

ARID

Développement agricole et ressources en eau souterraine dans les régions semi-arides

Tunis, octobre 2019



The GDRIs

- a support initiative created and funded by IRD
- an international network of research labs
 - united by a common research topic useful for the sustainable development in tropical and Mediterranean areas
 - with a consistent interest for S-S interactions, and pluri/inter-disciplinary works
- over a term of 4 years, with one possible renewal



ORIGIN

- former tripartite project (France-Brazil-Africa)
called CORRES'EAU



- launch of the GDRI initiative by IRD

- focus on the evolution of water resources, mainly groundwater, in semi-arid areas and their exploitation for the agricultural development

- first test of acceptability in 2017, modification and success in 2018



PARTNERS

Country	Institution	Reasearch unit	Colleagues
Algérie	Université de Ouargla	Faculté des Sciences	HADJ SAID Samia
Algérie	Université de Ouargla	Faculté des Sciences	ZEDDOURI Aziez
Brésil	FUNCEME	RH	MARTINS Eduardo
Brésil	FUNCEME	RH	MÖBUS Gilberto
Brésil	FUNCEME	RH	NILO de CARVALHO Valdenor
Brésil	Uni. Féd. Rio Grande do Norte	DCAA	OJIMA Ricardo
Brésil	FUNDAJ		FUSCO Wilson
Cameroun	Université de Ngaoundéré	Faculté des Sciences	NGOUNOU NGATCHA Benjamin
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France	IRD	UMR HSM	TAUPIN Jean Denis
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Mauritanie	E.S. Polytechnique	MPG	MOHAMED Ahmed Salem
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MAIN OBJECTIVES

- to gather colleagues with a large thematic and geographical spreading
- to share field experiences in very various socio-environments
- to identify causes and consequences of major socio-hydrological changes
anthropization vs. climate
changes in processes, fluxes, location, etc.
- to disseminate our understanding in the academic world and in the society



PLANNED ACTIVITIES

Research

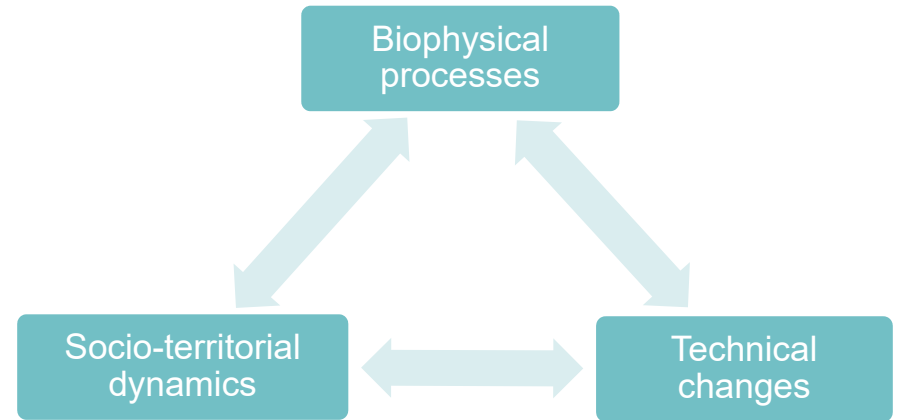
Internal life of ARID

Development of numerical resources



RESEARCH

No funding for starting a "new" research



Analysis of trajectories of different semi-arid socio-hydrosystems.

Inter-comparison of the different cases.

Sharing of critical analyses of methods and results of research, and the pro/con of various approaches.

Exchange of students and researchers in other ARID teams.

Promoting publication in international journals (papers and special issues).



ARID INTERNAL LIFE

Numerical sharing of information (news, opportunities, new ideas).

Webinar of research

every 3 months: a topic of common interest is presented, and discussed by other connected members (with a strong contribution of PhD students)
preliminary distribution of the major facts to allow a deep discussion
numerical trace of the discussion published later.

Animation meeting

every 3 months

internal dynamics, exchange of information, project calls, conferences, etc.).

Aperiodic meetings when useful.

Physical meeting in the first (Tunis) and third year (?), with the obvious limit of funding.



DEVELOPMENT OF NUMERICAL RESOURCES

Starting from the former idea of a MOOC dedicated to water resources in semi-arid areas, still in progress (ex. https://www.youtube.com/watch?v=TZ_U3Yx58v4).

Development of a numerical library, broader than the MOOC format limitation, on scientific and technical issues, complemented with detailed case studies, discussion on various information, etc.



BUDGET

13 K€ /a for 4 years

a priori:

- 50 % pour les séjours scientifiques des étudiants et chercheurs dans d'autres équipes du réseau et les rencontres internes à l'occasion de conférences internationales
- 20 % pour le soutien à la publication en revues internationales (révision de l'anglais, open access)
- 20 % pour le développement de ressources numériques (études de cas et adaptation du MOOC)
- 10 % pour les dépenses diverses et imprévues.



POSSIBLE EVOLUTION

opening towards new partners in
the Mediterranean region
South America (Peru, Chile)
Sahel (Niger)



TENTATIVE AGENDA

Wednesday October, 2 afternoon

- Short presentation of our respective competences, present research, major interests and existing links with others
- Identification of scientific areas of common interest

Thursday October, 3 morning

- Identification of scientific areas of common interest (*contd.*)
- Development of numerical resources
- Possible extension of the ARID perimeter
- Preliminary

Thursday October, 3 afternoon

- Identification of scientific areas of common interest (*contd.*)
 - Focus on enhancing interdisciplinary research
- Setting up of activities for 2020 (Which activities? Who?)



Every improvement is welcome

Remarks, alternative proposals, new or better ideas?

