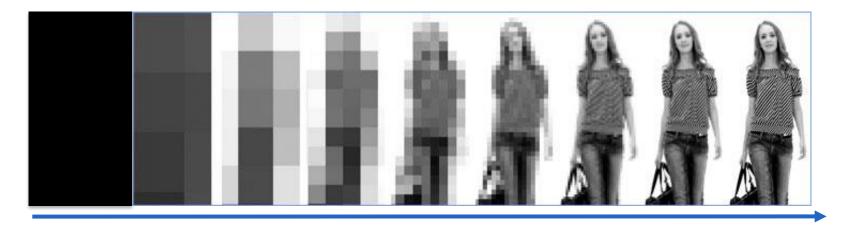
Our mission



To create a world of bionic vision for those who have lost their sight





Solving blindness from macular degeneration: a major market opportunity



- 285 million people in the world are visually impaired
- 40–45 million people in the world are totally blind





- 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 occurence: 70+ years old
- Worldwide prevalence: 12 to 15 million
- Prevalence in the US + EU: 4 million
- Incidence (US + EU): 350k
 400k patients annually

Attractive addressable >1 Billion Euro + market opportunity*

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

* Company Estimates

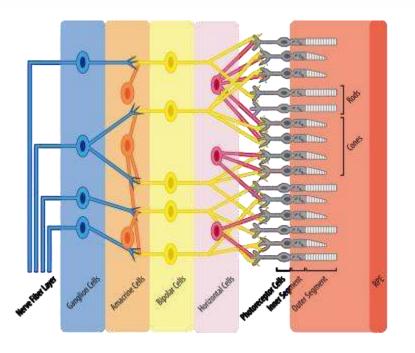
The loss of the photoreceptor function is a major cause of blindness

The eye transforms light into electric signals

 Hein
 Pupil
 Pupil

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

Photoreceptor degeneration does not affect the rest of the retina



- 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



Establish Pixium Vision as a leader in bionic vision system (BVS)

Two differentiated systems:

- IRIS[®]II CE marked, for Outer Retinal Degeneration (e.g. Retinitis Pigmentosa)
- PRIMA to expand the market opportunity with dry AMD

2 The only company with 2 proprietary <u>retinal</u> implant systems

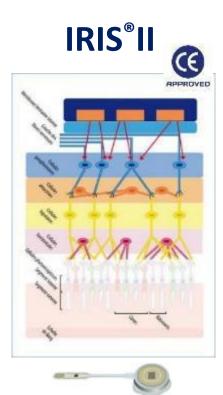
- An eco-system of global scientific & technological excellence
- Intellectual Property & Know-How : Over 250 patents

Experienced and dedicated management executing the strategy



3

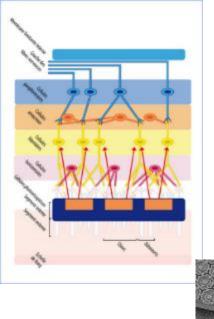
Establish Pixium Vision as a leader in bionic vision system (BVS)



Visual interface and Pocket processor



PRIMA



Commercial Launch

- Epi-retinal implant in clinical with novel proprietary Neuromorphic sensor
- Aim for higher resolution with 150 electrodes

FIH Feasibility study submission

- Sub-retinal miniaturized wireless photovoltaic implant
- Aim for Facial Recognition
- Aim for dry-AMD



An experienced management team

Khalid Ishaque, CEO



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

Didier Laurens, CFO



- 18 years experience in Corporate Finance / Financial Markets
- Korian Director IR, Group Financing & Treasury
- Financial Analyst (SGCIB, Oddo)

Guillaume Buc

Karine Chevrie RA/QA Dir.







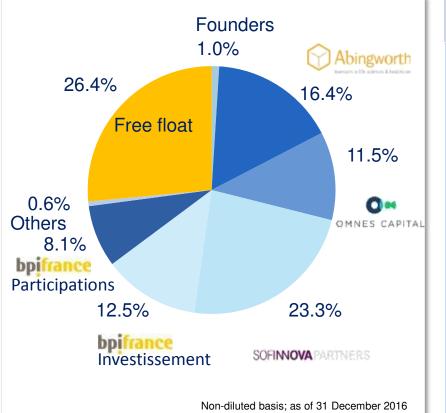
Ralf Hornig *Clinical Affairs Dir.*







Shareholder structure – Board of Directors



Board of Directors B. Gilly (Chairman) K. Ishaque (CEO) BPIfrance Participations – M. Ferrere BPIfrance Investissement – C. Louafi J. Reinstein (independent) R. W. Ten Hoedt (independent) Kreos Capital (Observer) Sofinnova Partners (Observer) T. Haines (Observer)

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



IRIS®II: A clear path to market *Aiming for a leading market position*

IRIS[®]II an innovative epi-retinal 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[®]II: An innovative and distinctive epi-retinal bionic vision system

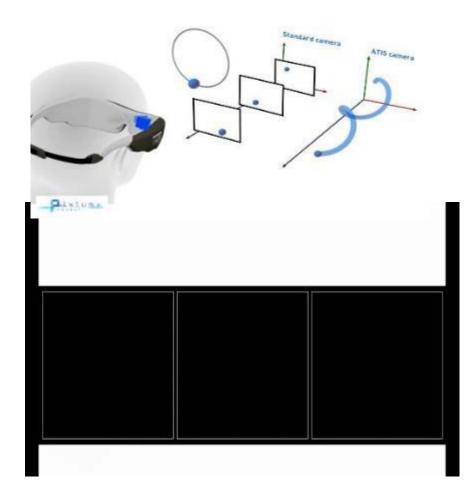
	Device Features	IRIS®II	IRIS [®] Advantage	
Technology	Camera	Neuromorphic Event Based	Mimics the human retina	
	Patient Programming - Tuneability	Yes	All patients respond and learn differently; IRIS is flexible to patient needs	
	Number of Electrodes	150 electrodes	3x more than IRIS®I	
Surgery	Surgical Procedure	Possible within 2.5 hours	Shorter surgery	
	Explant and Replacement	Yes	Technology is always evolving and improving; patients need the option of upgrading to new technologies in the future	



Visual Interface with Smart Bio-inspired Neuromorphic (Event Based) Camera

Camera features :

- Breakthrough bioinspired camera: mimics normal vision in real time.
- Neuromorphic asynchronous, event-based: light is encoded into asynchronous impulses (-1,0,+1): Reduces energy consumption and processing bandwidth
- Output relates directly to signals observed in the corresponding levels of biological retinas
- Wireless energy and data transmission



How Neuromorphic Image Sensors Steal Tricks From the Human Eye



12

Indicative Post-Surgery Training Protocol

- As artificial vision with visual prosthesis will vary from that offered by the functional visual system, it is necessary to provide users with adequate training for useful vision
- The recommended training facilitates the adaptation of the visual cortex to artificial phosphene images, so that the user may use the device more effectively for daily living
- Four primary training protocols are recommended to help facilitate adaption

Camera switch-on takes place 4-5 weeks after surgery and is followed by 1 training session of up to 4 hours each week for 6 months



Square Localization Training

- Users learn to identify the location of a square on a screen (five different quadrants)
- Minimum required training: 1 hour



Grating Training

- Users learn to distinguish between separated lines with decreasing gaps between lines
- Minimum required training: 1 hour



Direction of Motion Training

- Users are trained to identify moving objects
- Minimum required training: 30 min



Picture Test Training

- Users are eventually moved up to object and shape recognition training
- Minimum required training: 30 min

The patient pathway



Turning on the camera

The patient learns to differentiate between true and false perceptions

Location of objects and estimation of size, shapes

Exercises contrasting objects on black background (table)





Direction of movement

Bar that moves horizontally, vertically or diagonally

Contrast sensitivity

Learning to discriminate the contrasts between white, black and gray





xium I

Internal orientation and mobility test

External orientation and mobility test



Readaptation and Reeducation





Clinical Trial of IRIS[®] Has Demonstrated Safety and Efficacy

Open-label, non-randomized, multicenter, prospective, first-in-human clinical study to evaluate safety and performance of the IRIS[®]I system

Patients and Schedule Assessment	Patients with retinitis pigmentosa, choroideremia and cone-rod dystrophy (n= 8) Examinations every 3 months up to 18 months for each patient	
Primary Endpoint	Number of adverse events as a measure of safety and tolerability Based on a series of ophthalmological examinations (i.e. funduscopy, slit lamp and OCT) after implantation	
Secondary Endpoint	Probable benefit Grating visual acuity, light localization and contrast sensitivity tests performed before / after the implantation	

Safety and Tolerability

- Number of adverse events:
 - 1 month average: 1.1 (n=8)
 - 6 month average: 1.1 (n=8)
- Main adverse events:
 - Conjunctival erosion
 - Retinal tear
 - Hypotony

Efficacy

- Pre-implantation: logMAR > 2.7 in all patients
- Post-implantation Device is active:
 - 5 patients with a measurable visual acuity
 - Average logMAR of 2.0
 - Best logMAR of 1.3
 - 3 patients with no measurable visual acuity
- Post-implantation Device is NOT active:
 - All patients except one with logMAR > 2.7



IRIS[®]II Pricing & Reimbursement Considerations Post CE Marking



Planned Pricing for IRIS[®] II of €80-100k € in EMEA

Countries with Fast-track Reimbursement Programs

Germany:

(1) Argus II pricing

S100

U M 📕

- NUB reimbursement granted;
- On-going discussion with selected hospitals
- Sales representatives hired
- France "Forfait Innovation"
- UK: Accelerated review pathway

Other Target EMEA Countries

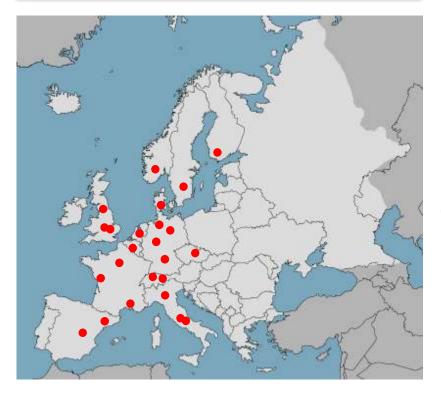
- Spain:
 - No fast-track program
 - Hospital-based decision to grant access to reimbursement
 - Sales representatives hired
- Middle Eastern Countries:
 - Access through local distribution agreements
- Other EU countries, including Eastern Europe

IRIS[®] II is expected to be reviewed and approved for standard reimbursement access based on longer term safety and efficacy data

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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

- KOL engagement:
 - Doubling the number of centers since end 2015
- Discussions with patient associations in every targeted country
- Participation in major scientific and medical conferences
 - Active participation at ARVO, Euretina, Eye and the Chip...









PRIMA Sub-retinal Wireless Bionic Vision System

Treating Macular Degeneration dry AMD : "Tiny implantable solar panels could help the blind see one day"



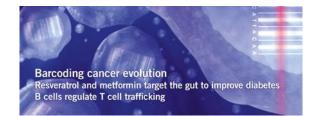
Treating blindness

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





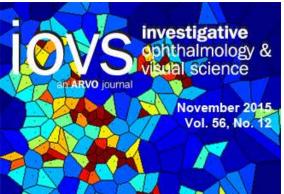
Photovoltaic restoration of sight with high visual acuity



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

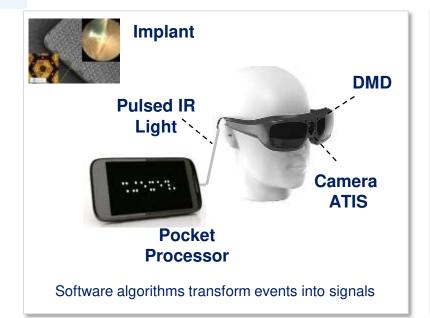


Investigative Ophthalmology & Visual Science November 2015, Vol.56, 7444-7450. doi:10.1167/iovs.15-17521 http://iovs.arvojournals.org/article.aspx?articleid=2474145&res ultClick=1



The PRIMA System, optimal approach for dry AMD

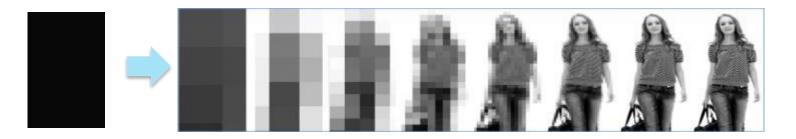
Next generation technology designed to deliver further clinical benefits





- 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

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

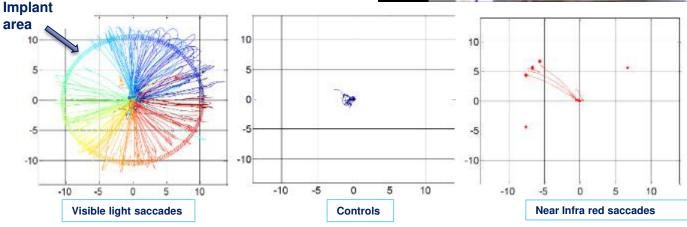




Pre-clinical Testing - Behavioral Studies

- Implanted RCS rats reacted to prosthetic stimulation by startling (freezing) response (fear response) to NIR flashes.
- This response was absent in the age-matched nonimplanted RCS rats as well as in implanted Long Evans rats, indicating that it is mediated by the implant and that remaining natural vision in Long Evans rats at room lighting conditions negates startling response.



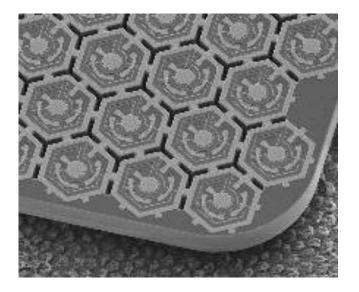


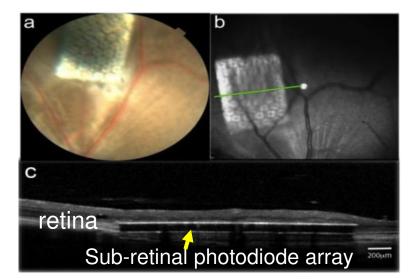
Results: Primate responded to IR stimulation on the implant with spot sizes allowing single pixel stimulation (100um), demonstrating visual perception of those patterns. Achieved at energy levels well below safety limits required for human applications.



PRIMA: preparing the first clinical steps

- Scale-up of manufacturing process ongoing
- On-going discussions with regulatory bodies





First in human expected in 2017





FY 2016 Financials

FY 2016

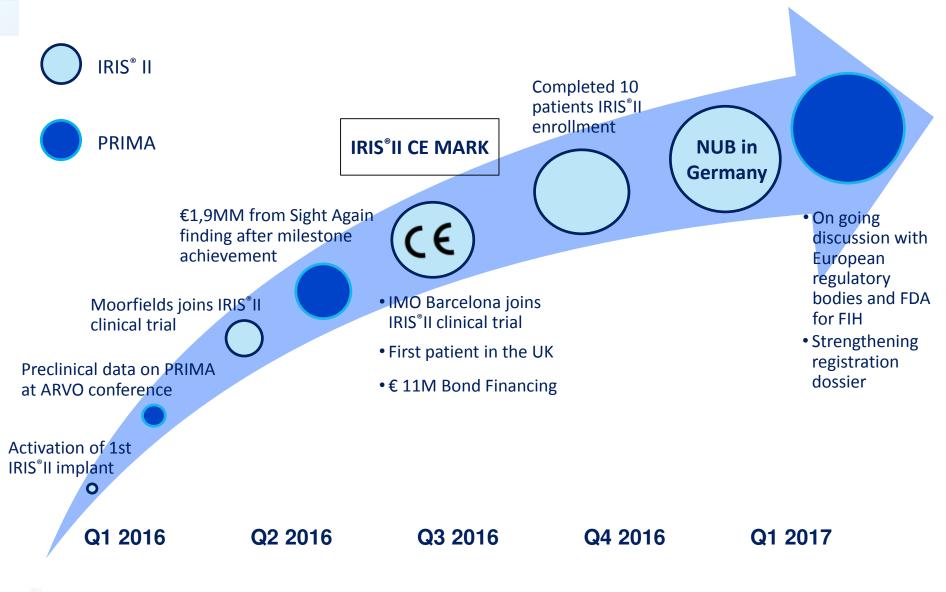
P&L summary		
in thousand euros	2016	2015
Revenue / other revenues (*)	2,515.9	3,293.3
Operating expenses	(15,014.7)	(18,992.8)
Cost of Goods Sold	(141.0)	-
Research and Development	(10,869.4)	(15,169.0)
Selling, General and Administrative	(4,004.4)	(3,823.9)
Operating income	(12,498.9)	(15,696.5)
Net profit	(12,440.8)	(15,644.4)
Earnings per share (*) O/W Research Tax Credit	(€0.98)	(€1.23)
Cash flow statement summary		
in thousand euros	2016	2015
Opening cash and cash equivalents	24,353.8	42,131.7
(Decrease) / Increase in cash position	(10,109.7)	(17,777.9)
O/W net cash flows from operating activities	(11,129.9)	(15,532.1)
O/W net cash flows from investing activities	(148.5)	(2,298.9)
O/W net cash flows from financing activities	1,168.7	53.0
Closing cash and cash equivalents	14,244.2	24,353.8





Pixium's steady development

Pixium Vision delivers major milestones



ixium vision **Pixium Vision short term focus**



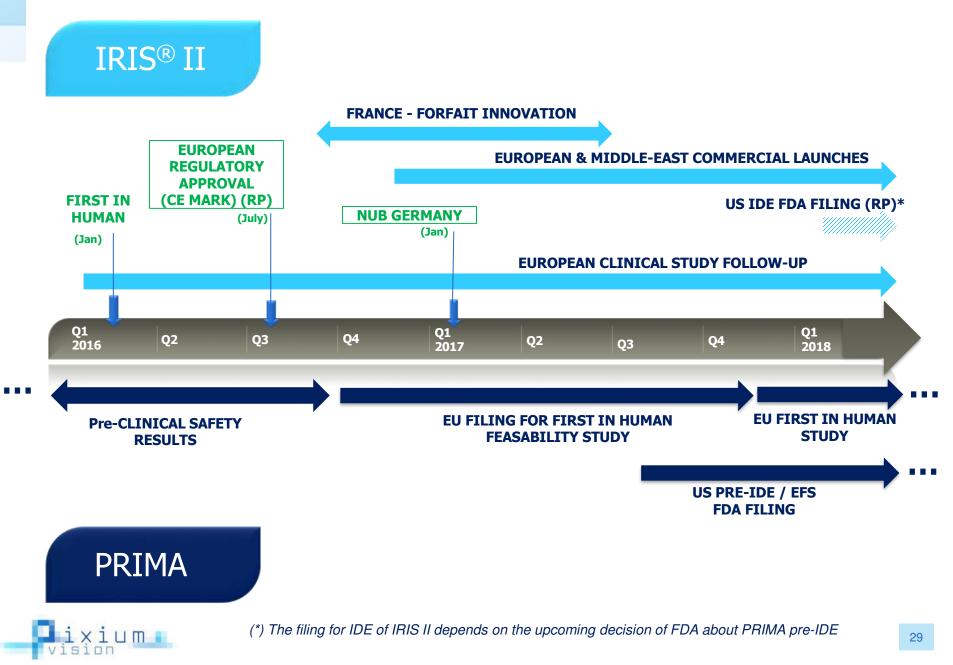
Commercial launch and first sales



Clinical feasibility approval and first implantation in Human



Next milestones for IRIS®II and PRIMA



Pixium Vision: impact on the life of those who have lost their sight



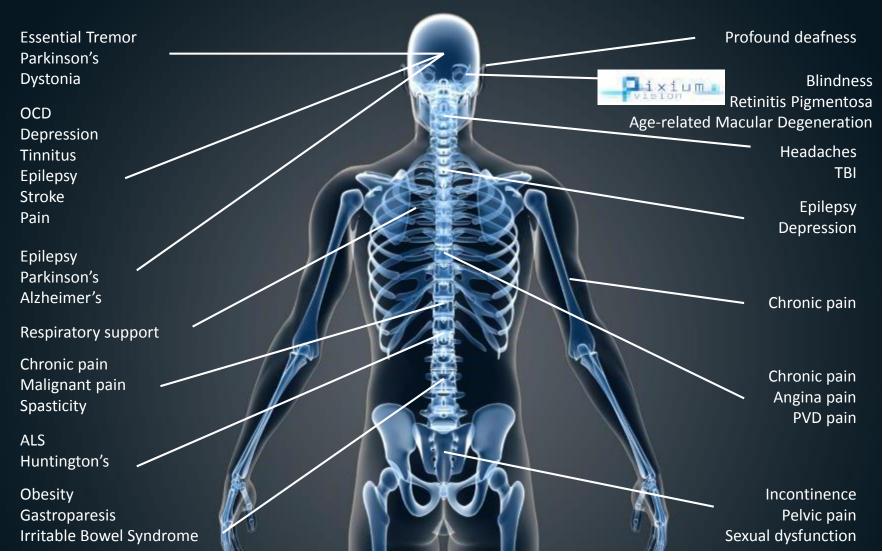
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Appendices



Pixium Vision: pushing new frontiers of "neuromodulation"





Induction of biological responses from electrical stimulation on nerves or zone where nerve activity is affected

Successful implant of 1st patient in UK at Moorfields Eye Hospital in London in October 2016

EveningStandard. News Football Going Out Lifestyle Showbiz Homes & Property ES Magazine





Testimonials from the two first implanted patients





Disclaimer

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