



Polytechnic Institute of Viana do Castelo

Center for Research and Development
in Agrifood Systems and Sustainability

PLAN OF ACTIVITIES 2020

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SUMMARY

The purpose of this document is to systematize the set of activities to be carried out by CISAS during the year 2020 considering the contents specified in the financing application proposal submitted to the Foundation for Science and Technology (FCT) in 2018, now adjusted to the pluriannual 2020-2023, Base and Programmatic Funding, respectively of 198,400.00€ and 355,000.00€, for 2020-2023 period funding, approved in December 2019. CISAS has got an overall Quality Grade of “GOOD”, with rate 3 in the three Evaluation Criteria Ratings, such as (A) Quality, merit, relevance and internationalization of the R&D activities of the Integrated Researchers in the R&D Unit Application; (B) Merit of the team of Integrated Researchers; (C) Appropriateness of objectives, strategy, plan of activities and organization. The Programmatic Funding includes a PhD (junior) research contract

1. Introduction

The Center for Research and Development in Agrifood Systems and Sustainability (CISAS, FCT Project Reference FCT -UID/05937/2017) is a multidisciplinary research and development (R&D) unit, based at the IPVC, which is focused on agri-food systems and sustainability issues, thus organized in two main areas, namely Agri-Food Systems and AgroSystems Resource Management and Sustainability.

CISAS Research Unit's Activity Plan for the year 2020 to be presented should be aligned with the contents specified in the financing application proposal submitted to the Foundation for Science and Technology (FCT) on the 9th of February 2018, adjusted to the pluriannual 2020-2023 funding approval in December 2019, comprising a base funding of 198,400.00 € (UIDB/05937/2020) and programmatic funding of 355,000.00€ (UIDP/05937/2020).

In the aforementioned original proposal submitted for funding in 2018, it is mentioned that CISAS implementation program foresees 3 distinct stages, however complementary, where internationalization is an important goal, reinforcing the strategy to promote mobility programs, increase the participation in projects, societies and publications and the involvement in doctoral programs.

In the original application for funding, it was considered critical for attaining the stated CISAS objectives to hire 4 PhD researchers (two per area/axis) fully allocated to CISAS' activities. However, the approved funding was considerably reduced and just a PhD junior contract has been financed under programmatic funding (UIDP/05937/2020).

Considering the evolution of the Center's activity in the last two years (2018-2019) before funding, and now considering the FCT approved pluriannual funding budget, the objectives, activities and outputs are presented in next chapters, with a view to their implementation in 2020.

2. Pluriannual plan adjusted 2020- 2023

Updating, considering that year 2020 is the first year of FCT funding, and adjusting the original calendar to date, regarding the present pluriannual funding budget, and the Evaluation Panel recommendations, CISAS is committed to:

The **first stage- Organization (2020)**, intends to: i) prepare, present and manage the evaluation process to support the creation and formalization of the Unit, inventory of human resources and materials, CISAS structure and governance, combining with the model implicit in its strategic axes, objectives and regulations; ii) to increase the number of applications/consortia for R&D project funding opportunities and reequipment.

The **second stage - Affirmation (2021-22)**, intends to: i) Stimulate scientific publications; ii) increase the number of HR financing (post)doctoral grants, scholarships to support R&D activities in parallel with the leverage protocols, and contracts for specialized services; iii) increase the number of researchers and undergraduates to stimulate coordination and integration between the work areas; iv) increase the number of publications in terms of quantity and quality of the output in peer-reviewed journals (at least second quartile, Q2). Scientific events (seminars, lectures, exhibitions, workshops) will be also promoted.

The **third stage- Excellence (2022-23)**, intends to: i) the definition of PhD Programs and integration in international research networks to have international scholarships from Europe, America, and Portuguese-speaking countries; ii) Stimulate intellectual property as well as, according to the programs of innovation and entrepreneurship, the incubation and acceleration for the startup; iii) Increase the number of scientific publications in top journals (first quartile, Q1); Scientific events (seminars, lectures, exhibitions, workshops) will be also promoted.

3. Objectives 2020

The year 2020 corresponds to the 1st year of implementation of the 2020-2023 FCT pluriannual financing program. In this context, to accomplish the previewed implementation of the activities under the “organization” stage, the following objectives are foreseen for 2020 year:

1. Creation of CISAS structure and governance;
2. Activation of consultancy structure involving the consultative external committees (advisory scientific and stakeholders boards);
3. Integration of CISAS administrative activities in the IPVC structure;
4. Encouraging scientific production and project funding applications, putting into practice merit awards.

4. CISAS Activities 2020

To pursuit the aforementioned objectives the following activities will take place:

1. The elaboration of CISAS organization statutes and CISAS financing regulation
2. The creation of the governance structure according to CISAS established statutes
3. The establishment of merit awards criteria according to CISAS established financing regulation
4. The attribution of budgets to support scientific activities within CISAS main lines of research, approved by the Scientific Council
5. The submission of project funding applications
6. The formal activation of the Advisory Scientific and Stakeholders committees considering the adequacy to CISAS core research lines
7. Recruitment of a PhD junior researcher 100% allocated to CISAS

The integration of CISAS administrative activities in IPVC structure supported by a technical-administrative staff to help to accomplish the above pointed activities

The project funding applications is a permanent task. CISAS members, directly or through IPVC participation, in 2019 and 2020 have applied for funding and several projects will be running in 2020, as it can be seen in Chapter 6.

The establishment of criteria for merit awards, will be performed after the approval of CISAS statutes and financial regulation under creation. Credits related to scientific productivity will be attributed to those that accomplished these merit criteria and budget will be distributed according to that from annual CISAS IPVC budget of 25,000€.

The necessary CISAS decision for legal procedures for hiring of a PhD junior researcher will be performed during 2020 and the contract will be starting in January 2021.

In the original application for funding, it was considered to hire 4 PhD researchers fully allocated to CISAS' activities, but only a PhD junior contract was approved by FCT funding. His duties are huge, once he must deal with diverse areas of research and having a small number of researchers working within the Unit. As stated by the Evaluation panel, *the group still has to decide, through an internal decision procedure, the specific area of research in which the new researcher will be involved, possible interdisciplinary. This person would be in charge of the collaboration with the PhD programs with universities, which could really benefit of the facilities of the Polytechnic Institutes and of the knowledge of the RU members.*

CISAS plan was adjusted to the reduction of human resources but committed to achieve the objectives stated in the original proposal, along the pluriannual program, together with R&D projects external funding, as it is presented in Chapters 5 and 6.

5. CISAS FCT budget for 2020

The total FCT budget of 553,400.00€ approved by FCT in December 2019, comprises a base budget of 198,400.00€ (UIDB/05937/2020) and a programmatic budget of 355,000.00€ (UIDP/05937/2020).

The plan for the annual distribution of base and programmatic budgets is presented in Tables 1 and 2.

TABLE 1. FCT pluriannual funding 2020-23 - Base (UIDB/05937/2020)

Current expenses		2020	2021	2022	2023	Total
Recursos Humanos (RH)	62 276,04 €		€ 20 758,68	€ 20 758,68	€ 20 758,68	62 276,04 €
Missões no país e estrangeiro (M)	32 000,00 €	€ 5 000,00	€ 9 000,00	€ 9 000,00	€ 9 000,00	32 000,00 €
Consultores nacionais ou estrangeiros (C)	13 563,59 €	€ 3 390,90	€ 3 390,90	€ 3 390,90	€ 3 390,89	13 563,59 €
Aquisição de bens e serviços (AQ)	47 880,37 €	€ 6 000,00	€ 13 960,12	€ 13 960,12	€ 13 960,13	47 880,37 €
Registo nacional e no estrangeiro de patentes (P)	3 000,00 €		€ 500,00	€ 1 250,00	€ 1 250,00	3 000,00 €
Adaptação de edifícios e outras instalações (AE)	- €					- €
Encargos Gerais (EG)	39 680,00 €	3 597,73 €	11 902,43 €	12 089,93 €	12 089,93 €	39 680,00 €
Demonstração, Promoção e Divulgação (DPD)						- €
Outras despesas correntes						- €
Equipamento (E)						
TOTAL	198 400,00 €	17 988,63 €	59 512,13 €	60 449,63 €	60 449,63 €	198 400,00 €

TABLE 2. FCT pluriannual funding 2020-23- Programmatic (UIDP/05937/2020)

Current expenses		2020	2021	2022	2023	Total
Recursos Humanos (RH)	121 895,00 €	8 126,33 €	37 922,89 €	37 922,89 €	37 922,89 €	121 895,00 €
Missões no país e estrangeiro (M)	5 000,01 €	600,00 €	1 466,67 €	1 466,67 €	1 466,67 €	5 000,01 €
Demonstração, Promoção e Divulgação (DPD)	- €	- €	- €	- €	- €	- €
Aquisição de bens e serviços (AQ)	124 105,00 €	10 000,00 €	38 035,00 €	38 035,00 €	38 035,00 €	124 105,00 €
Outras despesas correntes	3 999,99 €	600,00 €	1 133,33 €	1 133,33 €	1 133,33 €	3 999,99 €
Equipamento (E)	100 000,00 €	800,00 €	33 066,67 €	33 066,67 €	33 066,66 €	100 000,00 €
TOTAL	355 000,00 €	20 126,33 €	111 624,56 €	111 624,56 €	111 624,55 €	355 000,00 €

Thus, for year 2020, it will be considered a budget of 17, 988.63 € (Table 1) and 20, 126.33 € (Table 2), a total 38 114,96 € distributed within the major types of expenses spread along the year.

Considering Human resources, the 8 126,33€ will be applied to students grants to support scientific activities, not externally fund, proposed by integrated members and considered by the scientific council, within CISAS lines of research.

Acquiring of goods and services related to these activities is also considered. The fees for associative partnerships with COLAB4FOOD, approved in late 2019, are included in this type of expenses.

Regarding to the activities of consulting, the budget considered for 2020 concerns the payment of travel and accommodation expenses associated to the annual meeting of Scientific Advisory and Stakeholders committee members.

The budget for missions (5,600,00€) is to accomplish three presentations of communications in two international and one national congresses for dissemination of results of CISAS activities not externally funded. However, most missions expected to be attended by CISAS members in 2020 will be financed by R&D external projects funding.

6. R&D Projects funding in 2020

The 22 projects ongoing throughout 2020, involving an IPVC overall budget of € 3, 533, 284.85, are shown in Table 3.

TABLE 3 - IPVC R&D projects ongoing in 2020 with CISAS' members participation	PERIOD	Total funding (€)	Funding Entity	National/International
IPEMA- Innovative Approaches for Pork Production with Entire Males	2016-2020	€ 42 426,00	EU COST	international
TERR@ENO - Terroir e zonagem agro-ecológica para valorização económica da paisagem e produção vitivinícola nas Sub-regiões de Monção e Melgaço e do	2017-2020	€ 330 189,48	NORTE2020	national
Revitagri-PNPG Revitalização dos setores produtivos tradicionais do PNPG	2017-2020	€ 574 863,65	NORTE2020	national
TERR@ALVA Definição e influência do terroir na qualidade do vinho Alvarinho	2017-2020	€ 118 871,77	NORTE2020	national
BIOMASSA Melhoria das capacidades de investigação em biomassa para otimizar o uso energético da biomassa não valorizada mas com alto potencial na Euro Região	2017-2020	€ 170 598,56	POCTEP	international
FTA+shiv FTA+shiv: Florestação de Terras Agrícolas com Mais Silvicultura, Inovação e Valor	2017-2020	€ 42 324,22	PDR2020	national
INTERNOVAMARKET - Programa acelerador INTERNOVAMARKET para aumentar la competitividad del sector alimentario de Galicia-Norte de Portugal	2017-2021	€ 212 823,51	POCTEP	international
Acontece in Loco - Montanha do Alto Minho.	2017-2021	€ 29 125,94	PDR2020	national
ClimCast-Os novos desafios para o soto no contexto das alterações climáticas	2017-2021	€ 19 157,46	PDR2020	national
Estratégias de proteção fitossanitária para a produção sustentável da maçã	2017-2021	€ 25 279,04	PDR2020	national
Minho - Região Europeia da Gastronomia	2017-2021	€ 50 992,85	NORTE2020	national
MOBFOOD - Mobilização de conhecimento científico e tecnológico em resposta aos desafios do mercado Agroalimentar (PPS6)	2017-2021	€ 126 406,37	COMPETE2020	national
NUTRIAGE - Soluciones Avanzadas para un Envejecimiento Saludable Através de la Nutrición en el marco de la Eurorregión Galicia Norte de Portugal	2017-2021	€ 152 838,04	POCTEP	international
VALORMAR - Valorização integral dos recursos marinhos: potencial, inovação tecnológica e novas aplicações (PPS1)	2017-2021	€ 377 203,96	COMPETE2020	national
BioPest-Estratégias integradas de luta contra pragas-chave em espécies de frutos secos	2017-2021	€ 34 044,41	PDR2020	national
Rana Perezil. Modelo técnico de produção intensiva de rã	2018-2020	€ 688 495,42	FEAMP-MAR2020	national
GesPSA Kiwi - Ferramenta Operacional para gestão sustentável do cancro bacteriano (Psa) da Actinídea	2018-2021	€ 148 251,56	NORTE2020	national
Innovative Cooperation Business - HEI Learning Model for Tourism (INCOME)	2018-2021	€ 115 865,00	ERASMUS+	international
IcEPBI - Interactive ecosystem for Portuguese business internationalization	2018-2021	n/a	COMPETE2020	national
RICEPLUS - Desenvolvimento de soluções inovadoras de funcionalização tecnológica e nutricional de arroz Carolino	2018-2021	€ 190 087,05	COMPETE2020	national
BioChetnut-IPM-Implementar estratégias de luta eficazes contra doenças do castanheiro e amendoeira	2018-2021	€ 32 214,57	PDR2020	national
BEYONDSCALE: Developing the organizational capacity of higher education institutions using the heinnovative platform to facilitate peer learning and a pan-european community of practice	2019-2021	€ 51 226,00	ERASMUS+	international
TOTAL BUDGET IPVC		€ 3 533 284,85		

Thus, considering CISAS background and the available R&D funding calls, the forecast for the 2019 submitted projects, waiting for approval in December 2019, and the expected project applications for funding in 2020 (FCT, Norte 2020, Compete 2020, Erasmus, EEA grants, H2020) will result, at least, in 6 approved funding in 2020. The research activities carried out by CISAS researchers and research grants within all these projects, are expected to increase the number of participations in scientific conferences, either externally or internally organized, as well as the number of publications in international peer reviewed journals in 2020.

7. CISAS OUTPUTS - 2020

Publications:

Books/book chapter - **10**

Articles in international indexed journals – **20**

Articles in national journals and technical journals- **30**

Communications in congresses/seminars:

Oral presentation:

International congresses: **10**

National congresses: **40**

Posters:

International congresses: **30**

National congresses: **50**

Congresses/seminars organization:

Nationals: 3

International: 1

R&D new running projects:

National: **5**

International: **1**

Contracts for specialized services: 6

Master's thesis completed: 15

Grants running in 2020

PhD Students: **5**

Master students- **4**