



COMPLEXITY70H

Jun 24-28 2024 • Madrid • Spain

2018 - LUCCA, ITALY



2019 - LUCCA, ITALY



2020 - ROME, ITALY



2018 - LUCCA, ITALY



2019 - LUCCA, ITALY



2020 - ROME, ITALY



2021..

2018 - LUCCA, ITALY



2019 - LUCCA, ITALY



2020 - ROME, ITALY



2022..

2018 - LUCCA, ITALY



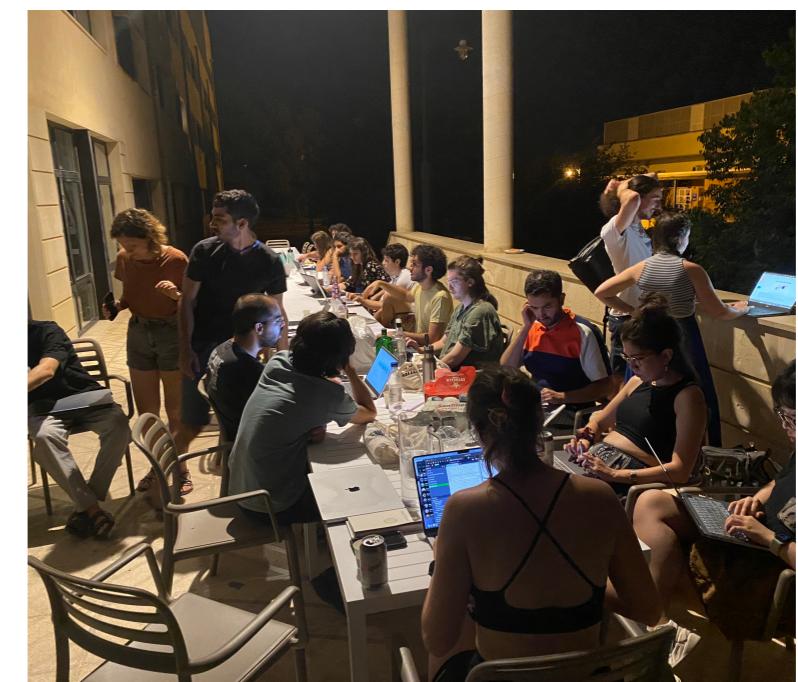
2019 - LUCCA, ITALY

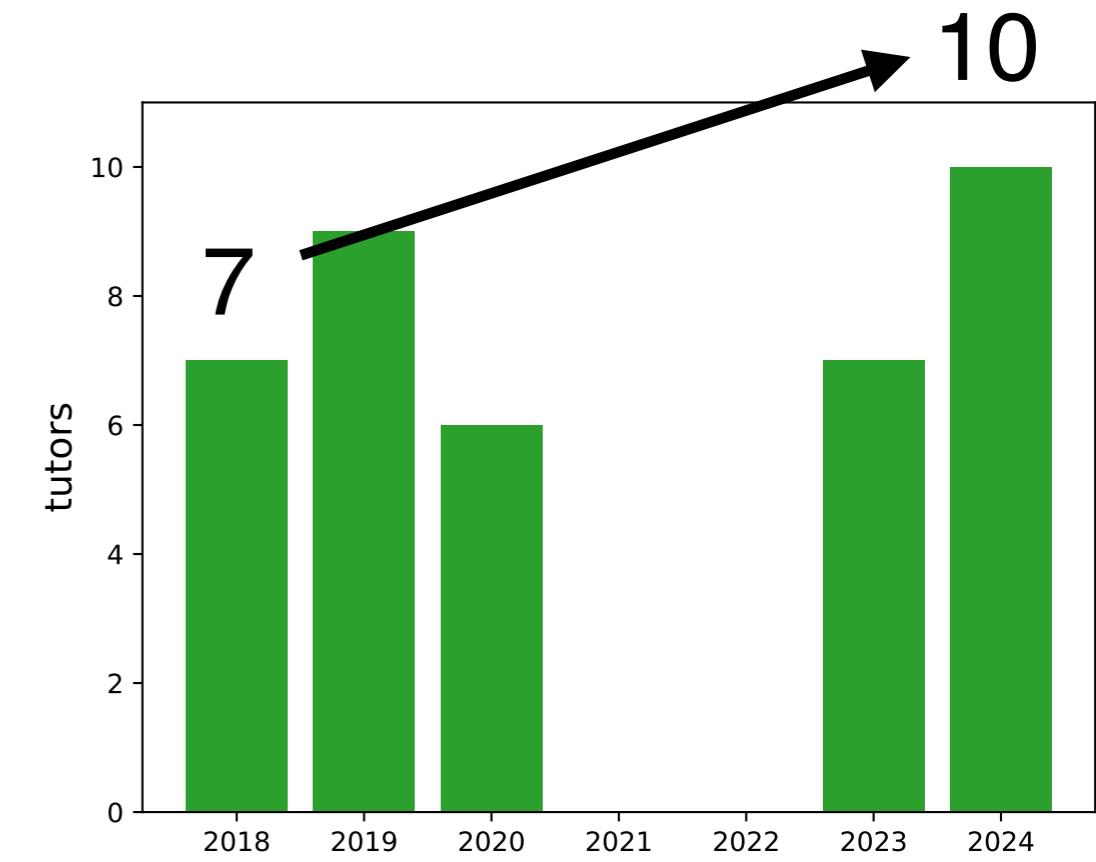
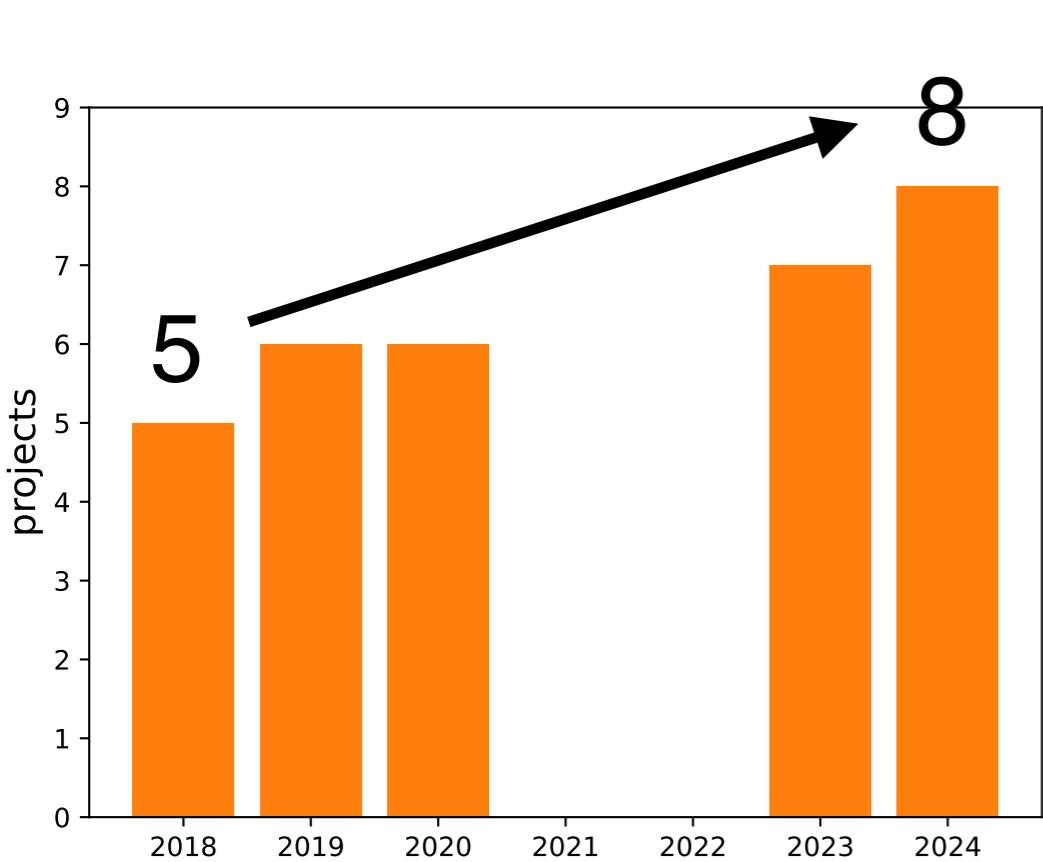
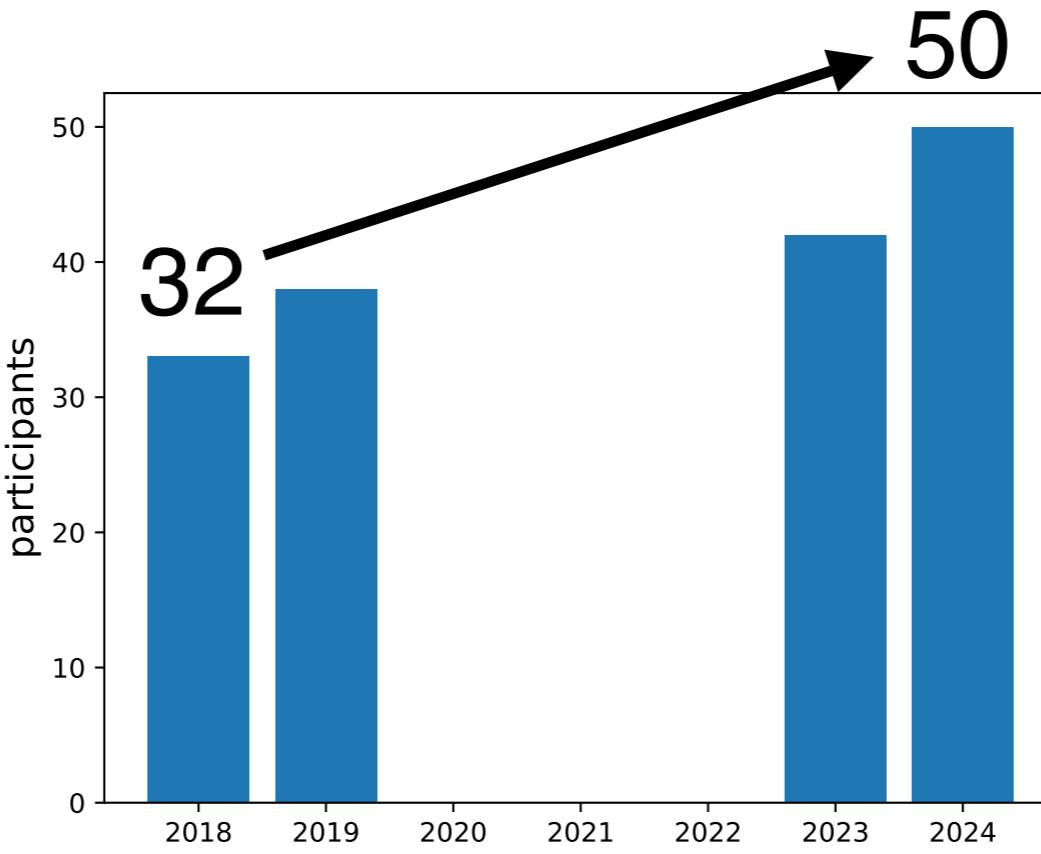


2020 - ROME, ITALY



2023 - PALMA, SPAIN





163 participants

32 projects



32 reports posted

39 tutors

+ new ideas, new friendships, new collaborations...

 **JPS Conference Proceedings**

ISSN:2435-3892

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Alexandre Bovet^{1,2,†}, Carlo Campajola^{7,2,3,†}, Francesco Motte^{4,†}, Valerio Restocchi^{5,†}, Nicolò Vallarano^{2,3,†}, Tiziano Squartini⁶ ... Show all

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Non-selective distribution of infectious disease prevention may outperform risk-based targeting

[Benjamin Steinegger](#), [Jacopo Iacopini](#), [Andreia Sofia Teixeira](#), [Alberto Bracci](#), [Pau Casanova-Ferrer](#), [Alberto Antonioni](#) & [Eugenio Valdano](#)

Nature Communications **13**, Article number: 3028 (2022) | [Cite this article](#)

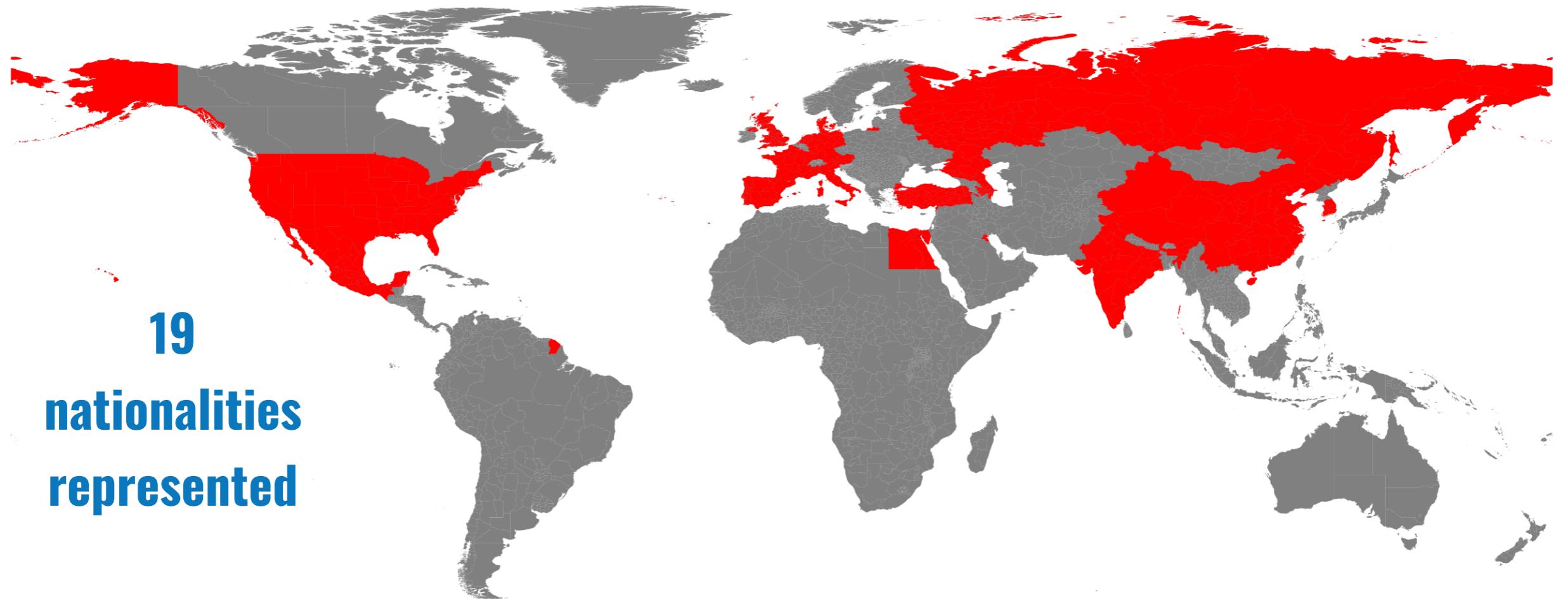
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19
nationalities
represented

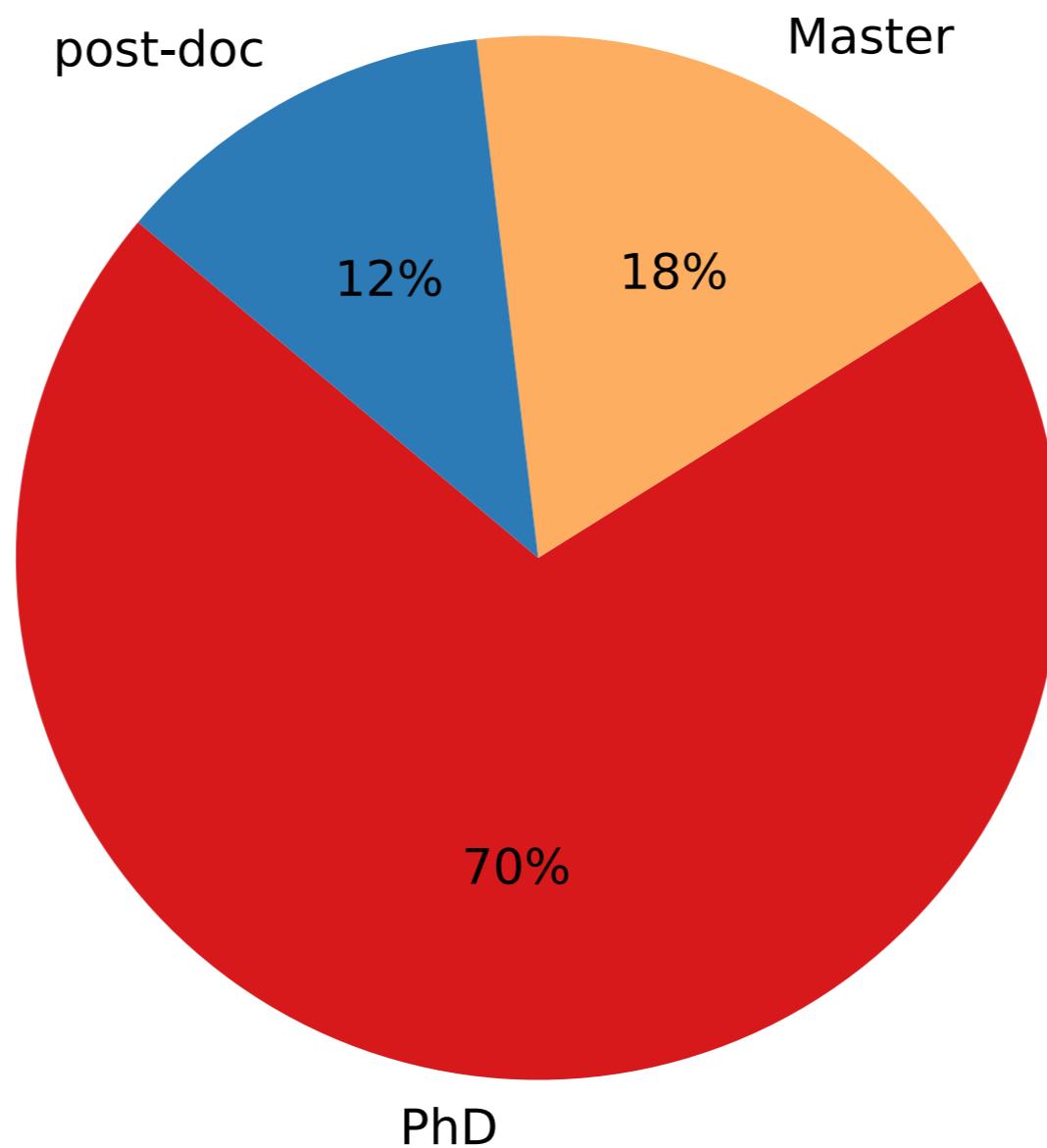


13
countries
represented



- + India
- + South Korea
- + USA

48 PARTICIPANTS



PARTNERS & SPONSORS



PROGRAM

	Sunday June 23rd	Monday June 24th	Tuesday June 25th	Wednesday June 26th		Thursday June 27th	Friday June 28th
08:30 - 09:00	Registration Welcome Talk Invited Lecture: <i>Daniela Paolotti</i> Coffee Break + Survey 1 Invited Lecture: <i>M. Ángeles Serrano</i> 72h Begin! (13:00) + Survey 2 Lunch @ University campus Participant Presentations Coffee Break Project Presentations Social Event Madrid city tour Self-organized dinner	Registration		Room 1	Room 2		
09:00 - 09:30		Welcome Talk	Guest Lecture: <i>Jacopo Fregoni</i>	Tutorial: <i>Firas Blibeche</i>	Tutorial: <i>Gülşah Akçakır</i>	Group Project	Group Project
09:30 - 10:00				Tutorial: <i>Islam Elgamal</i>	Tutorial: <i>Andrea Lo Sasso</i>		Coffee Break
10:00 - 10:30							
10:30 - 11:00							
11:00 - 11:30		Coffee Break + Survey 1	Invited Lecture: <i>M. Ángeles Serrano</i>	Coffee Break		Coffee Break	Group Project
11:30 - 12:00				Tutorial: <i>Elias Najarro</i>		Group Project	
12:00 - 12:30							
12:30 - 13:00				48h Meeting + Survey 4		24h Meeting + Survey 6	GitHub! (13:00) + Survey 8
13:00 - 13:30							
13:30 - 14:00		Lunch @ University campus	Lunch @ University campus	Lunch @ University campus		Lunch @ University campus	Lunch @ University campus
14:00 - 14:30							
14:30 - 15:00							
15:00 - 15:30			Group Project	Group Project		Group Project	Project Presentations
15:30 - 16:00		Coffee Break					Farewell
16:00 - 16:30							
16:30 - 17:00			Project Presentations	Coffee Break	Coffee Break	Coffee Break	
17:00 - 17:30							
17:30 - 18:00			Social Event	Group Project	Group Project		Group Project
18:00 - 18:30							
18:30 - 19:00	Madrid city tour						
19:00 - 20:00							
20:00 - 21:00				Survey 3	Survey 5	Survey 7	
21:00 - ...	Self-organized dinner	Social Dinner	Dinner @ University campus	Dinner @ University campus	Dinner @ University campus	Dinner @ University campus	

LECTURERS



Daniela Paolotti

Monday



Ricard Solé

Monday



Jacopo Fregoni

Tuesday



M. Ángeles Serrano

Tuesday

TUTORS



Alessandro Galeazzi & Max Falkenberg
computational social science



Amanda Perofsky
epidemiology



Davide Colombi
urban mobility (Cuebiq)



Ebrahim Patel
network optimization



Elisa Omodei
food insecurity



Iacopo Iacopini
higher order networks



Pilar Guerrero & Javier Galeano
cancer dynamics



Mattia Mazzoli
human mobility and segregation

WHAT IS COMPLEXITY72H?

- 72 hours start on Tuesday, 1pm
- goal: present & submit the report by Friday at 1pm
- more details this afternoon..

FROM TUESDAY IT WILL BE UP TO YOU,

and you only,

TO MAKE THIS WORKSHOP GREAT AGAIN

some useful info...

- **meals**: all included until Friday's lunch
- **meals**: all at the cafeteria (follow: COMEDOR)
- **breakfast**: 0730 - 1030
- **lunch**: 1300 - 1600 (yes, we are in Spain)
- **dinner**: 2030 - 2230 (yes, we are still in Spain)
- 24-hour **coffee breaks** @ Salón de Actos
- **laundry room** available (pay there with card)

and if it's not enough...

tutorials by you (Wed morning)

Firas Blibeche

synchronization in bipartite data

Gülşah Akçakır

ABM with Netlogo

Islam Elgamal

network visualization

Andrea Lo Sasso

ML with unbalanced datasets

Elias Najarro

Neural cellular automata

social EVENT & BANQUET: TONIGHT

meeting

student dorm - in front of the main lobby entrance

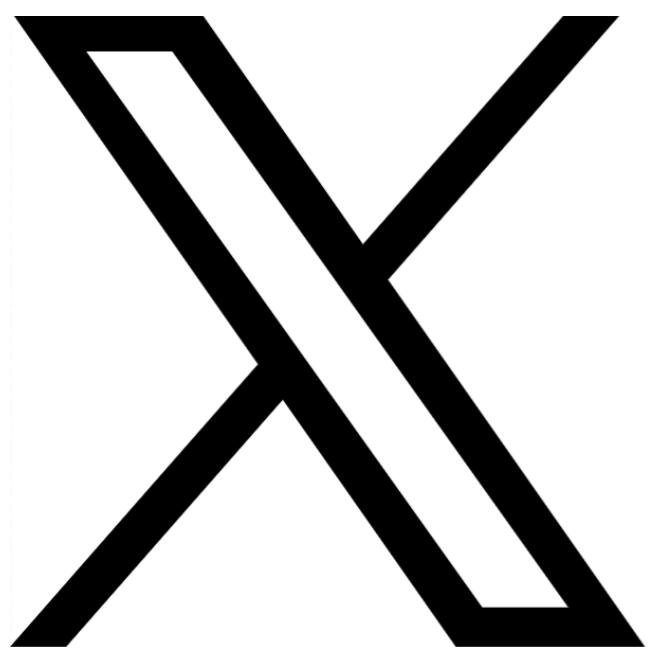
5.15pm

location unknown ☺☺ - activity unknown (outdoors) ☺☺ - wear comfortable shoes ☺☺

we will be back at the dorm at around 12am - 12.30am

⚠ TIME IS STRICT ⚠

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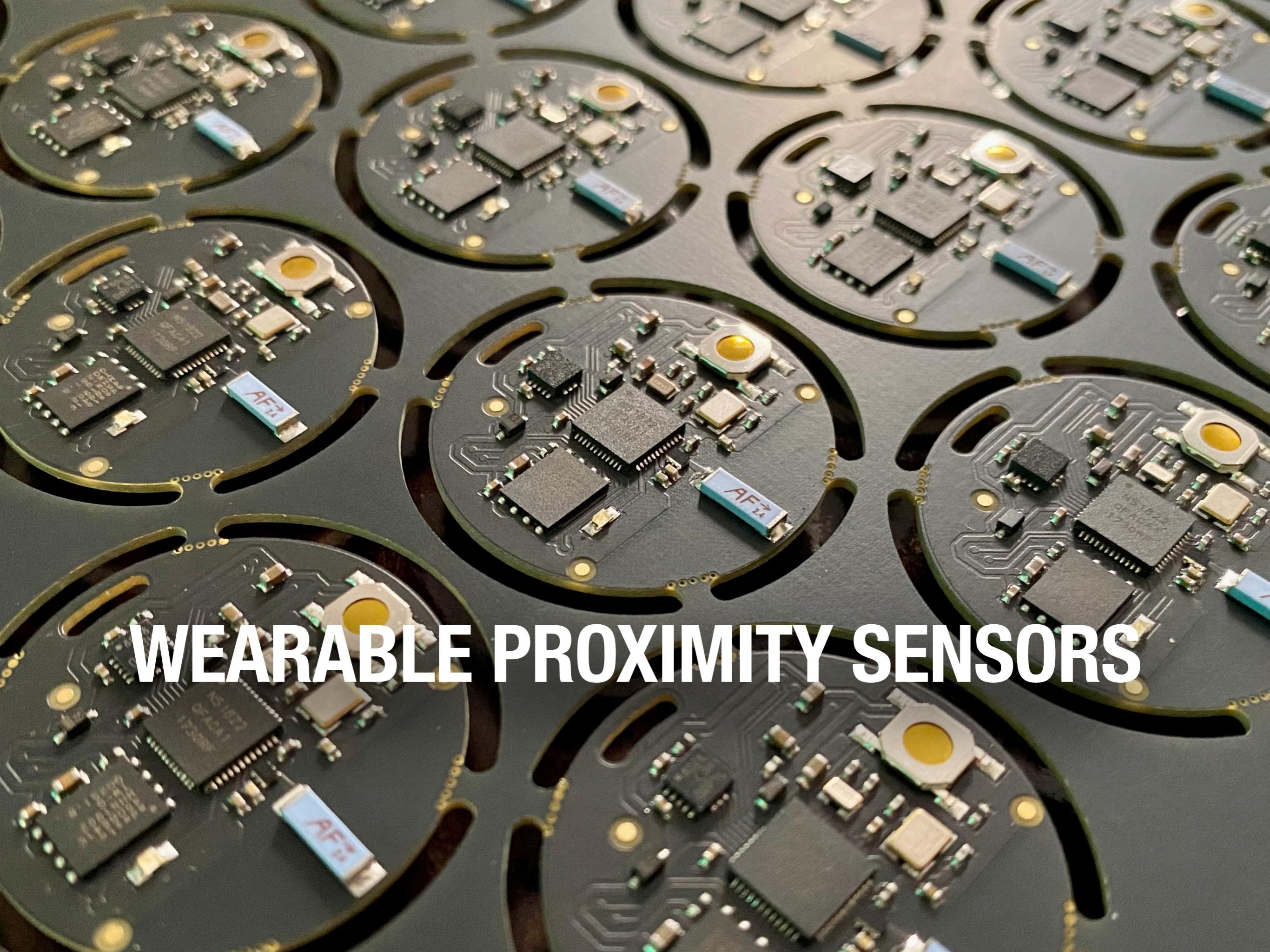
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**And now
the social experiment...**

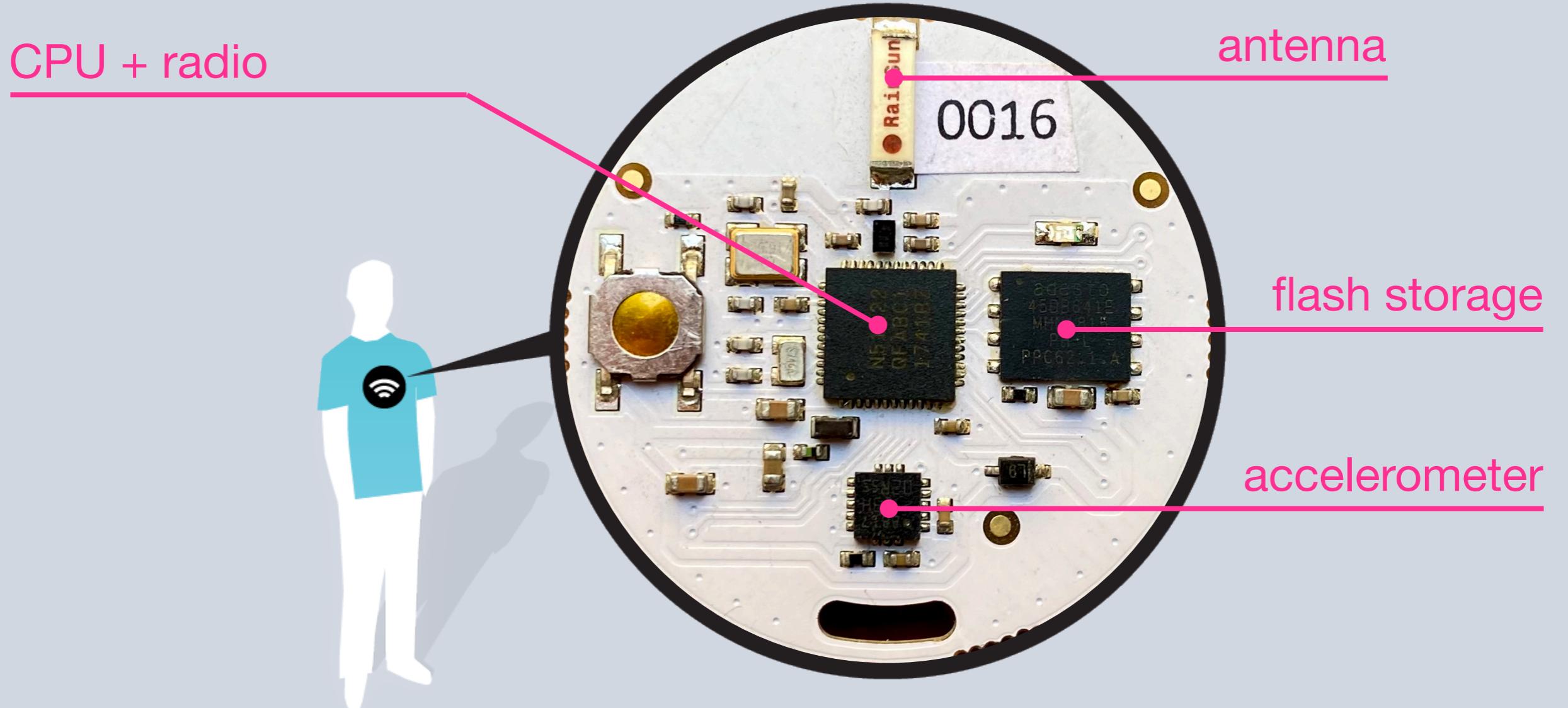
SocioPatterns

+

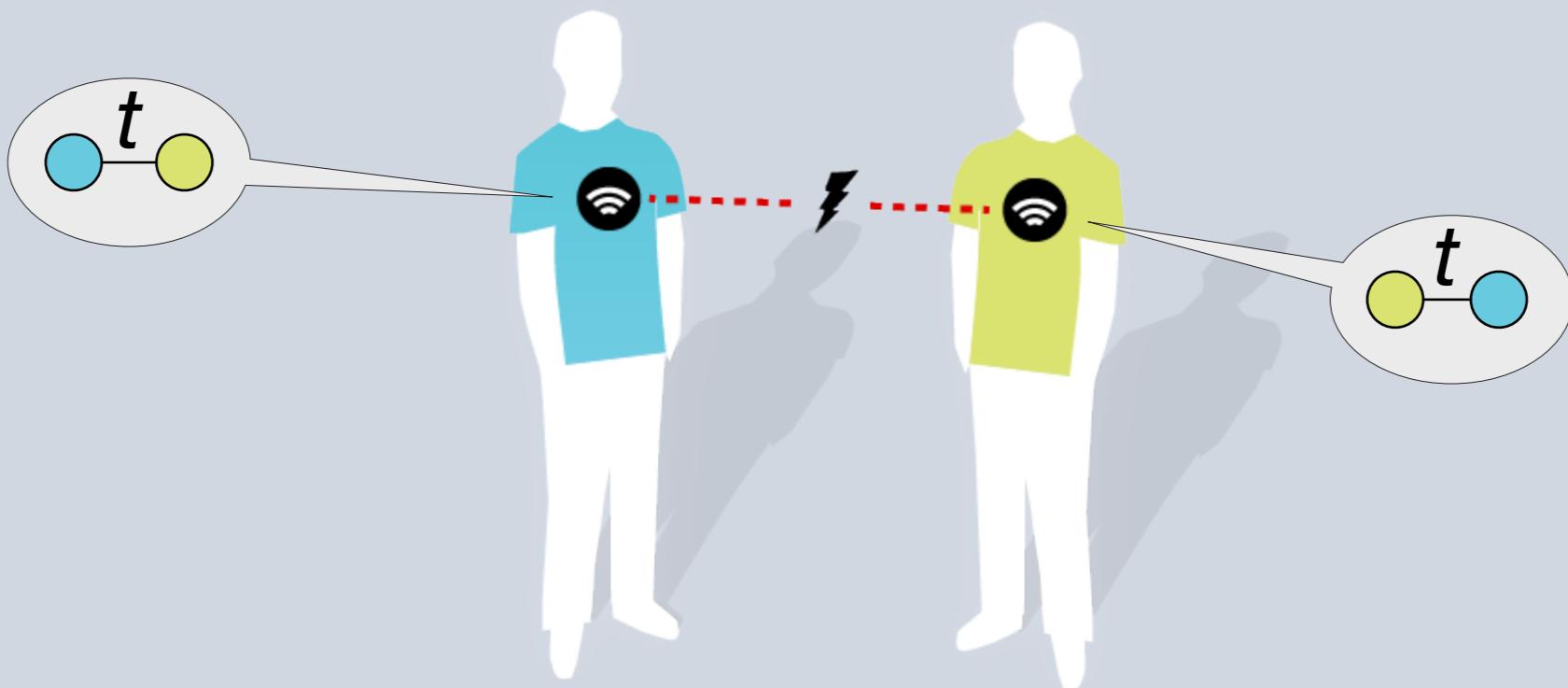
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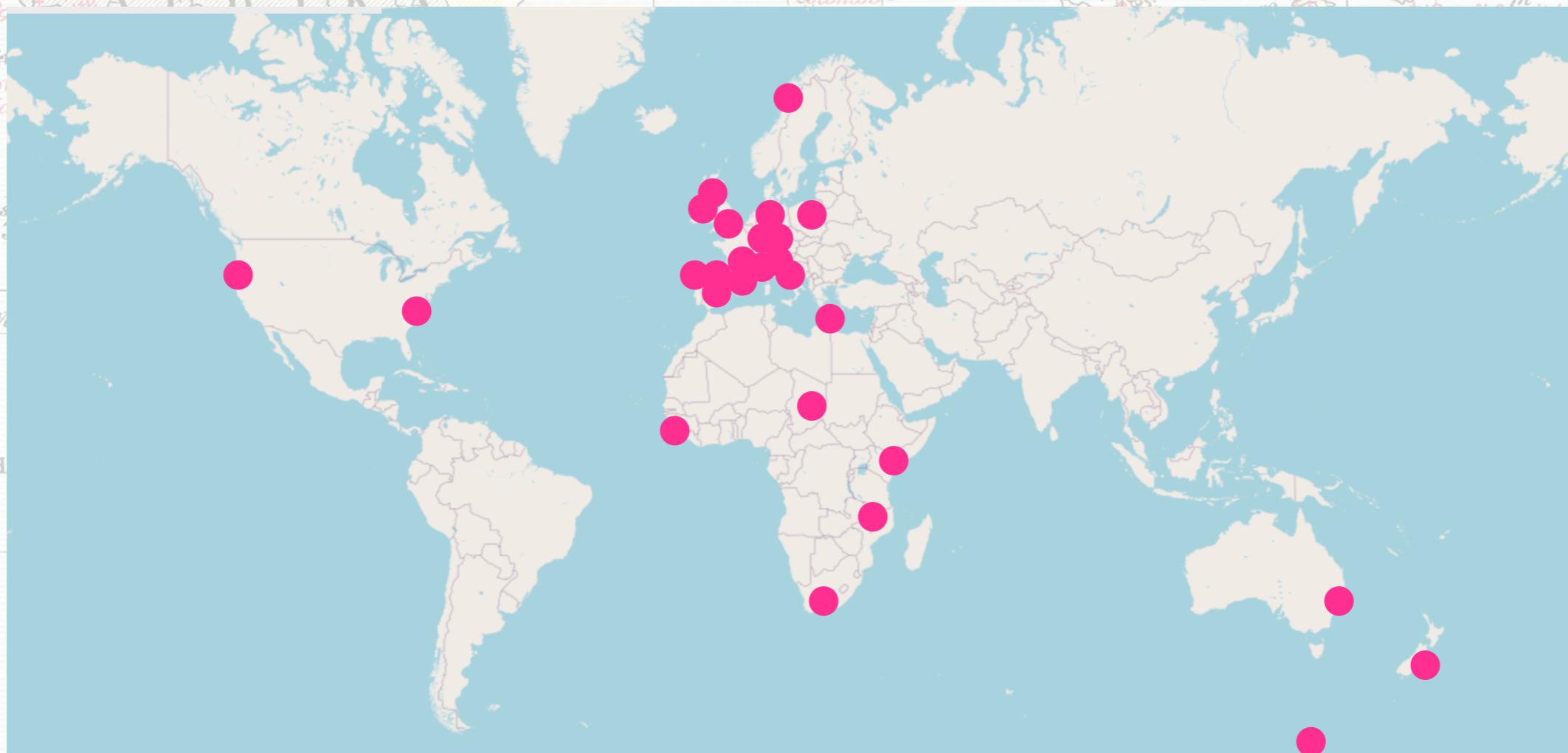
WEARABLE PROXIMITY SENSORS



- ▶ decentralized operation
- ▶ onboard proximity log



the SocioPatterns collaboration



15 years, 45+ deployments, 15 countries, 50,000+ subjects,
100+ papers, >2,000 papers using our data

time-resolved proximity networks across
a variety of real-world settings

www.sociopatterns.org/publications

open data



- primary school aggregated contact network

J. Stehlé et al., PLoS ONE 6(8), e23176 (2011)



- ACM HT2009 conference temporal network

L. Isella et al., J. of Theoretical Biology 271, 166 (2011)



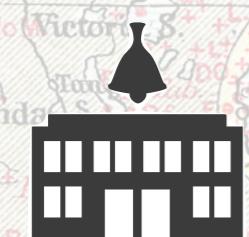
- INFECTIOUS exhibition temporal network

L. Isella et al., J. of Theoretical Biology 271, 166 (2011)



- hospital ward temporal network

P. Vanhems et al., PLoS ONE 8(9), e73970 (2013)



- high school temporal network

J. Fournet et al., PLoS ONE 9(9), e107878 (2014)



- high school proximity & friendship network

R. Mastrandrea et al., PLoS ONE 10(9), e0136497 (2015)

data used for:

Data
Science

- Network science & complex systems
- Algorithms for temporal networks (e.g., community detection)
- Dynamical processes on temporal networks
- Machine learning on time-varying graph data

Computational
Social
Science

- Social network analysis
- Human dynamics, behavioral modeling
- Team dynamics and performance

Epidemiology
& Public
Health

- Modeling human contact patterns
- Infectious disease dynamics
- Design of targeted interventions
- Social correlates of health outcomes



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+

**And now
the social experiment...**

SocioPatterns

+

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