



FORESIGHT.
FIRESIGHT.

Vittorio Bianco
Biagio Mandracchia
Teresa Cacace

v.bianco@isasi.cnr.it

b.mandracchia@isasi.cnr.it

t.cacace@isasi.cnr.it



Seeing through the flames: finding solutions

24.210

Average civilian deaths in
the world per year**

234.675

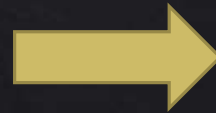
Firefighter calls in Italy during 2015 *



159/75.895

Average Firefighter deaths/injuries
in the world per year **

A suboptimal solution:
Thermocameras



Our product:

IRIS

IRIS Infra-Red Innovative Sensors

Security imaging systems for clear vision through smoke and flames



Standard Thermocamera

IRIS camera

Safety brought to the field

IRIS

- Active illumination
- IR sensor network
- Emergency management software



Fixed installations:

- Airport security, emergency landings
- Public buildings surveillance
- Industrial production sites
- Tunnels: prevention of secondary accidents

Mobile installations:

- Firefighting
- Defense, Homeland security
- Emergency management

Potential Costumers

Entities who need to offer their own clients a solid sense of security



Airlines



Highways



First responders



Transportation



Surveillance



Defense Departments

Strategic Partners



Competitive advantages

	IRIS	IR thermographic sensors (FLIR,...)	Visible light cameras (GoPro,...)
Vision through Flames	✓	-	-
Vision through smoke	✓	✓	-
Temperature measurement	✓	✓	-
Night-vision	✓	✓	-
Easy to use	✓	✓	✓
Flexibility	✓	✓	✓
Fixed and portable installations	✓	✓	✓

Barriers to competition

- ❖ First to Market with See-Through-Flames Cameras
- ❖ USA Patent
- ❖ Technologically expert team
- ❖ External experts support through the "Aerospace Tech Challenge"

Team



Vittorio Bianco, CEO

4+ years experience in Advanced Imaging
7+ years experience in Numerical Processing

Biagio Mandracchia, CTO

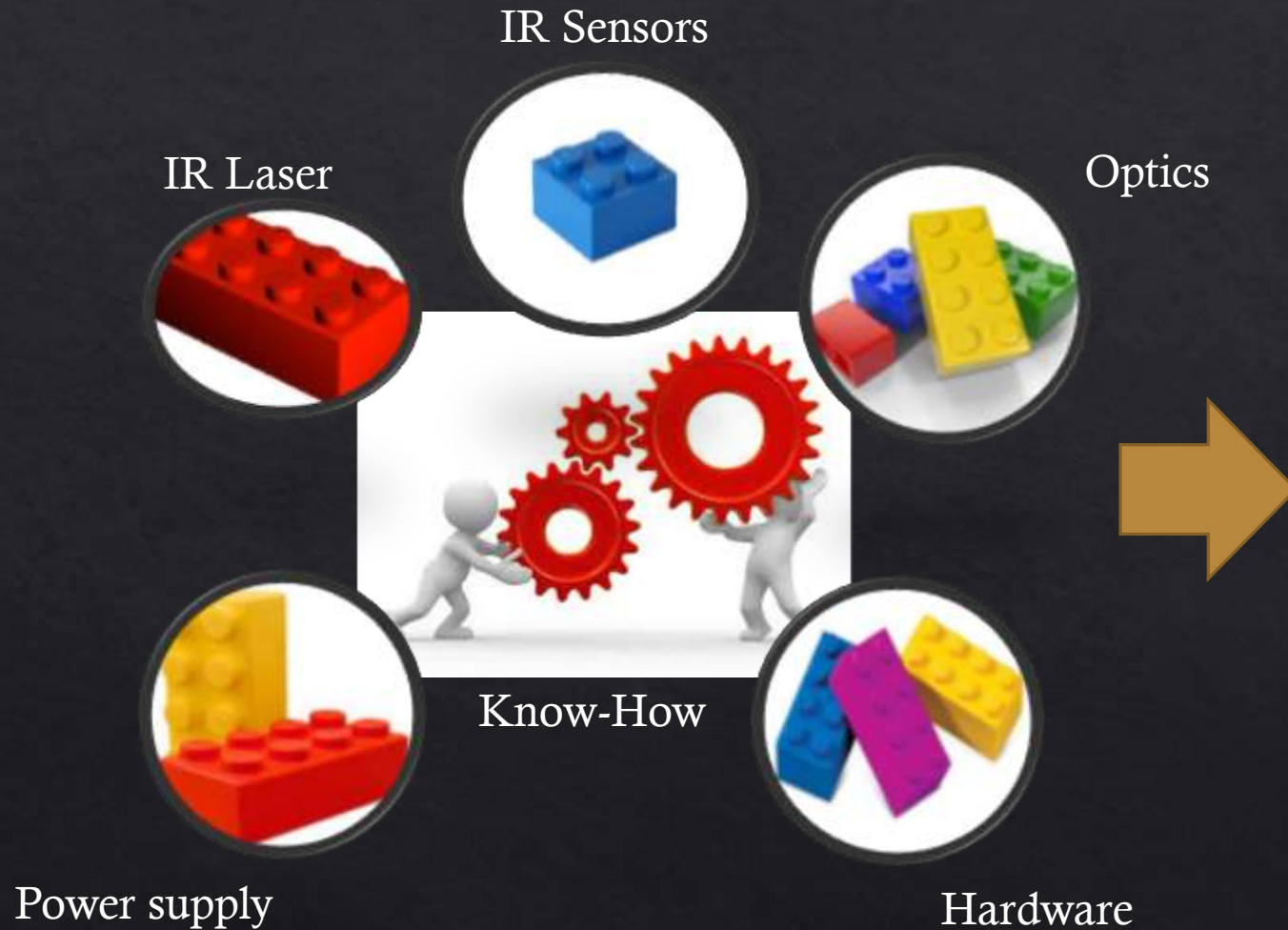
7+ years experience in Applied Optics
Advanced Imaging Systems design



Teresa Cacace, CSO

2+ years experience with Photonics and Electro-Optics devices
She works on the development of Innovative Infrared Imaging Systems

Revenue model

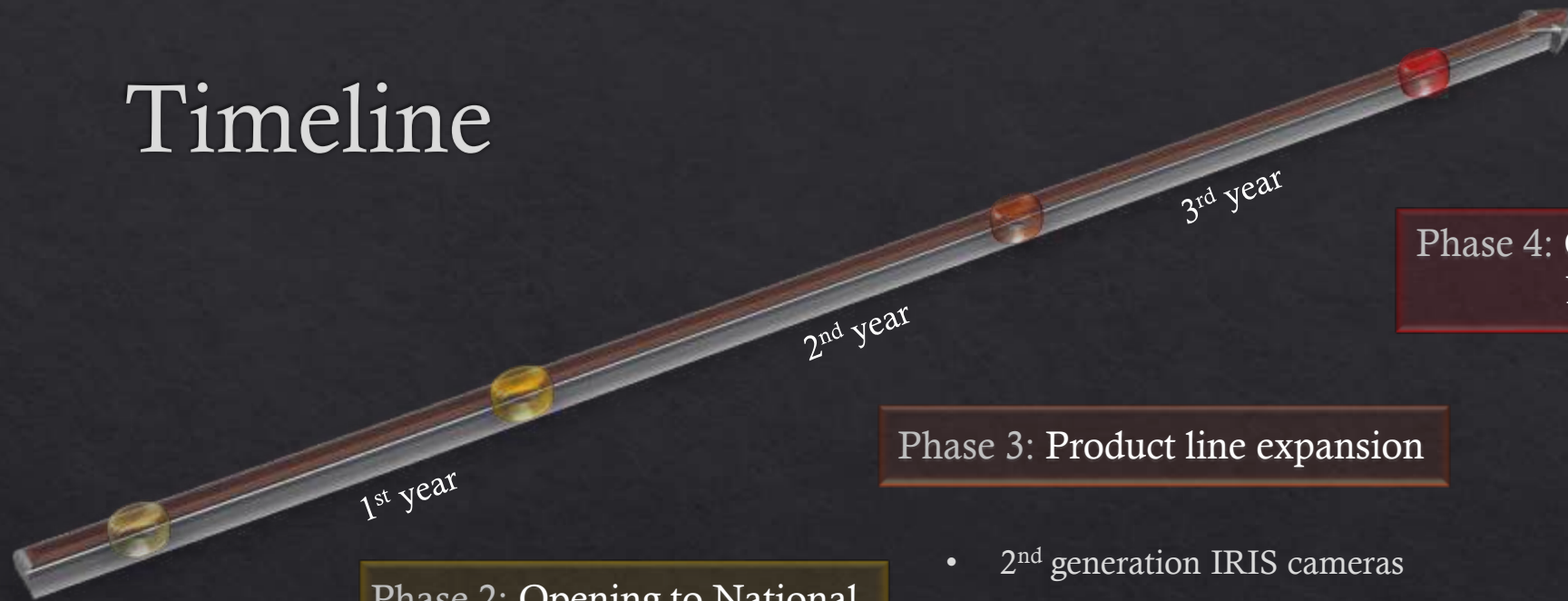


Final product



The final product price is subjected to changes, based on the personalization level and on the client profile.

Timeline



Phase 1: Production Start

- Final prototyping
- 1st generation IRIS cameras
- European certification



Phase 2: Opening to National Markets

Phase 3: Product line expansion

- 2nd generation IRIS cameras (smaller, cheaper,...)
- IRIS Holocams prototyping
- 1st generation IRIS Holocams

Phase 4: Opening to International Markets

