



Company Deck November 2022

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.

Large unmet need: There is no cure for spinal cord injury (SCI)

Problem

Devastating

Paralysis & loss of sensation + infection, incontinence, loss of sexual function, etc.

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 cost (paraplegic)

€2.5M / \$2.5M

Avg lifetime cost (tetraplegic)

€5.0M / \$5.0M

What do we hope to achieve?

Vision

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



ONWARD ARCTM Therapy

Solution

Targeted, programmed electrical stimulation of the spinal cord to restore movement, independence, and health in people with spinal cord injury.



One technology platform with shared components provides opportunity to target multiple indications

Our Solution

Implantable & External Devices





IPG and Lead





Common Hardware & Software Platform



Remote Manager



Smart Watch



Programmer

Multiple Indications

Current Pipeline

- Upper limb function
- Blood pressure & trunk
- Walking and standing

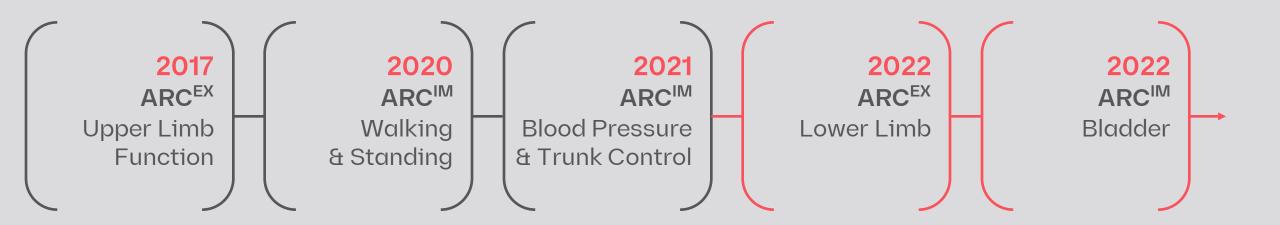
Future Pipeline (TBD)

- Bladder control
- Sexual function
- o Parkinson's disease
- o Brain-Spine Interface



Two new indications and five in total, including all three indications in our current business plan

FDA Breakthrough Device Designation



External platform designed for periodic use in the clinic or home

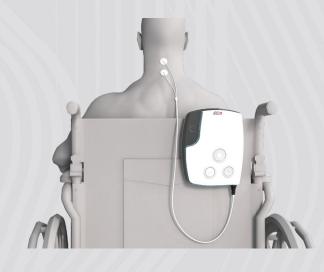
Components & Mechanism of Action

ARCEX



Mechanism of Action

Proprietary waveform: Strength to deliver current to the spinal cord without causing pain or discomfort



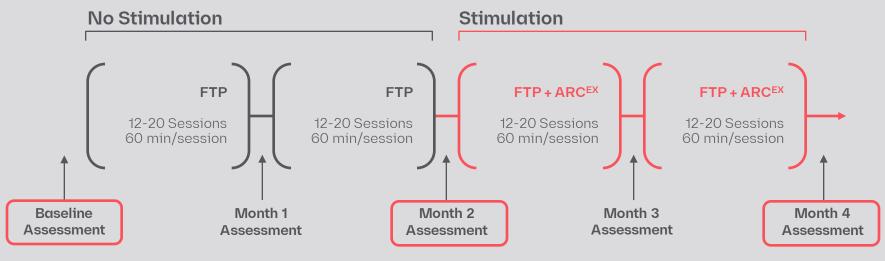
Therapy

Designed to restore function in conjunction with rehabilitation

Intended to be used periodically during up to 60-minute sessions delivered in the clinic or at home

Met primary endpoint: Clinically meaningful improvement in upper extremity strength and function





Study Goal

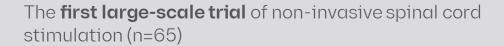
To demonstrate statistically significant improvement in the strength and function of the hands and arms after spinal cord injury

FTP = Functional Task Practice

Assessments used to establish endpoint data

Leading Research Collaborators

Positive top line data announced September 2022













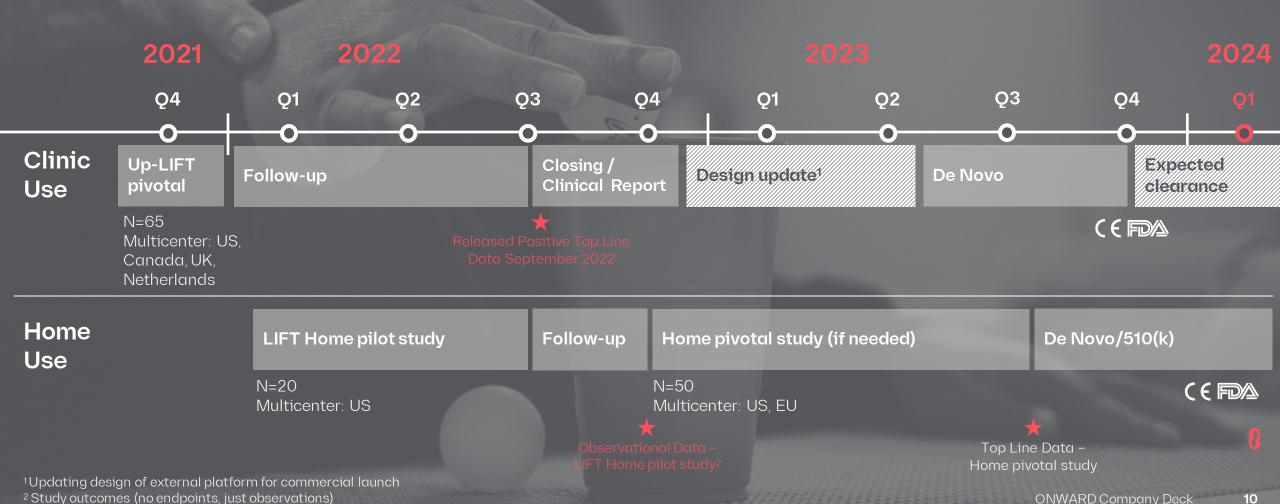






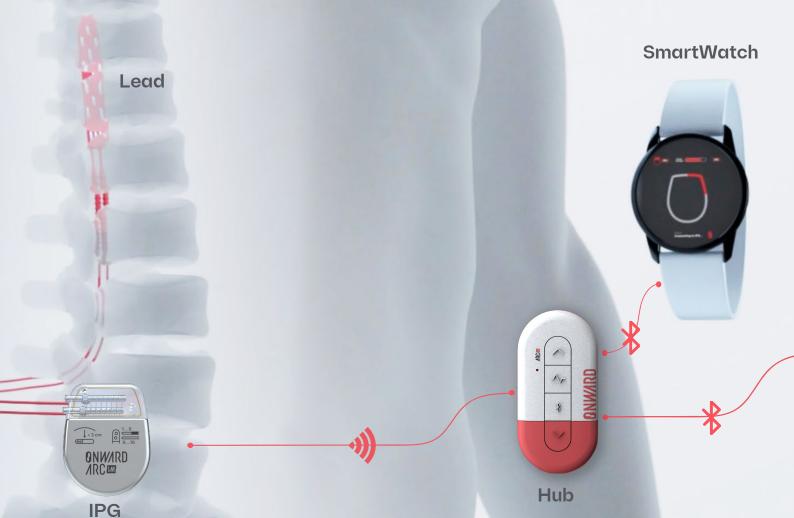
Multicenter pivotal trial complete with positive top line results

ARC^{EX} Upper Limb Regulatory Pathway



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

Implantable Platform





Programmer



IPG Designed for SCI Indications

- o Closed-loop, low latency, and low power consumption
- Stimulation parameters can be adjusted in real-time
- o 16 independent currents and stimulation frequencies
- Proprietary waveforms
- Advanced recharging

Purpose-Designed Lead Family

- Leads designed for cervical, thoracic, lumbar and <u>sacral use</u>
- o Optimized for specific deployment along the spinal column

Purpose-Built IPG & Lead Portfolio

On 9 May 2022, the ARC^{IM} neurostimulator was implanted in a human for the first time

First-in-Human



- Purpose-designed technology now available for clinical trials and eventual commercialization*
- First patient enrollment in the HemON Study, assessing ARC Therapy for orthostatic hypotension
- New era in spinal cord stimulation for SCI and other movement-related challenges



Precisely controlled hemodynamics are critical for the SCI population

Blood PressureIndication

Hemodynamic instability is highly prevalent, affecting almost 75% of people with SCI (nearly 500,000 people in the US & Europe)

The approach is also potentially applicable to those with Parkinson's disease

No rehabilitation is required





Paper detailing our approach was published January 2021

ONWARD and partners to receive up to \$36M grant





Bonus: The lead placement for blood pressure offers improved trunk movement and stability, impacting > 80% of people with SCI (over 500,000 people)

Trunk Movement & Stability

Patients with cervical and thoracic injuries have impaired control of their trunk muscles, leading to poor control and movement of their upper bodies.

These limitations impact their ability to grab objects in their direct surroundings and their capacity to stand or sit straight and/or comfortably.

This condition leads to back pain and pressure sores in the chronic phase.



Studies have commenced for blood pressure and trunk control and a pragmatic clinical plan is in place for mobility

ARCIM Roadmap



Lausanne and Calgary **PULSE** HemOn - Early feasibility IDE **PULSE** pivotal F/U

N=16 Lausanne & Nijmegen, NL

PoC

Interim Data - HemON and STIMO-HEMO

N=8

feasibility

N=15

N=75

Closing / Clinical report

Mobility v1.0* (standing, steps, leg function, spasticity, etc.)

F/U

5-6 sites in EU & US

Early feasibility 2-3 centers. TBD N=8

HDE

N=25

6 centers. TBD

15 sites in EU & US

F/U

Closing, Clinical Report

> $C \in$

10 centers, TBD N=40

IDE

Mobility v2.0 (full walking)

HDE

Closing

F/U = Follow-up IDE = Investigational Device Exemption HDE = Humanitarian Device Exemption

*Lower leg function, i.e. swinging legs during transfers, lifting legs and feet to don socks, tie shoes, check for skin issues, and other activities of daily living

IDE

ONWARD Company Deck

F/U

Current pipeline indications and potential pipeline opportunities

Total Addressable Market

	Indication	Injury Severity / Level	Eligible Population ¹	Total Addressable Market ²		
Current Roadmap						
/RCEX	Upper Limbs	AIS B-D / lesion above C8	217,000* 34% of SCI cases ¹	\$2.6Bn		
∕IRC III	Blood Pressure & Trunk	AIS A / lesion above T6 AIS A-C / lesion C1 - C8	262,000 41% of SCI cases ¹	\$9.2 Bn		
∕IRC III	Walking & Standing	AIS B-D / lesion above T11	265,000 41% of SCI cases ¹	\$9.3 Bn		
Near-Future						
∕IRC III	Near-future Indications	Blood pressure and mobility for Parkinson's disease and stroke	2,300,000 Patient prevalence	\$80.4 Bn		
* >95% of opportunity is for ho **Patients can benefit from or	ome use (vs. clinic use) ne or more therapies, i.e. Blood Pressure	>2,394,000**	>\$100 Bn			

 $^{^{\}rm 1}$ Company data, epidemiology data from 2020 NSCISC Annual Statistical Report Complete Public Version $^{\rm 2}$ Assumes pricing typical of existing therapies

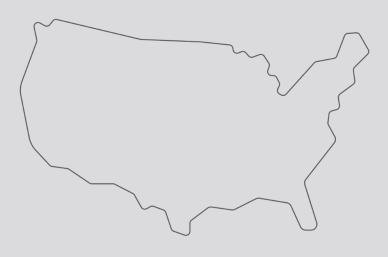
Highly concentrated customer base

Commercial Strategy

Call Points

~200 (2019)

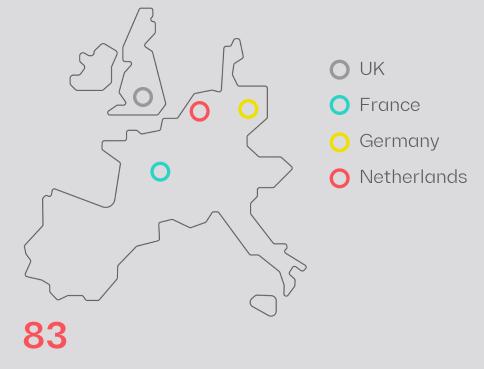
US



105

Specialized rehabilitation clinics

Europe



Specialized rehabilitation clinics

Well positioned to use existing codes + add-on payments or an accelerated pathway TBD

Economics

US		Europe
∕IRC EX	HCPCS codes for similar devices	Initial plan to commercialize in several markets: UK , Germany , France , Netherlands
∕IRC	Miscellaneous codes to establish our pricing (common for DME products) Existing ICD-10 Codes for insertion of IPG and neurostimulator leads	Selected based on reimbursement environment for new technologies and sophistication of SCI rehabilitation infrastructure
	Pass-through and/or add-on payments to establish our own(higher) pricing	
Breakthrough Designation satisfies the "substantial clinical improvement" and "newness" requirements for inpatient (NTAP) and outpatient (TPT) add-on payments.		NTAP = New Technology Add-on Payment
CMS has indicated its desire to identify an accelerated path to coverage for Breakthrough therapies (TCET)		TPT = Transitional Passthrough payment CMS = Centers for Medicare and Medicaid Services TCET = Transitional Coverage for Emerging Technologies

Standard of care is 3-6 months of rehab followed by costly support for activities of daily life

Competition





Similar Pre-Commercial Technologies











Intellectual property controlled by UCLA and ONWARD





No Direct Competitors

- Exoskeletons
- Biological Repair
- Spinal Cord Stimulator for Pain

First-mover advantage has allowed ONWD to build formidable IP estate

IP Portfolio

Issued or Pending Patents

Exclusive Licenses

>330

Caltech













0

Strong relationships with leading patient advocacy organizations to drive awareness and market access

Advocacy







Opportunities for Engagement

- Drive awareness in the SCI community
- Reach patients and their families directly
- Shared media and government advocacy
- Support for clinical research
- Sources of non-dilutive funding

Grants & Subsidies

~ £ 8.3 M
Grants since inception

Now targeting VA, US Congress and other large sources of US-based funding

High-growth market segment with strong performing public peers

Neurostimulation

Size

\$8.7B

(2028E)

CAGR

12.5%

(2022 - 2028E)

Comparable Companies

Company	HQ	Year of IPO	Share Price Since IPO (as of 04 Nov 22)	Market Cap (\$)
Axonics		2018	+315%	3.08B
♣ Inspire		2018	+731%	5.99B
UEALD.		2014	+62%	1.44B

Multiple platforms and indications expected to fill news flow pipeline

Numerous Milestones to Drive Value

2022

0

Top Line Data ARCEX

Up-LIFT Pivotal Study (with Positive Topline Results)

Interim Data ARCIM

STIMO HEMO (Blood Pressure) HemON Early Feasibility (Blood Pressure)

Publications in Peer-Reviewed Journals ARC™

STIMO Bridge Parkinson's Multiple System Atrophy

IPG First-in-Human Use ARC™

Lead First-in-Human Use ARCIM

2023

-C

Regulatory Approval ARCEX

Clinic Use - US & Europe

First Commercial Sale ARCEX

Clinic Use - US & Europe

Top Line Data ARCEX

Home Pivotal

First Patient Enrollment ARCIM

PULSE Feasibility Trial

First Patient Enrollment ARCIM

Early Feasibility Mobility Trial

Publications in Peer-Reviewed Journals ARC™

TBD

2024

-C

First Patient Enrollment ARC™

Pivotal Study (Blood Pressure)

Completion of Enrollment ARCIM

Pivotal Study (Blood Pressure)

Top Line Data ARCIM

PULSE Feasibility Study (Blood Pressure)

First Patient Enrollment ARCIM

HUD Study (Mobility)

Completion of Enrollment ARCIM

HUD Study (Mobility)

Top Line Data ARCIM

Early Feasibility Mobility v1.0

Publications in Peer-Reviewed Journals ARC™

TBD



RVO loan of €10M / \$10M

Several of Europe's leading life science venture capital firms invested €26M / \$26M

Series A extension of €5M from existing shareholders

NRT acquisition brought €5M in fresh capital and shareholder relationship with a leading global patient advocacy organization

All current institutional investors participated with €7M / \$7M

New investors contributed €23M /\$23M Believed to be the largest earlystage medtech IPO in European history

Outstanding valuation despite weakening market

Very strong book of long-only and specialist investors



inkef capital

wellingtonpartners

Gimv













Note: IPO funding reflects net proceeds; gross proceeds were $\rm \$86M\,prior$ to exercise of the over-allotment option

Experienced, global management team

Team



Dave Marver CEO

Seasoned medical technology executive with over 25 years of experience in the US and Europe. Nearly 15 years with Medtronic in a variety of Vice President roles, CEO of Cardiac Science Corp (NASDAQ), and CEO/founder of two start-ups.



John Murphy, PhD

Over 25 years of experience leading the development of active medical implants and neurostimulation devices in the US and Europe for Medtronic, St. Jude Medical, and LivaNova.; Ph.D. from FPFI



Grégoire Courtine, PhDCSO

Ph.D. in Experimental
Medicine and trained in
Mathematics, Physics, and
Neurosciences. Professor at
EPFL. Awards include
Schellenberg Prize, Rolex
Award, Chancellor Award,
and Fellowship from the
European Research Council.



Lara Smith Weber CFO

Led \$240M NASDAQIPO for MorphoSys AG and served as CFO of MorphoSys US Inc. Prior to this, held a variety of finance leadership positions at Telefonica Germany and worked as an associate with Booz Allen Hamilton. MBA from IMD and BS and MSc in Electrical Engineering from Stanford.



Hendrik Lambert, PhD VP Clinical & Regulatory

Over 20 years of experience driving clinical and regulatory strategies for Class III medical devices. European Education and Field Clinical Leader at Guidant (now BSX) and VP Clinical and Regulatory at Endosense (now Abbott).

U

A compelling opportunity with large potential upside

Key Takeaways



>\$20 Bn addressable market with current roadmap; >\$100 Bn with near-future indications



One pivotal trial complete with positive top line results; several additional indications planned



Five **FDA Breakthrough Device Designation** awards



Comprehensive IP portfolio of >330 issued or pending patents



Experienced, international management team with proven track record



Successful IPO in October 2021 and over \$150M commercial funding since inception



