



REGAINING VISION, REGAINING LIFE



*JPMorgan – TROUT conference
San Francisco, January 11-14, 2015*

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This document contains information on Pixium Vision's markets and competitive position, and more specifically, on the size of its markets. This information has been drawn from various sources or from the companies own estimates. Investors should not base their investment decision on this information. This document also contains certain forward-looking statements. These statements are not guarantees of the Company's future performance. These forward-looking statements relate to the Company's future prospects, developments and marketing strategy and are based on analyses of earnings forecasts and estimates of amounts not yet determinable. Forward-looking statements are subject to a variety of risks and uncertainties as they relate to future events and are dependent on circumstances that may or may not materialize in the future. Pixium Vision draws your attention to the fact that as forward-looking statements cannot under any circumstance be construed as a guarantee of the Company's future performance and that the Company's actual financial position, results and cash flow, as well as the trends in the sector in which the Company operate may differ materially from those proposed or reflected in the forward-looking statements contained in this document. Furthermore, even if Pixium Vision's financial position, results, cash-flows and developments in the sector in which the Company operates were to conform to the forward-looking statements contained in this document, such results or developments cannot be construed as a reliable indication of the Company's future results or developments. The Company does not undertake any obligation to update or to confirm projections or estimates made by analysts or to make public any correction to any prospective information in order to reflect an event or circumstance that may occur after the date of this presentation. A description of those events that may have a material adverse effect on the business, financial position or results of Pixium Vision, or on its ability to meet its targets, appears in the sections "Risk Factors" of its "Document de Base" filed with the French Autorité des Marchés Financiers. By attending this presentation or accepting this document, you agree to be bound by the foregoing restrictions set out above.

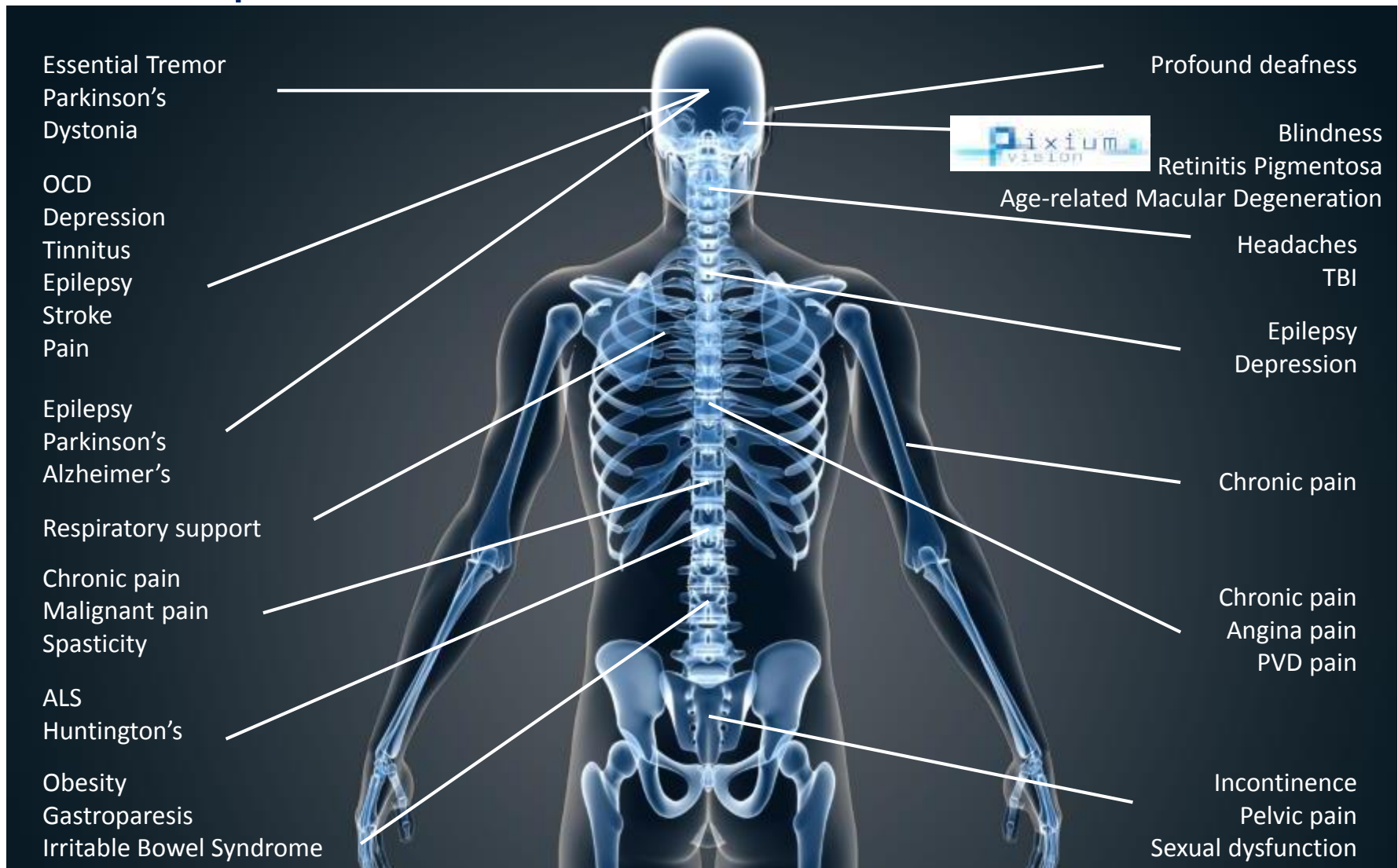
Pixium Vision: our mission



To provide the best-in-class vision restoration systems enabling the blind to regain greater autonomy



Pixium Vision, pushing new frontier of “neuro-ophthal-modulation”



An experienced management team

Bernard Gilly, *Chairman*



- 20+ years experience in the lifesciences sector
- Fovea Pharma (2005-2009) Chairman & CEO - sold to Sanofi
- Sofinova (2000-2005) - Managing Partner
- Transgene (1992-2000) - Chairman & CEO

Khalid Ishaque, *CEO*



- 20+ years experience in the medtech industry in neuromodulation
- Boston Scientific (1997-2014) - General Manager Neuromodulation International

Pierre Kemula, *CFO*



- 14 years experience in Corporate Finance / Financial Markets
- Ipsen - VP IR, Finance & Treasury
- Strategy Consulting (Bossard; Roland Berger)

Guillaume Buc, *CTO*



Karine Chevré, *RA/QA Dir*



Robert Hill, *COO*



Sylvie Murgo, *IP Dir*



Pixium Vision

1 The only company with 2 proprietary retinal implant systems

- An eco-system of global scientific & technological excellence
- Intellectual Property & Know-How : Over 250 patents

2

Attractive addressable >1 Billion Euro + market opportunity*

3 Two differentiated systems:

- IRIS® system close to commercialization for Retinitis Pigmentosa (RP)
- PRIMA to expand the market opportunity with AMD

4

Experienced and dedicated management executing the strategy

**Establish Pixium Vision's position as a leader in
Vision Restoration Systems**

* Company Estimate

Imagine how much blind
people miss out on...

Progress 15-17 months Observations



Blindness

Costs and target pathologies

Solving blindness from macular degeneration: a major market opportunity

Blindness epidemiology

- 285 million people in the world are visually impaired
- 40–45 million people in the world are totally blind
- In the US and Europe, blindness costs exceed tens of billions of USD per annum

Retinitis Pigmentosa (RP)

- Genetic disease ~ 1/4000
- Blindness occurrence: ~ 35 - 40 years old
- Worldwide prevalence: 1.5 to 2 million
- Prevalence in the US + EU: 350,000 - 400,000
- Incidence (US + EU): 15k-20k patients annually

Age-related Macular Degeneration (AMD)

- Age-related disease
- Later blindness occurrence: 70+ years old
- Worldwide prevalence: 12 to 15 million
- Prevalence in the US + EU: 4 million
- Incidence (US + EU): 350k - 400k patients annually

Retinitis Pigmentosa is Pixium Vision's initial target market

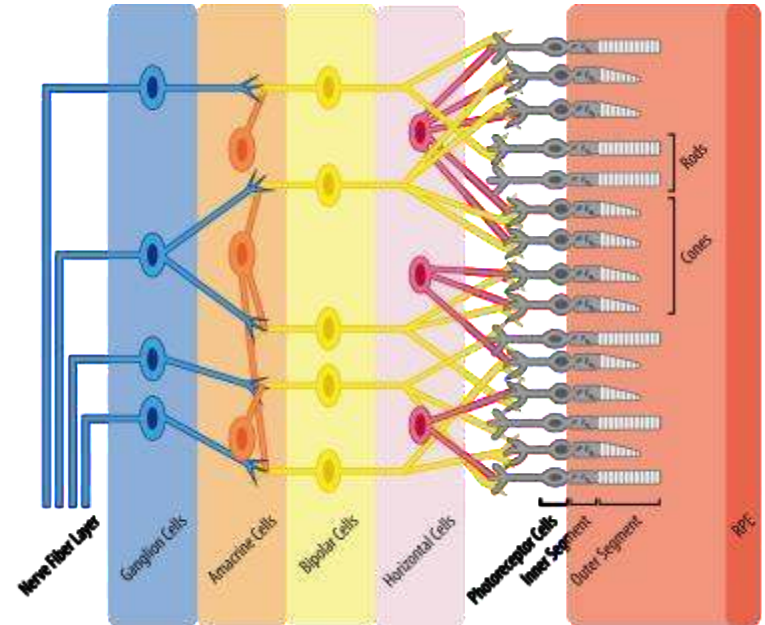
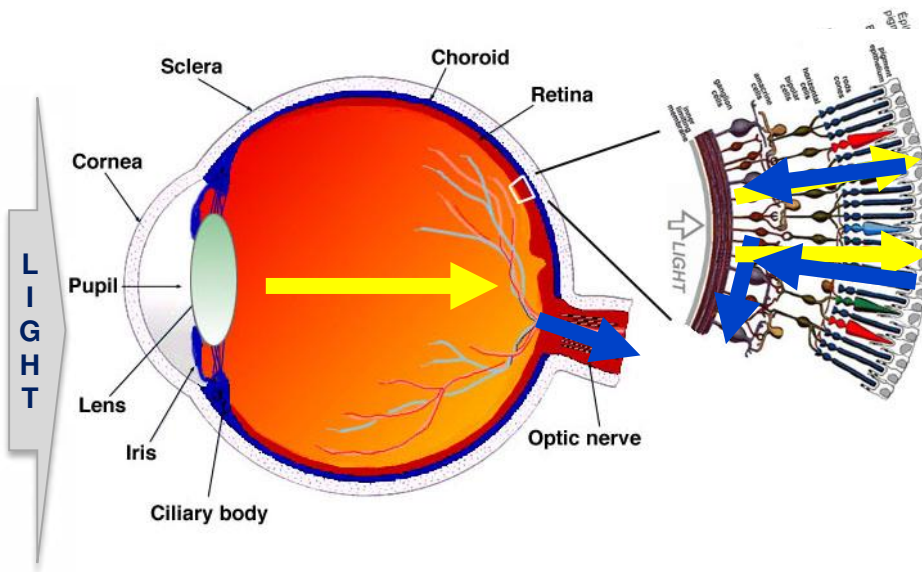
Sources: World Health Statistics. World Health Organization -<http://www.who.org> -NORC Cost of Vision Problems: The Economic Burden of Vision Loss and Eye Disorders in the United States -Study commissioned by Prevent Blindness in America and conducted by University of Chicago -European Forum Against Blindness (EFAB)

Source: 2012 World Health Organization – by 2020 there will be 75 million blind people in the world and 314 million partially-blind people
Fighting Blindness (UK) : 25K in UK and over 2M worldwide
CentralSight fact sheet End-Stage Age-related Macular Degeneration

The loss of the photoreceptor function is a major cause of blindness

The eye transforms light into electric signals

Photoreceptor degeneration does not affect the rest of the retina



- Photoreceptor cells convert light into signals
- The human retina contains 6 million cone cells responsible for central vision










- RP and AMD are linked to photoreceptor degeneration
- **However, bipolar cells, ganglion cells and downstream visual pathways remain INTACT and FUNCTIONAL in the vast majority of RP and AMD patients**



Pixium Vision

The convergence of excellence providing a solid intellectual property

Pixium Vision systems are supported by global expertise, resulting in a strong patent position

Optics Image Capture	<ul style="list-style-type: none">• Physics	
Image Processing Algorithms	<ul style="list-style-type: none">• Mathematics / Robotics• Neuro-physics	
Visual Processing	<ul style="list-style-type: none">• Ophthalmology• Electrophysiology	 
Micro-engineering and Micro-electronics	<ul style="list-style-type: none">• Optronics	 
Ocular Surgery	<ul style="list-style-type: none">• Retinal Surgery	
Rehabilitation	<ul style="list-style-type: none">• Neuronal computation	 



**Pixium Vision has built a strong Intellectual Property & Know-How
with more than 250 patents**

Pixium continues to strengthen its IP position

New initiatives

- **7** patents granted with IRIS® since January 2015
- **5** new patent applications filed on both IRIS® and PRIMA further strengthen the portfolio

Defensive

The company strives to protect its competitive patent position with:

- **1** patent maintained in Europe following opposition claim by a competitor
- **2** US competitor European patents revoked following successful oppositions led by Pixium Vision

Supporting the technology development and industrialization

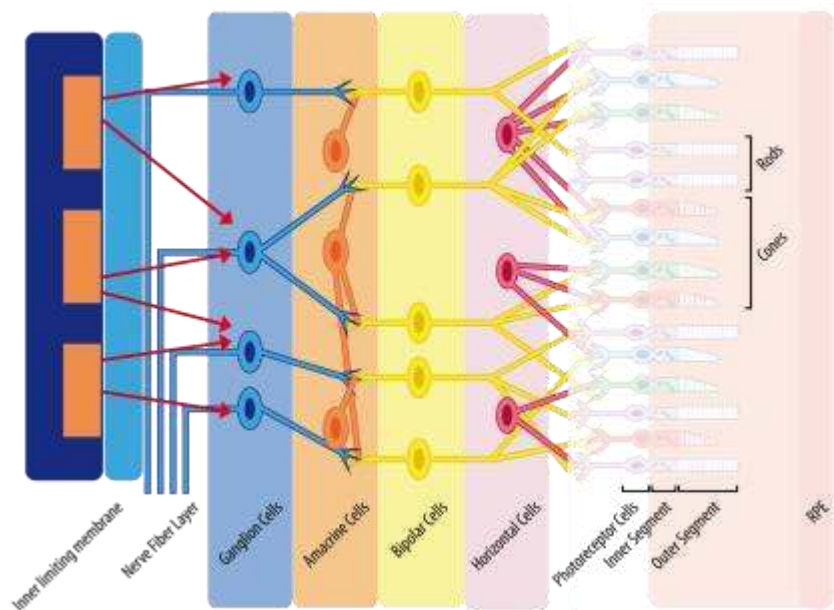


IRIS®

A state of the art Vision Restoration System

Pixium Vision, the only company to develop two proprietary retinal implant systems

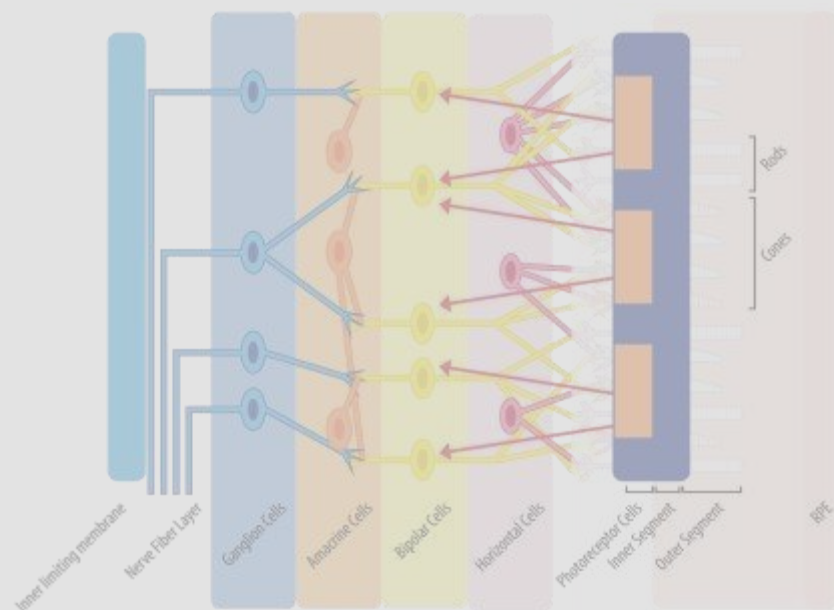
EPI-RETINAL STIMULATION



IRIS®



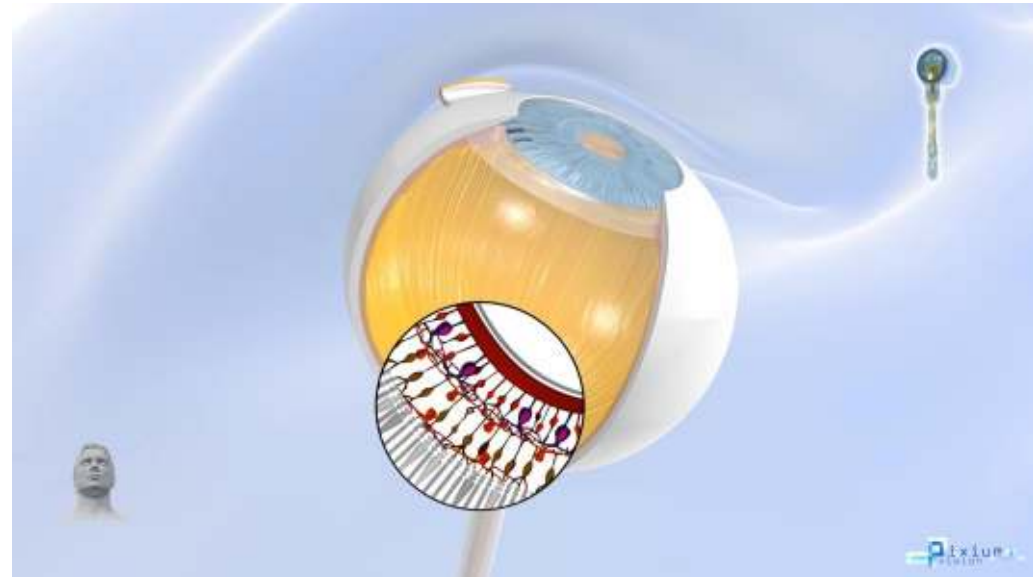
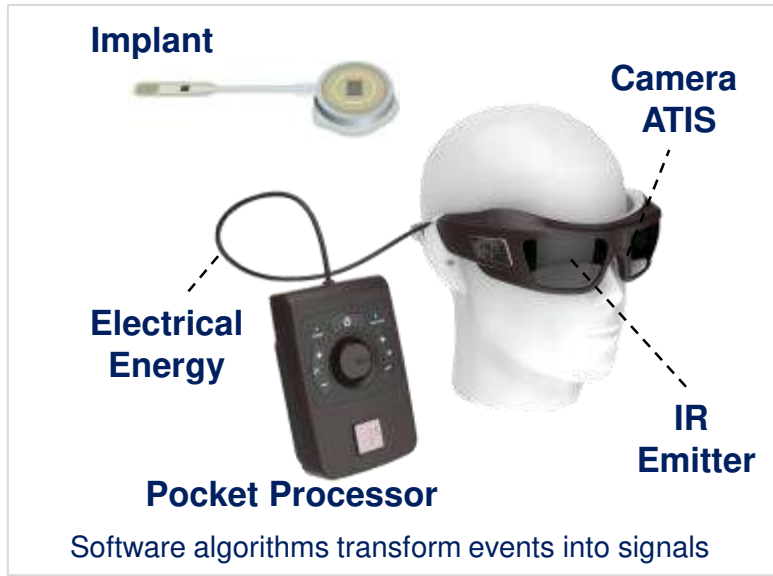
SUB-RETINAL STIMULATION



PRIMA



IRIS[®], a technically advanced system targeting Retinitis Pigmentosa




Initial goal is to deliver light and shape perception, and to localize objects giving the patient the ability to negotiate an unfamiliar environment



IRIS® : A technically advanced and differentiated VRS



Device Features		IRIS®	Main Competitor	IRIS® Advantage
Technology	Camera	Neuromorphic Event Based 	Frame Based	How the human brain works
	Patient Programming - Tuneability	Yes	No	All patients respond and learn differently; IRIS is flexible to patient needs
	Number of Electrodes	150 electrodes	60 electrodes	Allow smarter stimulation combinations
Surgery	Surgical Procedure	2.5 hours	Up to 4 hours	Easier to implant;
	Explant and Replacement	Yes	Replacement not proven	Technology is always evolving and improving; patients need the option of upgrading to new technologies in the future



How Neuromorphic Image Sensors Steal Tricks From the Human Eye

By prioritizing the dynamic parts of a scene, machines can capture images more efficiently

By Christoph Posch, Ryad Benosman & Ralph Etienne-Cummings
Posted 26 Nov 2015

[http://spectrum.ieee.org/biomedical/devices/how-neuromorphic-image-sensors-steal-tricks-from-the-human-eye?utm_source=feedburner-robotics&utm_medium=feed&utm_campaign=Feed:+IEEE+SpectrumRobotics+\(IEEE+Spectrum:+Robotics\)](http://spectrum.ieee.org/biomedical/devices/how-neuromorphic-image-sensors-steal-tricks-from-the-human-eye?utm_source=feedburner-robotics&utm_medium=feed&utm_campaign=Feed:+IEEE+SpectrumRobotics+(IEEE+Spectrum:+Robotics))

IRIS®, illustration of smart design



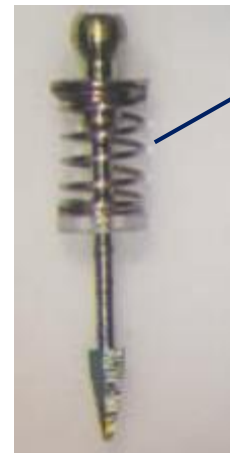
Competitor

Proprietary epi-retinal tack that allows release of implant on the retina i.e. explantation



Silicon ring (not fitted here) allows release of intra-ocular implant section

Illustration of proprietary epi-retinal tack that **does not** allow explantation



Spring does not allow for release of intra-ocular implant section

Patented : a key feature allowing patients to replace / upgrade



IRIS®: A clear path to market

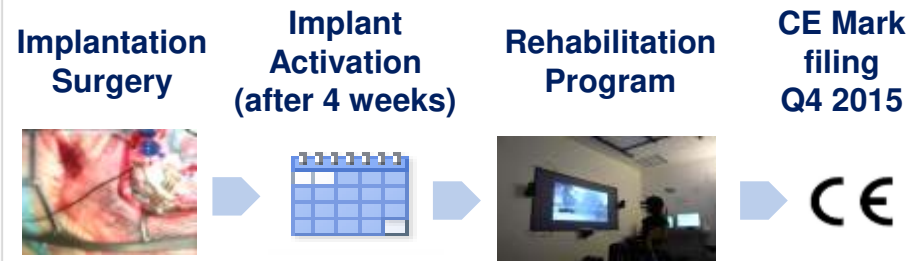
Aiming for a leading market position

IRIS®: Continue to build evidence for CE Mark

Ongoing Clinical Trial

- 1 Incidence, severity and duration of all **adverse events** at 4, 6, 9, 12 and 18 months
- 2 Assessment of the capability of patients to **perform visual tasks** with and without the device at 4, 6, 9, 12 and 18 months

Regulatory Path



Clinical Centers



Paris & Nantes



Graz



Hamburg & Bonn

Rehabilitation Program

- Programs tailored for each patient
- Rehabilitation programs will enable further software improvements
- Patients' vision improves during the course of their rehabilitation program

A lean and specialized commercial organization

25 to 30 key ophthalmic surgery centers in Europe



These centres give access to
~80% of qualifying patients*

Market development process

Ongoing:

- KOL engagement
- Discussions with patient associations
- Participation in major scientific and medical conferences



Country/market assessments to select and prioritize centers



Recruitment of a lean internal technical/clinical specialist sales team focused on:

- Commercial & educational activities
- Training & support of orthoptists



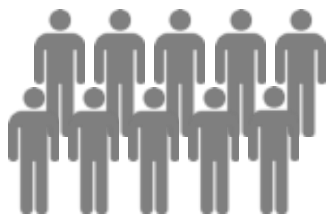
Sales team to reach a peak of 2 to 3 team members per country & sales admin employees

* Company Estimate

IRIS® path to the US market

1

Gather results from European clinical trial



2

File an Investigational Device Exemption (IDE)

- Pre IDE planned for Q2/Q3 2016
- Pixium Vision anticipates that FDA will require clinical results from at least 30 patients with 2 years follow-up



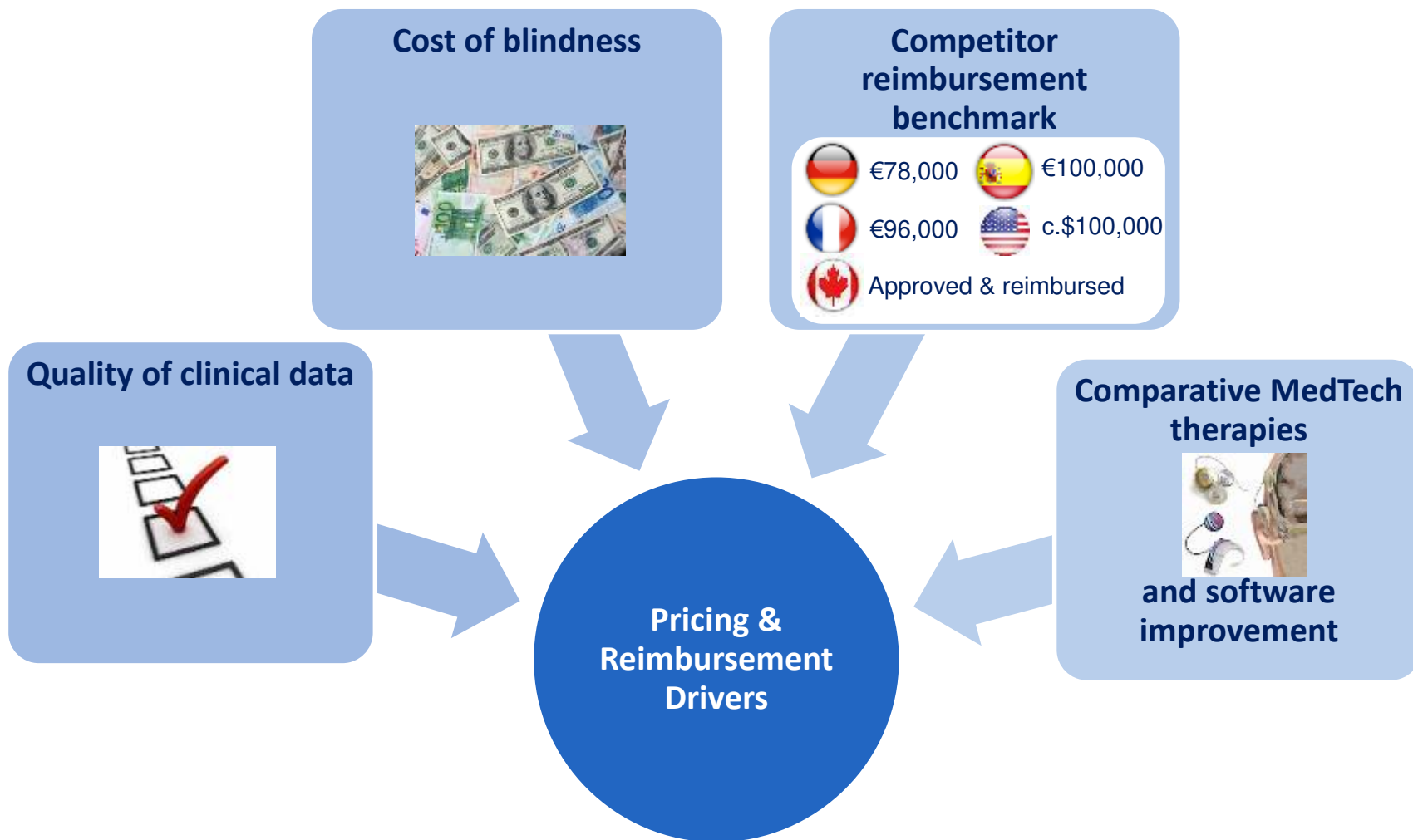
3

Obtain Pre-Market Approval (PMA)

- US launch of IRIS® to start 2019



IRIS[®] pricing and reimbursement drivers



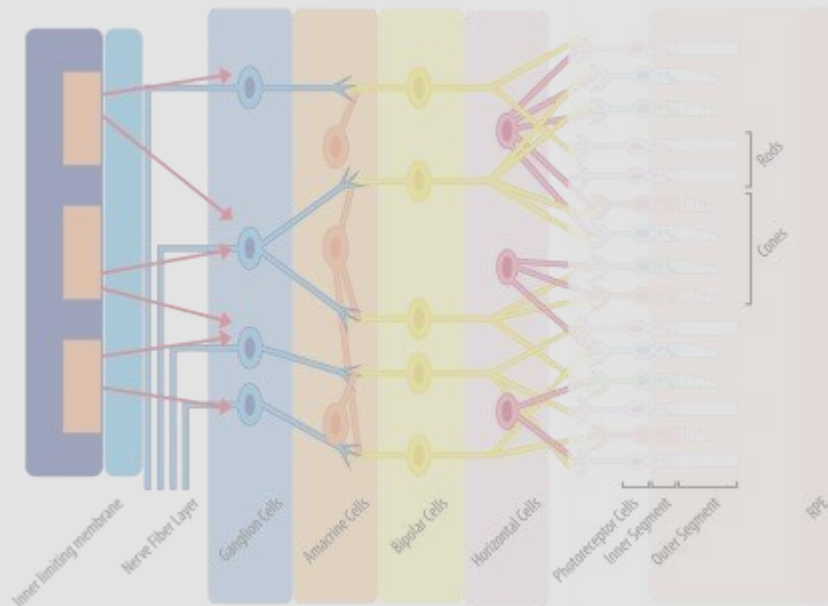


PRIMA Vision Restoration System

Building on IRIS® leading market position

Pixium Vision, the only company to develop two proprietary retinal implant systems

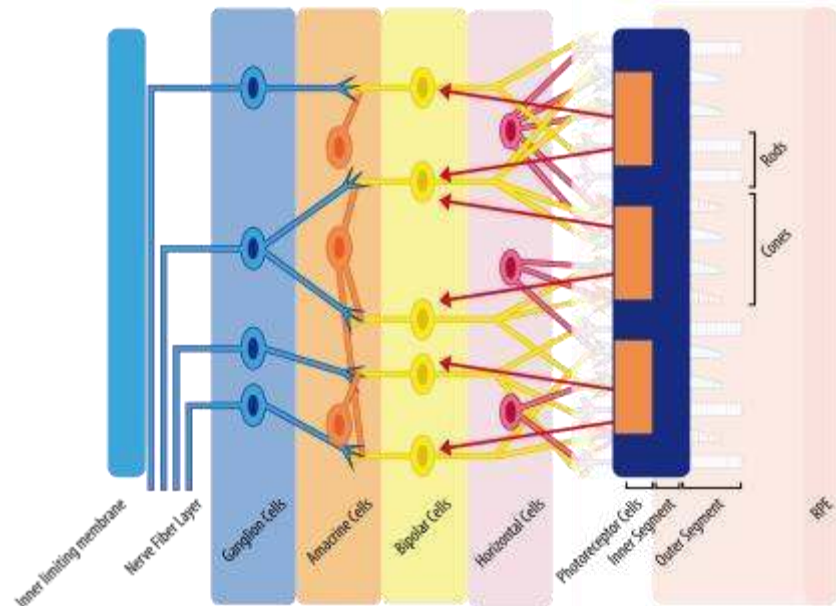
EPI-RETINAL STIMULATION



IRIS®



SUB-RETINAL STIMULATION



PRIMA



Treating Macular Degeneration AMD :

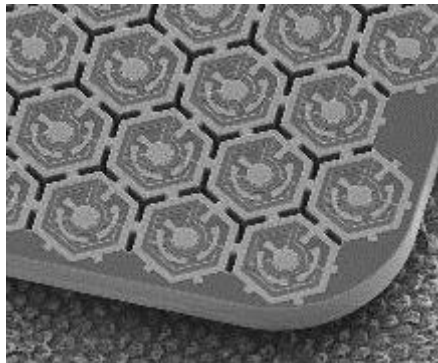
“Tiny implantable solar panels could help the blind see one day”



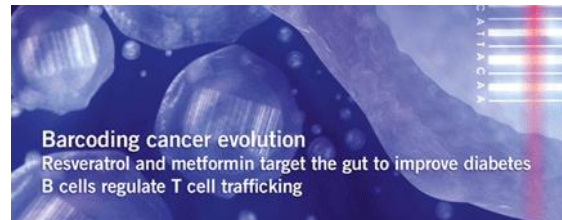
Treating blindness

Bionic eyes

A new device may restore vision to those whose sight is dwindling



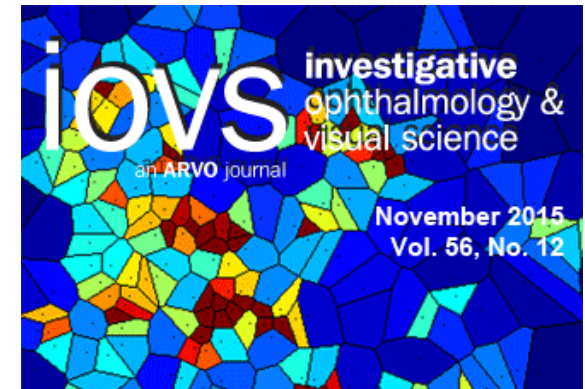
Photovoltaic restoration of sight with high visual acuity



Nature

Medicine (2015) doi:10.1038/nm.3851

<http://www.nature.com/nm/journal/vaop/ncurrent/full/nm.3851.html>



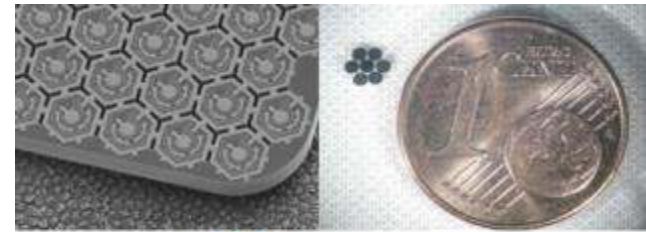
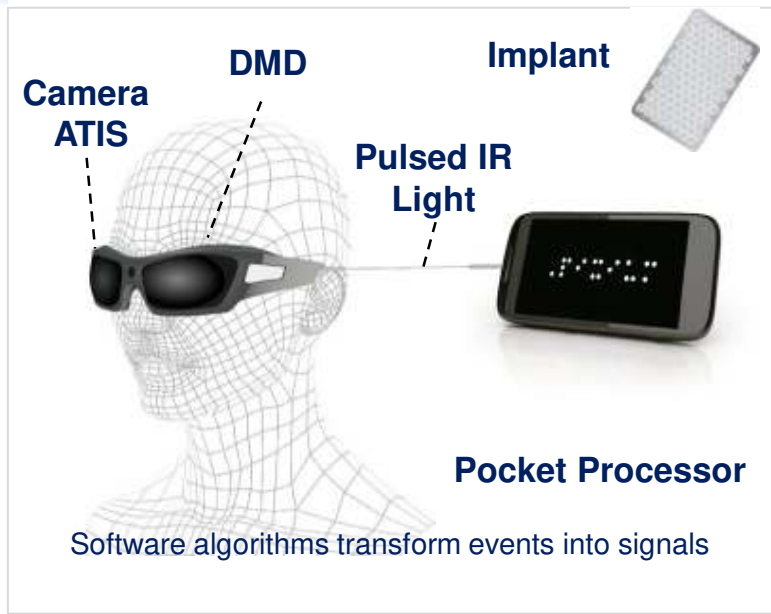
Interactions of Prosthetic and Natural Vision in Animals With Local Retinal Degeneration

Investigative Ophthalmology & Visual Science November 2015, Vol.56, 7444-7450. doi:10.1167/iovs.15-17521

<http://iovs.arvojournals.org/article.aspx?articleid=2474145&res ultClick=1>

The PRIMA System, more optimal approach for AMD

A technically advanced system designed to deliver further clinical benefits



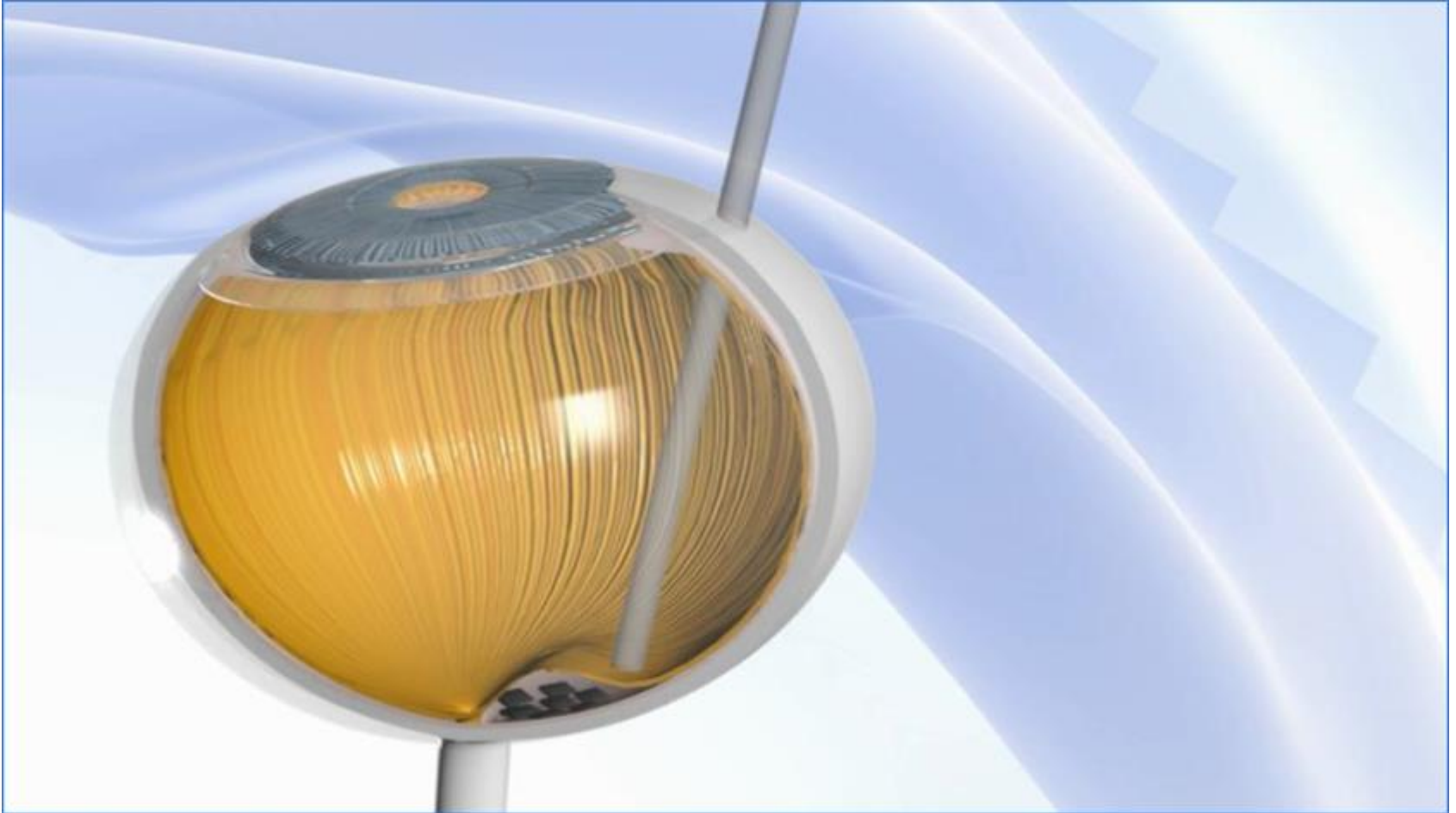
- Physiological signal processing
- Simpler and shorter surgical procedure
- Retinal chips in modules up to several 1000 electrodes
- Advanced processing algorithms
- Reduced energy requirements enabling miniaturization of components

Goal is to deliver improved visual perception to the level of direct facial recognition



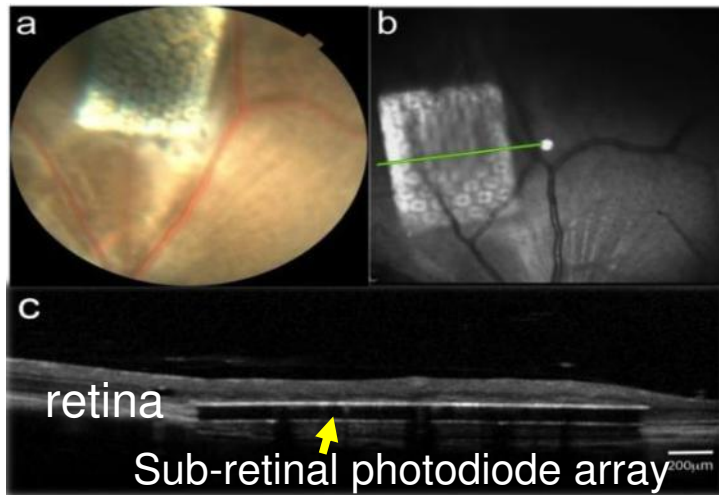
PRIMA, a sub-retinal implant

Prima to directly stimulate the retinal cells that were directly connected to the photoreceptors



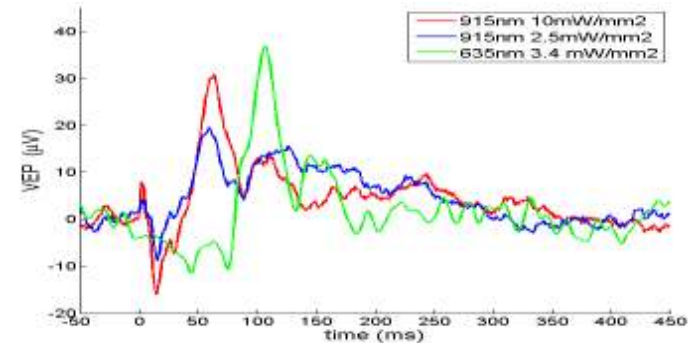
PRIMA: Validated in pre-clinical models

Nature Medicine 2015 : Photovoltaic restoration of sight with high visual acuity

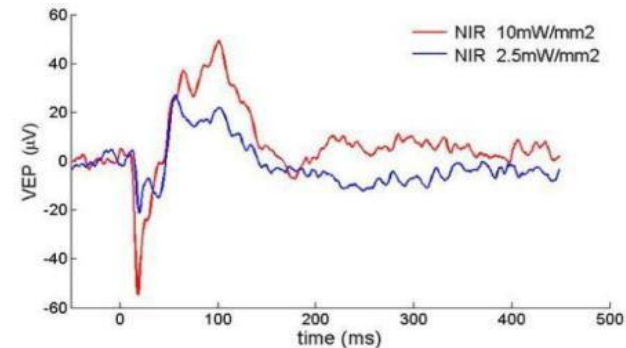


- Proof of concept achieved in rats
- Safety demonstrated in rats and pigs
- Scale-up of manufacturing process ongoing
- First in man expected in 2016

Visual Evoked Potential: Normal rats *



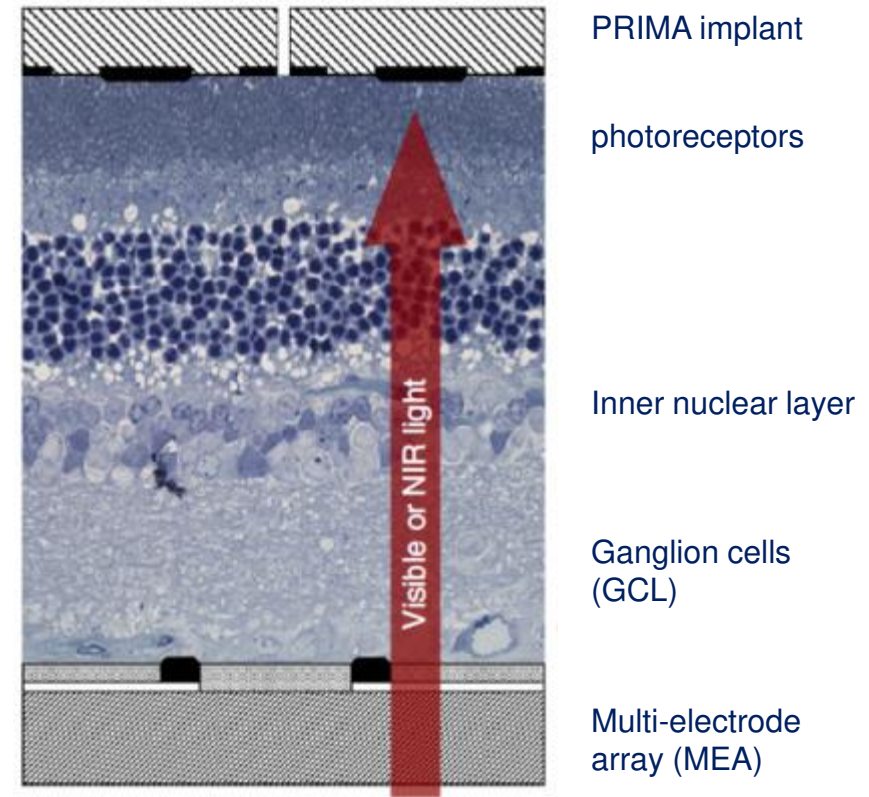
Visual Evoked Potential: Blind rats *



In rats with retinal degeneration, PRIMA elicited retinal responses with a spatial resolution of 64 ± 11 mm, corresponding to **half of the normal visual acuity in healthy rats**

PRIMA rat data, published in Nature Medicine, show restoration of half of normal visual acuity

- 70 μ m-wide pixels provide **highly localized stimulation** of retinal neurons in rats
- Electrical receptive fields recorded in retinal ganglion cells were **similar in size to the natural visual receptive fields**
- Similarly to normal vision, the retinal response to prosthetic stimulation exhibited:
 - flicker fusion at high frequencies
 - adaptation to static images
 - nonlinear spatial summation

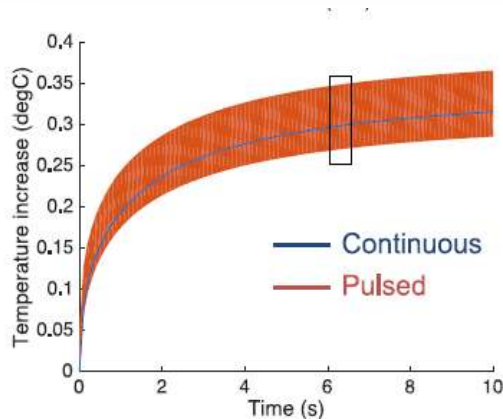


Healthy rat retina sandwiched between a transparent MEA which records electrical field at the ganglion cell layer (GCL) level

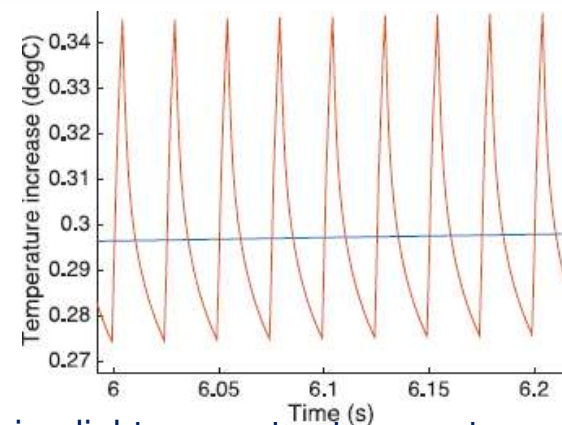
In rats with retinal degeneration, PRIMA elicited retinal responses with a spatial resolution of 64 ± 11 mm, corresponding to **half of the normal visual acuity in healthy rats**

Thermal Safety of PRIMA is demonstrated with temperature rise well within required standards

Model of retinal temperature rise in typical use (5ms, 40Hz) of NIR beam



- In typical use conditions (5mW/mm², 5ms pulses at 40Hz, with 2-4.5mm diameter implant and 4.5mm beam), the **temperature increase predicted by the model will be within the range of 0.17-0.43°C**
- These power settings are well above levels shown in previous trials to allow stimulation of animal retina.



- Pulsing light generates temperature spikes of about 0.05°C, oscillating around the blue line corresponding to the average power, a negligible variation within the natural temperature range in the body.
- Pulsing allows reduction of the chip temperature increase in a quasi-linear manner vs duty cycle (% of time when light is on).

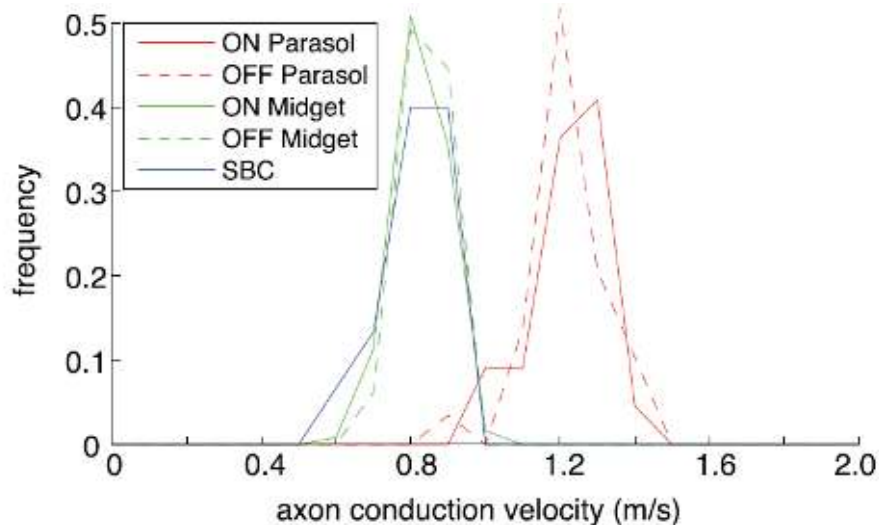
These results are more than 4 times below the recommended thermal safety limit of 2°C for active implanted medical devices

Source: Retinal safety of near infrared radiation in photovoltaic restoration of sight - BIOMEDICAL OPTICS EXPRESS 4 Dec. 2015

Spike speed to differentiate RGC types

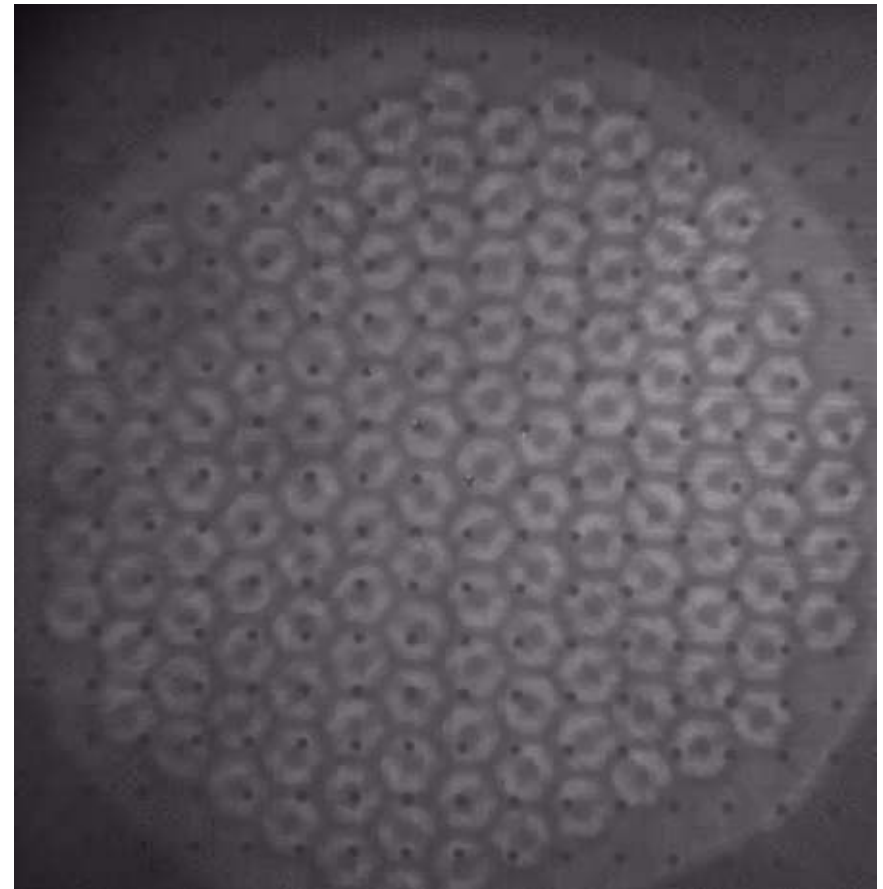
7 pixels stimulation, 75 μ m pixels, 1.25mW.mm⁻², 5ms, 5Hz

4ms video



Anatomical Identification of Extracellularly Recorded Cells in Large-Scale Multielectrode Recordings.

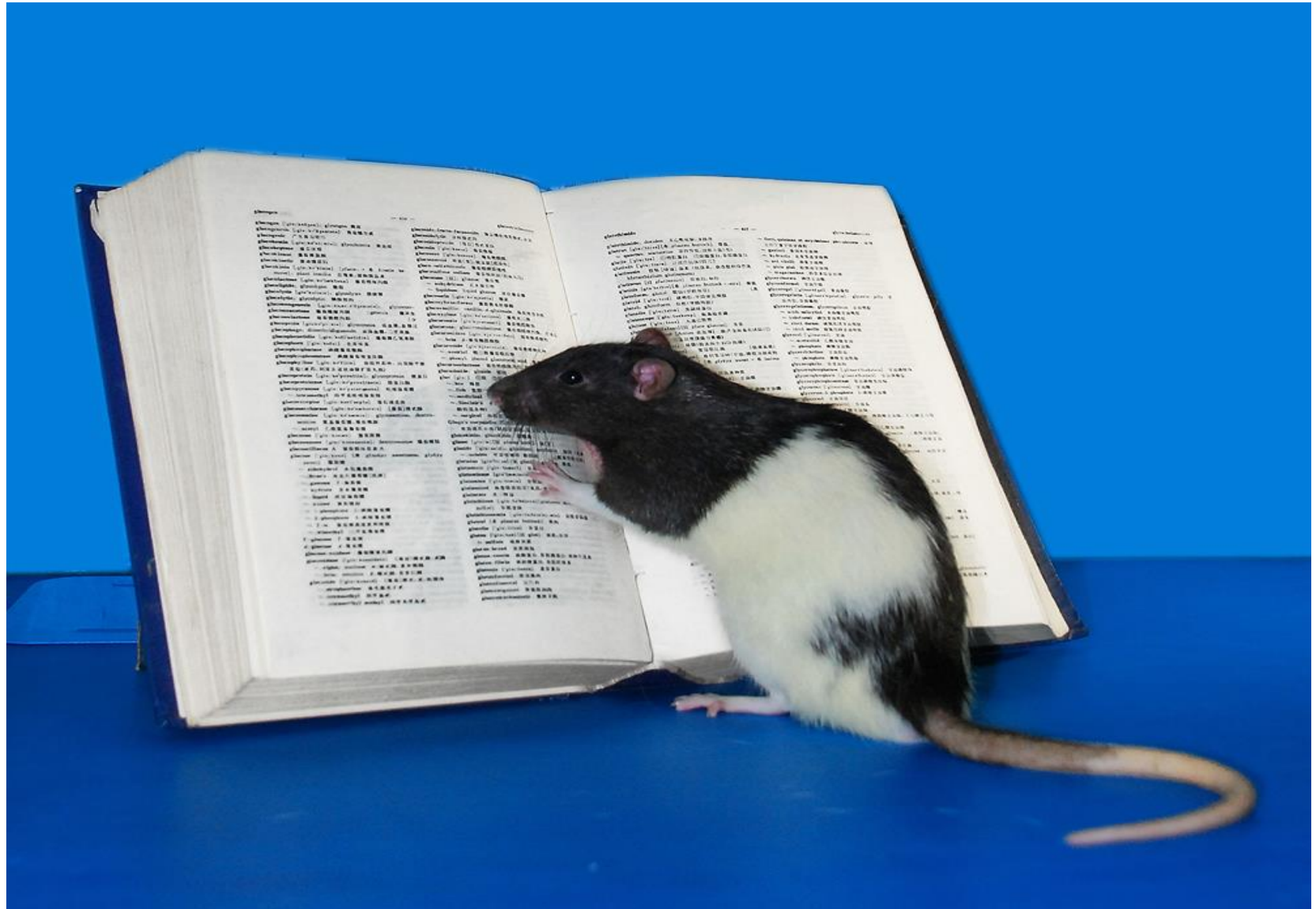
Peter H. Li, E.J. Chichilnisky



Calculated spike speed: $0.73 \pm 0.2 \text{ m.s}^{-1}$

Measure of the interspike interval necessary to differentiate between ON and OFF cell types

Visual Function – in vivo ?



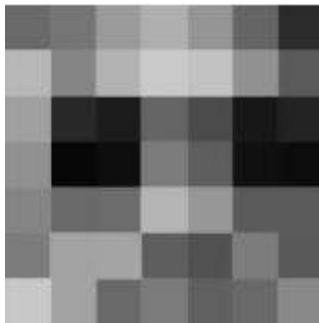


In short

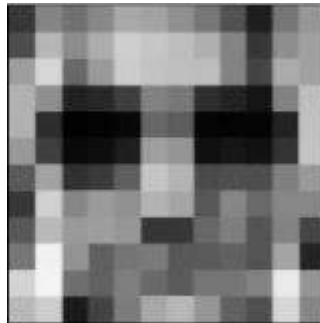
Pixium Vision Creating a world of Bionic Vision



IRIS₅₀



IRIS₁₅₀



Today IRIS

- Epi-retinal implant in clinical with novel proprietary Neuromorphic sensor
- Toward Higher Resolution 150 electrodes

Commercial Launch : 2016 in EU

PRIMA 1 chip
400 electrodes



PRIMA 4 chips
1600 electrodes



Tomorrow PRIMA

- Sub-retinal implant with proprietary passive wireless microphotodiodes
- Toward Facial Recognition

First in man : 2016

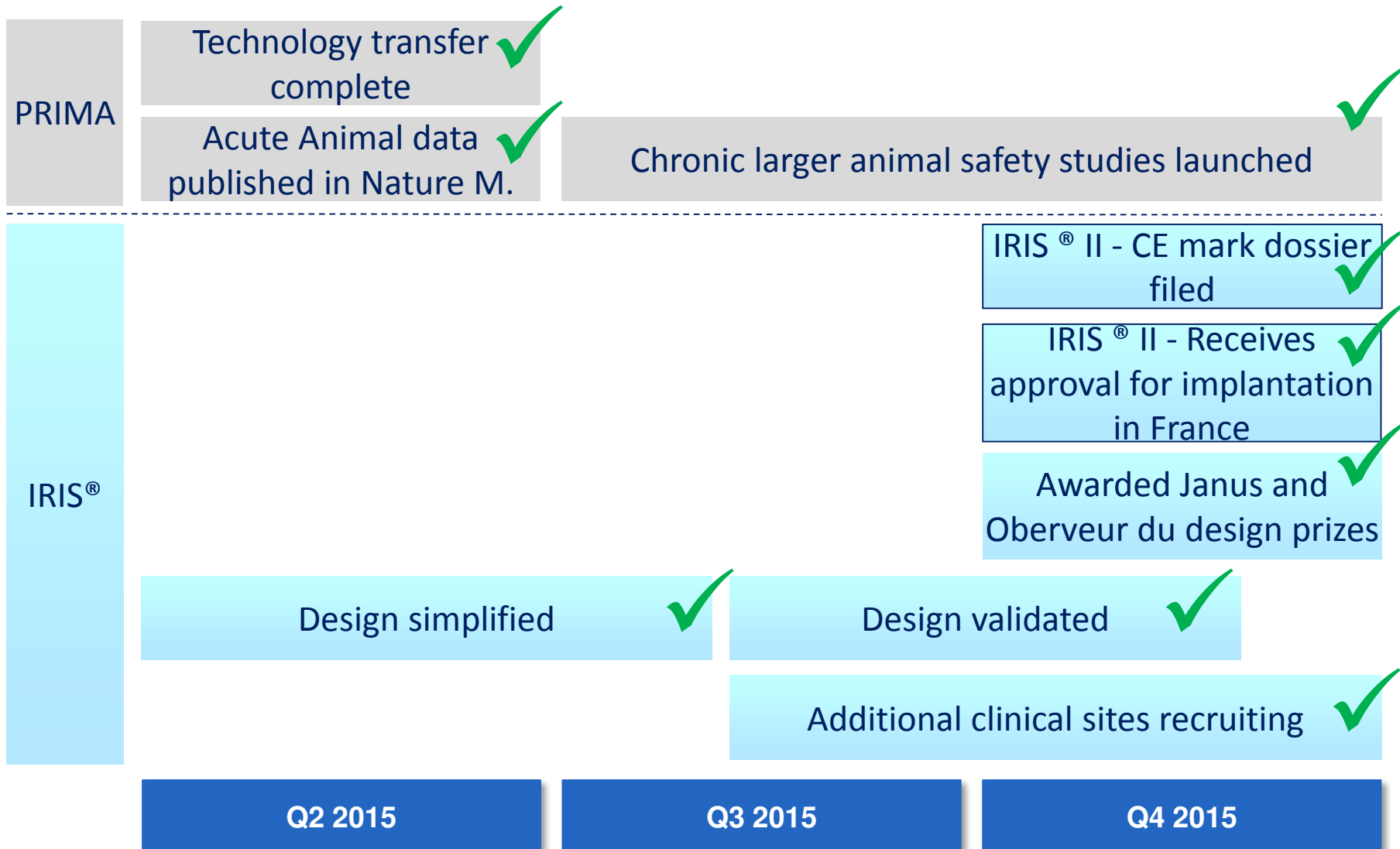
Giving sight, giving life : making an impact in lives of people who have lost their sight



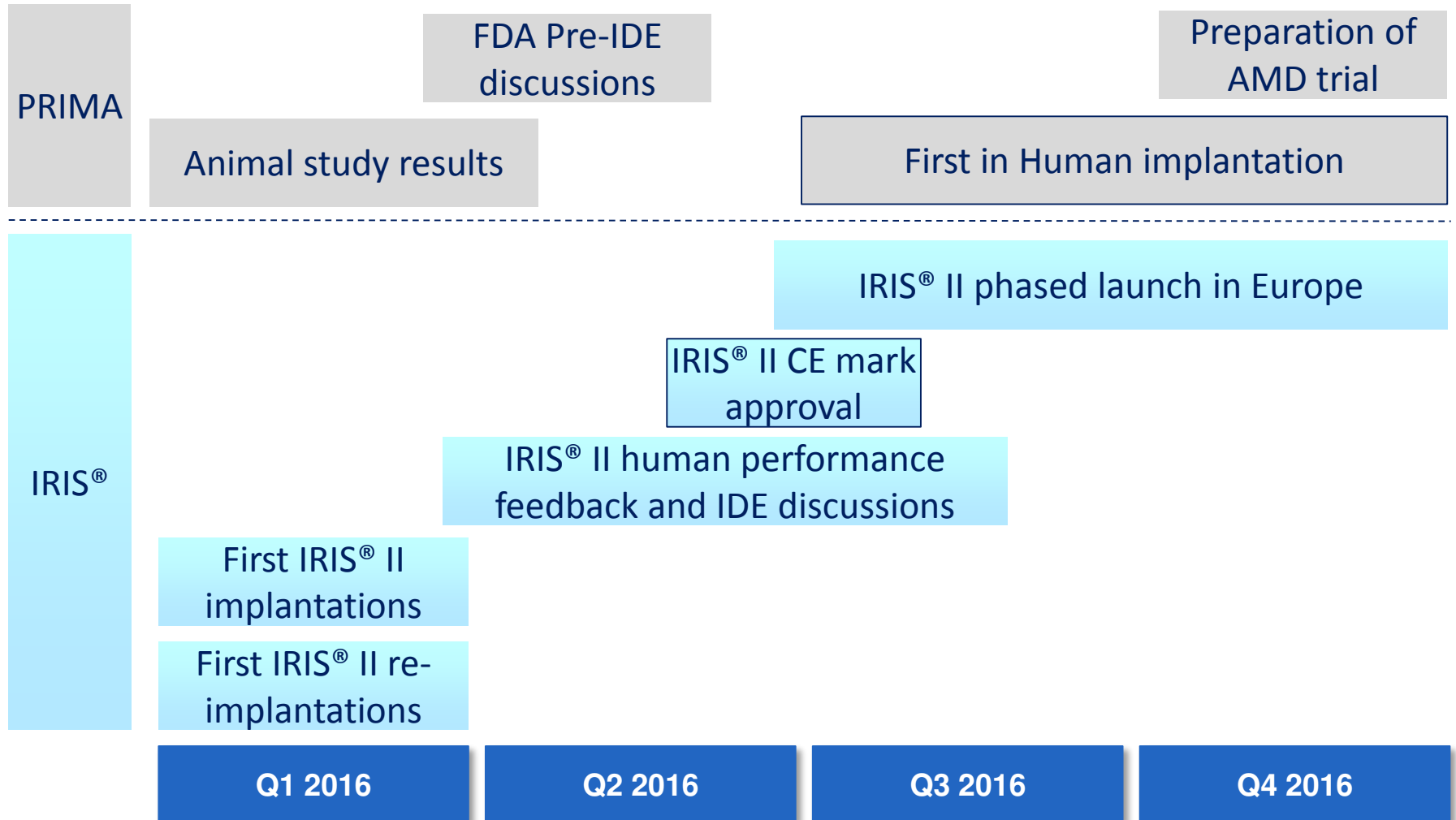


Continuing to move forward,
more to come

Execution accelerating throughout 2015...



... setting the scene for a rich 2016 newsflow





Pixium Vision is listed on Euronext (Compartment C) in Paris.
 ISIN: FR0011950641; Mnemo: PIX
 IRIS® is a trademark of Pixium-Vision SA



Thank You

Pixium-Vision.com



@PixiumVision
 #PixiumVision





1H 2015 - Update

Strong cash position with €28.1m in cash at September 30, 2015

Other operating income of the first nine months

<i>in thousand euros</i>	First nine months	
	2015	2014
Operating income / other income	2 652.0	1 564.3

Cash flow statement summary

<i>in thousand euros</i>	First nine months	
	2015	2014
Opening cash and cash equivalents	42 131.7	9 420.2
(Decrease) / Increase in cash position	(14 049.5)	33 383.6
<i>O/W net cash flows from operating activities</i>	(12 088.2)	(7 538.6)
Closing cash and cash equivalents	28 082.2	42 803.6

Strong cash position with €31m in cash at June 30, 2015

P&L summary

<i>in thousand euros</i>	H1 2015	H1 2014
Operating income / other income	1 737.7	1 104.1
Research and Development	(7 999.1)	(4 510.6)
General and Administrative	(1 766.5)	(930.1)
Operating income	(8 027.9)	(4 336.5)
Net profit	(7 953.8)	(4 325.7)
<i>Earnings per share</i>	(0.63) €	€ (0.62)

Cash flow statement summary

<i>in thousand euros</i>	H1 2015	H1 2014
Opening cash and cash equivalents	42 131.7	9 420.2
(Decrease) / Increase in cash position	(11 050.6)	32 383.4
O/W net cash flows from operating activities	(9 504.2)	(4 530.1)
O/W net cash flows from investing activities	(1 571.6)	(1 629.1)
Closing cash and cash equivalents	31 081.2	41 803.6



Thank You

www.pixium-vision.com

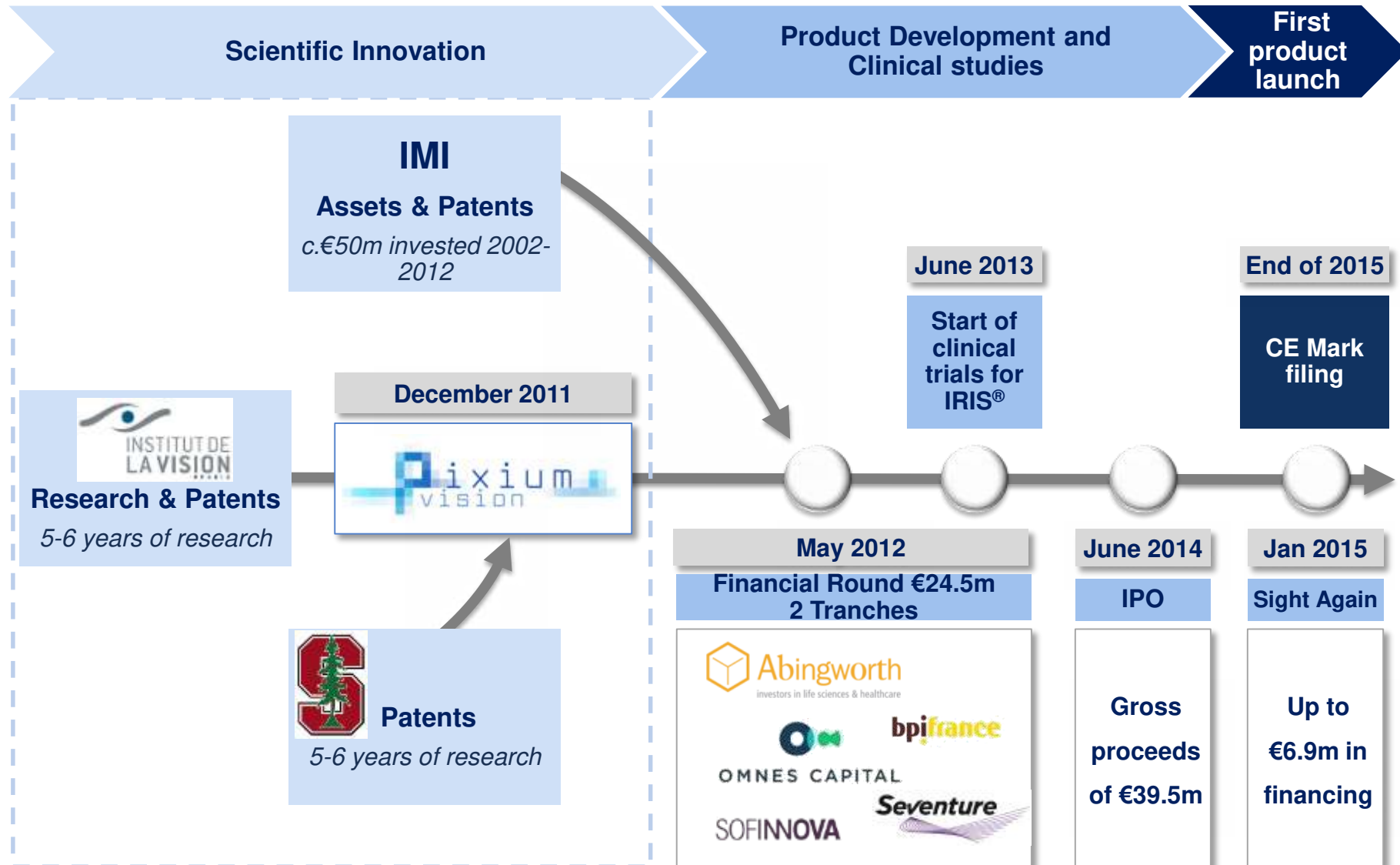


@PixiumVision


#PixiumVision





The Pixium Vision story relies on the convergence of technology and financing



With its technology, Pixium Vision is well positioned in the fast growing neuromodulation market

What is Neuromodulation?	Pathology/ Indication	Neuromodulation Technique	US <i>net*</i> prevalence
<ul style="list-style-type: none"> Induction of biological responses from electrical stimulation on nerves or zone where nerve activity is affected \$5Bn+ market by 2018 implying a high double digit growth rate (around 15%) 	Deafness	Cochlear Implants	1,000,000
	Parkinson's Disease	Deep Brain Stimulation	216,000
	Depression	Vagas Nerve Stimulation Deep Brain Stimulation	775,000
	Blindness 	Vision Restoration Systems	~175,000 RP ~ 200,000 AMD

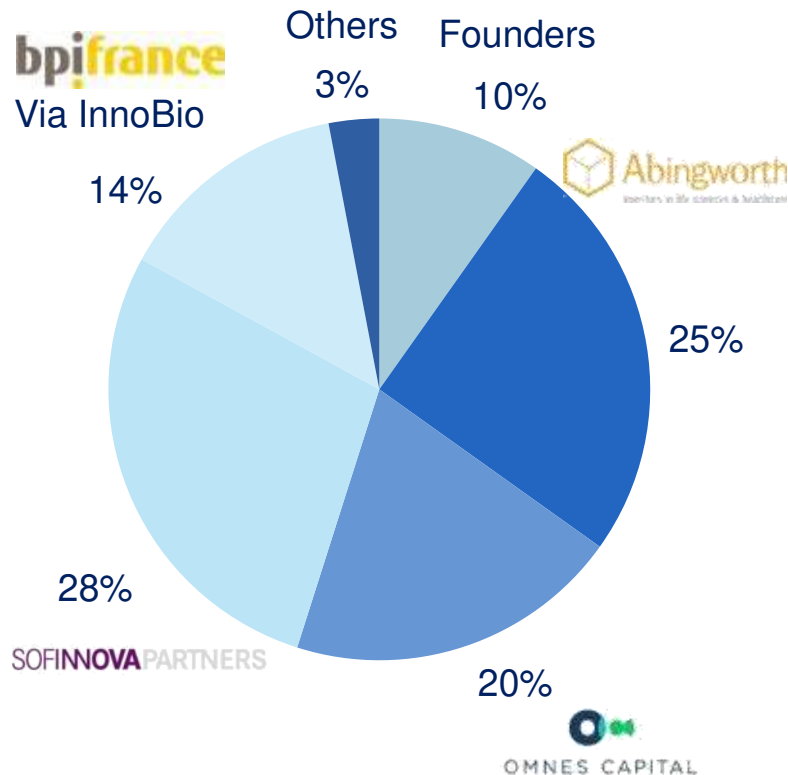
Source: NIH US Net prevalence patient data
US net* prevalence : patients eligible to implants

 Existing therapies
 Emerging therapies

Shareholder structure

Pre-IPO shareholder structure

On a non-diluted basis

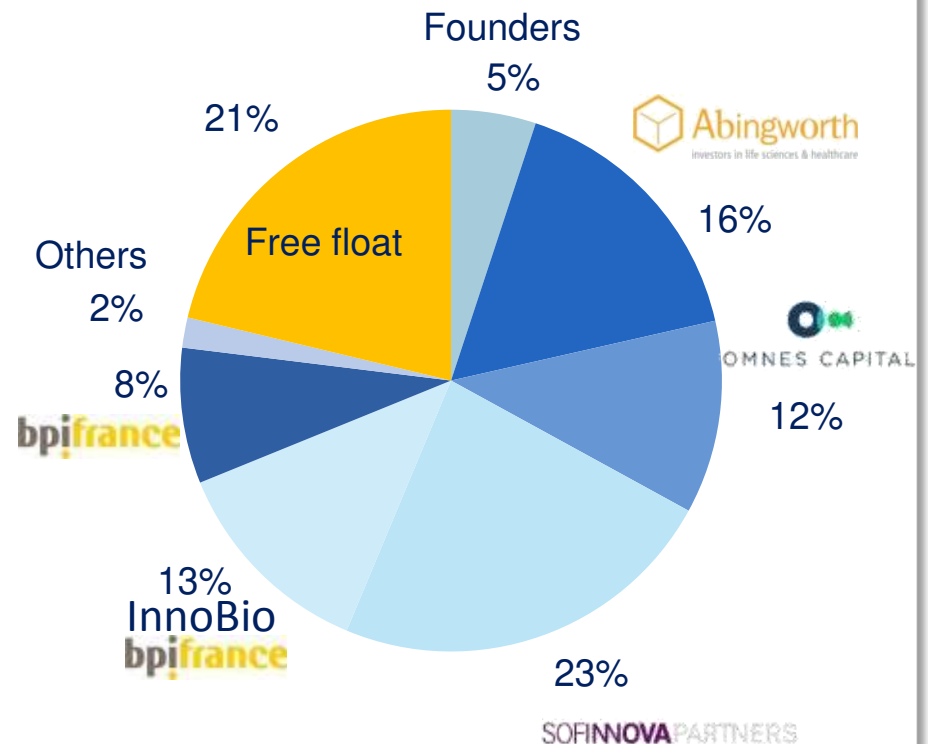


As of 8 April 2014





Post-IPO shareholder structure

On a non-diluted basis

(with full exercise of the extension clause and overallotment option exercised at 95.8%)



Competitive landscape

System	Number of Electrodes	Epi-Retinal Or Sub-Retinal	Features & Benefits	Clinical Results	Regulatory Status
	<ul style="list-style-type: none"> IRIS® : 50 to 150 PRIMA : several thousand 	<ul style="list-style-type: none"> IRIS®: Epi-Retinal PRIMA: Sub-retinal 	<ul style="list-style-type: none"> 2h surgery Explantable Neuromorphic Camera Tunable software 	<ul style="list-style-type: none"> Short term study on 19 patients 10 Patients CE mark study ongoing 	<ul style="list-style-type: none"> CE Mark filing end of 2015
	<ul style="list-style-type: none"> Argus II : 60 electrodes 	<ul style="list-style-type: none"> Epi-retinal 	<ul style="list-style-type: none"> CMOS camera 	<ul style="list-style-type: none"> Argus I: 6 patients Argus II: IDE on 30 patients 	<ul style="list-style-type: none"> Argus-II CE Mark Feb 2011 FDA HDE Feb 2013
	<ul style="list-style-type: none"> Alpha IMS 	<ul style="list-style-type: none"> Sub-Retinal 	<ul style="list-style-type: none"> Visual field of 12° Non explantable 	<ul style="list-style-type: none"> 11 patients from 2005 to 2009 30 patients CE mark 	<ul style="list-style-type: none"> CE Mark July 2013
	<ul style="list-style-type: none"> 500 electrodes 	<ul style="list-style-type: none"> Insufficient data 	<ul style="list-style-type: none"> No camera 	<ul style="list-style-type: none"> Launch scheduled for 2016 	<ul style="list-style-type: none"> Pre-clinical phase