



REGAINING VISION, REGAINING LIFE

Rodman & Renshaw conference New York: 9 – 10 September 2015

Disclaimer

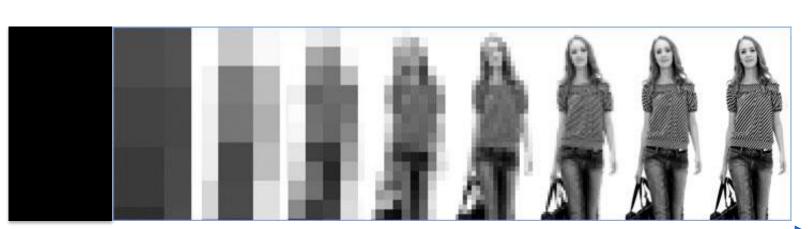
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Pixium Vision: our mission

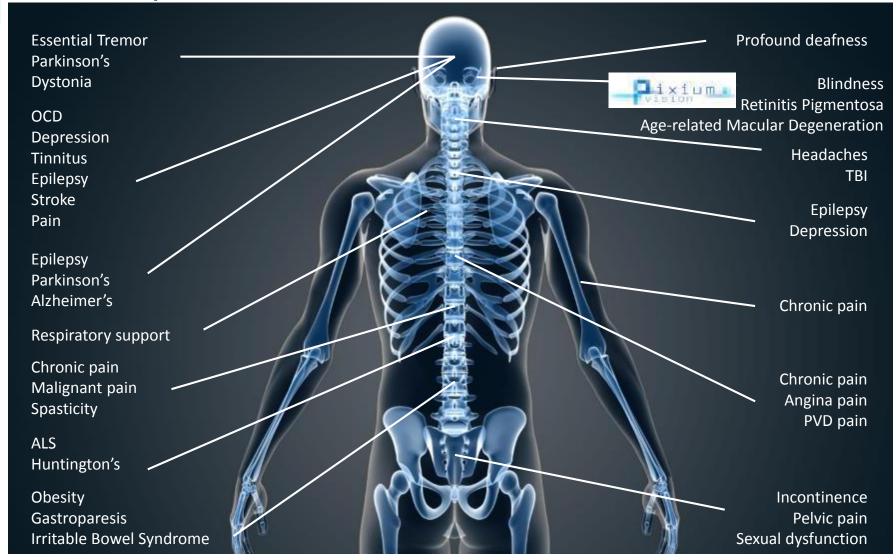


To provide the best-in-class vision restoration systems enabling the blind to regain greater autonomy





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
- Sofinnova (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,



Robert Hill,



Sylvie Murgo, IP Director





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 adressable >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



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: ~ 3540 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 occurence: 70+ years old
- Worldwide prevalence: 12 to 15 million
- Prevalence in the US + EU: 4 million
- Incidence (US + EU): 350k400k patients annually

Retinitis Pigmentosa is Pixium Vision's initial target market

Sources: World Health Statistics. World Health Organization -http://www.amd.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

Cornea

Cornea

Pupil

G

H

T

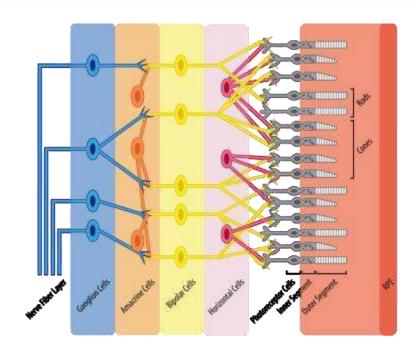
Ciliary body

Choroid

Retina

Optic nerve

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

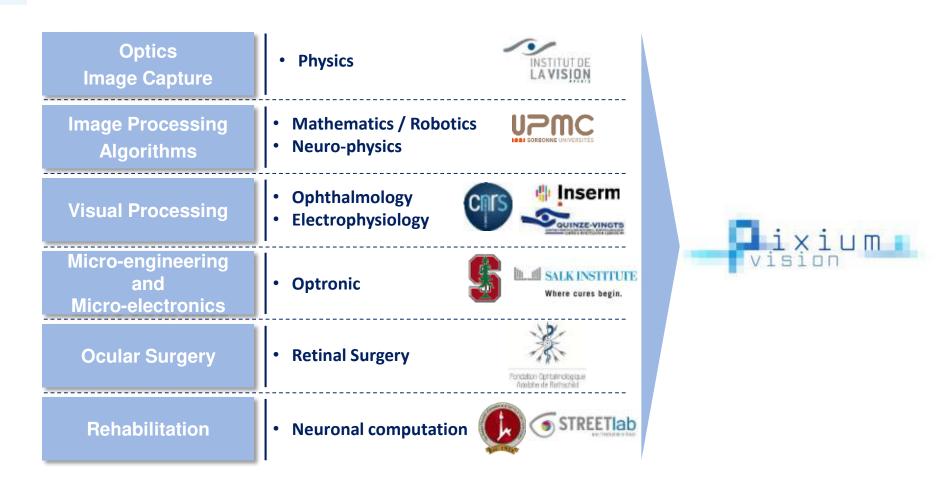




Pixium Vision

The convergence of excellence providing a solid intellectual property

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



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

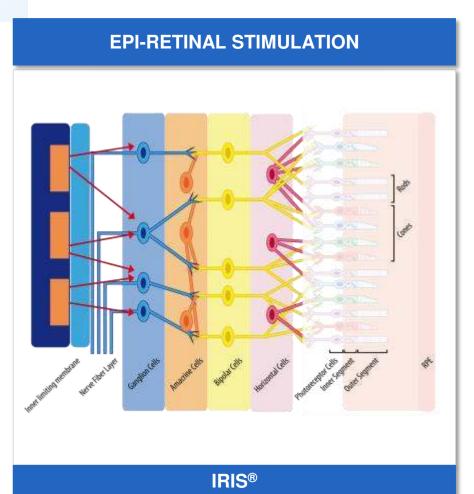


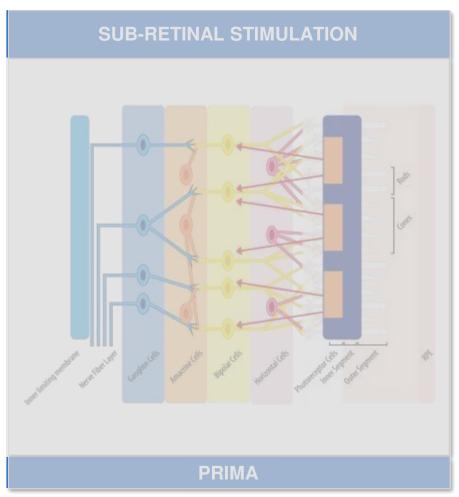


IRIS®

A state of the art Vision Restoration System

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



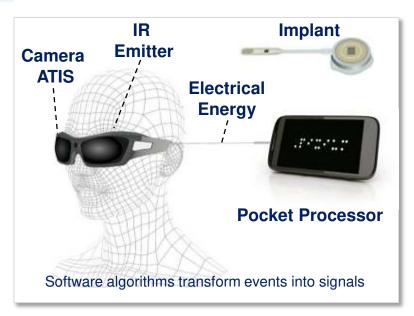


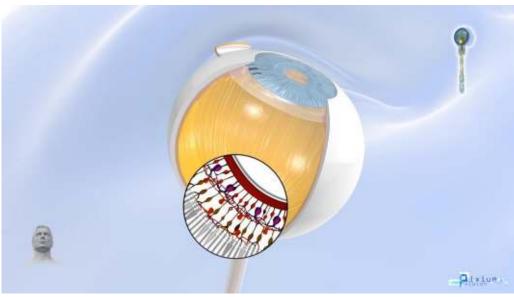




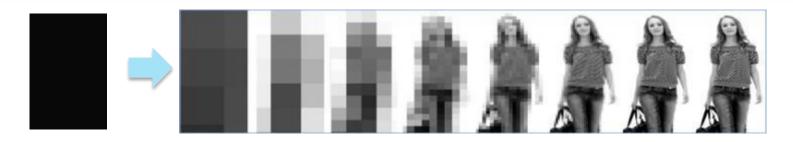


IRIS®, a technically advanced system targeting Retinitis Pigmentosa





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
	Camera	Neuromorphic Event Based	Frame Based	How the human brain works
Technology	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



IRIS®, illustration of smart design



Competitor

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

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



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



Spring does not allow for release of intraocular implant section

Patented: a key feature alloying 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

- Incidence, severity and duration of all adverse events at 4, 6, 9, 12 and 18 months
 - 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

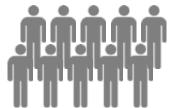


Sales team to reach a peak of 2 to 3 team members per country & sales admin employees



IRIS® path to the US market

Gather results from European clinical trial







2

File an Investigational Device Exemption (IDE)

- Pre IDE planed for 2015
- IDE for 2016
- Pixium Vision anticipates that FDA will require clinical results from at least 30 patients with 2 years followup





3

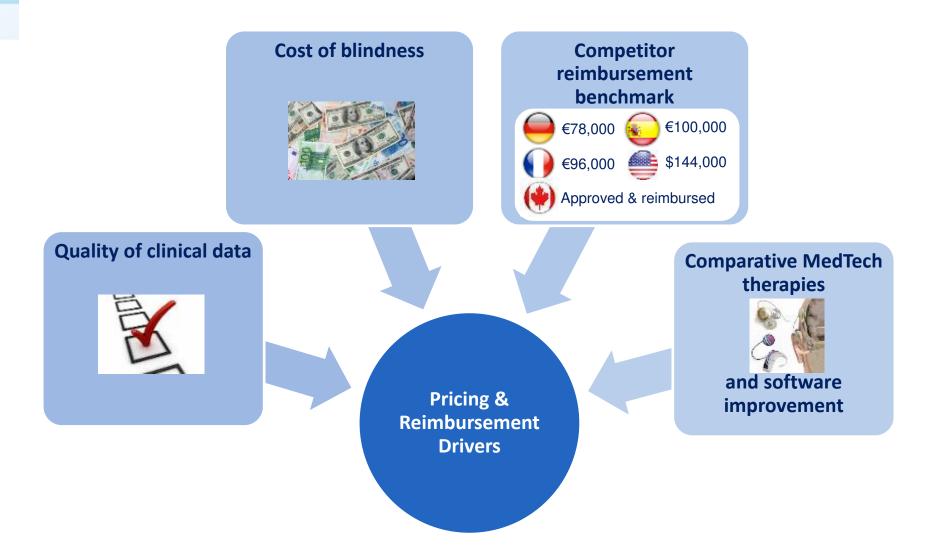
Obtain Pre-Market Approval (PMA)

 US launch of IRIS® to start 2019





IRIS® pricing and reimbursement drivers



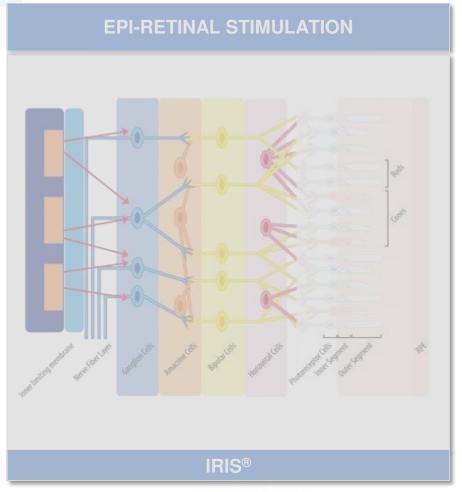


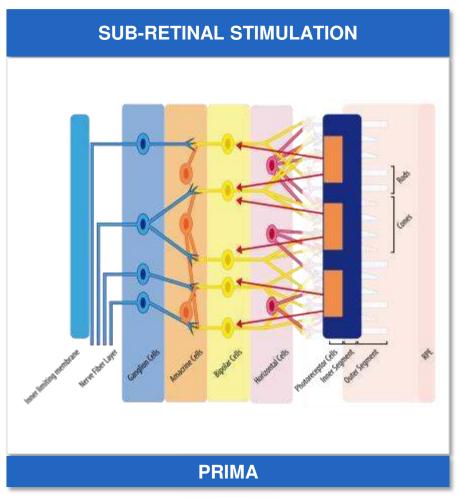


PRIMA Vision Restoration System

Building on IRIS® leading market position

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





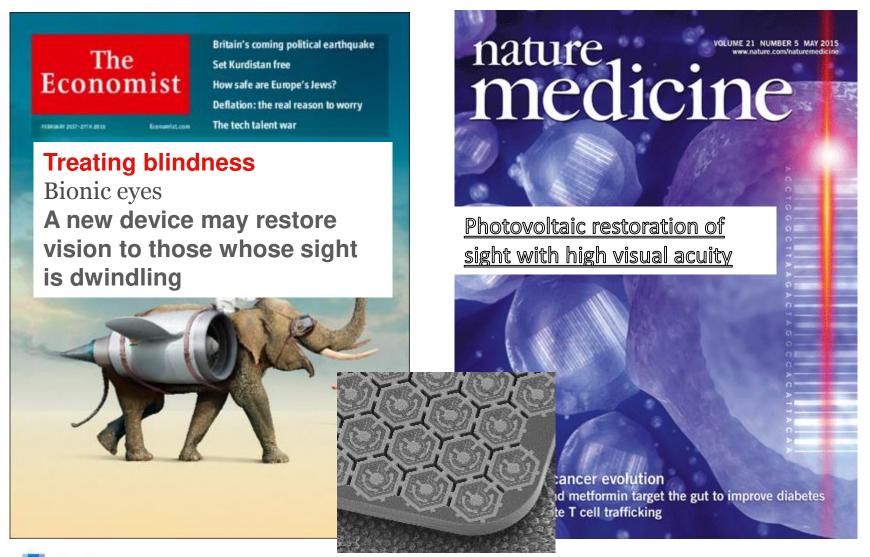






Treating Macular Degeneration AMD:

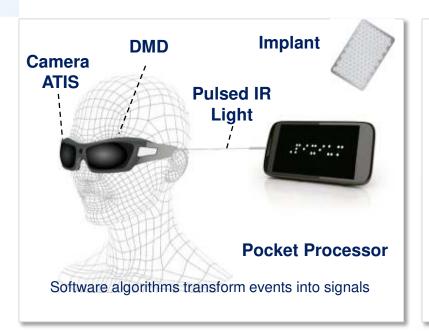
"Tiny implantable solar panels could help the blind see one day"

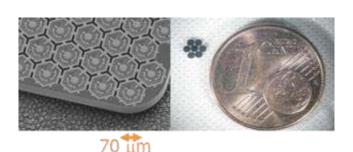




The PRIMA System, more optimal approach for AMD

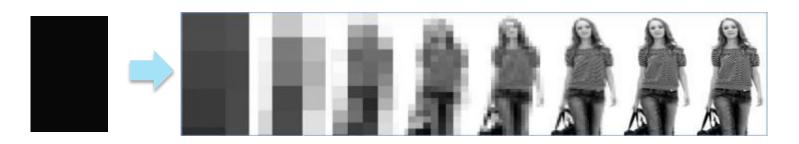
A technically advanced system designed to deliver further clinical benefits





- 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

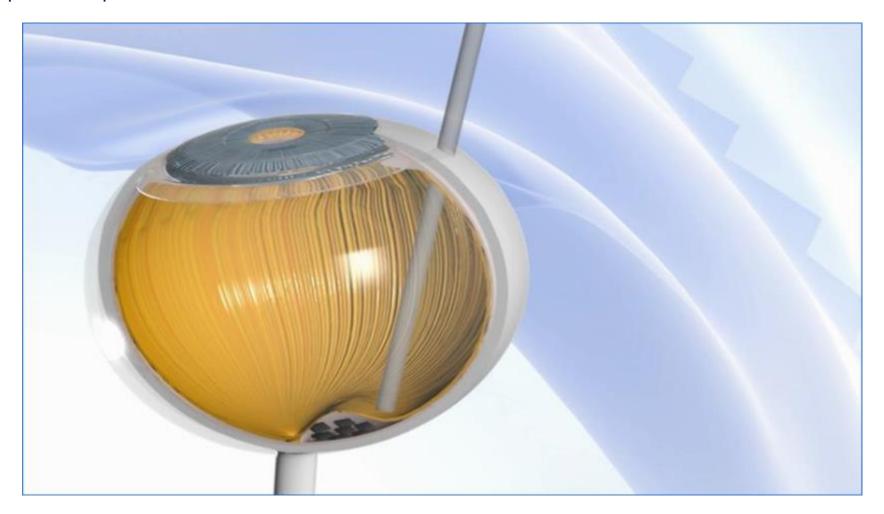
Goal is to deliver improved visual perception to the level of direct facial recognition





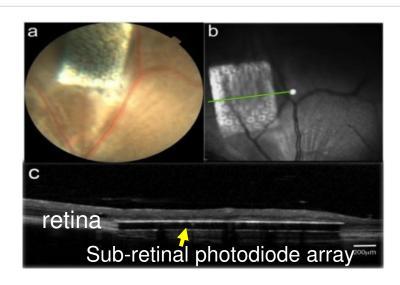
PRIMA, a sub-retinal implant

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

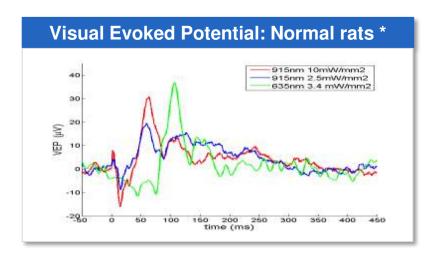


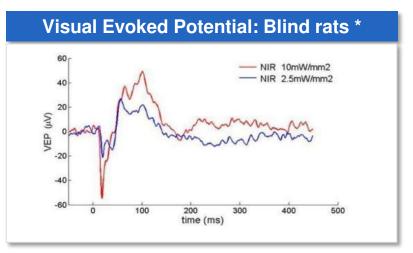


PRIMA: Validated in pre-clinical models



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





- Ref: J. Neural. Eng 9: 046014(2012)
- IEEE EMBS Neural Engineering Conference 22 April 2015
- Nature Medicine (2015) doi:10.1038/nm.3851 http://www.nature.com/nm/journal/vaop/ncurrent/full/nm.3851.html



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



PRIMA implant

photoreceptors

Inner nuclear layer

Ganglion cells (GCL)

Multi-electrode array (MEA)

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*



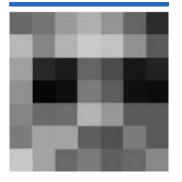


In short

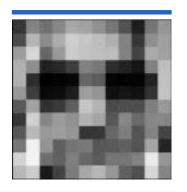
Pixium Vision Creating a world of Bionic Vision

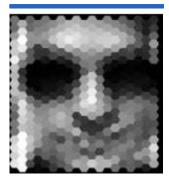


IRIS₅₀



IRIS ₁₅₀





PRIMA 1 chip 400 electrodes



PRIMA 4 chips

Today IRIS

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

Commercial Launch: 2016 in EU

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







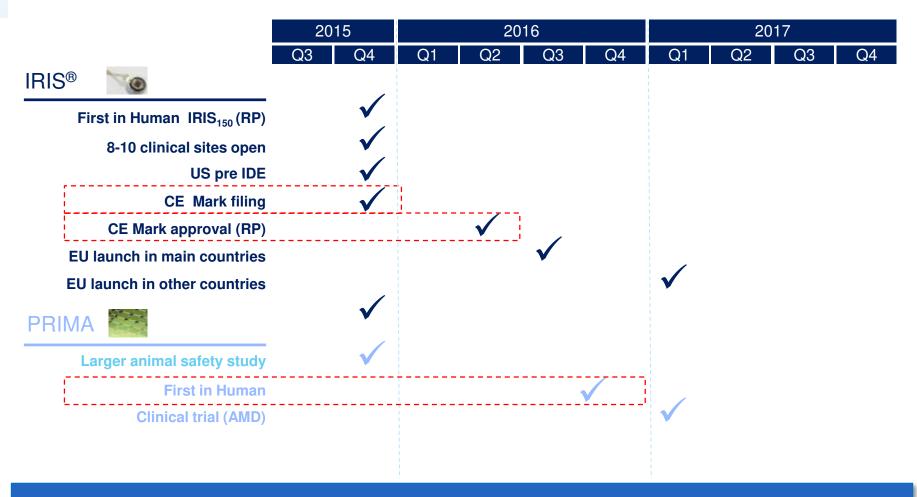
Continuing to move forward, more to come

Focus on project execution

IRIS® PRIMA Pixium Vision Technology transfer Management team Iris® ₁₅₀ manufactured complete complete and being validated Animal data published in Nature Medicine ISO 13485 approved Simpler design April 2015 Moved to new Additional clinical sites Tests started on larger premises recruiting animals On track for first-in-Patent opposition wins man in 2016 Externals industrialization Pre IDE preparation



Pixium to file IRIS® CE mark in Q4 2015; Prima first in Human in 2016



Multiple major value-creation milestones anticipated in the coming months





1H 2015 - Update

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

P&L	sum	mary
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in thousand euros	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)
Earnings per share	(0.63) €	€ (0.62)

Cash flow statement summary

in thousand euros	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

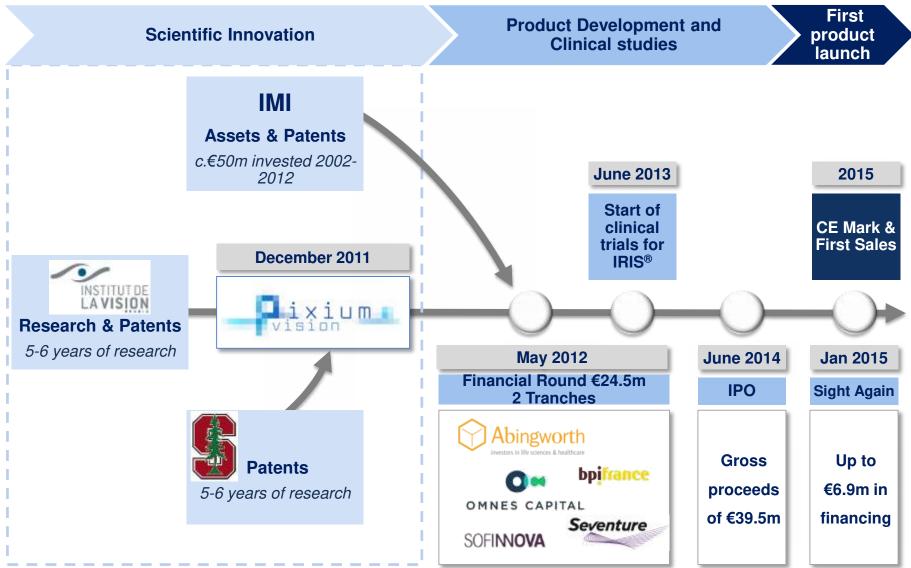




@PixiumVision
#PixiumVision



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?**

- 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%)

Pathology/ Indication	Neuromodulation Technique	US <i>net</i> * prevalence	
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	



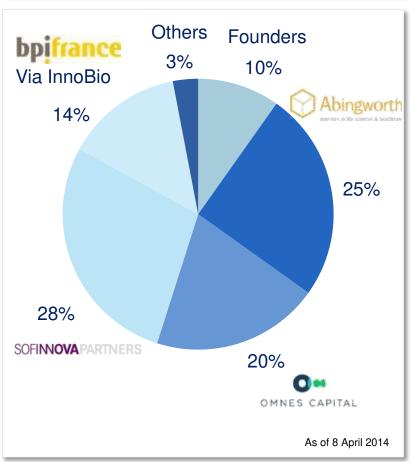




Shareholder structure

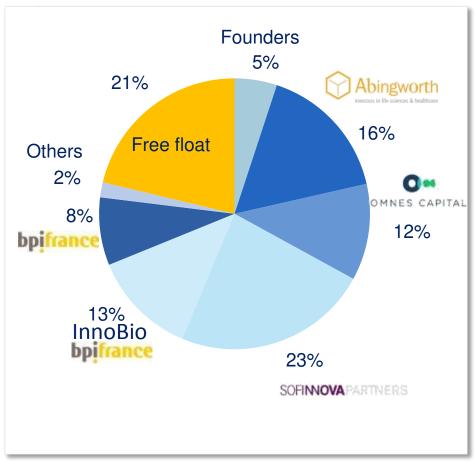
Pre-IPO shareholder structure

On a non-diluted basis



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
Pixium Puixium	 IRIS®: 50 to 150 PRIMA: up to 5000 	 IRIS[®]: Epi-Retinal PRIMA: Sub- retinal 	 2h surgery Explantable Neuromorphic Camera Tunable software 	 Short term study on 19 patients 10 Patients CE mark study ongoing 	• CE Mark filing end of 2014
Second Sight	Argus II : 60 electrodes	• Epi-retinal	CMOS camera	Argus I: 6 patientsArgus II: IDE on 30 patients	 Argus-II CE Mark Feb 2011 FDA HDE Feb 2013
retina implant	Alpha IMS	• Sub-Retinal	Visual field of 12°Non explantable	11 patients from 2005 to 200930 patients CE mark	• CE Mark July 2013
Na Retina	• 500 electrodes	Insufficient data	No camera	 Launch scheduled for 2016 	• Pre-clinical phase

