



## ACEPartner Project

### *Digital Science and Technologie Network (DSTN)*

### **Thematic Workshops: e-Agriculture**

March 17th 2021, 9.00am-12.00pm UTC

### **Call for Communication**



### **About the Digital Science and Technologie Network (DSTN)**

DSTN brings together ACEs working in digital science and technology (informatics and mathematics) to address some of the challenges posed by the digital transformation of science, the economy and society as a whole. Five scientific priority areas have been identified namely **Big Data and Trusted Artificial Intelligence, IoT systems and Software Defined Network in poorly connected areas, Cybersecurity, High-Performance Computing, and Data Science**, applied to Health, Agriculture, Environment, Education, and Smart Cities.

The network aims at supporting collaborations between African Centers of Excellence. Its support consists to provide and co-finance PhD scholarships, mobility grants, scientific events and expertise in these scientific priority areas with the following objectives:

- **Strengthening research capacities** and research collaboration between ACEs and with international research institutions, through thematic workshops, joint research teams and PhD co-supervision.
- **Strengthening higher education training capacities** through joint training programs, exchange of teachers, students and internships.
- **Strengthening innovation capacities and ties with the non-academic sector** through the involvement of relevant socio-economic actors in training and research activities.
- **Ensuring the network's sustainability** through application for competitive funding and private funding.

### **Overview of the DSTN Thematic Workshops**

The DSTN Thematic Workshop is a series of half-day meeting gathering the members of our network and invited external partners to discuss around a scientific topic (*Big Data and, Trusted Artificial Intelligence, IoT and SDN in poorly connected areas, Cybersecurity,*

*High-Performance Computing, and Data Science*) or an application domain (*e-Health, e-Agriculture, e-Education, e-Environment, Smart City*). It allows (1) identifying strengths and complementarity of the partners on each topic, (2) promoting networking and collaboration to apply for the DSTN call for Research-Team and other calls for funding, and (3) identifying lecture and training needs and opportunities for the ACEs.

### **About the e-Agriculture Thematic Workshop**

This workshop is focused on highlighting our network scientific results, innovation and ongoing projects on e-Agriculture. It also aims to explore the state of the art of Digital Agriculture in Africa and possibly open problems to which digital sciences and technologies could provide solutions. Our special guests are NET-WATER, AGRISAN and CIRAD.

### **About our partners**

**NET-WATER** is an ACE-Partner<sup>1</sup> thematic network on sustainable water management gathering ACEs from Burkina Faso (network leader), Ghana, Ivory Coast and Benin. The general objective NET-WATER is to strengthen academic and scientific partnerships between African Centers of Excellence on the theme of sustainable management of water and associated resources.

The African Center of Excellence in Agriculture for Food and Nutrition Security **AGRISAN**<sup>2</sup> is a public scientific cooperation consortium comprising four Senegalese universities (UCAD, UGB, UT, USSEIN) and the Consortium for Economic and Social Research (CRES). AGRISAN aims to help make agriculture play a major role in economic growth, food security and poverty reduction in Senegal and in the West African sub-region through innovative training and research in all segments of agricultural value chains.

**CIRAD**<sup>3</sup>, the French Agricultural Research Centre for International Development, is an organization working for the sustainable development of tropical and Mediterranean regions. Its activities concern the life sciences, social sciences and engineering sciences, applied to agriculture, food, the environment and territorial management. Its work centres on several main topics: food security, climate change, natural resource management, reduction of inequalities and poverty alleviation.

### **Agenda**

- Presentation of the DSTN (10 minutes)
- Presentation of the RES'EAU (10 minutes)
- Presentation of the AGRISAN (10 minutes)
- Keynote Speaker - CIRAD (20 minutes)
- Communications (15 minutes x 6)
- Discussions (30 minutes)

### **Submission of communication proposal**

Communications must be informative taking into account the heterogeneity of the audience. Each presentation is scheduled for 12 minutes at most + 3 minutes for Q&A.

Proposal (Title, abstract ~10 lines, speaker bio ~10 lines) must be sent to the DSTN Coordinator Dr. Gaoussou Camara at [gaoussou.camara@uadb.edu.sn](mailto:gaoussou.camara@uadb.edu.sn).

**Deadline** March 1st 2020.

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<sup>1</sup> <https://en.ird.fr/acepartner>

<sup>2</sup> <http://ceaagrisan.sn>

<sup>3</sup> <https://www.cirad.fr/en>