



Investor Webcast Q3 2023 Business Update

November 16, 2023



















Forward Looking Statements

This Presentation may include statements, including the Company's financial and operational medium term objectives that are, or may be deemed to be "forward looking statements". These forward looking statements may be identified by the use of forward looking terminology, including the terms "believes"," aims"," forecasts"," continues"," estimates"," plans"," projects"," anticipates"," expects"," intends"," may"," or "or, in each case, their negative or other variations or comparable terminology, or by discussions of strategy, plans, objectives, goals, future events or intentions. Forward looking statements may and often do differ materially from actual results. Any forward looking statements reflect the Company's current view with respect to future events and are subject to risks relating to future events and other risks, uncertainties and assumptions relating to the Company's business, results of operations, financial position, liquidity, prospects, growth or strategies. Forward looking statements speak only as of the date they are made.

Speaking Today



Dave Marver CEO



Khaled Bahi CFO



ONWARD at a Glance

Key Facts

- Founded in 2015
- o ~110 FTEs1
- o HQ in Eindhoven, the Netherlands
- Science and Engineering Center in Lausanne, Switzerland
- o US office in Boston, Massachusetts
- IPO 2021, Euronext Brussels and Amsterdam; \$170M+ raised since inception

- **Technology 2 purpose-built neuromodulation platforms** that stimulate the spinal cord via implantable (ARC^{IM®}) or external (ARC^{EX®}) technologies
 - Innovation 9 FDA Breakthrough Device Designations and 390+ issued or pending patents (230+ issued)
 - **Clinical Validation -** One pivotal study completed with **positive top line** results reported for ARC^{EX}; **positive interim results** also reported for ARC^{IM} blood pressure indication
- Commercialization Large total available market (\$20B+); first commercial sale expected 2H 2024; strategic relationship with Christopher & Dana Reeve Foundation

Vision

Empowered by movement, people with spinal cord injury will enjoy life in every way that matters to them





Technology









Q3 Update November 2023 Webcast 8

Important progress, including first-in-human use of ARC^{IM} BCI to restore thought-driven movement of upper extremities

Q3 Business Update

August

Clinical

First-in-human use of ARC™ BCI platform for upper extremities

September

Commercial

Signed agreement with US 3PL¹ to provide rapid US government contract access

September

Clinical

Began early feasibility clinical study for ARC^{IM} mobility indication

September

Clinical

Expanded ARC^{IM} clinical feasibility study for blood pressure regulation in the Netherlands

July - September

IP

Awarded 33 new patents²

November

Science

Nature Medicine
publication detailing
use of ARC-IM
Therapy for
Parkinson's disease

November

Clinical

Announced grant from The Michael J. Fox Foundation for Parkinson's Research

¹ 3PL = Third-party logistics

² Patents awarded in the third quarter of 2023



ARCIM BCI Think Decode Move The ONWARD ARC-IM platform converts that The brain-computer interface uses AI to decode that intention. An intention to move originates in the brain. decoded information into precise stimulation of the spinal cord, resulting in thought-driven movement. Note: For investigational use of ONWARD

Global visibility for first-in-human use of ARC^{IM} BCI platform for upper extremities

Media Coverage



FOX NEWS

Progress for paralyzed patients: First implanted device is placed to restore arm, hand and finger movement



Al Implants Help Paralyzed Patient Move Arms, Hands





BEKIJK – Uitzending Z-Nieuws woensdag



engadget

The ARC nervestimulation system could help quadriplegic patients move their arms again



BARRON'S

Brain Implants Could Restore Paralyzed Patients' Arm Movements



+MASS DEVICE

How Onward uses spinal cord stimulation — and perhaps BCI — to restore movement

U

Forged agreement with US logistics and fulfilment partner in September 2023

New Commercial Partnership



Service-Disabled Veteran-Owned Small Business (SDVOSB) will serve as our Veterans Administration (VA) sales partner

- ONWARD promotes therapy and maintains customer relationship (sales and training)
- 3PL partner manages logistics and fulfilment to federal government and commercial customers in the US
- Relationship gives ONWARD access to US government purchasing vehicles shortly after FDA clearance

Purpose-designed ARC^{IM} System implanted for the first time for mobility

ARC^{IM} Mobility Early Feasibility Study



Previous proof of concept study used highly modified commercially available stimulators

- Changing IPG (neurostimulators) and leads in previous study participants
- Participants gaining improved user experience and other functional improvements
- Study is providing additional safety and effectiveness data for ARC^{IM} platform

Preparing for Empower BP pivotal study, expected to begin enrollment in 2H 2024

ARC^{IM} Blood Pressure Early Feasibility Study



Studying use of ARC^{IM} Therapy to address hemodynamic instability

- Expansion to St. Marten's Clinic in Nijmegen, the Netherlands
- Lessons from early feasibility studies in Switzerland and the Netherlands are informing design of Empower BP pivotal study
- Publication of interim data from feasibility study expected mid-to-late 2024

33 new patents awarded in Q3 2023, strengthening first-mover advantage

IP Portfolio



Issued patents



Issued or pending patents

Exclusive Licenses















New patents cover multiple areas including closed-loop control of stimulation

Potential expansion into large, adjacent population with same technology platform and therapy

Parkinson's Disease Opportunity



A spinal cord neuroprosthesis for locomotor deficits due to Parkinson's disease, *Nature Medicine*, Nov 2023

Proof of concept published in *Nature Medicine*, to be followed by early feasibility study

 Supported by \$1M grant* from Michael J. Fox Foundation for Parkinson's research



- Six participants to be implanted with ONWARD ARC^{IM} System in 2024
- One year follow-up; study expected to be completed by end of 2025

0

^{*}Awarded to .NeuroRestore; ONWARD will provide investigational ARCIM systems and regulatory support

Financial Update

Expect current cash position to fuel operations through end of 2024

Q3 Cash Update

Burn

€7.0M used during Q3 2023

Ending Balance

€36.8M net cash¹ as of 30 Sep 2023

¹ Net cash is defined as the sum of cash and cash equivalents and fixed term deposits included in the current assets as included in consolidated statement of financial position in the Financial Statements.



Several important milestones expected in Q4 2023 and 2024

Upcoming Milestones

COMPLETED

ARCEX

Shared additional results from Up-LIFT pivotal study

COMPLETED

ARCIM

First-in-human use of ARCIM Lead

COMPLETED

ARCIM

Began early feasibility clinical study for mobility indication

COMPLETED

ARCIM

Expanded clinical feasibility study for blood pressure regulation to the Netherlands

COMPLETED

ARCIM

Nature Medicine publication detailing use of ARC Therapy for Parkinson's disease

COMPLETED

ARCIM

Announced grant from The Michael J. Fox Foundation for Parkinson's Research

COMPLETED

ARCIM BCI

Major BCI publication for first-in-human use of BCI for mobility

COMPLETED

ARCIM BCI

First-in-human use of ARC™ BCI platform for upper extremities

ARCEX

Share detailed results from Up-LIFT pivotal study

ARCEX

Submit for regulatory clearance for upper limb indication¹

ARCIM

First enrollment for Parkinson's mobility early feasibility study³

ARCIM

Publication of interim results for blood pressure indication

ARCIM

Begin Empower BP pivotal clinical study for blood pressure indication²

Note: All platforms and therapies are for investigational use only

¹ Improvement of upper extremity strength and function in patients with SCI

² The Company plans to begin its pivotal clinical study in the next year to evaluate the safety and effectiveness of the implantable ARC^M system to better regulate blood pressure after SCI

³ Michael J. Fox Foundation for Parkinson's Research

ABQ November 2023 Webcast



