Matinée d'information et de réseautage sur les AAP 2022 de l'Académie RISE

Academy of Excellence 1: "Networks, Information and Digital Society" (RISE)

17 mai 2022

Ambitions / scope of action of the RISE Academy

- Designing and experimenting communication networks of the future
  - e.g. 5G/6G networks and processing of massive distributed data

- Developing digital sciences to model, simulate and experiment
  - e.g. in the physical, biological and medical domains

- Improve the understanding of the transformation induced by the digitalization of society
  - impact on citizens with challenges related to privacy, and to legal and ethical aspects

Role of the RISE Academy – Research strategy

- Idex 1 (2016-2020): *Agitator*
  - Implementation of bottom-up actions (Open call for proposals, mobility grants)
  - Support for interdisciplinary actions
  - Animation of the scientific community

- Idex 2 (2021 -): *Incubator*
  - Support the scientific excellence of emerging (inter)disciplinary research
  - Stimulate intellectual exchange to enable the emergence of new ideas and the development of innovative actions
  - Participate in the scientific policy of the site by promoting and evaluating structuring programs
  - Strengthen the international influence of activities within its scope

RISE positioning w.r.t. DS4H

- 2016-2020:
  - Joint activities : *same perimeter for Academy (2016) and EUR (2018)*
  - Same executive, scientific (CoSP) and steering committee (CoPil) members
    - Exec: Hervé Delingette and Johan Montagnat
  - Different from other Academies/EURs (perimeters, ressources)

- Since 2021:
  - Two executive committes, same CoSP, same CoPil
  - Education aspects are treated by the EUR
  - Research animation activities are treated by the Academy
  - Financing of joint projects

Activities since 2016

- **Scientific animation**:
  - Data Science MeetUp (2017), Digital Privacy (2018), Digitalization & Environment (2019), Quantum@UCA (2021), Forum Numerica

- **Funding research activities:**
  - Support innovative interdisciplinary projects (**29 projects - 1,2 M€**, + 1,5 M€ leveraging effect, + 50 publications, industrial and international collaborations)
  - Post-docs (**12**), PhDs (jointly with DS4H), interns
  - Equipments funding
  - Support researchers and students mobility
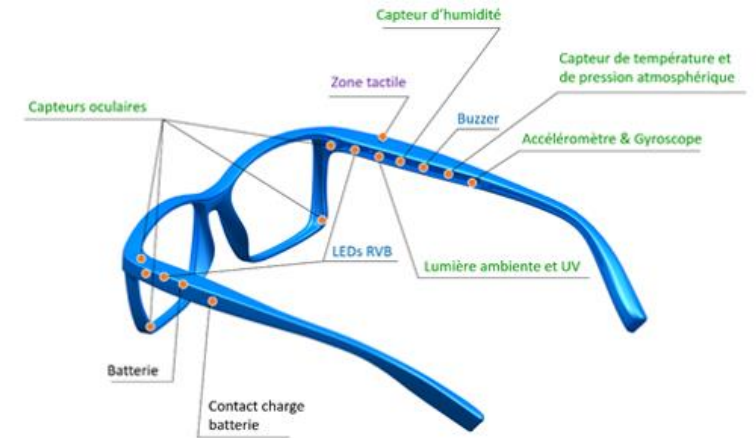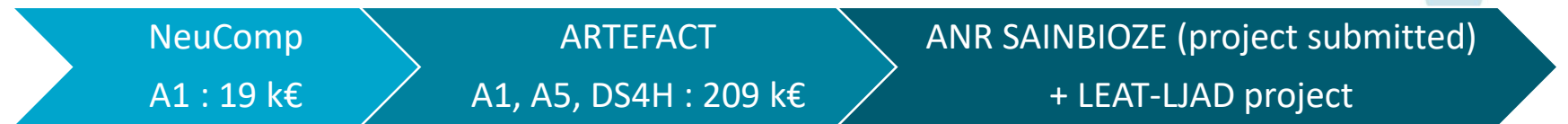 - Support thematic events organization

Highlights on last projects funded by RISE Academy

- Project ARTEFACT "Study and design of digital devices for sensory substitution and extended cognition"

- Project EMC2 "Emergence of money with cognitive computational agents"

- Project I-LL-WIN "Improved localization in wireless IoT networks"

- Project MAD "Modeling Air-travel Booking Behavior and Market Dynamics"

- Project MYDATA "Muddle your data"

- Project SIM Phase 2 "Smart IoT for mobility – Phase II"

- Project SNIF "Scientific networks and Idex funding"

- Project IBRID "From learning-based identification to model-based control"

Zoom ARTEFACT
Study and design of digital devices for sensory substitution and extended cognition

- PI : Daniel Gaffé, LEAT

- Multidisciplinary and international academic partners :
  LEAT, I3S, LJAD, GREDEG, MSHS, LAPCOS, Université de Tokyo

- Industrial partner : Ellcie-Healthy, Abeeway

- RISE Academy funding : 49,5 k€

- 1 publication

- Developments : Autonomous geolocation device, Smart glasses prototype, New softwares

- 1 PhD, 1 Postdoc, 2 Interns

- Leveraging effect :

NeuComp	ARTEFACT	ANR SAINBIOZE (project submitted)
A1 : 19 k€	A1, A5, DS4H : 209 k€	+ LEAT-LJAD project

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NETWORKS, INFORMATION, AND DIGITAL SOCIETY

Zoom EMC2
Emergence of money with cognitive computational agents

- Using methodologies from computer science together with cognitive agent methodology to study the acceptance of fiat money in a decentralized context

- PI : Maurizio Iacopetta, GREDEG

- Multidisciplinary and international academic partners : GREDEG, I3S, Georgia Institute of Technology Mathematics, Osaka university

- RISE Academy funding : 29 k€

- 2 publications

- 2 Interns

Zoom I-LL-WIN
Improved localization in wireless IoT networks

- Objective : The development of a localization system in LPWAN IoT networks

- PI : Leonardo Lizzi, LEAT

- Multidisciplinary and international academic partners : LEAT, Inria, FBK (Trento, Italy)
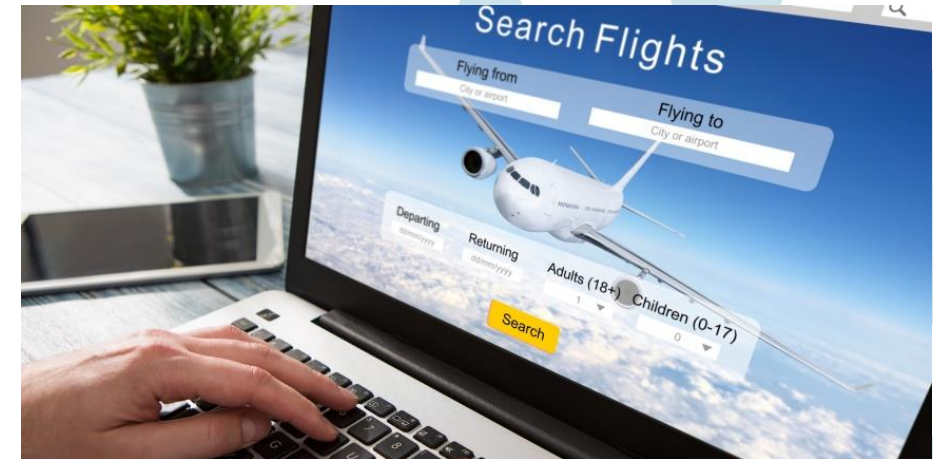
- RISE Academy funding : 41 k€

- Leveraging effect :

I-WIN	I-LL-WIN	H2020 PASSEPARTOUT
A1 : 36 k€	A1 : 41 k€	Total : 7 M€ (210 k€ for LEAT)

- 8 publications

- 1 PhD, 2 Interns

Zoom MAD
Modeling Air-travel Booking Behavior and Market Dynamics

- Study the online booking behavior of airline travelers

- PI : Zakaria Babutsidze, SKEMA

- Multidisciplinary and international academic partners : SKEMA, GREDEG, North Carolina State University, Osaka University, Rochester Institute of Thecnology

- Industrial partner : Amadeus

- RISE Academy funding : 75 k€

- 6 publications

- 1 PhD, 1 Postdoc

- Leveraging effect : 1 year PhD (SKEMA), 2 years postdoc (AAP Partenariat), discussions with partners for additional funding
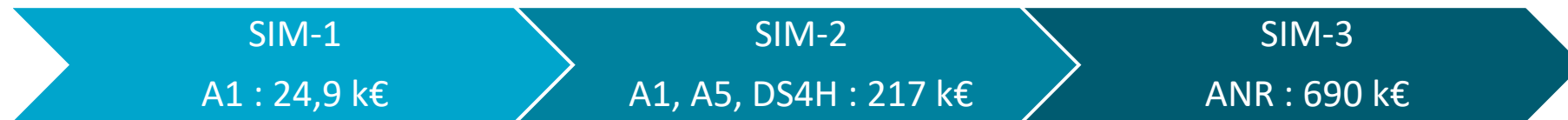
Zoom MYDATA
Muddle your data

- Study how users can defend their privacy against profiling attempts from different service providers

- PI : Giovanni Neglia, Inria

- Multidisciplinary and international academic partners : Inria, LJAD, GREDEG, Purdue University (USA)

- RISE Academy funding : 27,7 k€

- 3 publications

- 7 interns, 2 PhD, 1 Postdoc

- Leveraging effect : 2 industrial PhD thesis (SAP Labs and Amadeus)

Zoom SIM Phase II
Smart IoT for mobility – Phase II

- Study the use of blockchain and smart contracts for mobility, their execution and their acceptance

- PI : François Verdier, LEAT

- Multidisciplinary academic partners : LEAT, I3S, GREDEG

- Industrial partners : Renault, SYMAG

- RISE Academy funding : 61,5 k€

- Leveraging effect :

SIM-1	SIM-2	SIM-3
A1 : 24,9 k€	A1, A5, DS4H : 217 k€	ANR : 690 k€

- 15 publications

- 7 PhD, 2 Postdocs

Zoom SNIF
Scientific networks and Idex funding

- Objective : Estimate the impact of public funding on researchers' collaboration and productivity

- PI : Patrick Musso, GREDEG

- Multidisciplinary academic partners : GREDEG, I3S, Inria, SKEMA

- International collaboration : Maastricht University, Wroclaw University of Science and Technology

- RISE Academy funding : 75 k€

- 6 publications

- 1 PhD, 1 Postdoc

- Leveraging effect : Visiting professorship, European Patent Office grant, 1 Postdoc (I3S), Erasmus+ scholarship

Zoom IBRID
From learning-based identification to model-based control
Ongoing project

- System identification based on deep learning approach using only indirect measurements

- PI : Guillaume Allibert, I3S

- Multidisciplinary academic partners : I3S, INPHYNI

- RISE Academy funding : 75 k€

- 3 publications in progress

- 1 PhD, 1 Postdoc

2022 Calls for projects

- **DocWalker 2022**
  - UCA PhD mobility of 1 to 3 months
  - Application deadline : 1 June 2022

- **POSTDOC 2022**
  - Two postdocs of 1 year + 5 k€ environment
  - Application deadline : 15 June 2022

- **RESEARCH 2022**
  - Research projects benefited from 10 to 50 k€
  - Application deadline : 15 June 2022

- **THEMATIC SCHOOL**
  - 20 k€ for the organization of a thematic school
  - Application deadline : 15 September 2022

POSTDOC 2022

- **Application deadline : 15 June 2022 – 12 am**

- Funding for 2 post-doctoral researchers for 1 year (+ environment) in a research team within the scope of RISE Academy

- Post-doctoral researcher monthly gross salary : around 3470 €

- + 5 k€ to cover operational costs (missions, équipements…)

- Start date of the contract : between 1 September 2022 and 31 January 2023

- Candidate eligibility :
  - Must have defended his dissertion prior to the start of the contract
  - Must not have been hosted more than 6 months at the requested host team during his PhD

- Main evaluation criteria :
  - Scientific excellence of the candidate
  - Scientific quality of the research project (excellence, originality, interdisciplinary aspects)

RESEARCH 2022

- **Application deadline : 15 June 2022 – 12 am**

- Funding for ambitious research projects in the scientific fields of RISE Academy showing **novelty** in their thematic and **interdisciplinary** aspects

- Funding : between 10 k€ and 50 k€

- Eligible expenses :
  - Funding for missions, internships, equipment…
  - Funding for student in pre-PhD or in the last year of his PhD (period of 6 months maximum – 20 k€ maximum)

THEMATIC SCHOOL

- **Application deadline : 15 September 2022**

- Funding for the organization of a thematic school in 2023 for PhD and researchers

- Funding : 20 k€

- Objective : funding a school on **emerging scientific thematic** or emerging methodology, demonstrating **multidisciplinary** aspects

- Main evaluation criteria :
  - Scientific quality of the school (scientific excellence, potential speakers)
  - Quality of the organization of the school
  - Novelty of the thematic of the school and multidisciplinary aspects

Questions ?

Pitchs program

- Florent Doutre - « Fabrication de circuits intégrés photoniques »

- Cédric Richard – « Massive smart cities monitoring : the Sequoia project »