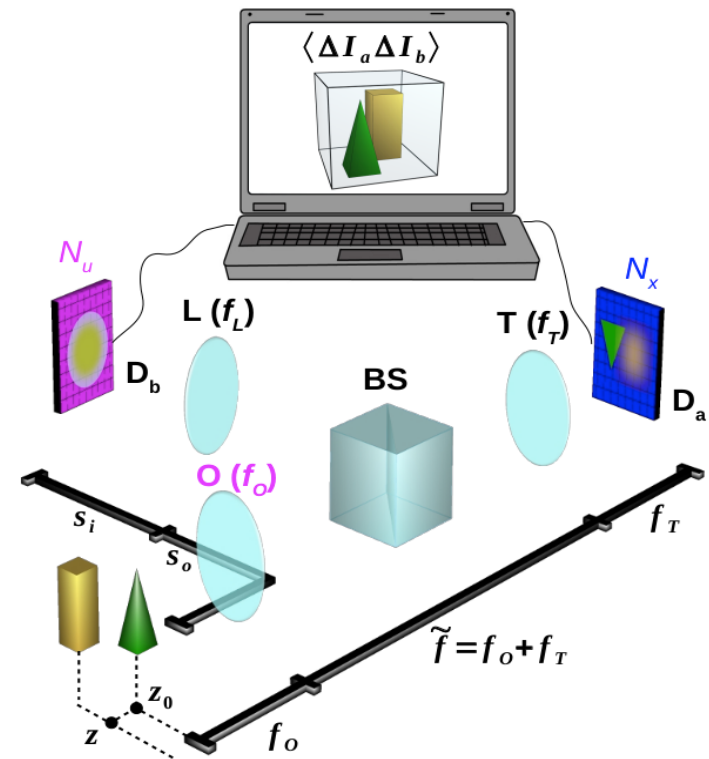


Quantum technologies for imaging

MILENA D'ANGELO

Scientific director

Physics Dept., Univ. of Bari (Italy)



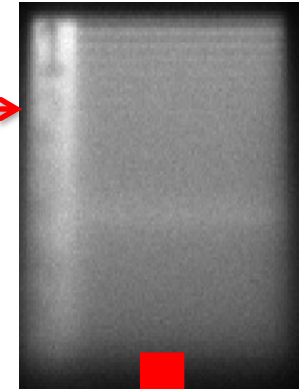
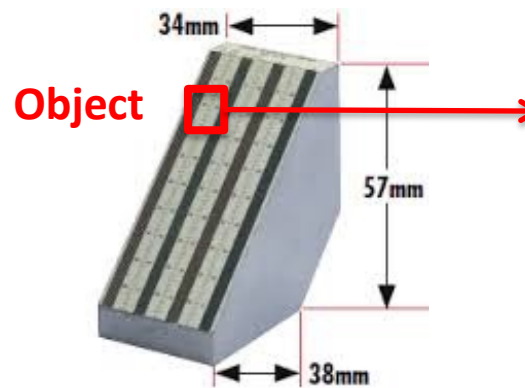
The problem of standard imaging



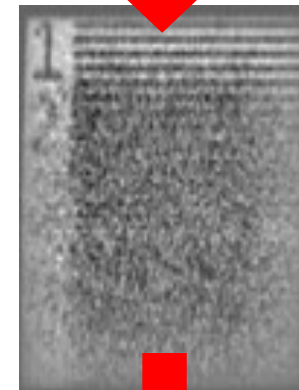
A blurred image **cannot** be refocused

Information is **permanently lost** !

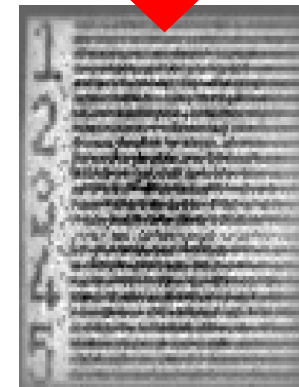
Our solution: Correlation Plenoptic Imaging



Acquired
image



CPI: refocusing



CPI: everything
on focus !

With **quantum technologies** we transform blurred images in high resolution well focuses images *

*4 patents (European and international)

Macromarket

Digital cameras (refocusing
+ 3D capability) →→
smartphones

\$ 522
billion
(2018)



\$ 8
billion
(2018)



Microscopy: biomed,
industrial inspection

Earth observation, space
imaging, remote sensing,
sicurezza..

\$ 1,4
billion
(2017)

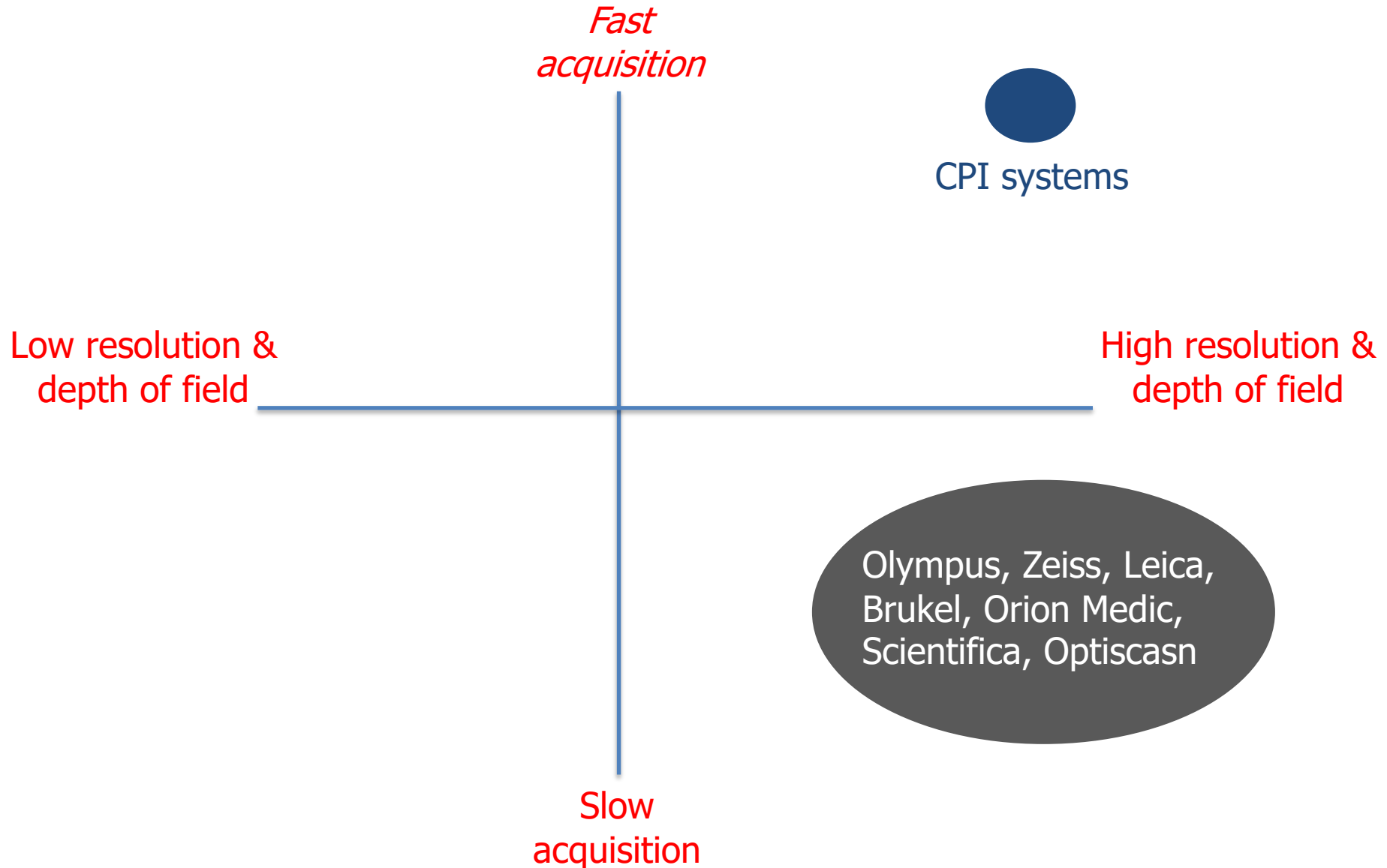


\$ 9
billion
(2018)



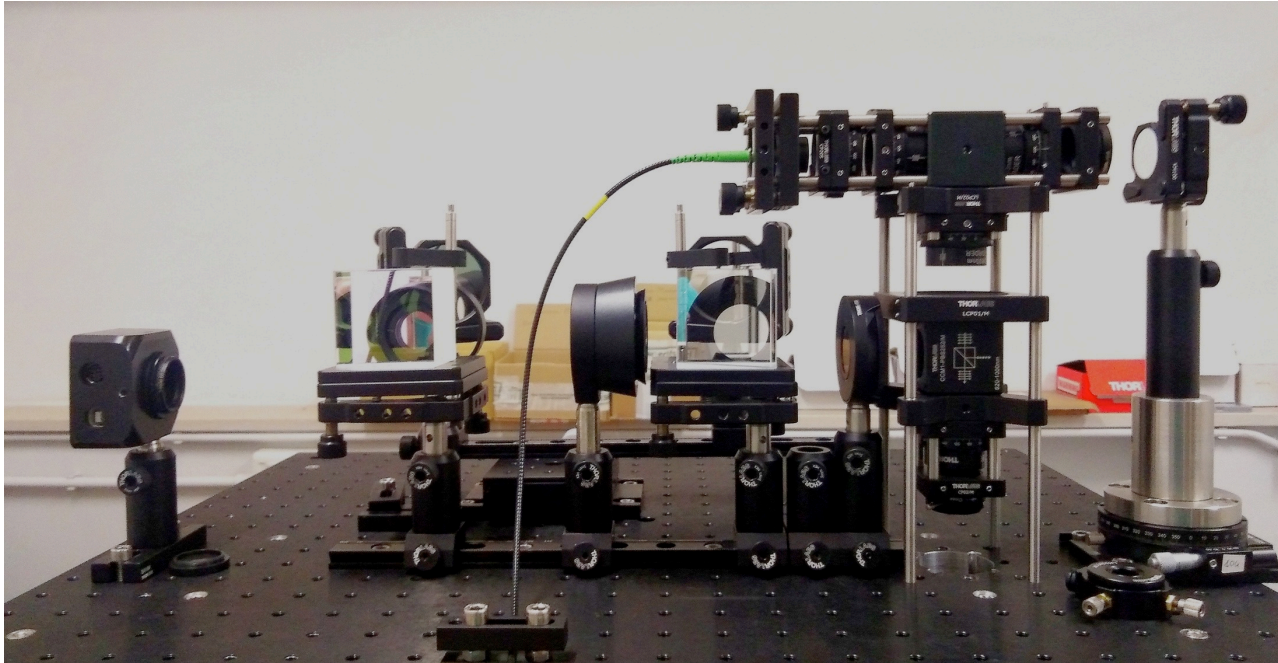
3D imaging devices

Competitors – confocal microscopes



Go to market

Prototype of CPI microscope



Channels:

- Participation to conferences and fairs
- Publications
- Direct contacts with big companies

Revenue model

From research to patents, to prototypes, to the market:

- Selling our know-how (patents + prototypes)
- Collaboration for engineering new CPI-based products

Our team



Milena D'Angelo
Scientific director



Augusto Garuccio
Amministratore delegato



Francesco V. Pepe
Scientific developer

Project manager
/management engineer

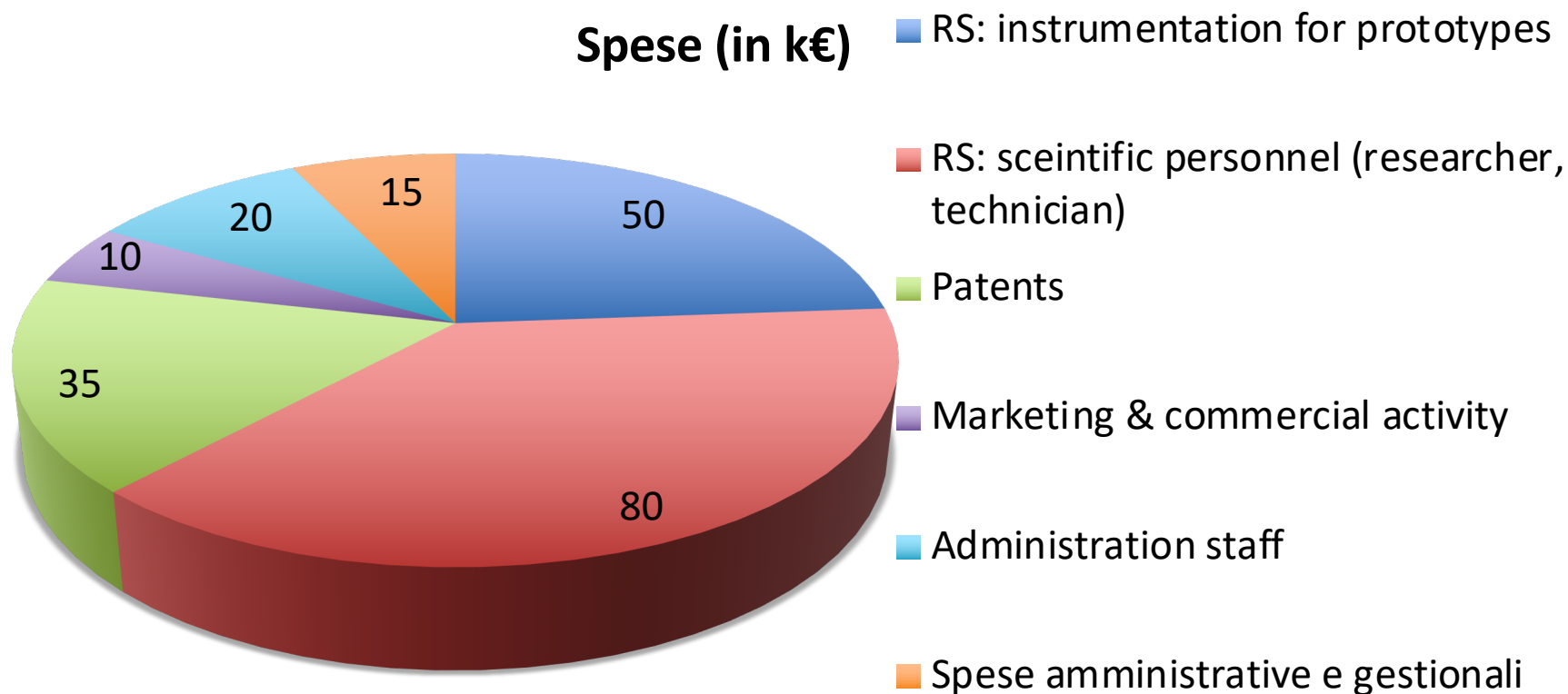


Funding needs

Requested funding:

1° year: 220 k€ / year

2° & 3° year: 200 k€ / year



Thank you