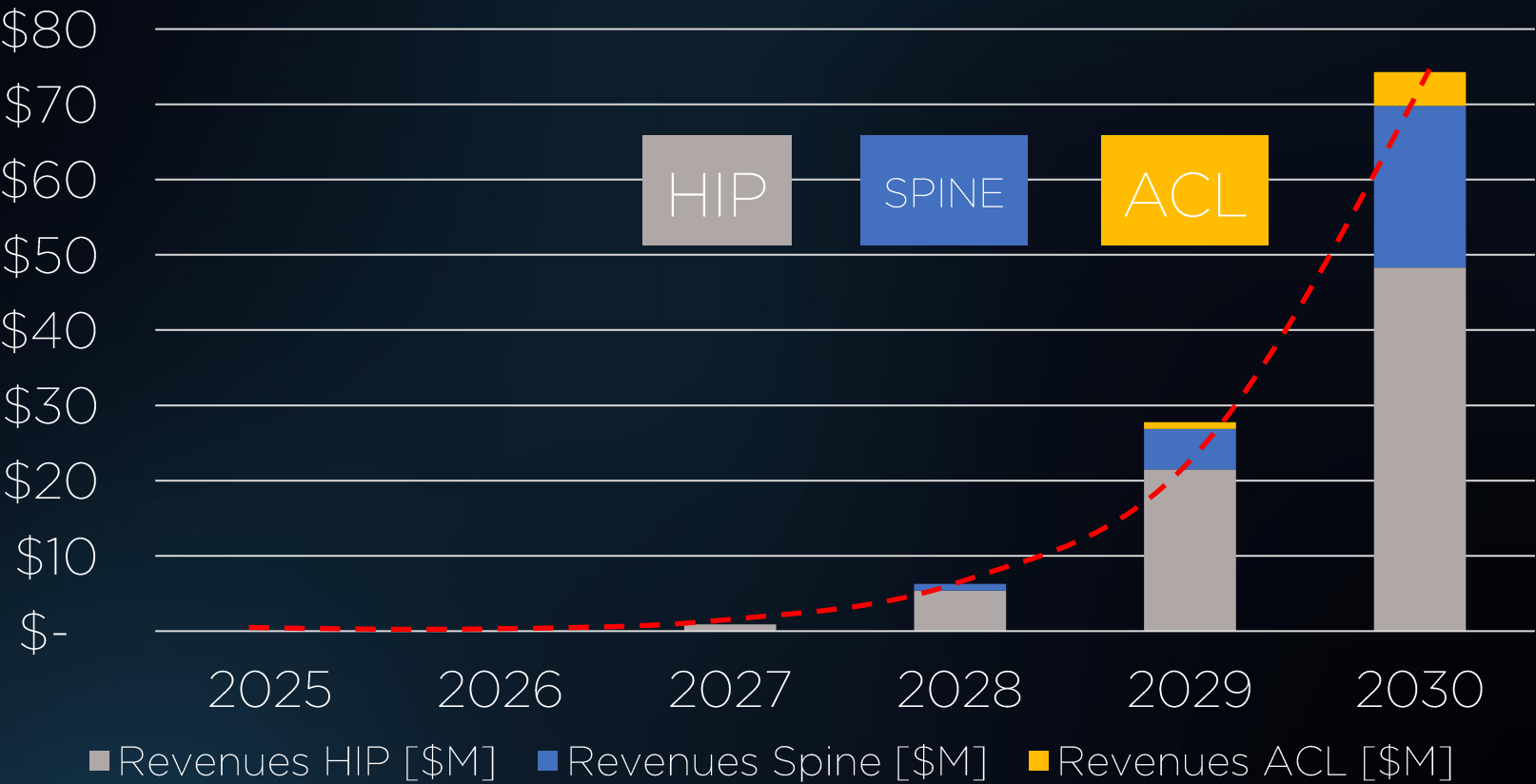


Revenue - Hip, Spine & ACL [\$M]

US Market only

US Market Roll-out

- 2027 HIP
- 2028 SPINE
- 2029 ACL





## TEAM

We have taken active implants from idea to market implementation successfully before.



**MARKUS WINDOLF, PhD**

CEO & Founder

Successfully developed & brought to market active implanted biosensor.



**ROBERT FRIGG, PROF. DR.**

Former CTO of DePuy Synthes, today J&J.



**PATRICK STEPANEK, PhD**

COO & Founder

20 years of biz leadership and start-up experience in the EU and USA



**BENEDIKT BRAUN, PROF. DR. MBA**

Mobility tracking specialist and reconstructive surgeon.



**BERND GRIMM, PhD**

World renowned expert in human movement sciences.



**VIKTOR VARJAS, MSc**

Senior Software Eng.

Lead SW engineer for active implanted biosensor technology.



**MICHAEL SCHÜTZ, PROF. DR.**

Globally recognized orthopedic surgeon and KOL orthopedic rehabilitation.



## CURRENT STATUS

# MVP hip sensor including age-group testing.



Hip Sensor prototype (bench-tested, proof of concept)



Real-life system validation with age-group and sensor-integrated shoes completed



Sensor-integrated orthopedic boots developed and shipped to Australia for clinical trial



Spine sensor prototype developed and tested



## \$2M pre-seed funding round



Seeking \$2M pre-seed funding for medical device development to reach “Design Freeze” Milestone

- lead & co-investors secured
- \$1M committed

Seed round of \$4M in 2026 to obtain FDA approval







Empowering patients with  
real-time rehabilitation  
progress data.



[www.biosmedical.care](http://www.biosmedical.care)