


The logo for 'ilika' is centered on a dark blue background. The text 'ilika' is in a white, lowercase, sans-serif font. The two 'i's are stylized with small green triangles above them. A thin white diagonal line runs from the top left towards the center, and a thin green diagonal line runs from the top right towards the center.

ilika



# Full-Year Results to 30th April 2019

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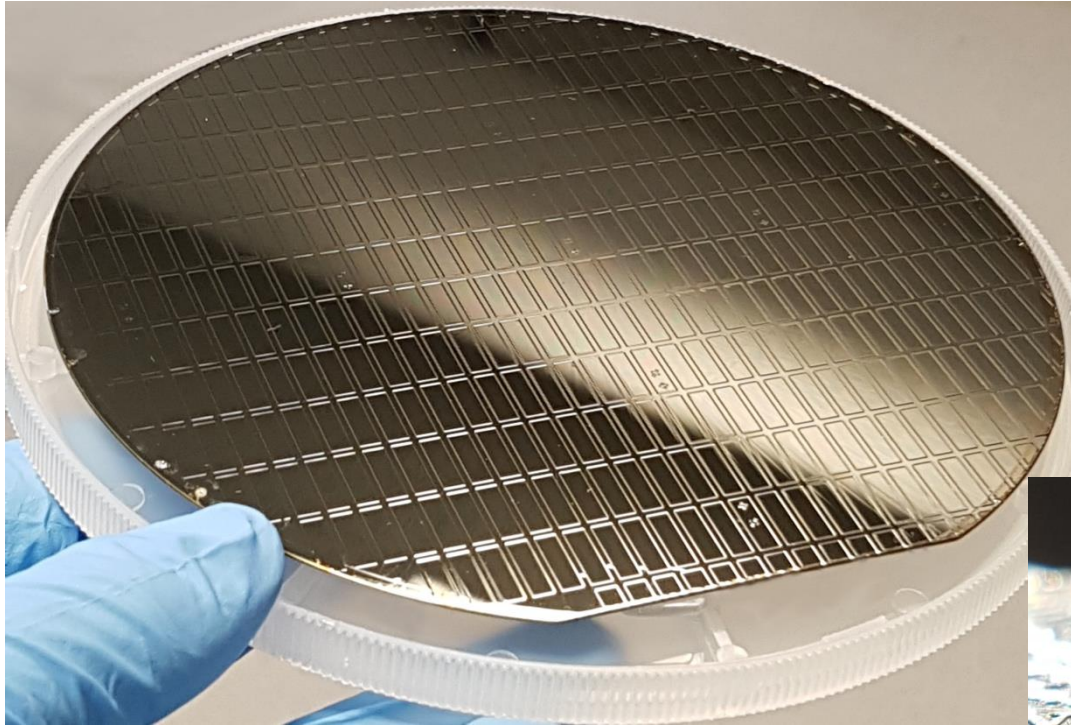
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# Business overview



Ilika is a pioneer in solid-state battery technology



# Highlight Summary

- ▲ Implementation of Stereax<sup>®</sup> thin film development programmes with five commercial partners:
  - ▲ Four industrial monitoring applications
  - ▲ One medical device
- ▲ Achieving record energy density from ultra-thin cells
  - ▲ Launching M50 cells, mm-scale miniature batteries
  - ▲ Establishing Stereax<sup>®</sup> manufacturing collaboration with Semefab
  - ▲ Commencing two electric vehicle programmes with three leading automotive companies.



# Stereax<sup>®</sup> Commercial Highlights



- ▲ Delivering a perpetual beacon for high value asset tagging
- ▲ Developing a condition monitor for wind turbine blades
- ▲ Designing a rail-track strain gauge
- ▲ Designing an autonomous environmental sensor card
- ▲ Dispatching batteries for evaluation in miniature medical implants



# Stereax® Development Partners



▲ Asset tagging



▲ Wind turbine condition monitoring



▲ Track monitoring



▲ Environmental monitoring

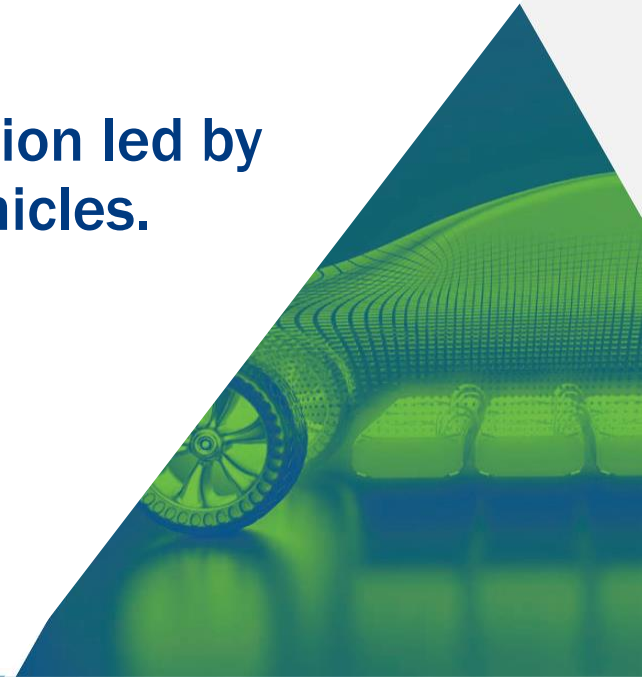
**Biomedical partner**

▲ Powering medical implants

# Goliath Commercial Highlights



- ▲ Securing £4.2m of grant funding from the Faraday Battery Challenge to develop large format solid-state cells for automotive
- ▲ In Oct 2018 commencing PowerDrive Line collaboration for rapid charging
- ▲ In Feb 2019 starting MoSeSS collaboration led by McLaren for high-power performance vehicles.



# Goliath Development Partnerships



## Goliath Development Programme:

- Establish Ilika as leader in development of manufacturing methods for production of solid state batteries
- Commercialise the large format solid state battery (Goliath)

POWER DRIVE  
LINE

Innovate UK



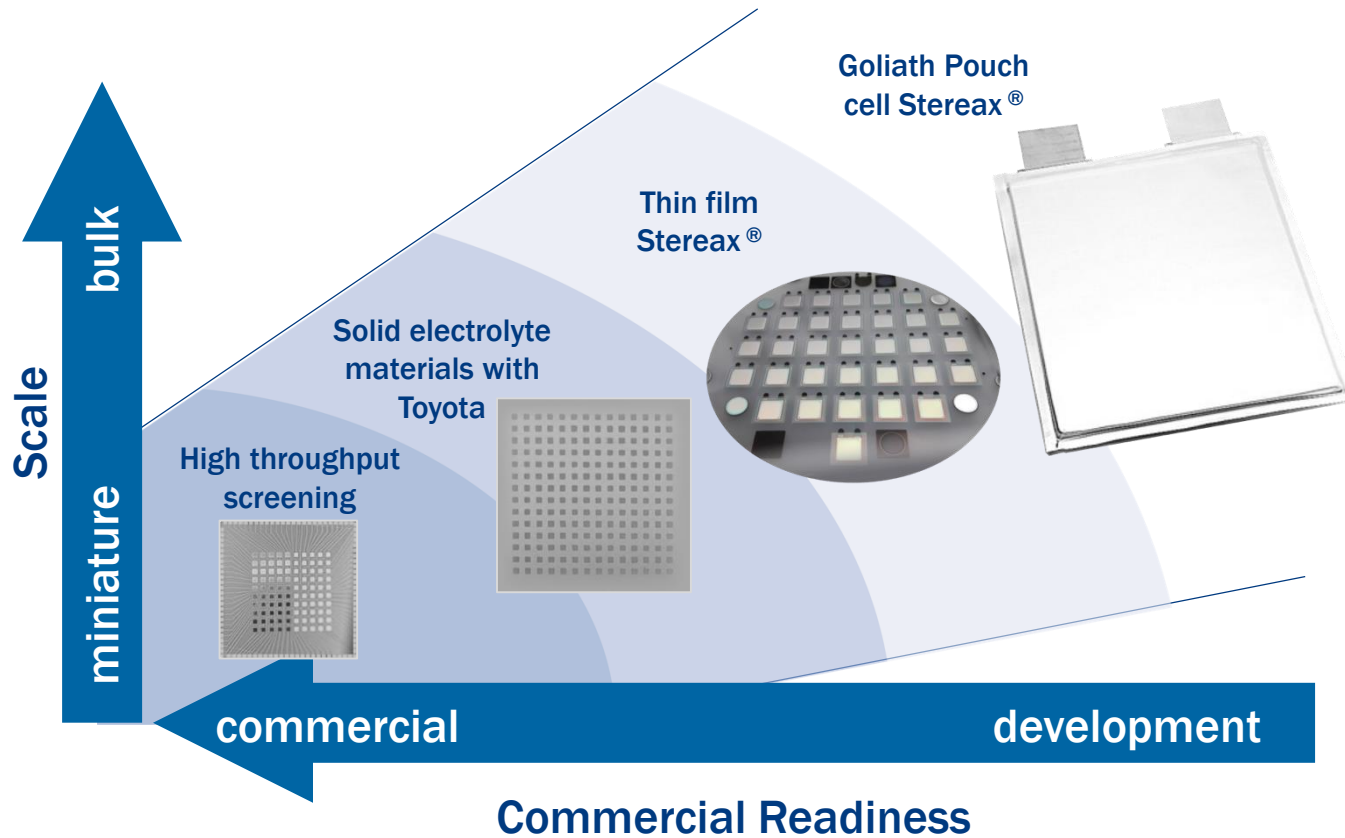
MOESS

Innovate UK



Lead Partner  
Framework

# Stereax<sup>®</sup> product evolution

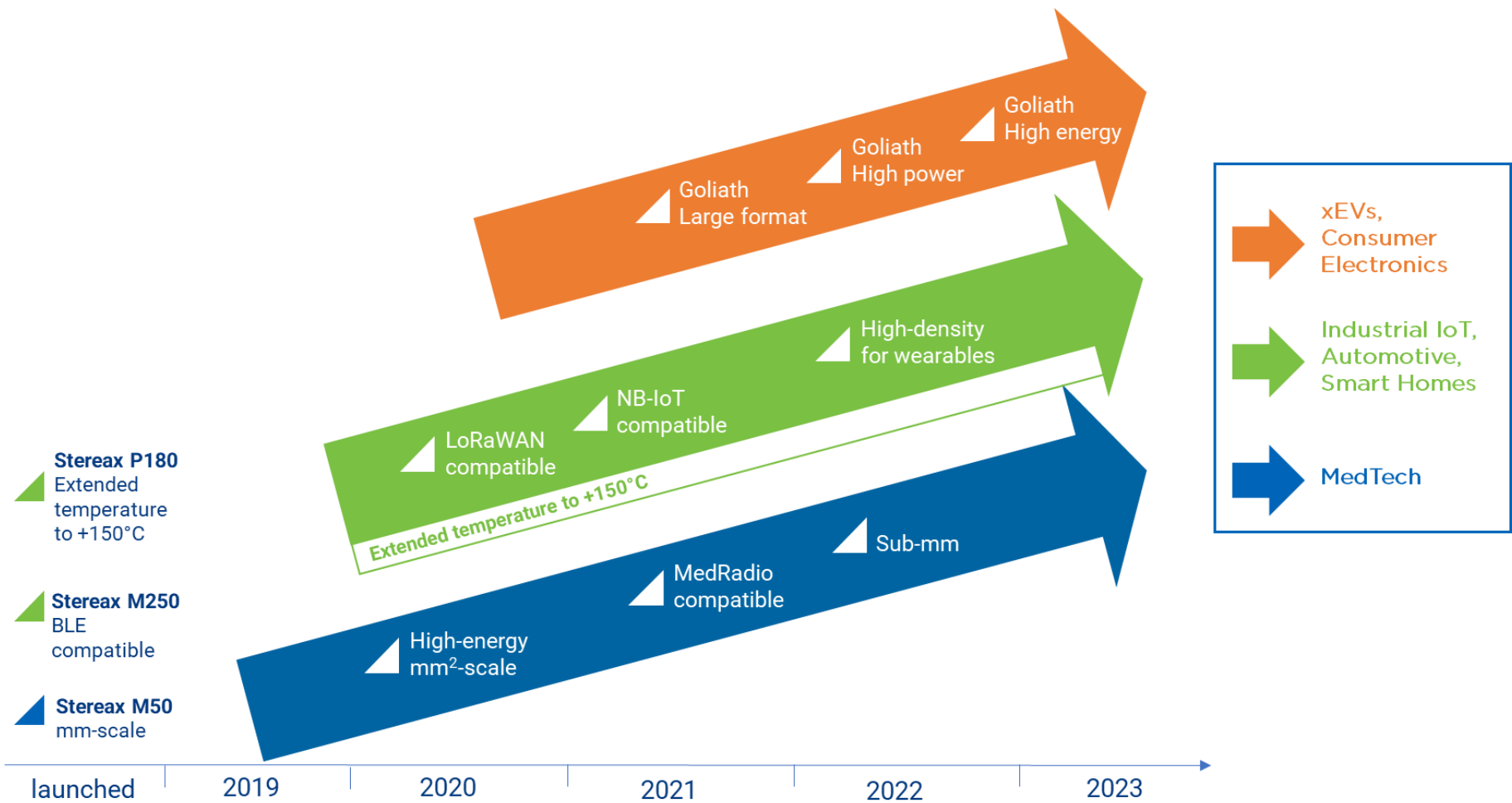


# Technical Highlights

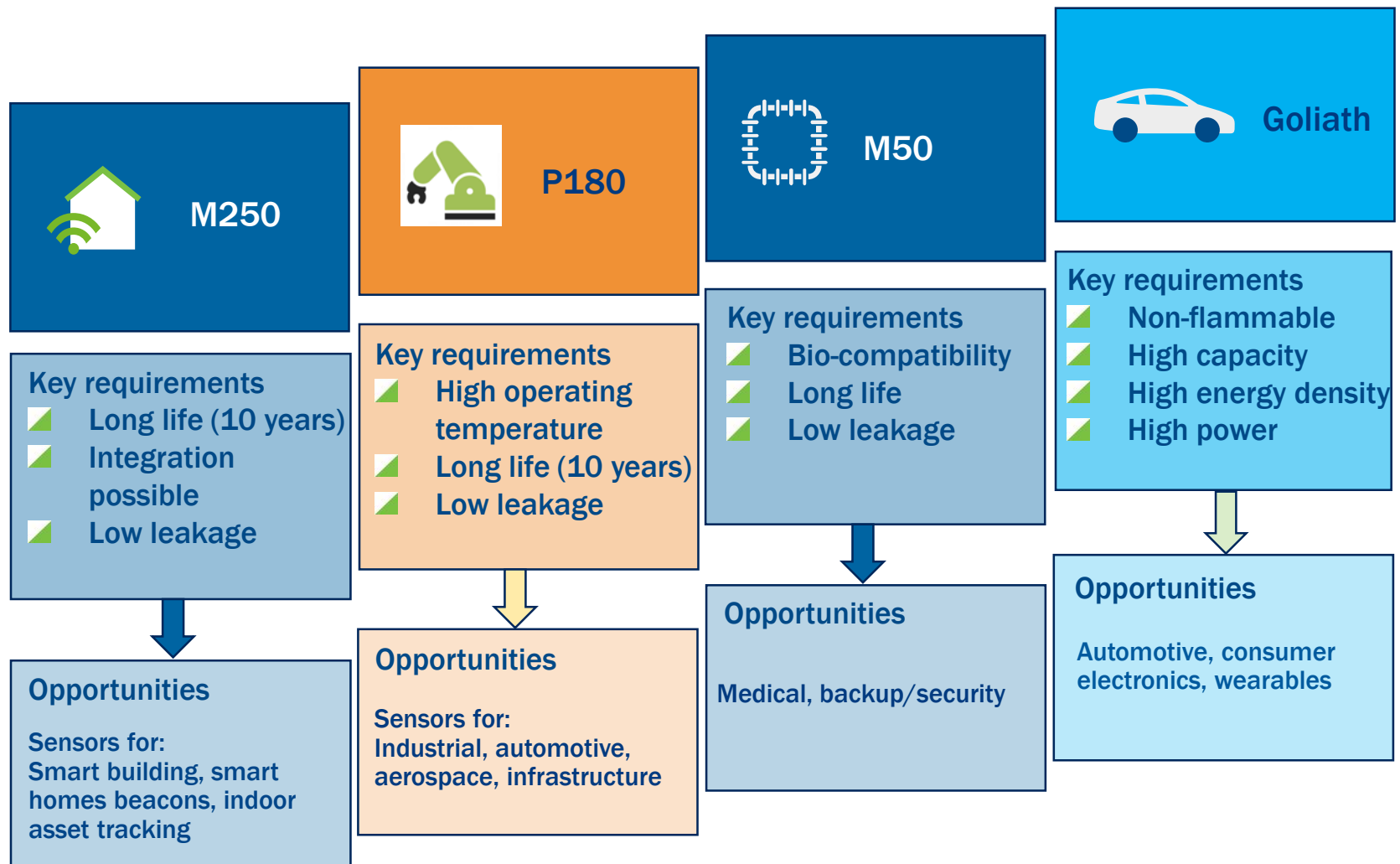
- ▲ Achieving record energy density from ultra-thin cells for medical implants
- ▲ Development of photolithographic methods to produce custom cells compatible with industrial processes
  - ▲ In April 2019, launch of mm-scale M50 cells for MedTech
    - ▲ Demonstration of ability of P180 cells to withstand rapid ramps to high temperatures for industrial applications.



# Stereax<sup>®</sup> road map



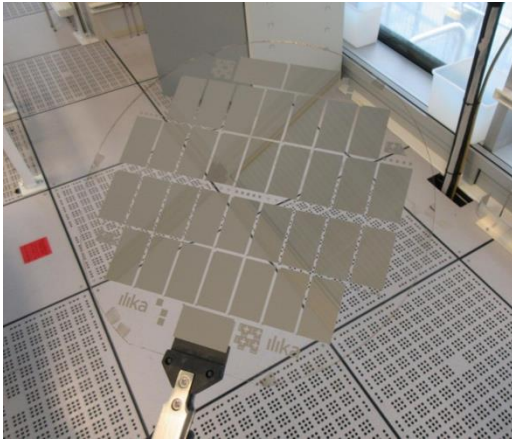
# Stereax<sup>®</sup> product to market mapping



# Partner Engagement



## Product Development



## Engineering Fees

## Technology Transfer



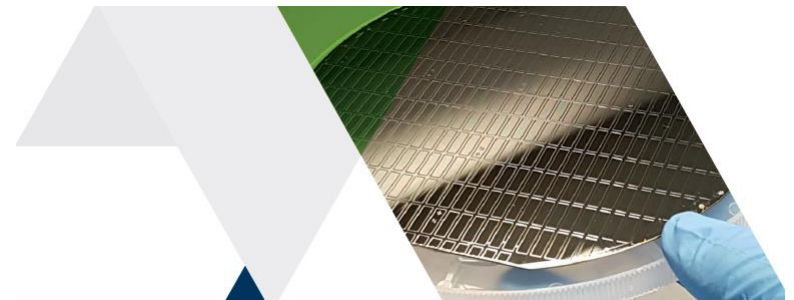
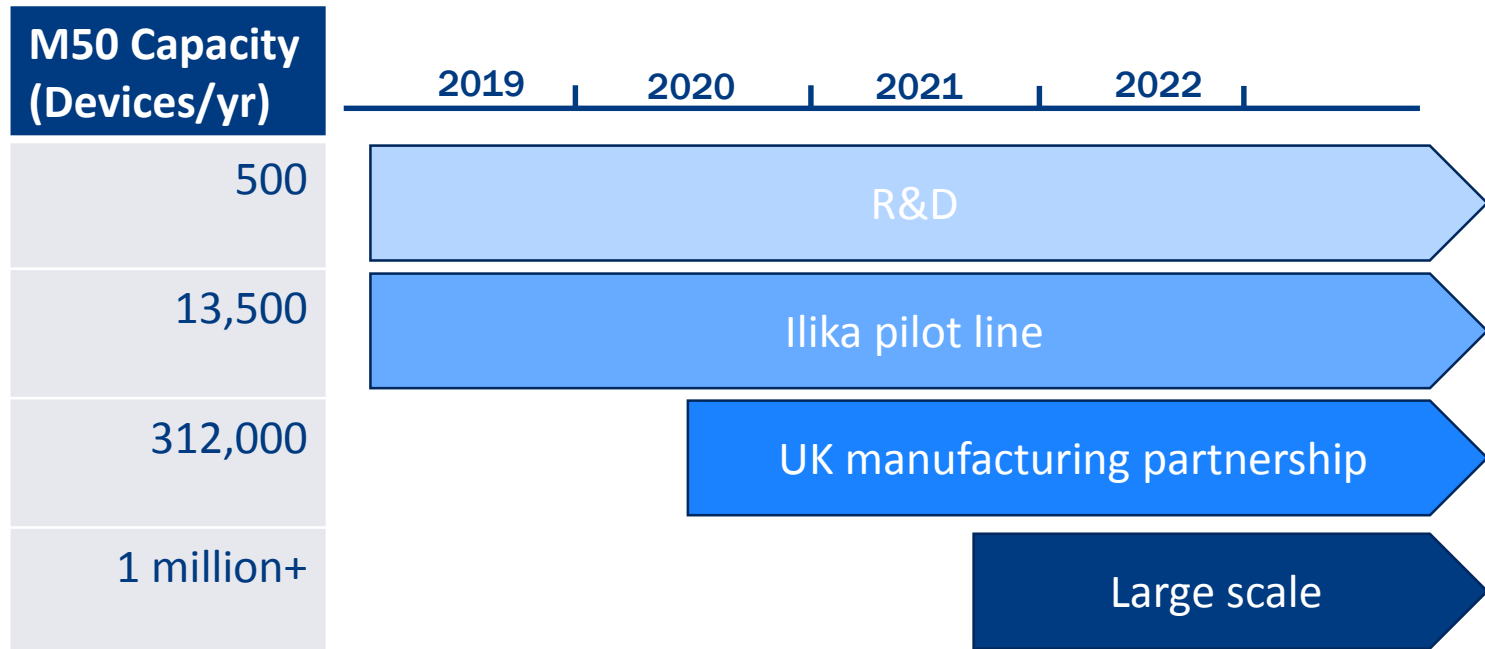
## License Fees

## Product Manufacturing

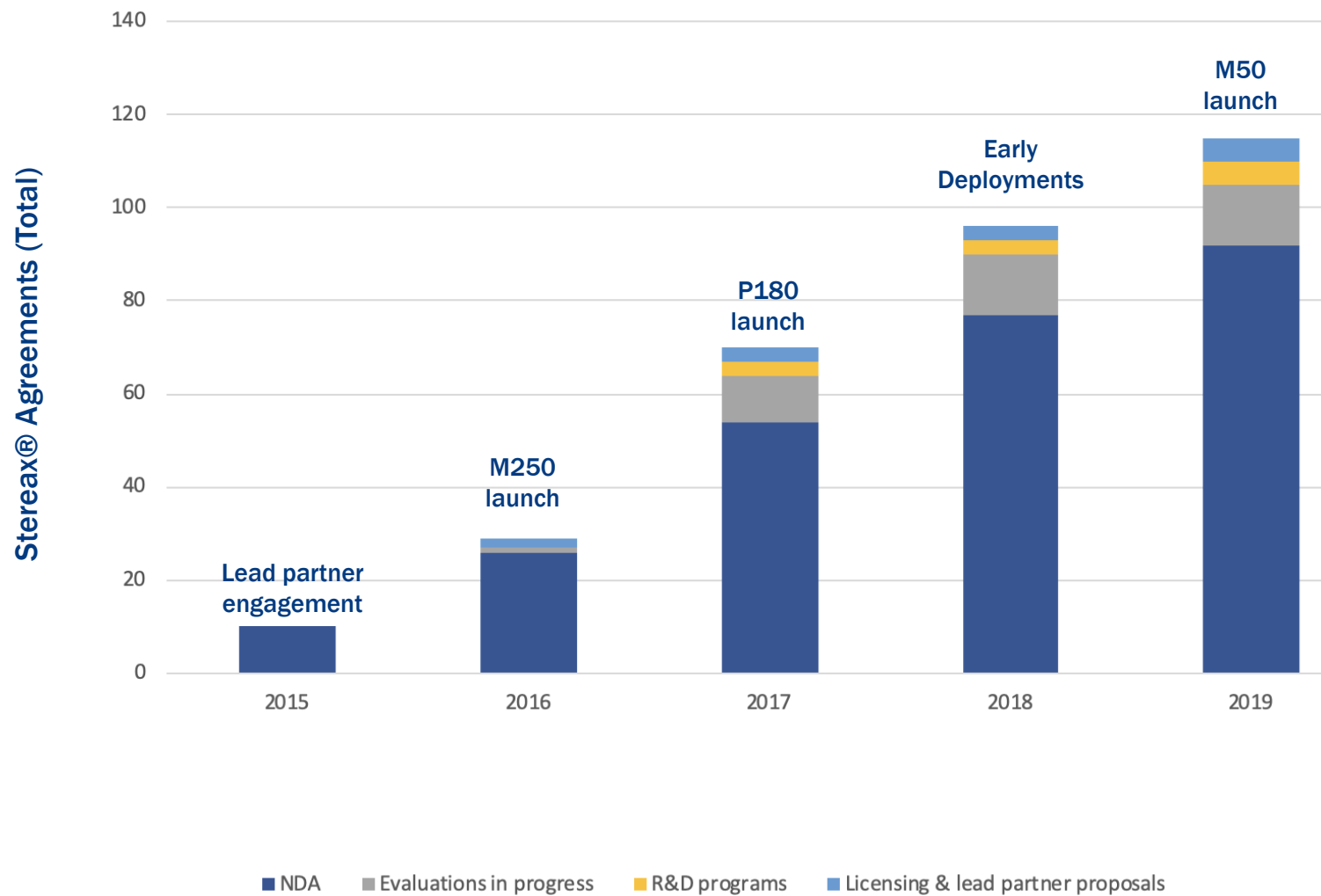


## Royalties

# Stereax<sup>®</sup> manufacturing partnerships



# Stereax<sup>®</sup> commercialisation



# Example ROI calculation

## ▲ Implantable blood pressure sensor

Income/ (costs) for Ilika	Yr 1	Yr2	Yr3	Yr5-10 p.a.
	\$k	\$k	\$k	\$k
Development costs	(500)	(250)		
Contribution to costs	350	175		
Licence issue fee		375	125	
Royalties				600
Total	(150)	300	125	600

▲ Payback in 18 months









▲ ROI 63% using 20% discount rate

▲ Volume 60,000 units p.a

▲ 10% royalty on \$100 battery cost



# Financial summary for the year ended 30<sup>th</sup> April 2019

-  **Turnover £2.6m** (2018: £2.1m)
  -  Front end of large format battery developments
-  **Loss for the period £2.3m** (2018: £2.9m)
  -  Staff costs remained level at £2.8m
-  **Placing and open offer in the year raised net £4.1m**
  -  22.3m shares issued at 20p in July 2018
-  **Loss per share reduced to 2.4p** (2018: 3.7p)
-  **Cash balance £4.0m** (2018: £2.8m)

# Summary cash-flow to 30<sup>th</sup> April 2019

	£m
Opening balance	2.8
Fundraise	4.1
Capex*	(1.0)
Operating cash outflow	(2.2)
R&D tax credit	0.3
Closing balance	4.0

**\*New facility & equipment for large format battery development**

# 2019/20 Outlook



- ▲ Goliath programmes and autonomous sensor deployment to drive revenue growth (order book of £2.7m for 2019/20)
- ▲ Stereax<sup>®</sup> manufacturing scale up
- ▲ Focus on converting OEM support into commercial revenue
- ▲ The Board looks forward to further growth in 2019/20



## Contact details



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