REAL360

360° Omnidirectional shooting System

www.VIRTUALMIND.IT

Davide Angelelli

Age:	**46**
Study:	**- Degree Architect - Industrial Design**
	- Master Transportation Design
	- PhD Science Visual Comunication
Work Experience:	**- Aerospace – Automotive**
	- IT / Media / Security
Certified:	**- UAV Pilot L/VL Enac**
	- Scuba Instructor

www.**davideangelelli**.com

Davide Angelelli Story

1989

Davide Angelelli, **La Sapienza University**

Introduces, in the faculty of architecture of **La Sapienza University** the use of the computer for industrial design

1993

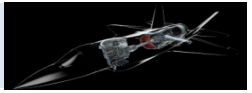
In 1993, **Portoghesi Architect**

applied in your company to Davide Angelelli at Computer Graphics Experience for Your Work, **born a first patent.**

1997

Introduce in **Aerospace e Naval Design**

the Computer Graphics VR & AR Technology for prototype testing & Data Analisys



2000

Create the digital live **Broadcasting System**

with storage in robot repository for news and Media Television, this system already todayuse in **Mediaset, CNN, Sony**.

2005

360° technology in Cultural Heritage the Computergraphics Animation

Recostrucion with VR360 Tour and touch screen tecnology

2007

Design and **introduce in Media/News and Aerospace Market**

a Multitouch technology for control room and Defense Operation

2007

Design and Patent

several design for Consumer, Automotive, Aerospace market

2010

Design & Patent 360°

revolutionary system that gives people the freedom to choose where Observe **Aeronautics & Aerospace Application**

2015

Introduce a 360° Technology in Aerospace

Security, Media, Biomedical, Sport Market with several patent application with multitouch, VR Glasses, Drones, UAV

SAPIENZA UNIVERSITÀ DI ROMA

SACRED FAMILY CHURCH Paolo PORTOGHESI

Alenia Aermacchi
A Finmeccanica Company

MEDIASET

POMPEI
PARCO ARCHEOLOGICO POMPEI

FINMECCANICA

QUALITY AIRCRAFT SINCE 1948
TECNAM

esa

NASA

Our Story

VIRTUALMIND is a Design & Engineer Company founded by the Angelelli family.

Davide Angelelli is inventor of several Italian and international patents.

Virtualmind patents have been Products and integration with UAV/Drones, VR Devices, Simulators, Automotive, Aerospace, Biomedical devices, Multitouch technology.

Now we realizing the technologies of the **future !**

- 360° Broadcasting System (360° live streaming Media, Automotive, Security)

- 360 ° Technology integrates in Nano UAV & Aerospace Market

- 360 ° Endoscopy for the biomedical Industry

WINNER
Città della Scienza 2016

WINNER
Gaetano Marzotto 2016

WINNER
Unindustria 2016

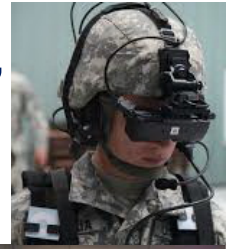
WINNER
INGDAN 2016

WINNER
Nasa Space Apps 2016

WINNER
Nasa Space Apps 2017

2012 Success Story

Our Technology Abord “MM Garibaldi Naval Unit”



Virtualmind Multitouch Table Based on some of our Virtualmind international patents

Virtualmind produces interactive devices that allow you to recognize the touch of multiple inputs simultaneously.

These systems Multitouch can intercept through gesture programmable up to 32 control points with sizes up to 180“ they are suitable for Control Room in scenarios

Utility: Tactical and Strategic

Challenge: Automotive VR 360°

Current Camera Car & Probes are unable to recorder 360° visual field, **We can not decide where to Observe**

1 People decide the image for us!

Our Solutions: Real 360°, Panoptes 360

Virtualmind developing 360 ° technologies, implemented in industrial and Aerospace market, scan & recorder the complete full 360° field of vision Without detail loss,

You can decide where to look in Realtime!

Virtualmind 360° Vision

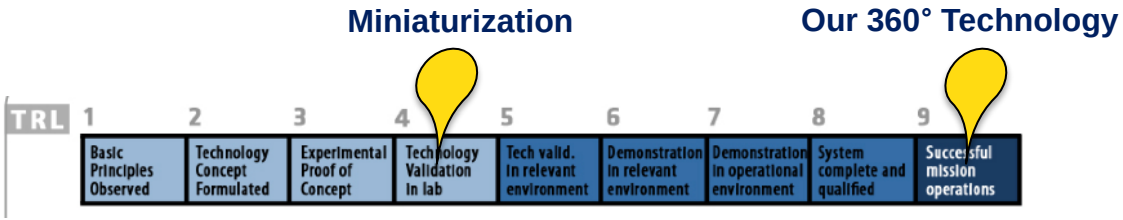
Our competitors have developed 360 technologies **only** for the Consumer market.

Virtualmind has developed 360 ° technologies on board Aircraft or Vehicles for autonomous driving system, integrated on board Nano UAV or in the Pilot Helmet with to our real-time telemetry technology.

Focus Market: Real360 & Automotive

Real 360 Innovative Features

- Recorder full sphere Environment 360°x 360° (no particular loss)
- Realtime Videostitching, realtime laserscan image
- Realtime Streaming to headquarter or other device
- No shape limitation
- Extreme miniaturization
- 50k Image / audio/ video Recording at 30-60 fps
- Several version & possible integration
- Broadcastin Mesh Network (for circuit & Events)



Real 360° Automotive Solution & Multiple Deal

Investment for Multiple Deal:

Real720 Camera & Broadcasting

- Mobility 360° Camera
- Security / Public order 360 Camera
- Antiterrorism Attack monitoring
-360° Facial Recognition

Real 360 Camera Car

- 360° Image / Video (Sport & Media)
- Security Guidance
- 360° Recognition

Real360 V-Scan

- 360° Autonomous Guidance
- **Laserscan Probe**
- 360° Recognition

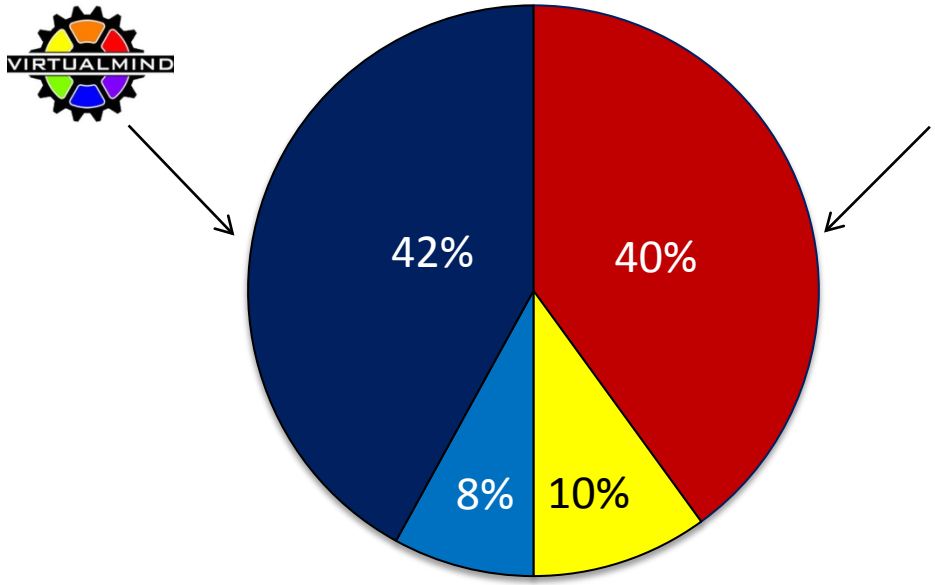
Real 360 Helmet

- 360° Image / Video (Sport & Media)
- Security Guidance
- 360° Recognition

360° VR Market Opportunity

$ 150 B / year:

- Consumer = 40%
- Prosumer = 10%
- Professional = 8%
- Industry = 42%

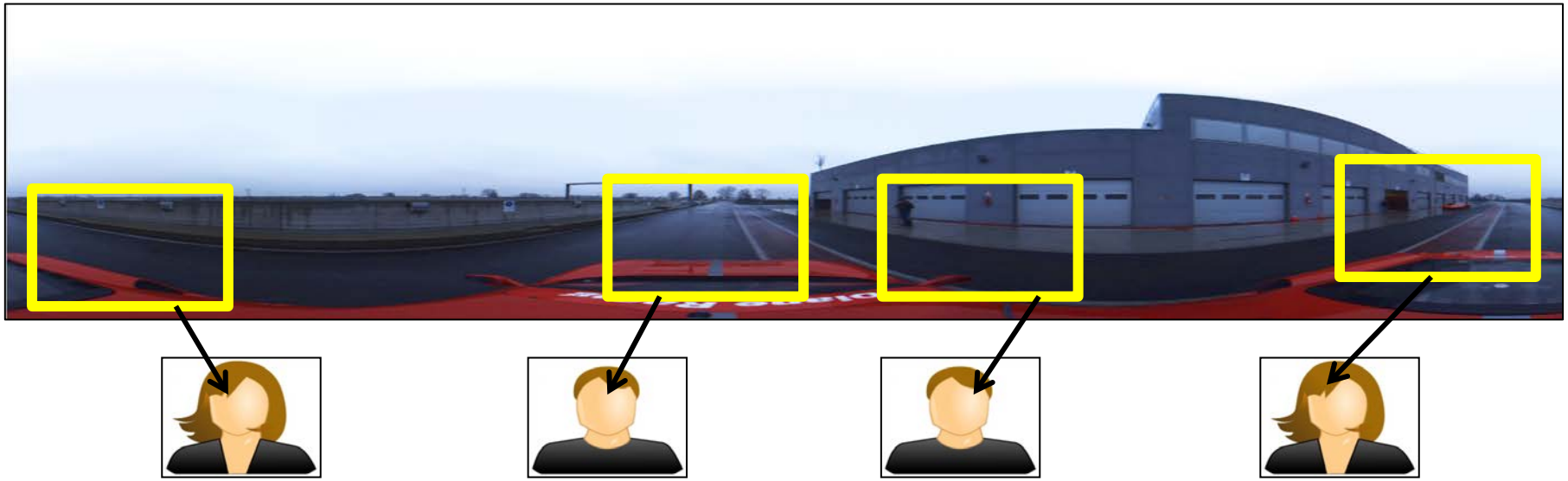


Microsoft
Google
SAMSUNG
RICOH
LG
oculus
?

- **BIG Companies focus on** VR Consumer and Prosumer Market
- **Virtualmind** focus on “free” Industrial & Professional Market (50%)
- Relevant patent opportunity is **Apple** (not have a **product** or VR 360° Patent)

Innovation:

Every user will be able to ***observe what he prefer*** independently by the other users or Director!



Virtualmind

We have :

- **Design Patented**
- Prototype
- **Intellectual Property**
- Several Market Analisys
- Partnership with Distributor
- Automotive, F1 Testimonial

Virtualmind made a new Markets!

360° Security / Smart Cities

Automotive / Autonomuous guide

360° F1 – 360° Live Event

360° Cultural Heritage

360° Sport Application

360° Police Vehicle

360° Oil & Gas Industry

360° Aerospace / Uav / Drones

$ 150 B Markets / Year

360° Application

MARKET: Media / Broadcasting

www.Panoptes360.com

Virtualmind Panoptes 360°

360° Automotive & F1

$: **100-800** k

Use: Media
Defense - Security
Professional

Market: Consumer
Professional

Click on image for see a video

Competitor Technology Analisys

Virtualmind unique features

	Google	Traffic Cam	Dome	Real360
• **Recorder full sphere 360°x 360°**	NO	NO	NO	✓
• **Realtime Stitching Image (360°)**	NO	NO	NO	✓
• Telemetry with Laserscan	NO	NO	NO	✓
• **Plurioptical (Two or more)**	NO	NO	NO	(Yes, Two or more)
• **Mesh Network** (360° live Broadcasting for circuit)	NO	NO	NO	✓
• Extreme miniaturization	YES	YES	YES	✓
• **Particular loss**	NO	NO	NO	(NO, Full Sphere)
• Possible System integration Fexible Version	NO	NO	NO	✓
• No Shape limitation	YES	YES	YES	✓

Integration

Possible integration:

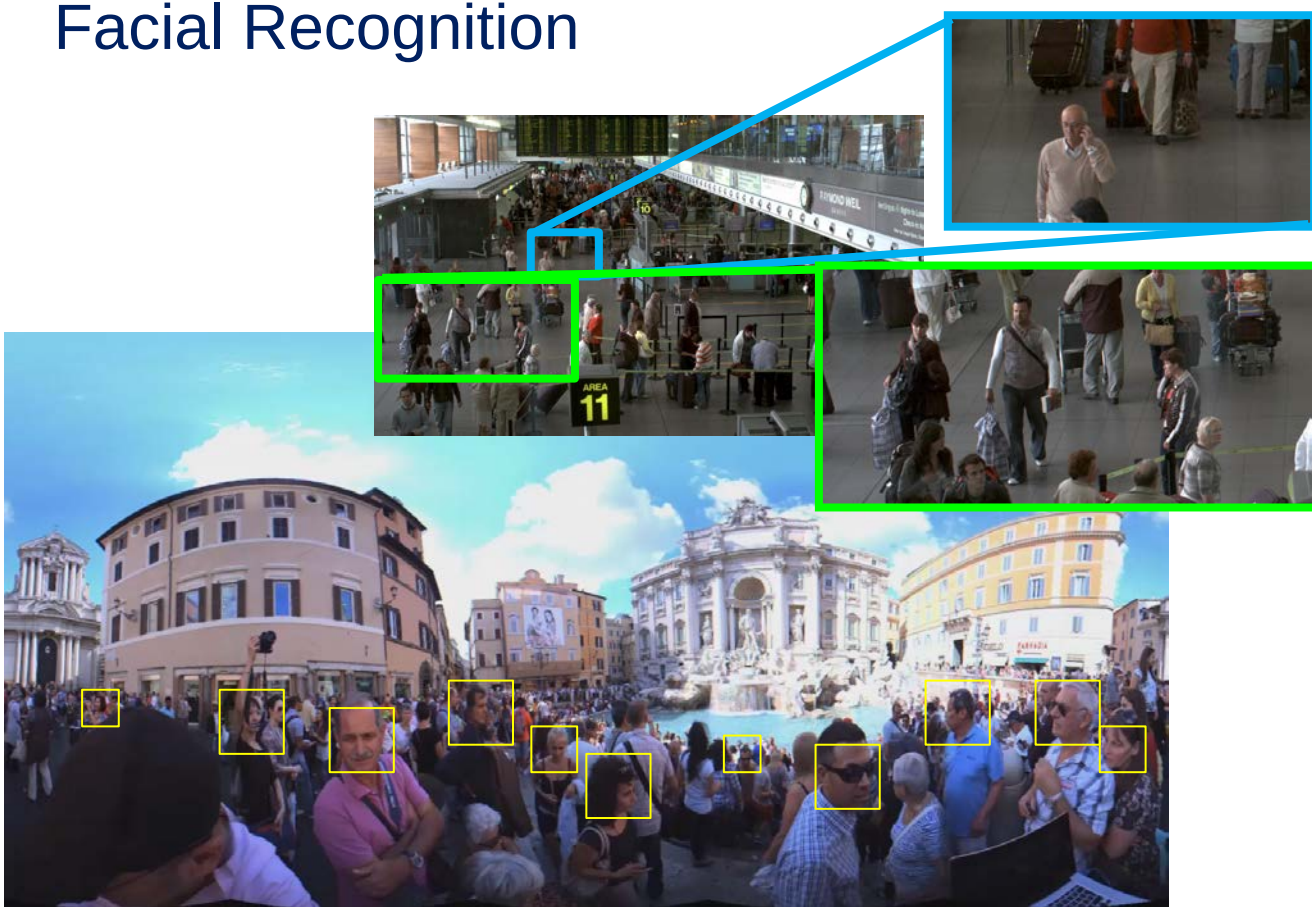
- Autonomous Vehicle
- Control Traffic Camera / Pollution Analisys
- Security Camera /360° Facial Recognition
- Public Order
- Broadcasting System / Media
- Anti Terrorism monitoring

360° Application

Mobility & Smart Cities

Real360° Mobility

Facial Recognition



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AEROMECCANICA
UNMANNED AIR VEHICLE

Virtualmind Real720 – 360° Camera Car

The innovative Helmet integrated with 360° Camera

Use:	Mobility
	Autonomous Guide
	Defense - Security
	Moto Gp
Market:	Consumer
	Professional
Camera:	360° camera

IDEA

Helmet & 360° Camera Car

Real720Helmet.com

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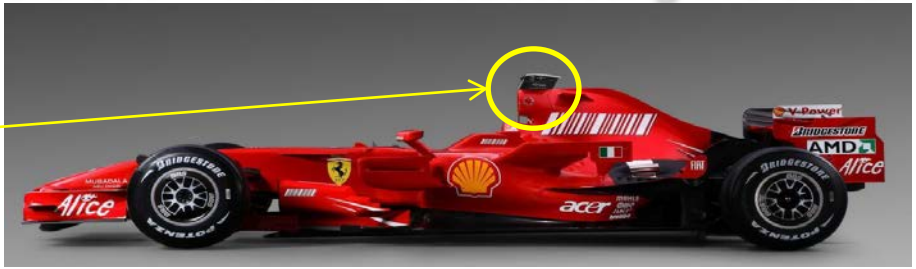
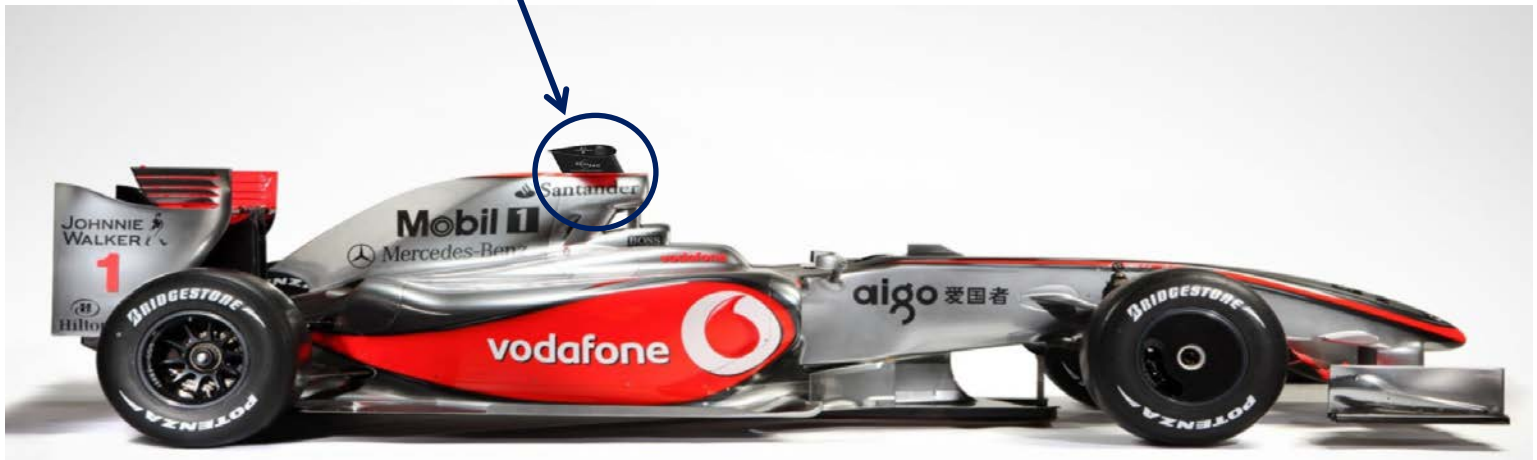
Real 360 Patent Application Formula1 - Moto GP:

World's First F1 Omnidirectional Camera 360° Realtime Broadcasting live streaming





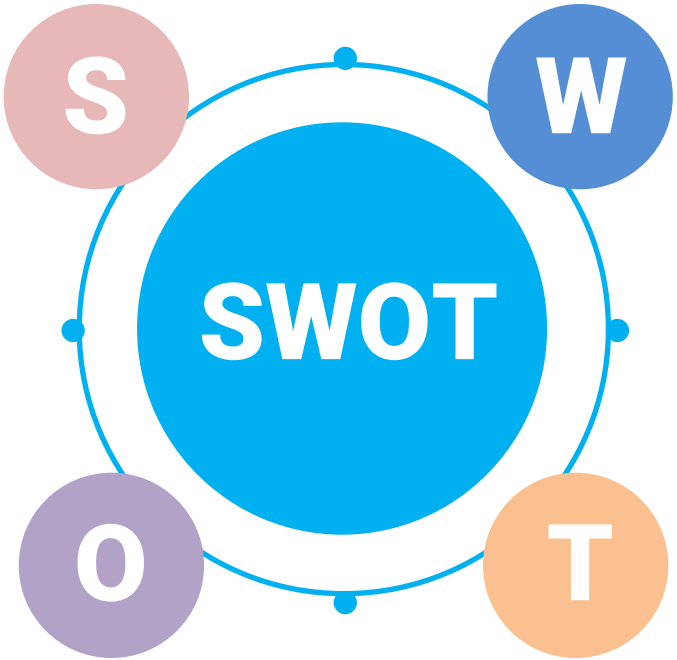
AEROMECCANICA
VIRTUALMIND GROUP

VIRTUALMIND

AEROMECCANICA

Swot Analisys

Strenghts
- Innovative Technology
- Go to Free Market
- Product request
- Patent
- Strong Design (copied)
- Price
- Testimonial

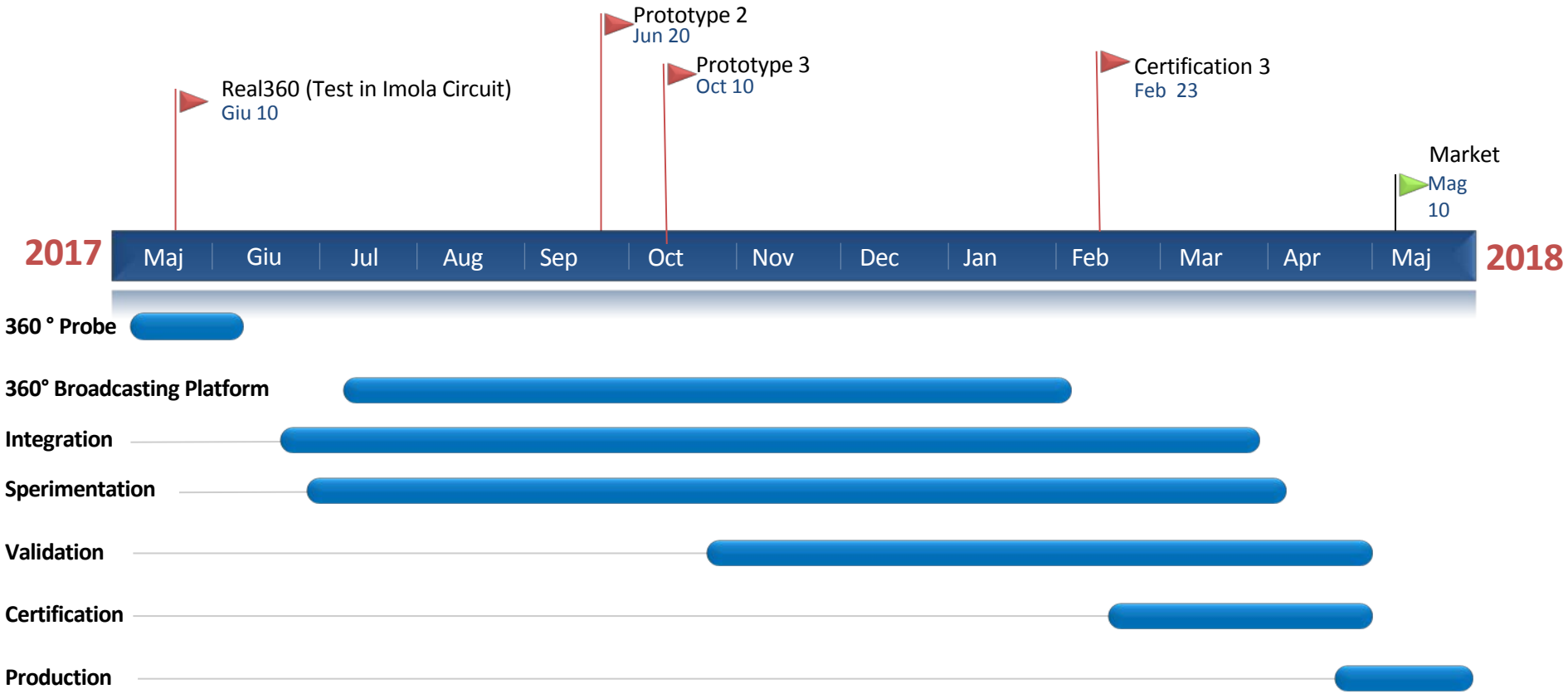


Weaknesses
- Big Company Powerful
- Competitor competition

Opportunities
- Possible Integration Vs. other tech
- Licensing
- **1 investiment multiple R&D**
- Patent Infringment

Threats
- Market Retrospective
- Market Penetration

Development Timeline: 11 Month

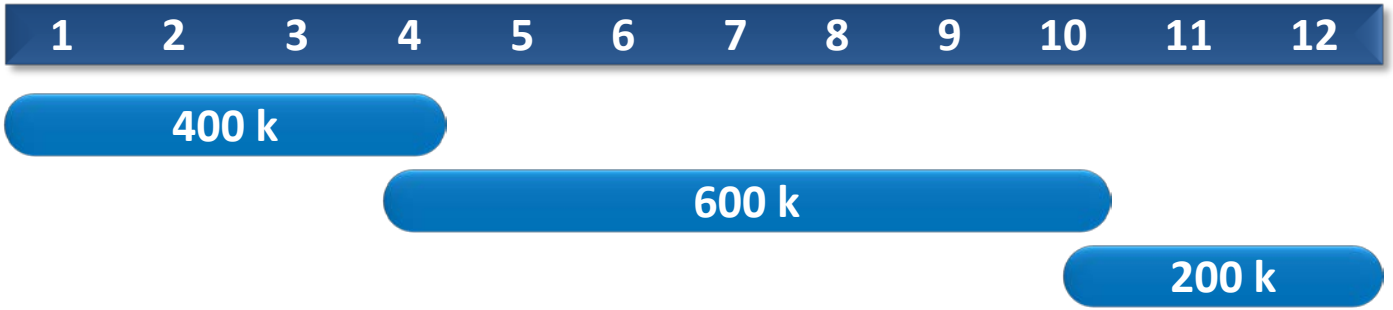


Financial

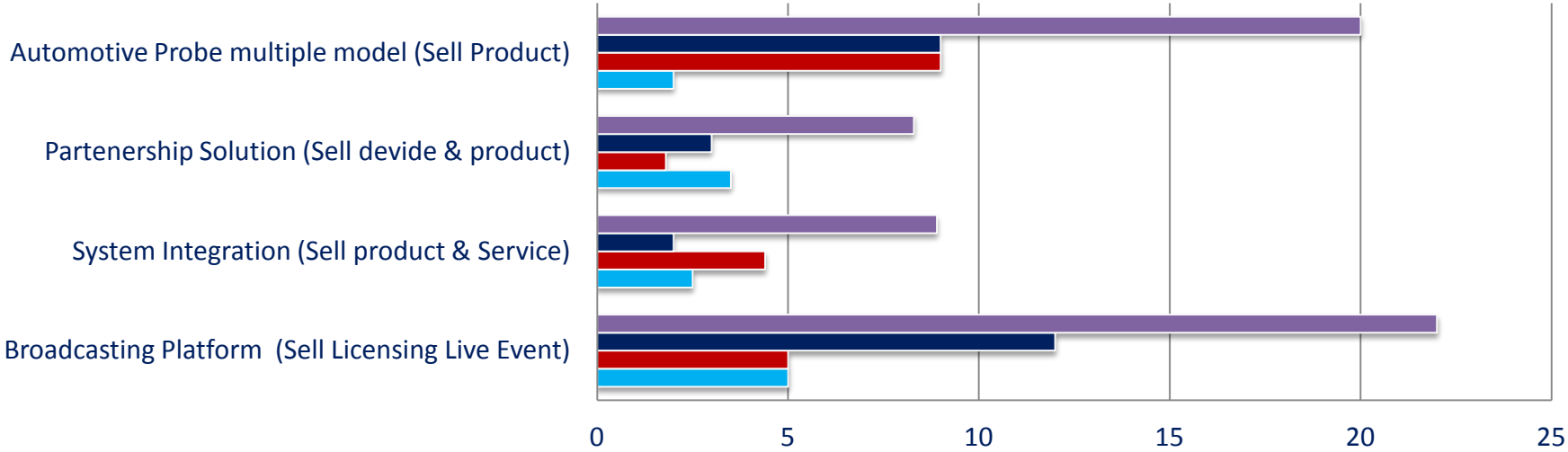
Financial need :1,2 M for 15% Equity

Team	$ 400,000
Technology & IPR Development	$ 620,000
Equipment & facilities	$ 100,000
Legal, Operations	$ 80,000
Total	$ 1,2 M

Develop Timeline & financial need month



Revenue 1-5 Year = 59.2 (in Million Euro)



	Broadcasting Platform (Sell Licensing Live Event)	System Integration (Sell product & Service)	Partenership Solution (Sell devide & product)	Automotive Probe multiple model (Sell Product)
Total Revenue	22	8,9	8,3	20
Professional	12	2	3	9
Prosumer	5	4,4	1,8	9
Consumer	5	2,5	3,5	2

Our Core Team

Davide Angelelli

Designer - Architect

From Media Industry

CEO “hipster”

Claudio Angelelli

Engineer

From Mechanical Industry

CFO “hustler”

Emiliano Angelelli

Engineer

From big Software Company

CTO “hacker”

Licia Trobia

Medical Engineer

From Biomedical Industry

COO “hustler”

And Other 6 People:

- 2 Engineer
- 2 Research
- 2 Advertising / Back Office

Thank You!

VIRTUALMIND

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E-mail: info@virtualmind.it

Link:

- **Virtualmind :** www.virtualmind.it
- **Aeromeccanica :** www.aeromeccanica.it
- **Real720 :** www.real720.com
- **Panoptes360 :** www.panoptes360.com
- **Fly360 :** www.fly-360.com

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