



WELCOME



ADVANCED IMAGE SENSOR FEATURES FOR DEMANDING APPLICATIONS

How can we make it affordable?

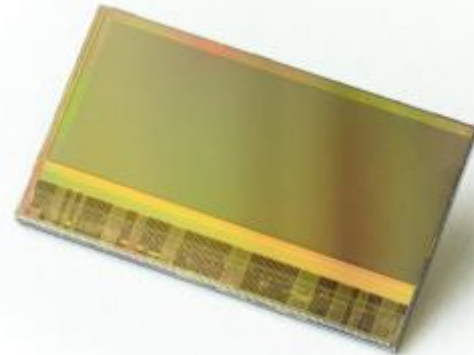
Philippe Rommeveaux (philippe.rommeveaux@pyxalis.com)
President & CEO

About Us



*The custom image sensor Solution
that perfectly fits Your needs*

Pyxalis specializes in design services and custom solutions development and sales for advanced CMOS image sensors serving a wide range of applications from niche to high volume markets



Company History



LAUNCH

2010

CIS design house

10 people

NEW LOCATION

2014

In Moirans, France



NOW

ISO 9001: 2015 certified

28 people, hiring

The Team!

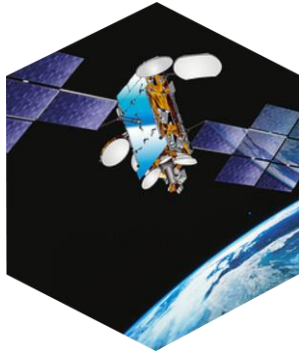


Our Partners

A solid ecosystem !



Applications we're in



AEROSPACE



VIDEO SURVEILLANCE



MACHINE VISION



BIOMETRICS



MEDICAL IMAGING



FOOD SORTING



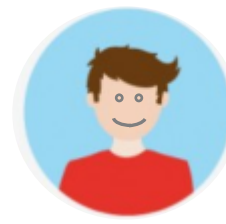
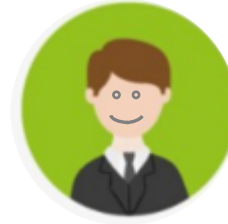
DIGITAL PHOTOGRAPHY



AERIAL PHOTOGRAPHY

... Happy Customers

100% enjoying their experience with Pyxalis!!



...

How do we serve them?

Using advanced features



B-to-B developments

CUSTOMER REQUIREMENTS

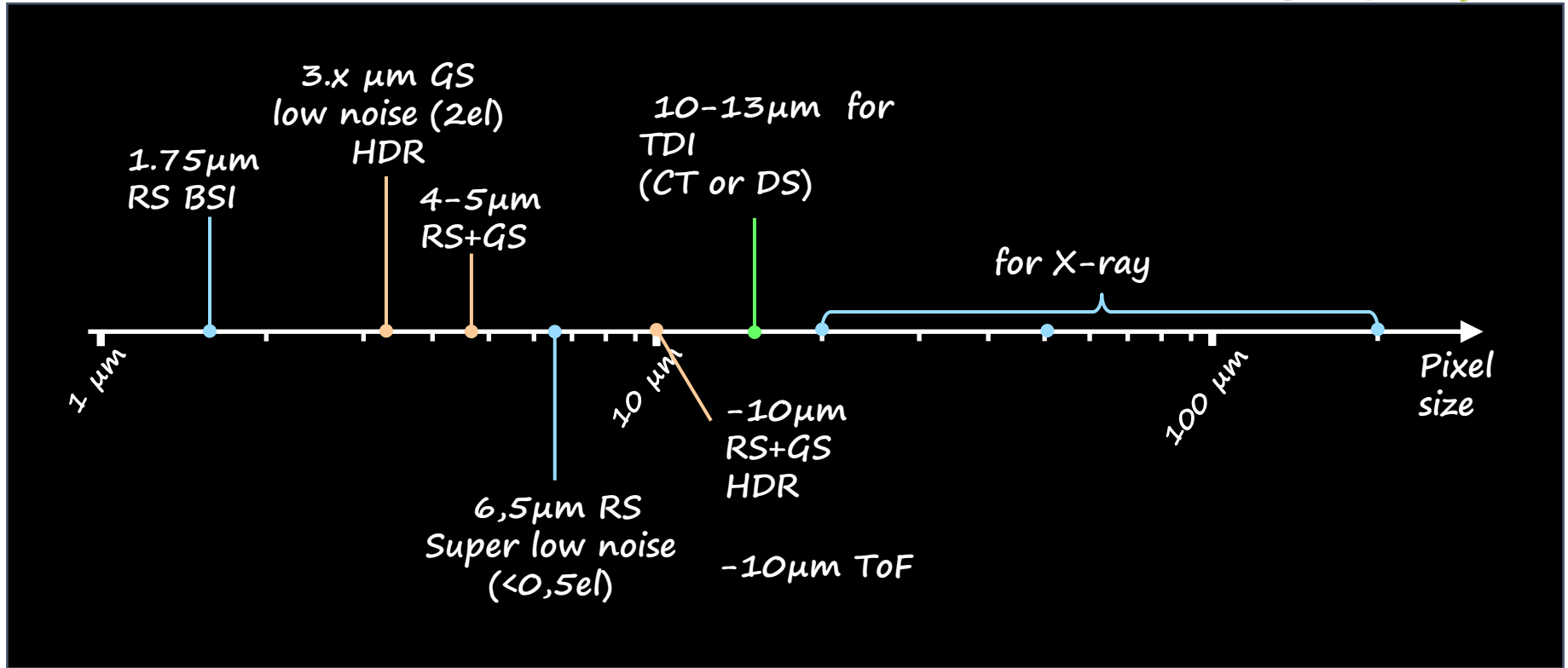
CUSTOMER FUNDING

EXCLUSIVE

SOLUTION A

For differentiated solutions

Sensor portfolio from pixel view



CREAPYX

Pixel Evaluation Platform

ULTRA FLEXIBLE

FEATURES

- pixel sizes from $<1\mu\text{m}$ to $>500\mu\text{m}$
- pixel architectures (3T, 4T, 5T ...shared)
- Ultra low noise pixels
- FSI and BSI circuits
- Full timing adjustment

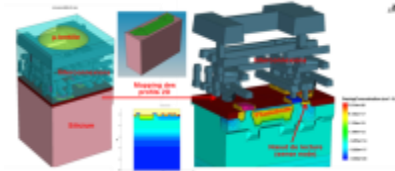
TARGETS

- Pixel innovation
- Securing product development when using new pixel
- Customer demonstration

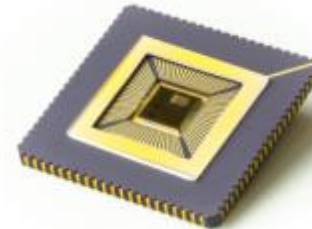
A UNIQUE FAST & FLEXIBLE
PIXEL DEVELOPMENT & DEMONSTRATION PLATFORM

OPEN ACCESS TO CREAPYX THROUGH LICENSING

www.pyxalis.com



Creapyx



Enlarging use of advanced sensors



B-to-B developments

CUSTOMER REQUIREMENTS

SOLUTION B

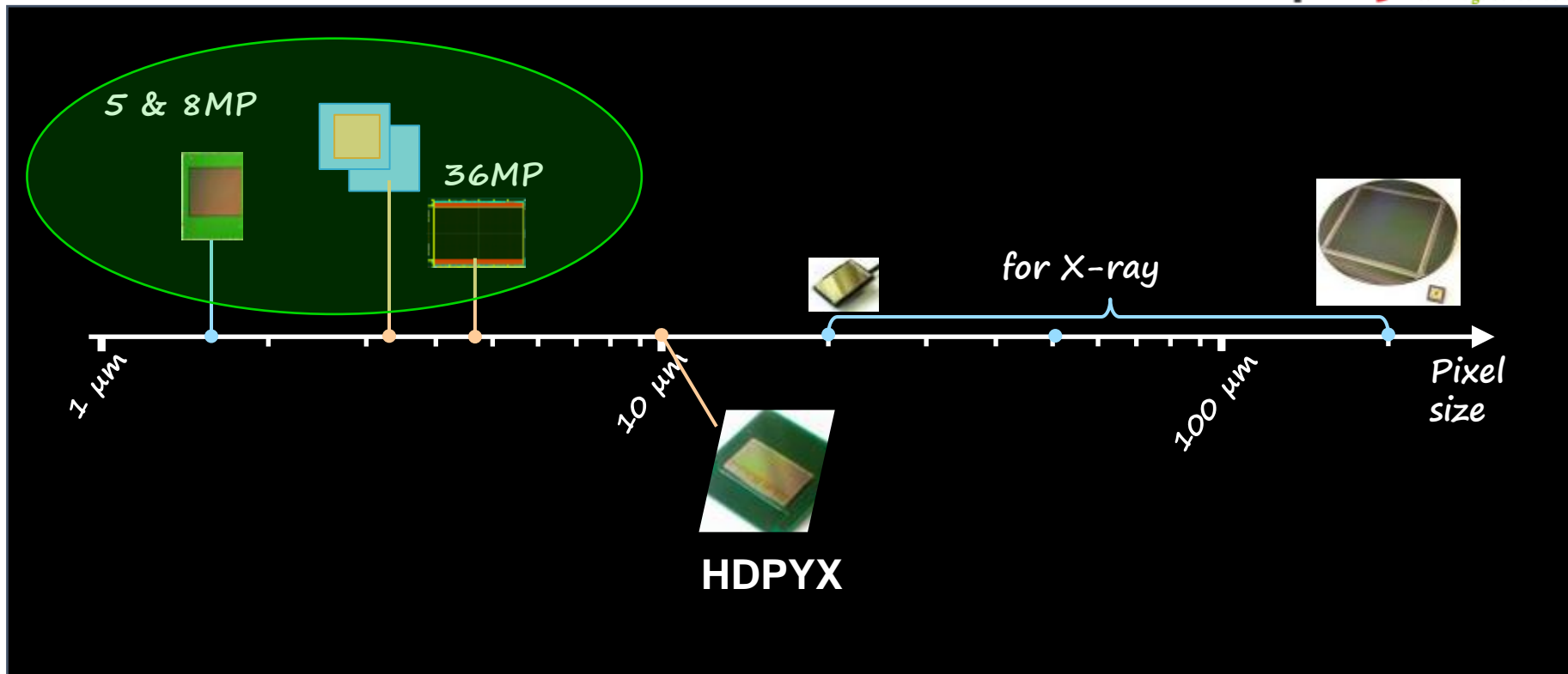
CUSTOMER FUNDING

WITH SOME RETURNS ON RESALE

EXCLUSIVE

**ON A PARTICULAR DOMAIN BUT
RESALE OK OUTSIDE**

Platform concept

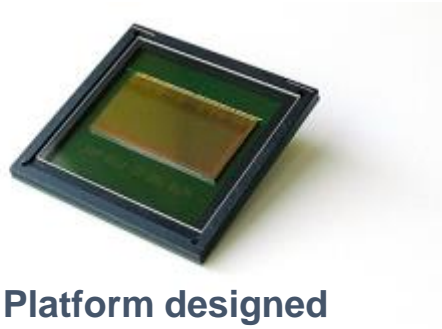
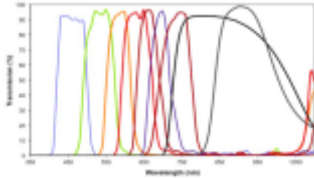


HDPYX

1st platform success



MULTISPECTRAL/SPECTRO APPLICATIONS



Platform designed
to be flexible and quickly
modified with limited effort

10µm pixel

14bit ADC

HDR up to 120dB

1100 rows x 2900 col.

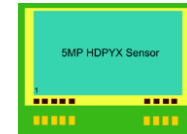
www.pyxalis.com



CUSTOM DICING



LARGER 5MP VERSION



NIR OPTIMIZATION



DIRECT XRAY

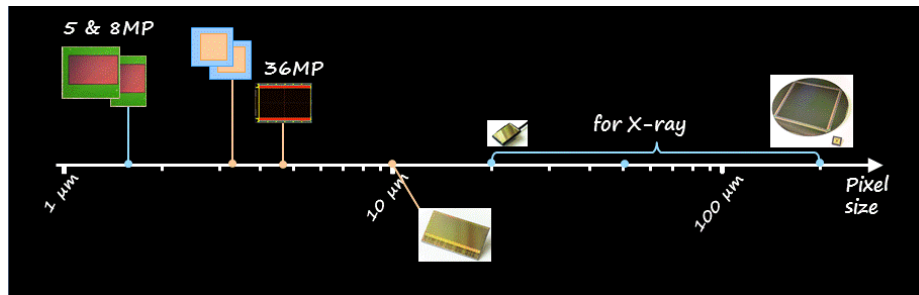
With ultra thick EPI (2017)



BSI for UV QE ENHANCEMENT

...

How to make new highly performing platforms available?



B-to-B dev

CUSTOMER REQUIREMENTS

CUSTOMER FUNDING

EXCLUSIVE

unique solution

The solution:

B-to-nB

www.pyxalis.com

Off-the-shelf

NO CUSTOMER initial FUNDING

NO DIFFERENTIATOR

B to nB

a CO-... approach

CO-
SPECIFYING
FUNDING
EXPLOITATION



THE PROJECT

CUSTOMER A



APPLICATION A

EXCLUSIVE

CUSTOMER B



APPLICATION B

EXCLUSIVE

CUSTOMER N



APPLICATION N

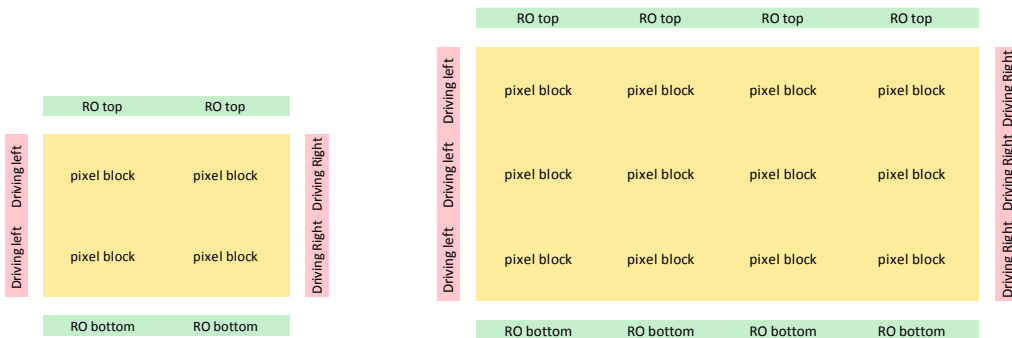
EXCLUSIVE

SOLUTION C

NEW PLATFORM DEFINITION



Name	Resolution	Pixel pitch	Dynamic range	Frame rate
High Resolution platform	Variable: from 30MP to 150MP	~4,5µm	#90dB and +	>>120fps in 35mm format



PROJECT TIMELINE:
 -Specification phase started
 -Prototypes available in 2018

THE HR PLATFORM

Applications



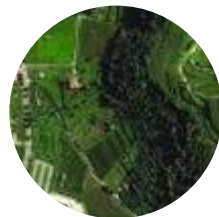
AEROSPACE



CINEMA



MACHINE VISION



**AERIAL
PHOTOGRAPHY**



**TRAFFIC
MONITORING**

EARTH OBSERVATION



YOU?



Summary

HR platform

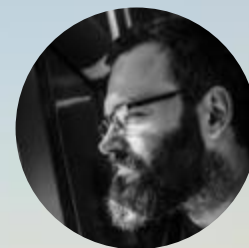


Pyxalis capabilities
Sensor reuse

Thank You!



SOPHIE CARANHAC (COO)



BENOIT DUPONT
(Biz Dev Manager)