ONMRD MEDICAL

Invest in Empowering Movement: ONWARD Medical is ready to revolutionize therapies for people with a Spinal Cord Injury *Finance Avenue - November 2024*



Forward Looking Statements

This Presentation may include statements, including the Company's financial and operational medium-term objectives, that 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 concerning 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



Medical technology professional with over 15 years experience in the US and Europe. Nearly 10 years with Edwards Lifesciences in a variety of commercial and strategy roles. Broad experience in building go-to-market plans for innovative products.

Rob Nijs Marketing Director

November 2024 Finance Avenue

BNWRD°

ONWARD Medical at a Glance

Key Facts

- \circ Founded in 2015
- \circ ~100 FTEs
- \circ HQ in the Netherlands
- Science and Engineering Center in Switzerland
- Growing US presence
- IPO 2021; listed on Euronext Brussels, Amsterdam, and Paris
- Research coverage from Stifel, Bryan, Garnier & Co, KBC Securities, Degroof Petercam and Kepler Cheuvreux

Technology: 3 purpose-built neuromodulation platforms

- **ARC**^{EX®} delivers ARC Therapy[™] externally through the skin
- **ARCIM®** delivers ARC Therapy via a fully implanted system
- ARC^{BCI™} pairs ARC^{IM} with an implanted brain-computer interface to restore thought-driven movement via a wireless DigitalBridge[™]

Innovation: 10 FDA Breakthrough Device Designations; 270+ issued patents¹

- Clinical Success:
 - Safety and effectiveness of ARC^{EX} Therapy for upper limb mobility demonstrated in Up-LIFT clinical trial; results published in *Nature Medicine*, May 2024
 - **Positive interim results** for ARC^{IM} Therapy to improve blood pressure regulation
- Market Opportunity: \$20B+ / €19B+ total addressable market with limited competition
- Commercialization: First revenues expected 2H 2024 with ARC^{EX} launch after FDA clearance

There are no cures nor effective therapies for spinal cord injury (SCI)

Unmet Need

Devastating

Not only paralysis & loss of sensation; frequently also infection, incontinence, blood pressure instability, loss of sexual function, and other challenges

Assistance required to support activities of daily life

Quality of life can be poor

Prevalent

US & Europe^{1,2} Prevalence ~650,000 Incidence ~50,000

Global² Prevalence ~7,000,000 Incidence ~ 768,000

Costly Avg Lifetime Cost³ (paraplegic) \$2.9M / €2.6N

Avg Lifetime Cost³ (tetraplegic) 5.1M / €4.6M

nnual Report, US and Europe only, World Health Organization Fact Sheet, November 2013, estimate 40-80 ce Il. 2018, Traumatic Spinal Injury: Global Epidemiology and Worldwide Volume raumatic Spinal Cord Injury Facts and Figures at a Glance (2023 SCI Data Sheet); estimated lifetime costs for ne costs for a person aged 25 at the time of iniury with iniury severity AIS ABC: costs for a tetraplegic pers Targeted, programmed electrical stimulation of the spinal cord to restore movement, function, and independence in people with spinal cord injury

Our Technology



Note: Investigational devices, not available for commercial use.

Reach commercial stage by year-end, then expand labeling and platforms

Company Focus

Short Term 2024

Commercialize external platform (ARC^{EX}) First indication: Upper Limb Population: SCI

Generate revenue and develop market for ARC^{IM}



Commercialize implantable platform (ARC^{IM})

First indication: Blood Pressure Population: SCI Enter traditional medtech NASDAQ IPO/M&A window

Medium Term

2026/2027



Long Term 2026/2027+

Expand labeling and platforms

New indications and platforms to be assessed such as BCI

Populations: SCI, Parkinson's, Stroke



Limited competition with safeguards against future competition

IRC 🖾



Similar Pre-Commercial Technologies

- Intellectual property controlled by UCLA and ONWARD Medical
- Limited **funding** raised to date¹
- Academic management teams

No Direct Competitors

Potential future competition from spinal cord stimulators for pain and other existing indications

- Currently supporting academic research with existing technology
- Several years required to reach parity with ONWARD Medical and market a competing technology
- Likely to **enter space via M&A**, leveraging balance sheets





No Direct Competitors

Focus of other BCI companies is to record brain signals to establish the capability to **control or communicate with computers**

ONWARD Medical has **unique focus on restoring movement** of the human body and WIMAGINE BCI has been successfully implanted in 3 humans for this purpose

WIMAGINE BCI is ideal current technology, but our **ARC-BCI System is agnostic and flexible**, providing opportunity to partner with others in the future

ONWARD Medical's first-mover advantage has provided path to large and formidable IP position with 270+ patents²

Note: For investigational use only

¹ Less than \$4M raised by Company A in private capital as of February 2024 (source: PitchBook); Company B's total funding not sufficiently material to be tracked by PitchBook

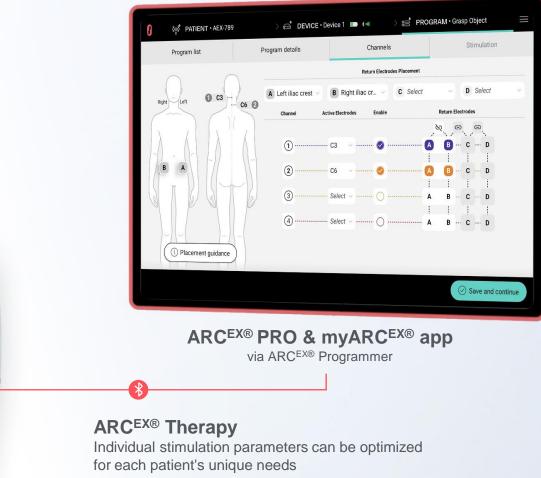
² Patent figures as of d of Q2 2024, including EP country validations

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Competition

External system for non-invasive, programmed stimulation of the spinal cord





ARC^{EX®} Therapy Programmed transcutaneous electrical stimulation to the spinal cord

Designed to restore movement, function, and independence in people with SCI

ARCEX® Stimulator

Note: Investigational devices, not available for commercial use.

ARC EX

First indication: Strength and function of the hands and arms

TAM OOO US & EU eligible population \$6.0B / €5.5B 199,000* (34% of SCI cases¹)

* Primarily driven by home use opportunity (vs. clinic use)
 ¹ Company data, epidemiology data from 2022 NSCISC Annual Statistical Report Complete Public Version



Pilot Study for Upper Extremities University of Washington 12 years post-injury Met all primary and secondary endpoints, demonstrating safety and effectiveness in improving upper limb function after SCI

(n=65, 14 trial sites globally)

90% Improved in at least one primary strength <u>or</u> function assessment

87% Reported improvement in overall quality of life

34 yrs Improvements demonstrated up to 34 years post-injury

- No serious device-related adverse events
- Study participants also reported reduced spasm frequency, improved sleep, and improved upper body sensation, including the sense of touch
- Examples of functional progress made by ARC^{EX} Therapy users include lifting filled cups, pushing a button on a remote control, and picking up objects with a fork

Moritz, Chet, et al. "Non-invasive spinal cord stimulation for arm and hand function in chronic tetraplegia: a safety and efficacy trial." *Nature Medicine*. 2024. Smaby, Niels, et al. "Identification of key pinch forces required to complete functional tasks." *Journal of Rehabilitation Research and Development*. 2004. Kirshblum, Steven C, et al. "International standards for neurological classification of spinal cord injury (revised 2011)." *The Journal of Spinal Cord Medicine*. 2011

SCI = spinal cord injury



Improved hand function



Improved quality of life







IPG and leads for direct, programmed stimulation of the spinal cord

ARC^{IM} Implantable Platform



First indication: Improved blood pressure regulation

 TAM
 OOO
 US & EU eligible population

 \$7.3B / €6.6B
 000
 215,000 (37% of SCI cases¹)

¹ Company data, epidemiology data from 2022 NSCISC Annual Statistical Report Complete Public Version

Reported December 2022, 10 participants across studies in Canada and Switzerland

Summary Results

- All participants had increased blood pressure with stimulation
- All participants who were on anti-hypotensive medication reduced dosage or stopped medication completely
- All participants reported reduction of orthostatic hypotension in daily life, feeling more energized and less dizzy
- Partners report higher levels of energy and increased participation in social interaction, during meals and family time
- All participants use stimulation actively in daily life, several during the entire waking day (>10h per day)
- Quality of Life improved in all participants

Note: For investigational use only

¹ Comment reflects the experience of a single study participant and should not be extrapolated to reflect study results nor claims.

ARC^{IM} Interim Blood Pressure Results

*"My outlook on life has become more positive. I feel more awake and less tired and dizzy. I have a lot more appetite for life"*¹

Publication of peer-reviewed interim results for blood pressure indication expected in top-tier scientific journal in 1H 2025



ARC

Next indication: Standing and walking

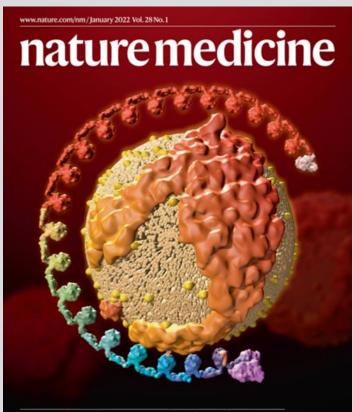
 TAM
 OOO
 US & EU eligible population

 \$7.6B / €6.9B
 OOO
 US & EU eligible population

 \$222,000 (38% of SCI cases¹)

¹ Company data, epidemiology data from 2022 NSCISC Annual Statistical Report Complete Public Version

Ability to stand and walk restored in 9 participants with chronic injuries; even those with AIS-A severity



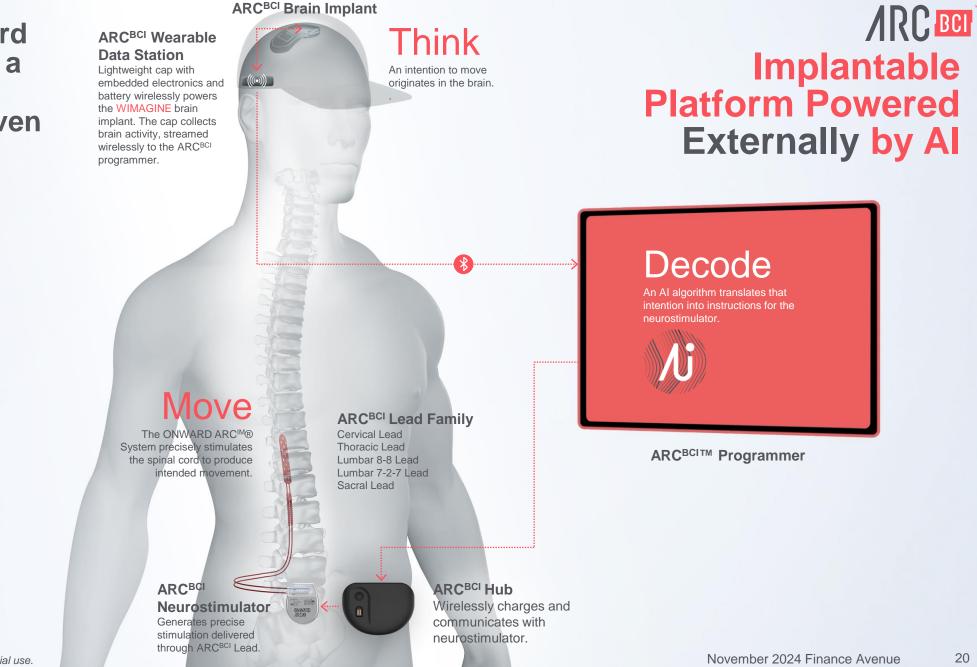
Targeting lipoprotein(a) with siRNA

ClinicalTrials.gov Identifier: NCT02936453

Mobility - STIMO Trial



Brain and spinal cord are reconnected by a **DigitalBridge™ to** restore thought-driven movement



ARCEE First indication: Mobility or Upper Limb

ONWARD Medical is strategically well positioned to benefit from advances in BCI technology

Brain Computer Interface (BCI)

BCI landscape

- Multiple companies racing to develop implanted brain recording devices
- All these companies are focused on recording brain signals to establish the capability to control or communicate with computers



ONWARD Medical differentiation

- Advancing BCI technology to restore movement of the human body using our ARC^{IM} spinal cord stimulation therapy
- Secured exclusive rights to CEA-Clinatec's WIMAGINE BCI technology, optimally suited for ONWARD's indications
- ARC^{IM} platform is "BCI-ready" (i.e. designed to receive wireless signals from a BCI), meaning ONWARD could eventually partner with additional BCI companies

Note: For investigational use only

Signed BCI license agreement, strengthened Board and raised €50M with cornerstone investment from Ottobock

Recent Catalysts



Secured exclusive rights to Clinatec's WIMAGINE BCI technology,

providing opportunity to be first to market with BCI-enabled system to restore thought-driven movement after paralysis



Welcomed former Medtronic President and Executive Committee member Rob ten Hoedt as **incoming Chairman** of the Board



Successfully **raised €50M in upsized capital increase**, extending cash runway to two years or more, with UBS and Bryan Garnier as Joint Bookrunners

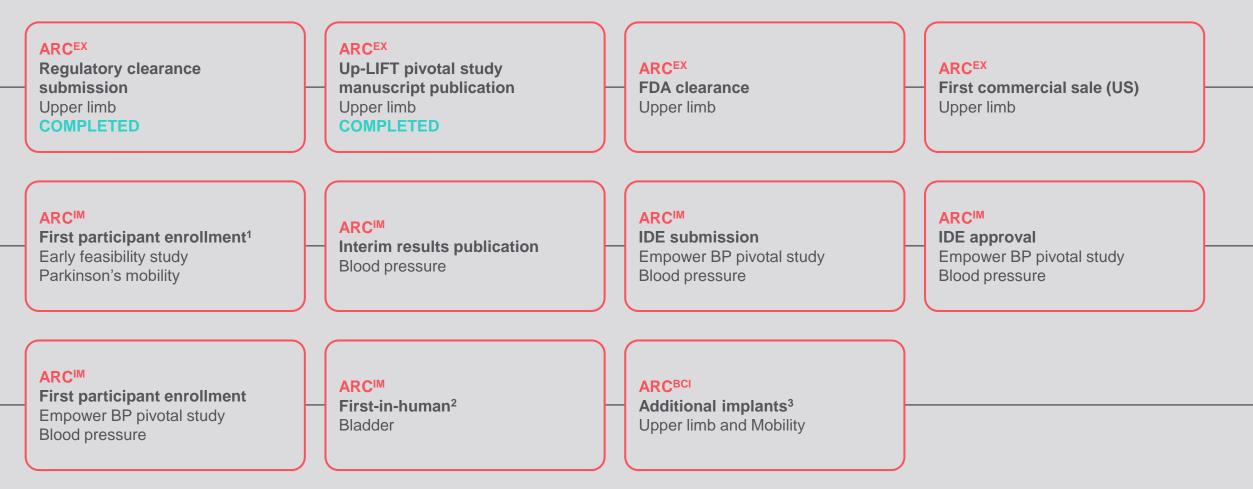
ottobock.

Secured strategic investment from Ottobock, now the company's largest shareholder, with opportunity to explore future development and commercial collaboration opportunities

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Several important catalysts expected in the next 12 months

Upcoming Milestones and News Flow



Note: All platforms and therapies are for investigational use only

- ¹ Funded by Michael J. Fox Foundation for Parkinson's Research grant
- ² Funded by Christopher & Dana Reeve Foundation grant

³ Funded by European Innovation Council and Christopher & Dana Reeve Foundation grants

A compelling opportunity with large potential upside





\$20B+/€19B+ addressable market with current roadmap; straightforward commercialization pathway



One **pivotal study completed with positive top line results; positive interim results from 2nd indication**; several additional indications planned



Innovation highlighted by **ten FDA Breakthrough Device Designation** awards and comprehensive IP portfolio of **270+ issued patents**¹



Leaders in BCI technology and therapy development; already **multiple humans implanted** with ARC^{BCI} Therapy to restore movement



Experienced, international management team with proven track record



Successful IPO in October 2021 with strong shareholder base and access to equity capital and debt financing

Q&A

ONNARD MEDICAL

Empowered by independence, people with spinal cord injury will enjoy life in the ways that matter to them

9 indications under clinical or pre-clinical evaluation, with 3 in current roadmap

Current Pipeline

Short- and medium-term focus

Funded primarily through grants and research partners

Platform	Indication	FDA BDD ¹	Pre-clinical	Human PoC	Clinical Feasibility ²	Pivotal	
ARCEX	Upper Limb	\checkmark	0				— 0
ARC™	Blood Pressure	\checkmark	0		O	Study expected to start early 2025	
ARC™	Mobility / Second Indication	\checkmark	0		O		
ARCEX	Mobility	\checkmark	0	O			
ARC [™]	Parkinson's – Mobility		0	O			
ARC™	Bladder	\checkmark	o —o	Human PoC expected in 2025 ³			
ARC ^{BCI}	Mobility	\checkmark	0	0			
ARC ^{BCI}	Upper Limb		0	O			
ARCDBS	Mobility		0	0			
✓ BDD ¹ Grar	nted O Current Roadmap	O Label Expa	ansion O I	Platform Expansion			

Note: The company may modify the pipeline based on clinical progress and marketplace considerations

¹ BDD = FDA Breakthrough Device Designation. ONWARD has been granted four additional BDDs for ARC^{EX} Bladder, ARC^{EX} Blood Pressure, ARC^{EX} Spasticity and ARC^M Spasticity

² Includes both early feasibility (typically before device design finalized) and feasibility (near-final or final device design) studies

³ Funded by Christopher & Dana Reeve Foundation grant, conducted by EPFL

CEA's WIMAGINE BCI enables our imperative to be first-to-market with BCIaugmented movement restoration



- SafetyCEA's WIMAGINE system is cleared for human
research with ~7 years of human safety data;
already restored movement in three humans
- Invasiveness WIMAGINE implant procedure is less invasive, offering lower risk than subdural or brain penetrating electrodes
- ResolutionWIMAGINE provides sufficient resolution and
coverage of motor cortex to enable thought-driven
movement restoration

BCI Selection Considerations

Other BCI technologies



A limited number of other BCI platforms cleared for investigation in humans; **none have yet been used to restore movement of the human body**

Use subdural, brain penetrating, or intravascular electrodes, bringing **higher risk than the epidural WIMAGINE platform** (e.g. inflammation, perforation, thrombosis)

May provide too little or too much resolution (overkill); may face difficulties offering sufficient access to or coverage of the motor cortex

ARC^{BCI} timeline

First-in-human	F
Mobility	U
2021	2

First-in-human Upper Limb 2023 Additional implants with first generation technology 2024+

Pivotal study

Commercialization

Potential window for next generation technology

Strategic investment from Ottobock, with opportunities for future collaboration

ottobock.

- A global leader in the fields of prosthetics, orthotics and exoskeleton technology
- Present in ~60 countries with 9000+ employees and 400+ patient care centers
- €~1.5B in revenues and €~280M adjusted

 EBITDA in 2023¹
- ONWARD's largest shareholder with ~10% of shares since October 2024 capital raise
- Opportunity to explore future development and commercial collaboration opportunities

Strategic Investment

ONWARD Medical has the potential to become a **gamechanger in the therapy of spinal cord injuries** with its innovative solutions... Our investment in ONWARD is an investment in the future of medical technology."

> - Professor Hans Georg Näder Chairman of the Board & Owner, Ottobock SE & Co. KGaA

Experienced, global management team with the expertise to commercialize

Team



Dave Marver CEO

Seasoned medical technology executive with 30 years of global experience. Nearly **15** years with Medtronic. Has served as CEO of listed companies on NASDAQ and Euronext; companies have developed three Time Magazine Best Invention awards.



Rob Ten Hoedt Incoming Chairman of the Board

Former Medtronic President and Executive Committee Member. Over 30 years of experience in medical devices Former Chairman of MedTech Europe, the Association representing the medical technology industry in Europe.



Jocelyne Bloch, MD Co-founder & Medical Advisor

Renowned Swiss neurosurgeon leading functional neurosurgical unit at CHUV. Adjunct professor at EPFL and Associate Professor at UNIL. Awarded the Ronald Tasker Award (2019) of the World Society for Stereotactic and Functional Neurosurgery.



Grégoire Courtine, PhD Co-founder & Scientific Advisor

Professor at EPFL. Awards include Schellenberg Prize, Rolex Award, Chancellor Award, and Fellowship from the European Research Council. Preeminent researcher with over 120 publications in top peer-reviewed journals.



Erika Ross Ellison, PhD VP Clinical, Regulatory & Quality

Former Leader of Abbott Neuromodulation's Clinical function, former neuroscience director at Cala Health and former professor of Neurosurgery at Mayo Clinic.



Julien Camisani VP Engineering

Over 20 years of **leadership** experience across R&D, manufacturing, IP and product management at companies like Cytiva, GE Healthcare and Biosafe.



Bob Odell VP Operations

Decades of medtech experience; former President & COO of Cardiac Insight and held leadership roles at GE Healthcare, Siemens, Philips and Medtronic.



Amori Fraser Finance Director

~20 years of experience in both finance and auditing; former Senior Manager at EY; holds a degree in Accounting Sciences and is a qualified Chartered Accountant.



Alexandre Casteau Head of Strategy & Corp. Dev.

Former management consultant with McKinsey & Company; launched and led the McKinsey Switzerland startup/ scaleup service line; Holds an MBA from INSEAD and an MSc. from MIT.