



PRESENTATION OF BOOST PROJECT

Plant Bioprtection and biOstimulation



- Biocontrol
- Stimulation of plant defenses
- Agroecology

Agriculture > Agrifood, ...cosmetics and pharmaceuticals industries

Background

- BOOST was the subject of “Institut de Convergences” proposal submitted by INRA in 2016, supported by Idex UCA^{JEDI}
- In 2017, financed by Idex UCA^{JEDI} with 600K€ for 4 years
- 8 transdisciplinary cores programs set up by UCA^{JEDI} in 2017 :
 - **Environment, health, citizens : BOOST**
 - Social interactions and complex dynamics
 - Matter, light and interactions
 - Modeling, physics and mathematics of living systems
 - Risks in the Northern Mediterranean zone
 - Data sciences
 - Art and sciences
 - Cognitive systems, normality and pathology of the human brain, and computational neuroscience

French Leadership in Biocontrol

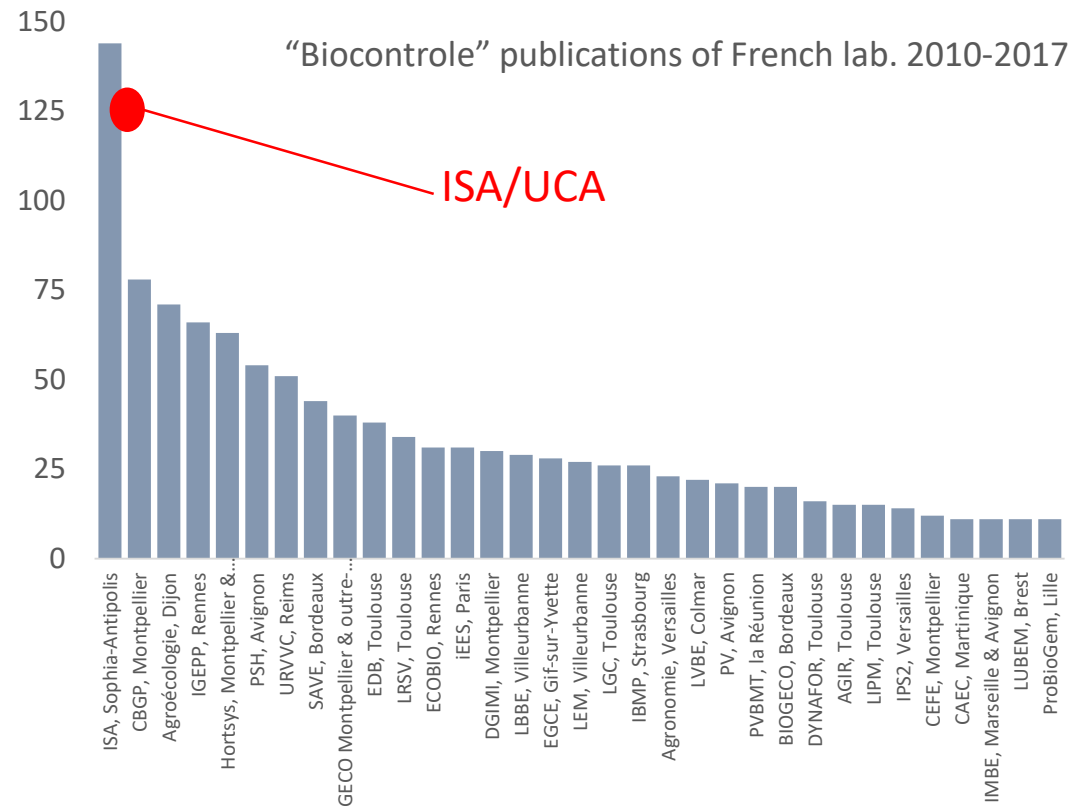


Institut Sophia Agrobiotech (ISA)

UNIVERSITÉ
CÔTE D'AZUR



INRA
SCIENCE & IMPACT



Societal issue

Awareness of impacts of the productivity-oriented agriculture model



Reduction and improvement of the use of « chemical » entrants in plant production

A major issue at the interface agriculture / environment



Research, innovation and training

Inter-laboratory
academic teams

Intersectorial R&D
teams
with industry

Intersectorial R&D
Teams
with others stakeholders

MSc **BOOST**

“To grow the next generation of R&D
project leaders in the academia or
industry”

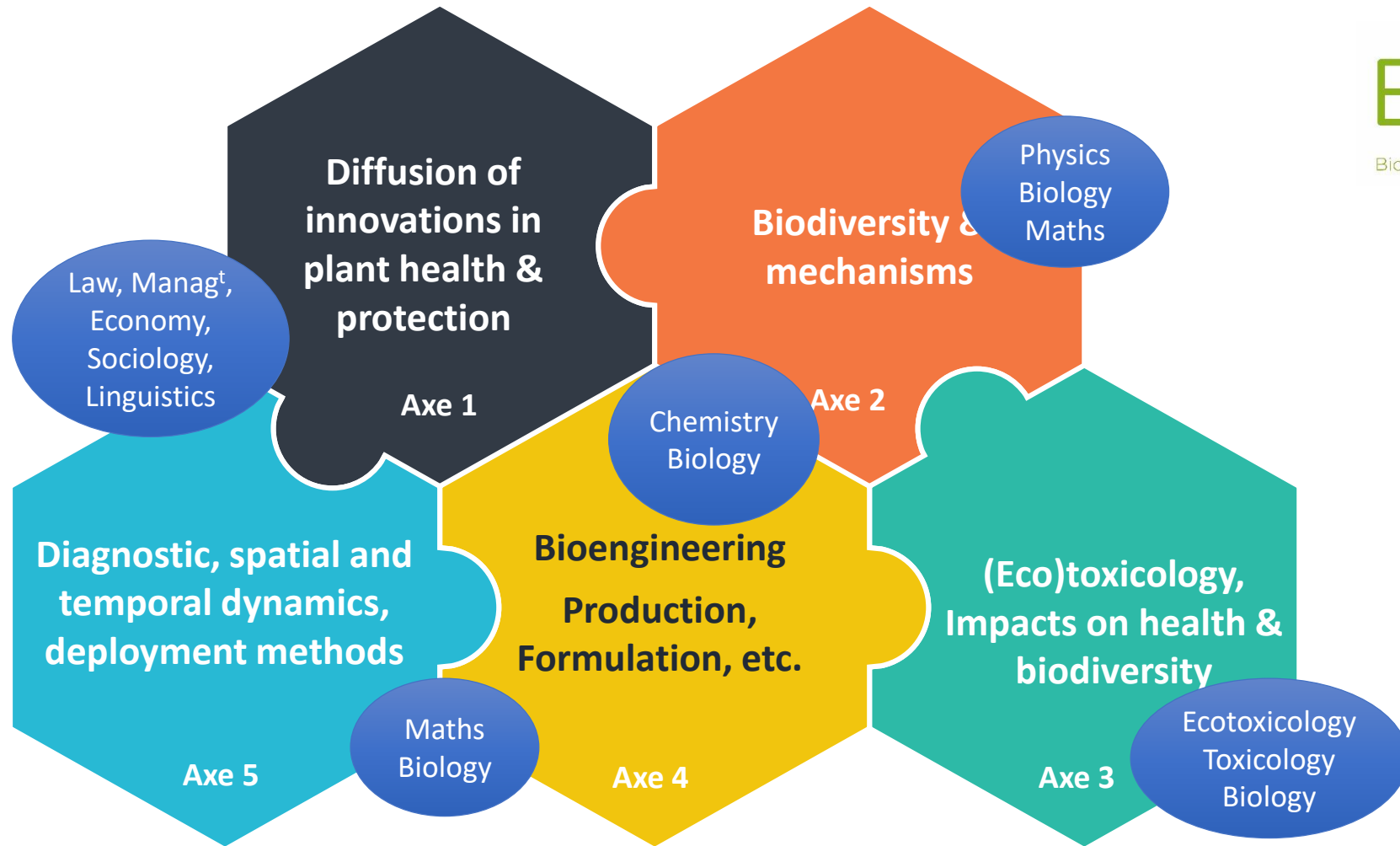
Customizable content, with strong
components of biology, chemistry,
ecology, physics, management

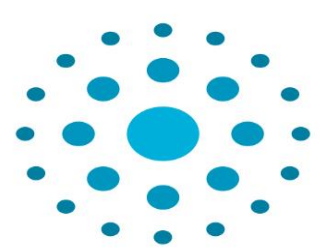
In English

Courses and mentored projects directly
in BOOST labs

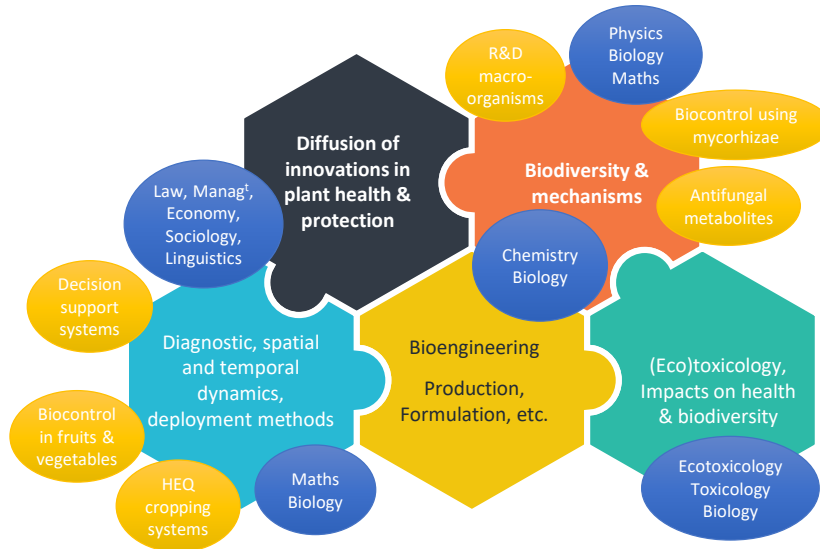
Connected to stake-holders

Five main challenges tackled thanks to interdisciplinarity

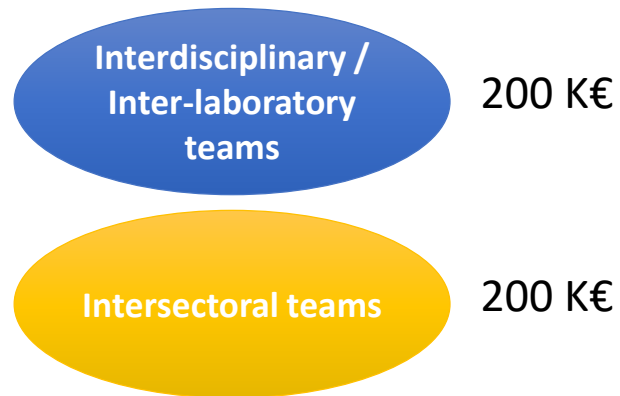




First actions financed in 2018-2020



16 allowances for internships
2 cofinanced PhD / postdocs
3 workshops / events
Total budget : 400 K€



Cofinancing obtained: 1,100 K€
(UE: 800 K€)
(Non-academic partners: 300 K€)
[2 « CIFRE » PhD]

A diverse complementary community within & around UCA



Chemistry

Robotics



Automated systems



Mathematics



Physics

Agronomy



Law

Toxicology

Evolution

Biology



Sociology

Ecology



Management



150 people among which 100 from the academic field and 20 from private companies

Focus on BOOST Training

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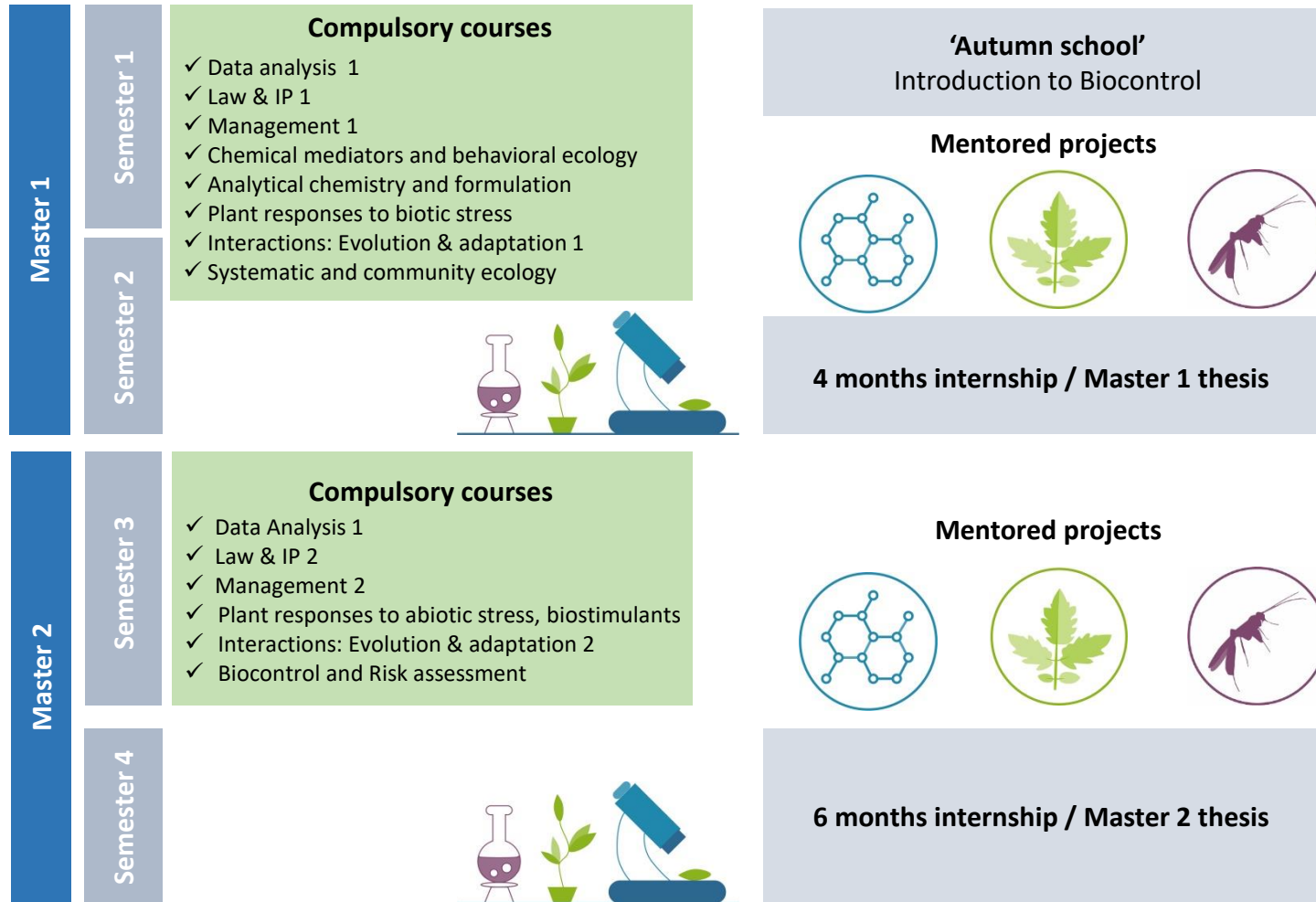
Connected to stake-holders

BOOST MSc program in English – 2 years – 120 ECTS

International experts

Symposia, visits to institutes and companies

International studies & research mobility



BOOST training program is customized to fit student need and project for the futur

- Mentored projects
- Internships
- Autumn school



PARTNERS

BIOCONTROL SOLUTIONS
FOR PLANT HEALTH

FRIDAY, SEPTEMBER 20TH

MONDAY, SEPTEMBER
23TH

TUESDAY, SEPTEMBER
24TH

WEDNESDAY, SEPTEMBER
25TH

THURSDAY, SEPTEMBER
26TH

FRIDAY, SEPTEMBER 27TH

REGISTRATION



Autumn school BOOST

MODIFIER

Biocontrol
Solutions for Plant
Health

DÉCOUVRIR



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Symposia, visits to institutes and companies

International studies & research mobility



master-boost@univ-cotedazur.fr

Master 1	Semester 1	Compulsory courses <ul style="list-style-type: none">✓ Data analysis 1✓ Law & IP 1✓ Management 1✓ Chemical mediators and behavioral ecology✓ Analytical chemistry and formulation✓ Plant responses to biotic stress✓ Interactions: Evolution & adaptation 1✓ Systematic and community ecology
	Semester 2	
Master 2	Semester 3	Compulsory courses <ul style="list-style-type: none">✓ Data Analysis 1✓ Law & IP 2✓ Management 2✓ Plant responses to abiotic stress, biostimulants✓ Interactions: Evolution & adaptation 2✓ Biocontrol and Risk assessment
	Semester 4	

Interdisciplinarity: Law, Management, Chemistry...

Biology

- Within Institut Sophia Agrobiotech
- to be in daily contact with biocontrol experts





