

NERV
T E C H N O L O G Y I N C

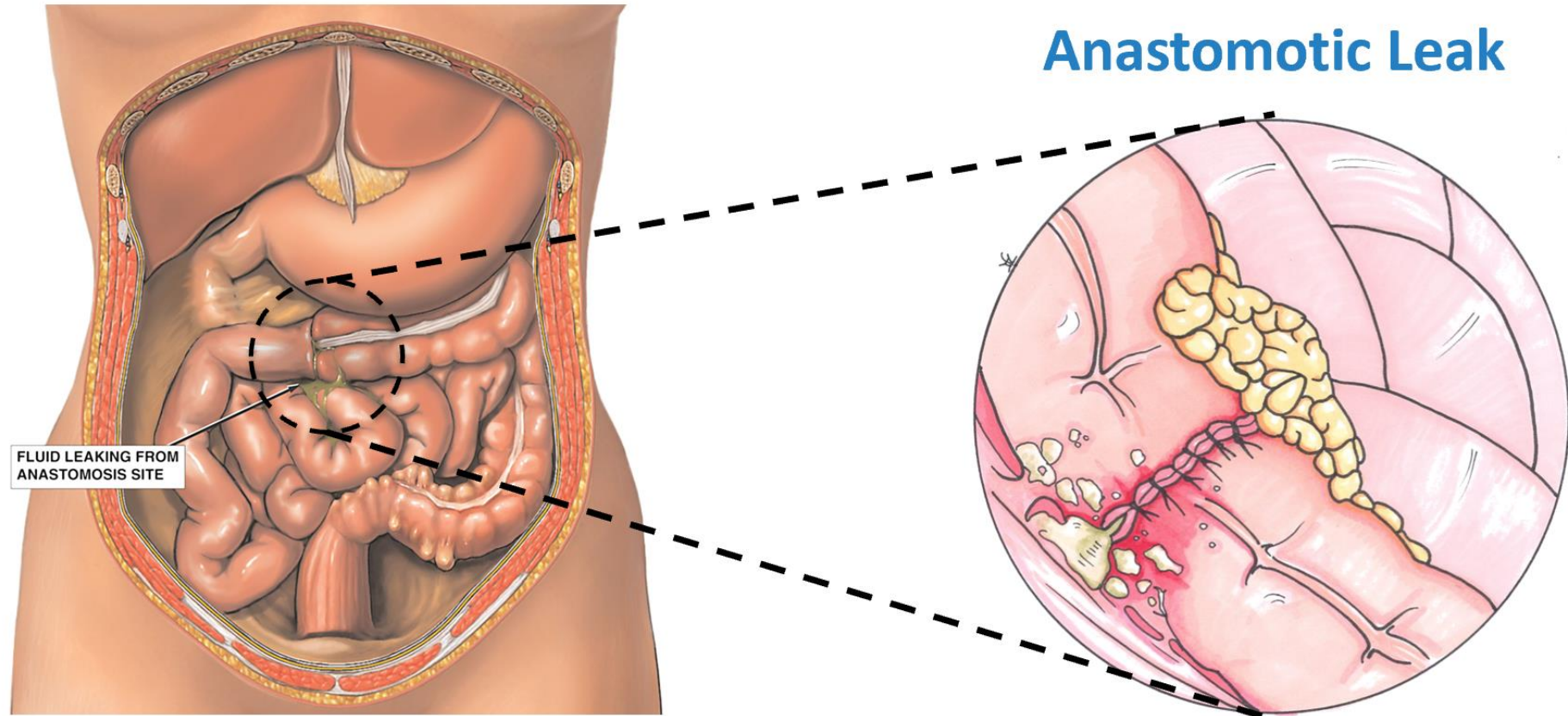
Building a Future of **Safe** Surgeries

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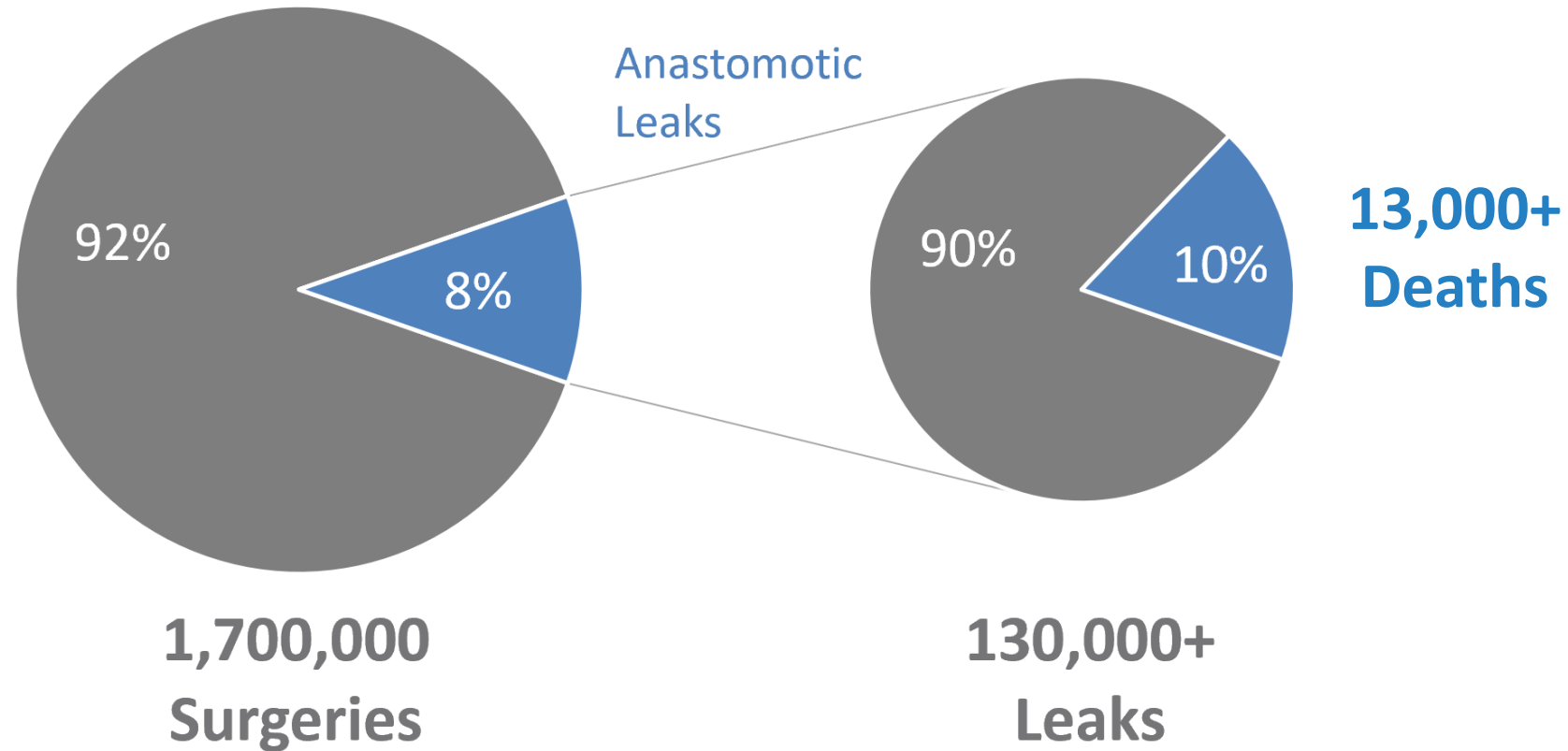
Problem

Anastomotic leaks



Problem

Anastomotic leaks in USA (yearly)



Standard of Care

Routine post-operative investigations



Follow-ups

- Bowel Movement
- Fever
- Heart rate



Lab Tests

- WBC Count
- C-reactive protein
- Amylase



Imaging

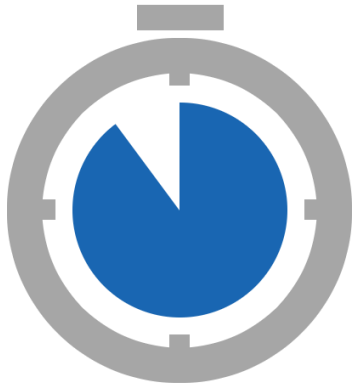
- CT Scans
- Fluoroscopy
- Radiology



Reoperation

Standard of Care

Challenges



Delayed and ineffective

- 25% failure rate for imaging



Painful for patient



Costly diagnosis and treatment

- \$30K USD per patient

Solution

Biosensors embedded in wound drains & catheters



Reservoir



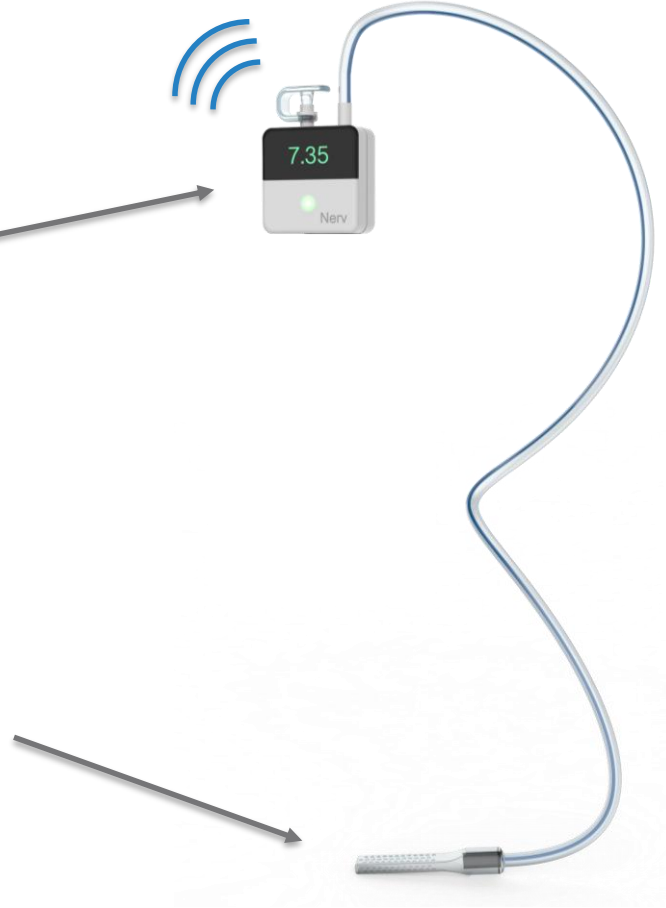
Inline Device-
Sensors and monitor

Wound
drain

Monitor



Sensor

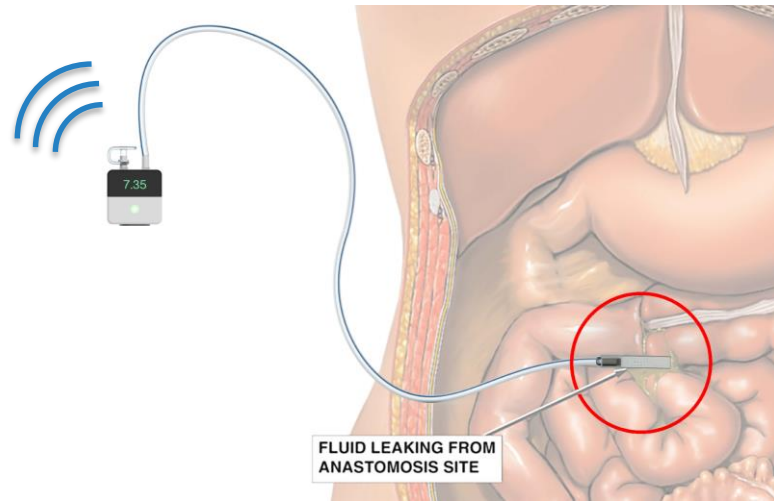


Catheter

Removed in an outpatient setting a few weeks after surgery

Solution

Work flow



Sensor placed near surgical site



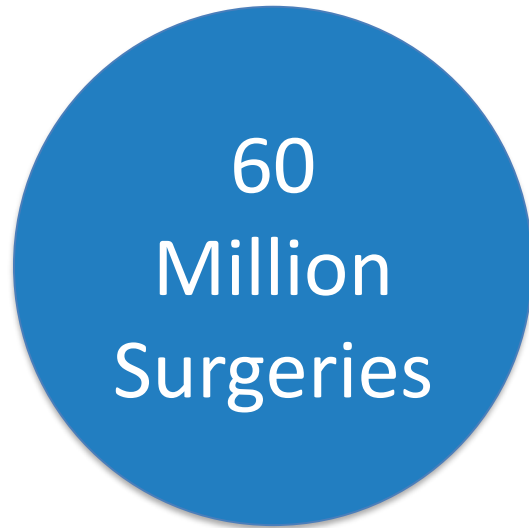
Prediction and detection platform



Doctor notified, report generated

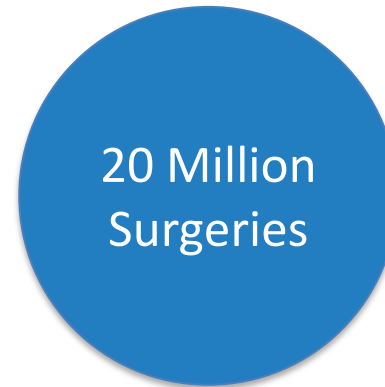
Market Size

Target surgeries



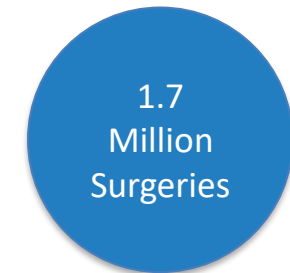
General & Abdominal Surgeries
(Global)

Total Available Market



General & Abdominal Surgeries
(United States)

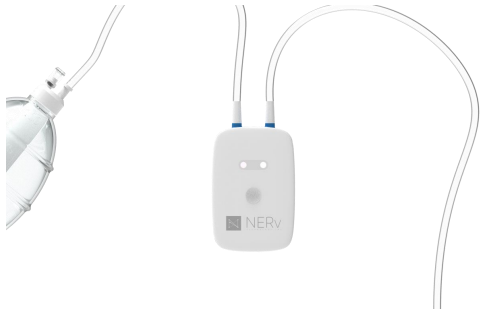
Serviceable Available Market



Acute trauma Surgeries
Colorectal Surgeries
Bariatric Surgeries
Hepatobiliary Surgeries

Target Market

Business Model



Biosensors

\$400/unit

COGS: \$50/unit



Hospitals

**1500 surgeries/
Hospital**

**cost savings of \$20K-\$40K per leak incident*



Gross Revenue

**\$600,000/hospital/
Year**

**cash-flow positive with 4-5 hospitals
in pipeline*



Team Leads



Youssef Helwa

CEO, MASc Nano Eng

5+ years experience in bioMEMS
4 publications in field of biosensors
Two-time company founder



Abdallah El-Falou

CTO, MASc Elec. Eng.

5+ years experience in
Microelectronics & Systems



Amr Abdelgawad

**COO, Master of Business,
Entrepreneurship and Tech**

Two-time company founder
Canada Student Entrepreneur 2017
TEDxUW 2017 Speaker



Mohamed Okasha

**Lead Scientist, HBSc Biochemistry
and Biomedical Sciences**

4+ years experience in research labs



Traction



60 Physicians
6 Physician Investors
2 Champions

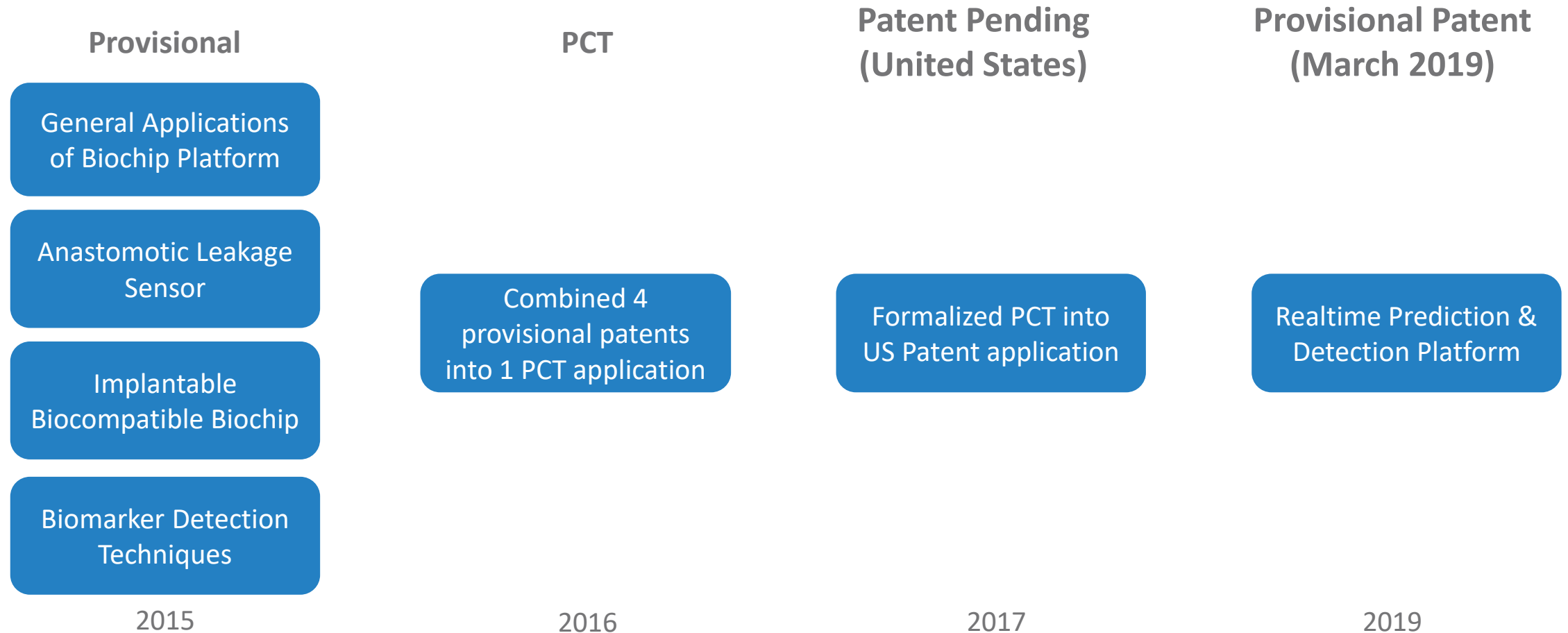


Letter of Intent

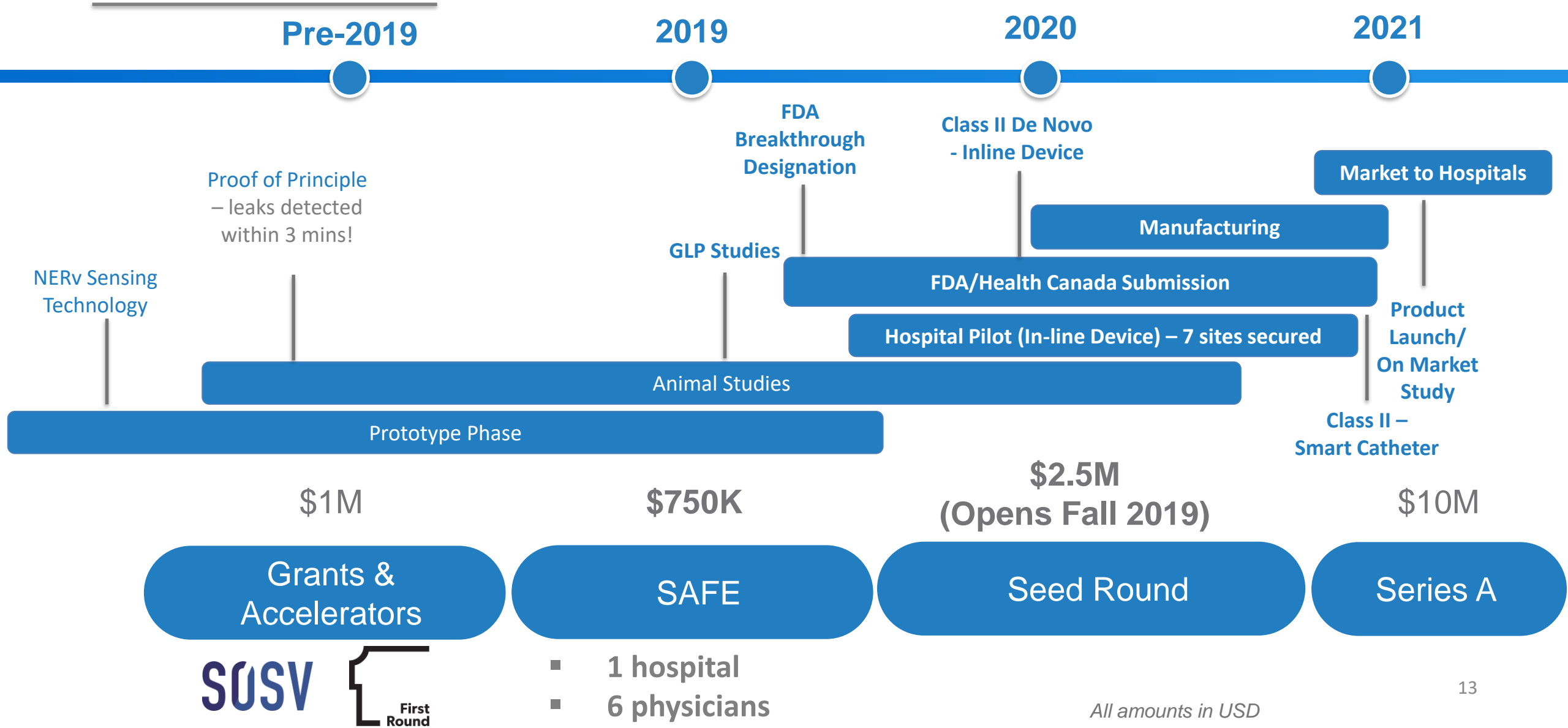


**Active
Industry
Engagement**

Intellectual Property



Company Roadmap



Why us?

Unmet Need

- Anastomotic leak after surgery
- 13,000+ patients die annually

Patent-pending Solutions

- Smart Catheter/In-line Device
- Early detection of leaks



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