


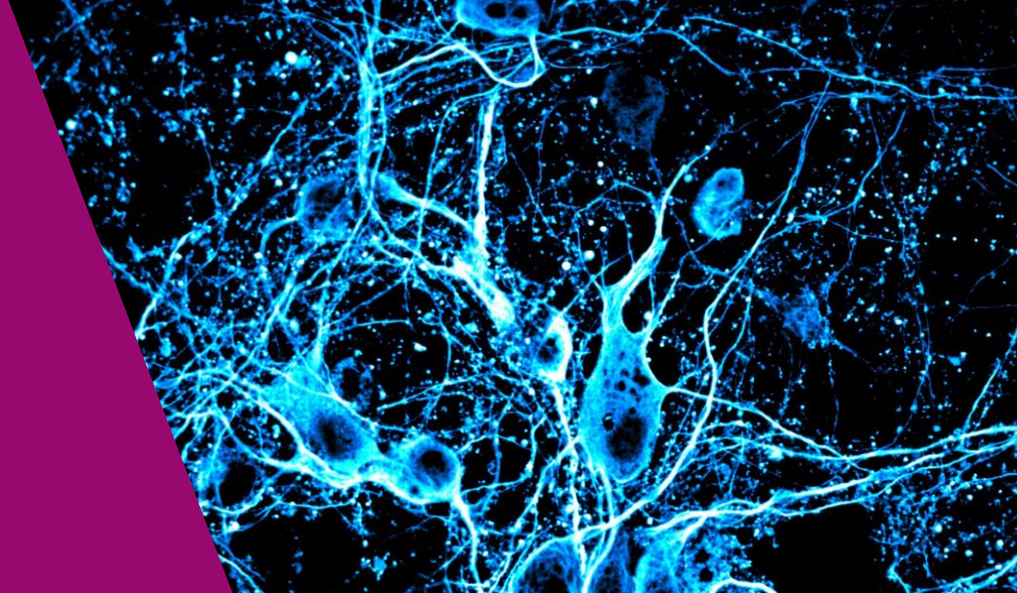
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Super-resolution microscopy for health and research

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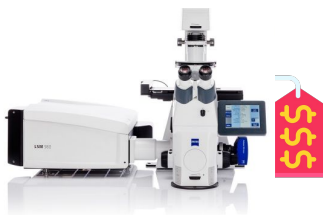
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# SUPER-RESOLUTION MICROSCOPY is key to SCIENTIFIC DISCOVERY and to FIGHT DISEASES

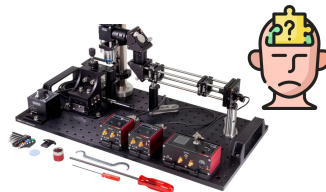
Each year **€270B** are invested globally, for biomedical and health R&D\*.

But, **microscopy is not accessible to everyone** who needs it



it's **EXPENSIVE**

Up to **€1M** for a  
super-resolution microscope.  
Only rich can buy.



it's **COMPLEX**

Up to **12 months** to build  
a custom microscope. Only  
experts can build.



it's **EXCLUSIVE**

Typically **1 microscope**  
with super-resolution for  
**10+ researchers.**

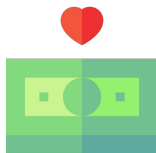
Genoa Instruments

is on a mission to

# DEMOCRATIZE SUPER-RESOLUTION

making it accessible to everyone.

We are **rebuilding** microscopy



it's **AFFORDABLE**

**100k€** for a top-notch  
super-resolution microscope.  
Everyone can buy.



it's **SCALABLE**

Our **all-in-one** approach  
can combine multiple  
instruments into a single one.



it's **DEMOCRATIC**

Our technology easily replaces  
and **integrates** into **any**  
**existing microscope.**

# PRISM

## super-resolution microscopy



productized  
from IIT research



plug-and-play  
microscope  
to retro-fit any setup

software  
acquisition, analysis, and cloud storage

# PRISM SUPER RESOLUTION



Polo PLSV  
Polo Ligure  
Scienze della Vita



1

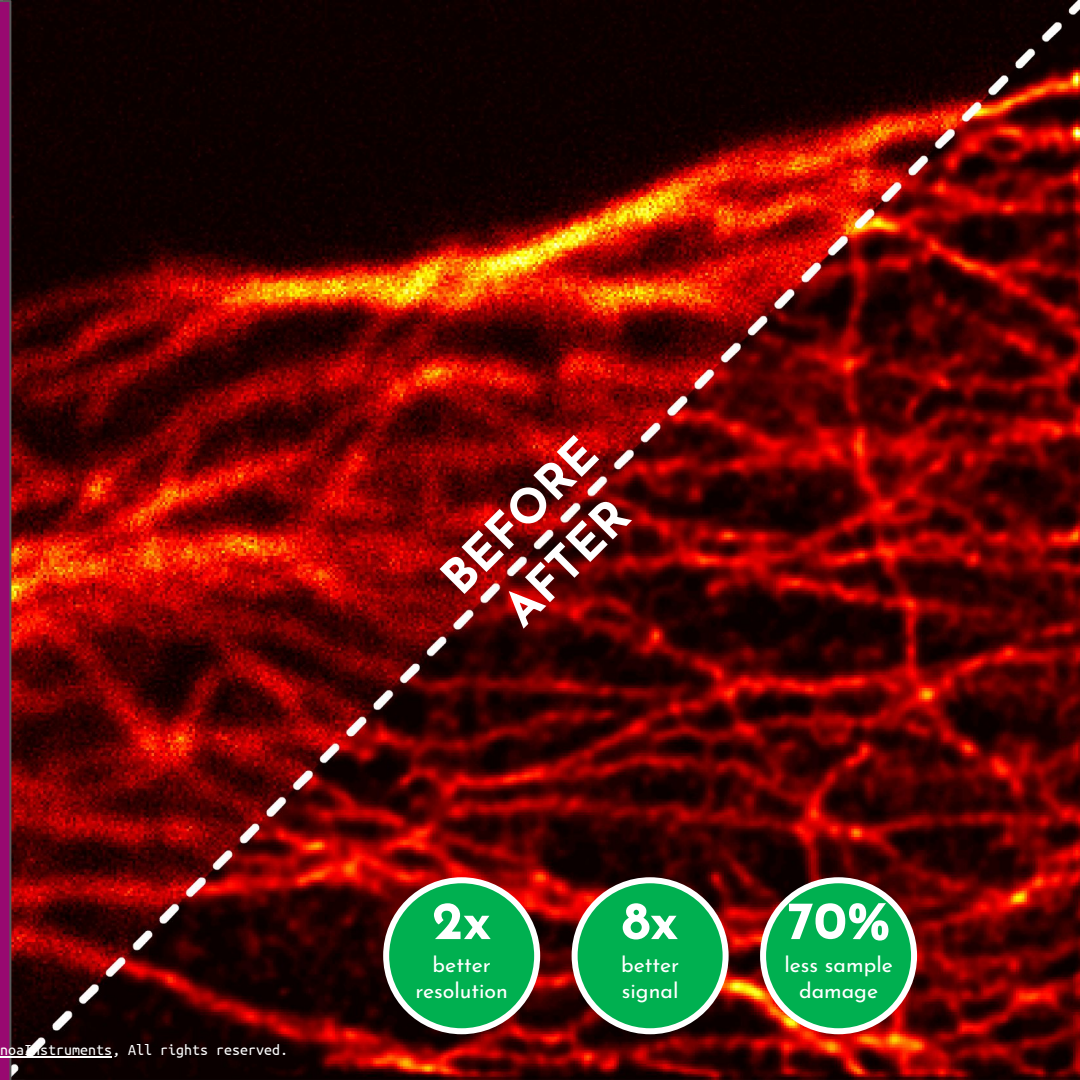
**Diffraction-limited** optical microscopes fall short in resolving **subcellular details**,

**PRISM** offers **100-nanometer** resolution, perfectly matching the size range of most biological structures\*.

**PRISM** enables studying the **morphology of samples** with **2x better resolution**, **8x better signal** collection and **70% less photodamage**\*\*.

\* [Patent 1 on spatial imaging](#)

\*\* [Image Scanning Microscopy with super-resolution FLIM](#)



**2x**

better  
resolution

**8x**

better  
signal

**70%**

less sample  
damage



# PRISM LIFETIME IMAGING



Polo PLSV  
Polo Ligure  
Scienze della Vita



## 2

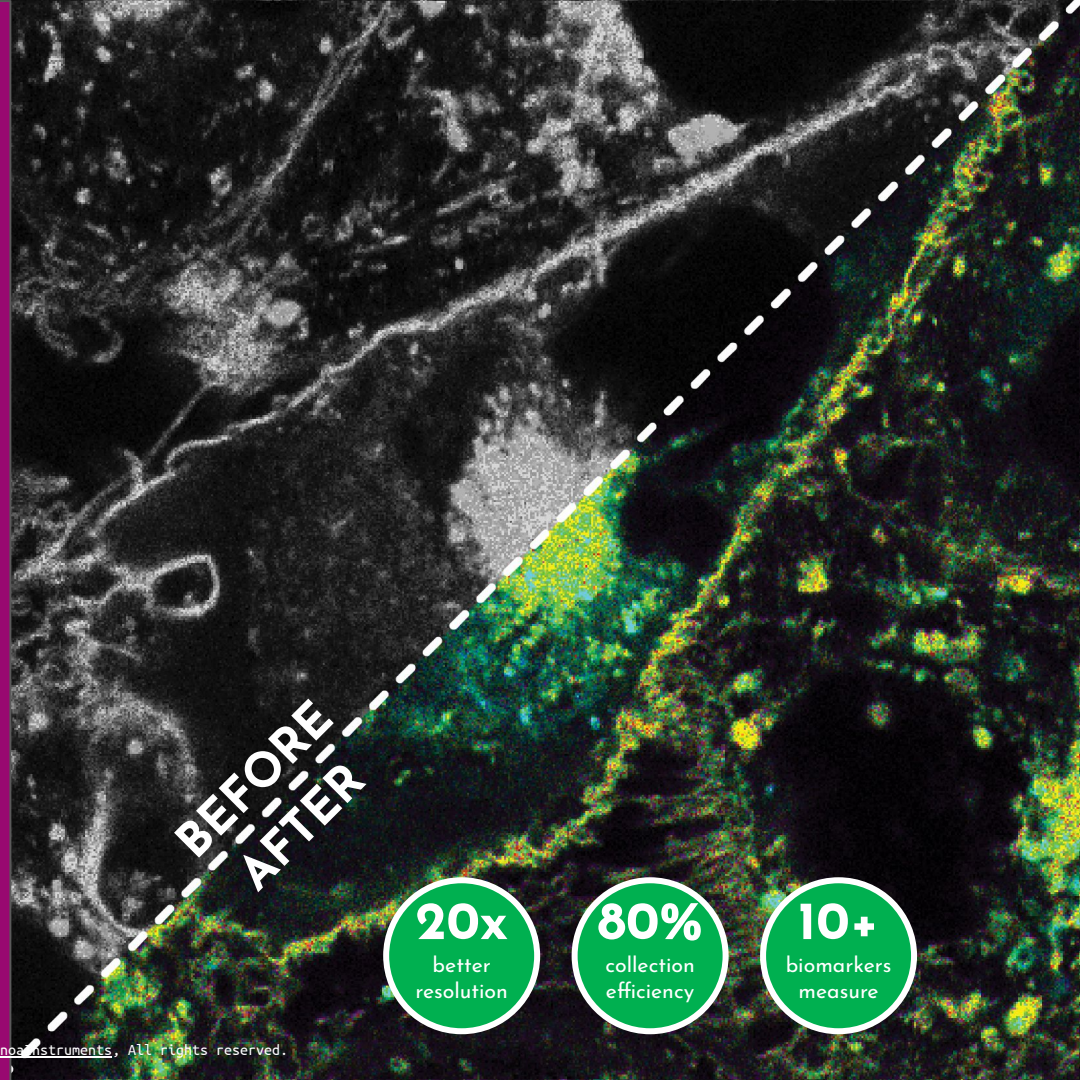
Biological **living samples** aren't static and requires the ability to **monitor** and **track behaviour** and **dynamics**.

Temporal imaging enables to **visualize biomarkers** such as **metabolism**, **pH variations**, **DNA transformations**.

**PRISM** offers an **unprecedented\*** temporal resolution of **150 picoseconds**, the only way to quantitatively measure relevant **biomarkers\*\***.

\* [Patent 2 on temporal imaging](#)

\*\* [Image Scanning Microscopy with super-resolution FLIM](#)



BEFORE  
AFTER

**20x**

better  
resolution

**80%**

collection  
efficiency

**10+**

biomarkers  
measure



## BIOPSY

Sample is taken from the patient's tumor to obtain cancer cells for testing.



## CELL CULTURE and DRUG TREATMENT

Cancer cells are cultured and exposed to different chemotherapy drugs to assess their response.



## Check response via **SUPER-RESOLUTION LIFETIME IMAGING**

Super-resolution Lifetime (FLIM) imaging is used to detect early metabolic shifts, revealing which drug is most effective for the patient within days.

# HEALTH & RESEARCH APPLICATIONS

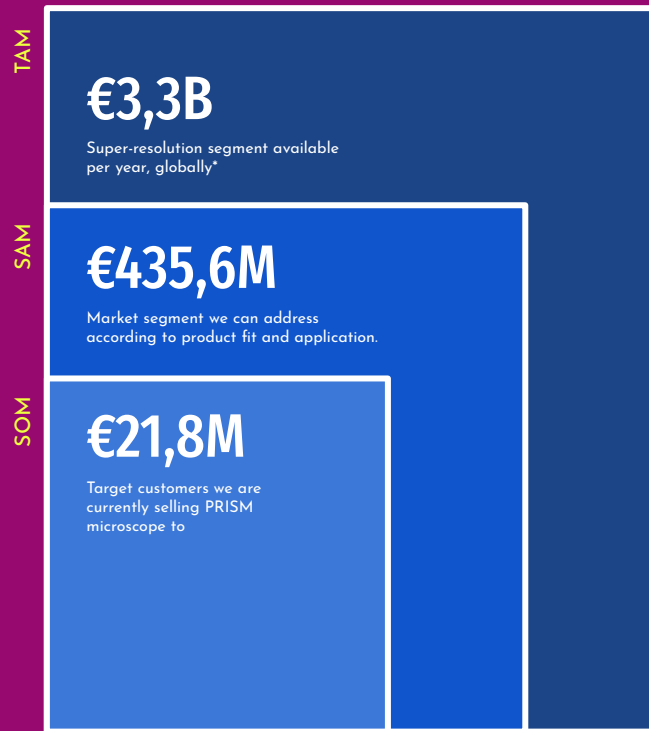
# Microscopy Market.

➤ The **microscopy market** is expected to reach **€20.4B** by 2030, with **7.98% CAGR**.

➤ Our **customers** are research centers located in **25'000+ universities** and **165'000+ hospitals** worldwide.

➤ Around **6000+ microscopes** that offer 'super-resolution' are sold each year globally, customers demand shows greater potential.

➤ Genoa Instruments is addressing an addressable market of **€435M€** globally and an obtainable market of **€21,8M**.





**Genoa Instruments**

commitment to making and achieving a

# POSITIVE IMPACT and OUTCOME

for our local community.

contributing to regional growth and deep-tech innovation



## BOOSTING COMPETITIVENESS

Strengthening local  
high-tech and deep-tech  
R&D.



## GLOBAL EXPANSION

Scaling a local company in  
the international biomedical  
imaging market.



## JOB CREATION

Generating new professional  
opportunities in high-tech  
industries.



## SUPPLY CHAIN

Enhancing regional industrial  
impact through partnerships with  
local suppliers.

## INVESTORS AND PARTNERS



ocean capital



FONDAZIONE  
GOLINELLI  
l'intelligenza  
di esserci



PhotonHub  
Europe®



Cofinanziato  
dall'Unione europea



REGIONE LIGURIA



ISTITUTO  
ITALIANO DI  
TECNOLOGIA



UNIVERSITÀ  
DEGLI STUDI  
DI GENOVA



Polo PLSV  
Polo Ligure  
Scienze della Vita



# Thank you.

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