

SPAC - SOCIAL PHYSICS AND COMPLEXITY

PhD Students

Sara Mesquita, Public Health
Íris Damião, Computer Science

Postdocs

Cristina Mendonça, Psychology
Ana Vranic, Physics
José Reis, Law

MSc Students

Tiago Miranda, Data Science
Miguel Félix, Physics
Tomás Silva, Physics

Project Manager

Rita Saraiva



Senior Researcher

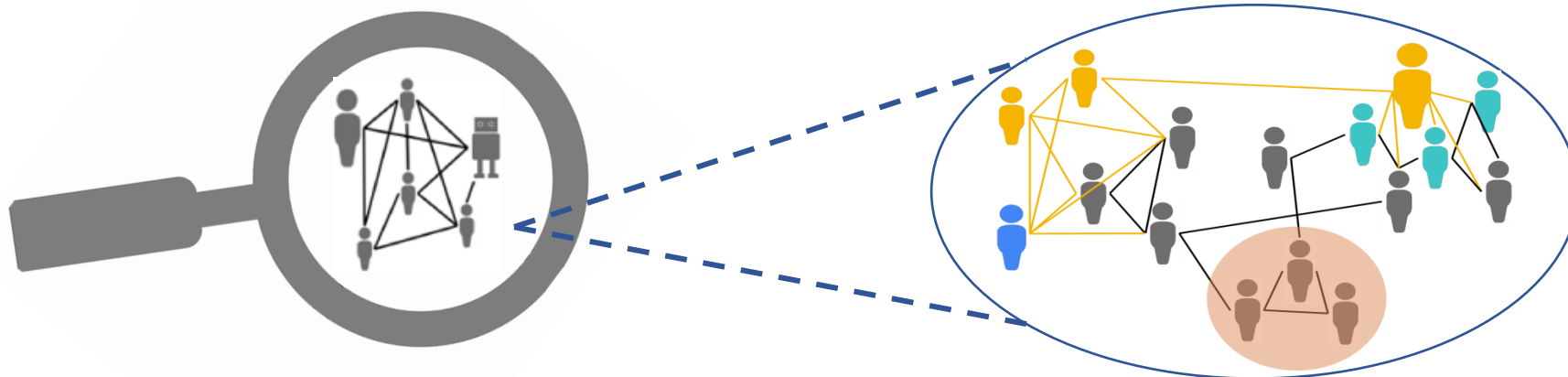
Lília Perfeito,
Biology

Researchers

Hugo Cachitas, Programmer
Paulo Almeida, Lead Programmer, DPO
Hamid Shahzad, Part-time programmer

PI

Joana Gonçalves-Sá,
Physics, Systems Biology



DISINFORMATION



Fake News

Pathogens



Humans

Hosts



Networks

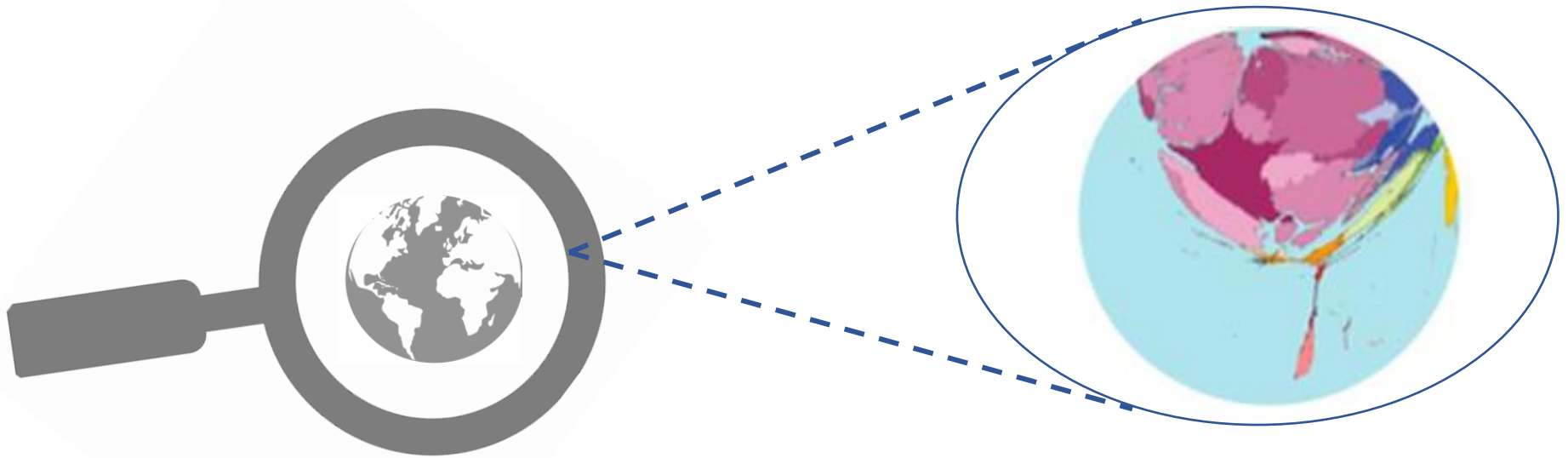
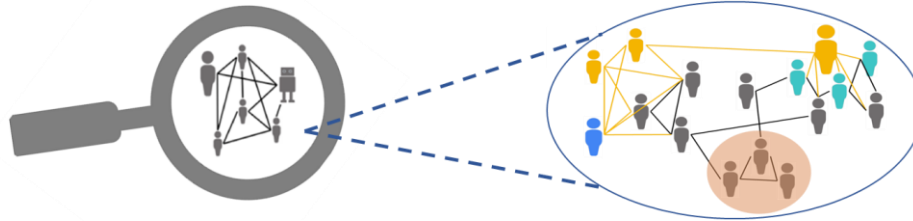
Environment

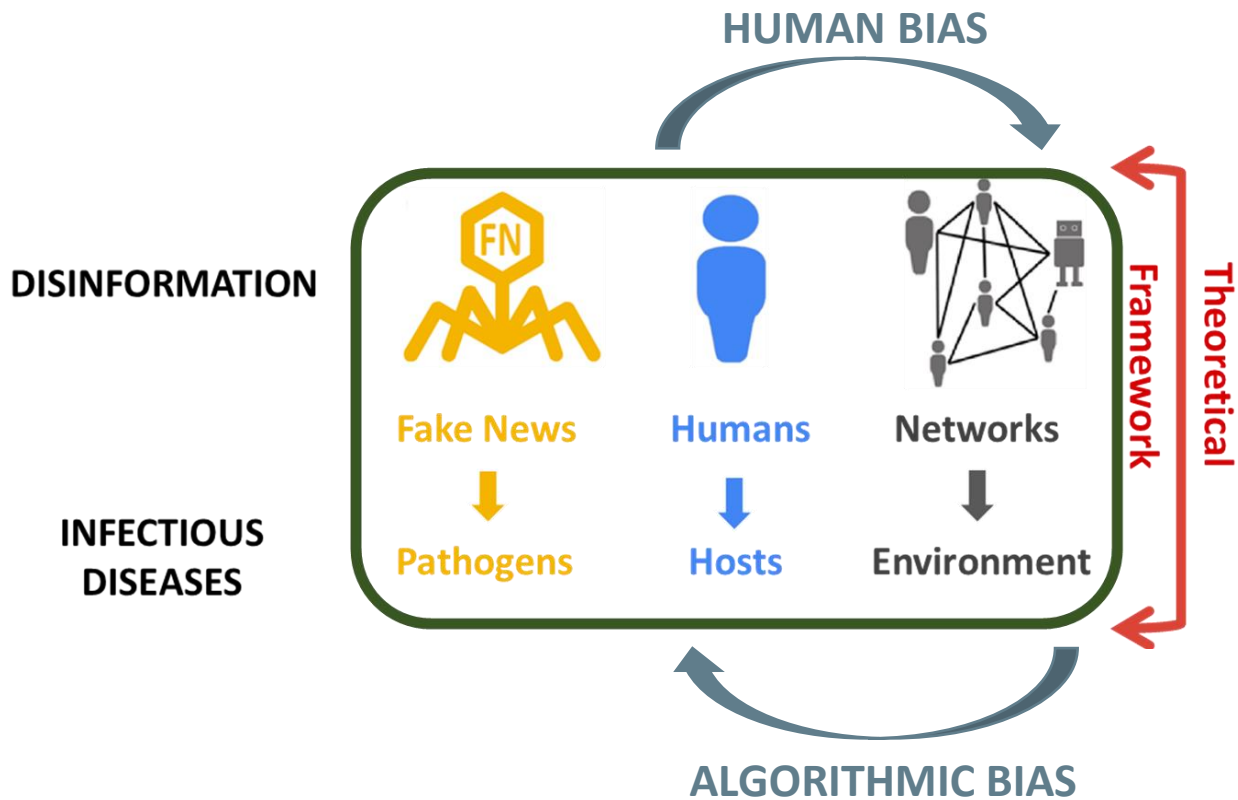
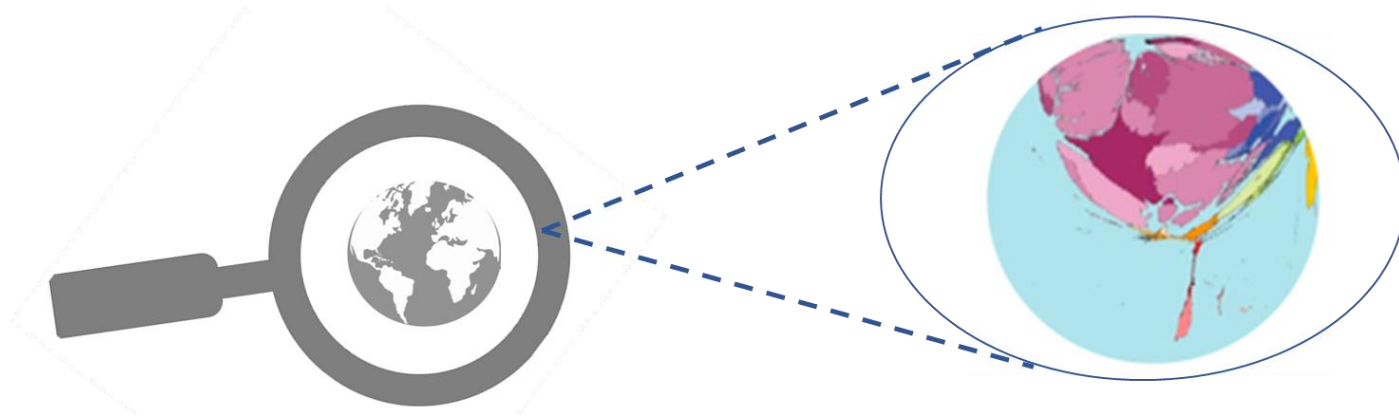


INFECTIOUS DISEASES



PRIVACY PROTECTING





QUESTIONS

DATA

TOOLS

HEALTH

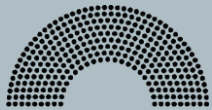


Emergency Now-casting
Antibiotic Over-prescription
Infectious Disease Dynamics
From prescription to diagnosis

Google Trends
SNS24
Twitter
ER acceptance /times
SPMS e-prescriptions

Math Modelling
ML
Epidemiology

POLICY



Agenda Setting
Voting vs. Discourse

Media records
Twitter
Facebook
Parliament data

NLP
Networks
Math Modelling
Complex Systems

BEHAVIOUR



Cognitive Biases
Attitudes Towards Science
Privacy Protecting Analysis

Large scale surveys
Behavioral experiments
Twitter

Networks
Math Modelling
Psychology
Information

Strengths

Solid multidisciplinary team; Demonstrated capacity to attract high quality researchers, competitive funding and publications in high impact journals.

Weaknesses

Limited history of collaboration with researchers at LIP or with LIP's main research partners; Breadth of interests, that limit the creation of focused, critical mass.

Opportunities

Ongoing research receiving wide (both popular and scientific) interest; Ample space to establish SPAC as a leader in a very novel research field; High interest in future collaborations both inside and outside of LIP.

Threats

Very competitive research areas, particularly misinformation and digital epidemiology (and bias detection)

CURRENT FUNDING

