



COLÉGIO F3
Food, Farming
& Forestry

UNIVERSIDADE
DE LISBOA

Activities Report

2016

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College Food Farming and Forestry

College Food, Farming and Forestry (F3) is a multidisciplinary network that integrates, in 2016, twelve of the ULisboa schools and some of their associated research centers, concerning all aspects of the food and agroforestry systems regarding research, high education and efforts to engage policy makers and citizens. Current societal challenges demand science more attentive to these systems' social and ecological contexts to face many of today's complex problems. College F3 holds skills required to *glocal* integration of food, farming and forestry state-of-the-art scientific knowledge and other forms of industrial, cultural and traditional practices, and its translation and communication to citizens and policy makers, using appropriate language to reach diverse audiences. Knowledge is cogenerated and integrated establishing partnerships with other entities and stakeholders committed to identical and complementary goals, to enable models of effective transfer and adoption by end-users. The resident multidisciplinary capacity and the emergent interdisciplinary attitude made possible by College F3 identifies and promotes the implementation of activities to fill "know-how" and "know-how-to" gaps.

Vision

Generating new scientific knowledge to deliver innovation and capacitate political decisions in the fields of food, farming and forestry through a holistic approach to societal challenges gathering all the transdisciplinary knowledge stored at ULisboa.

Mission

College F3's mission is to create and share integrated knowledge towards technological advances and new strategies in the fields of innovation and socioenvironmental responsibility, and to provide substantive information to policy makers point out to sustainability. The creation of F3 College arises from the need to promote a model of democratic society in which all actors are more and better informed. F3 interdisciplinary science will also be transdisciplinary, in which scientists, economic and social actors are called to co-produce and communicate socially relevant knowledge.

Organization model and strategic objectives

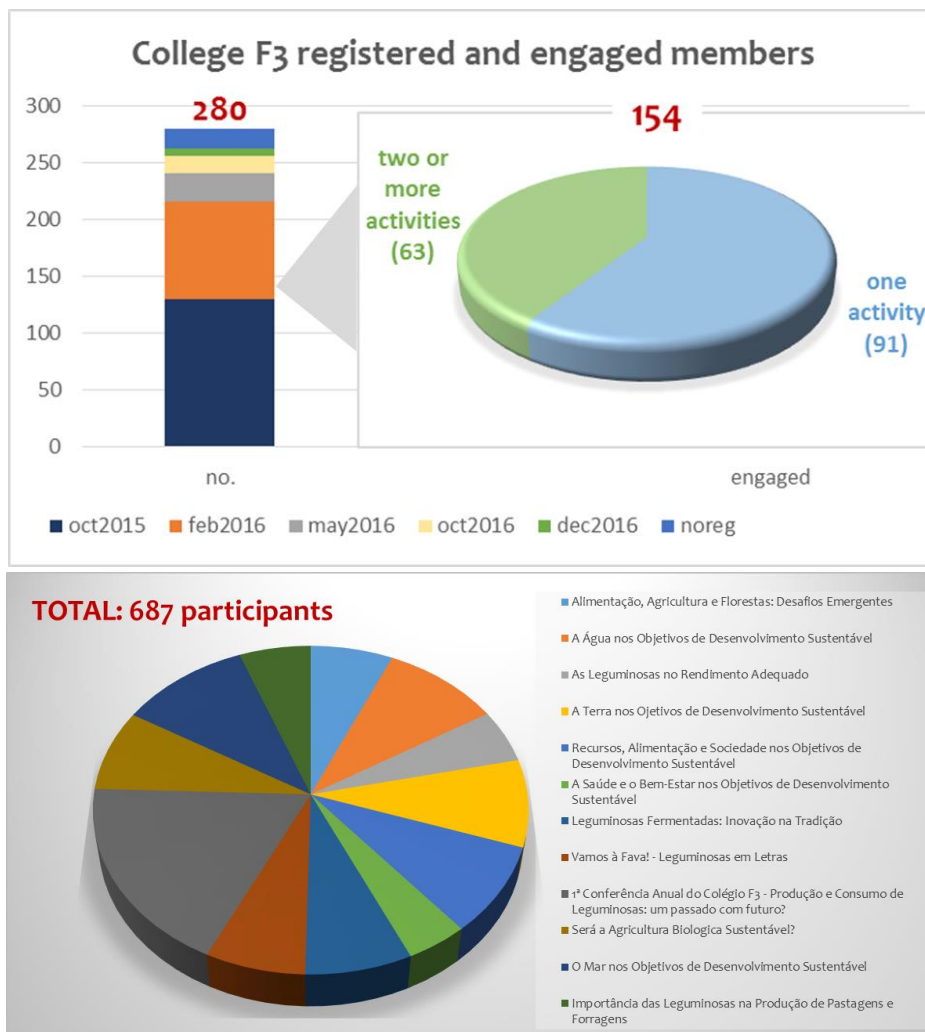
In order to fulfill the strategic objectives, College F3's organization model was supported in three programmatic lines that guided the initiatives: i) Research Infrastructures supporting natural and virtual laboratories for integrated management of social-ecological ecosystems and people and organizations networks; ii) Knowledge Hubs for a sustainable bio-economy; and iii) High Education and Capacity Building with a multidisciplinary to transdisciplinary attitude.

These programmatic lines successfully developed to be strongly interconnected and complementary. Hence, halfway the indorsed installation triennium, College F3's activities are classified under three main strategic objectives and approaches to achieve them:

- Promoting interdisciplinary and transdisciplinary behaviors and downgrading persistence of disciplinary perspectives, through the creation of multidisciplinary environments engaging College F3 members;
- Creating results-oriented solutions and innovation framed by national and international political priorities and representing Portugal in international networks by the implementation of research and training programs in partnership with public and private sector organizations, acting as "think tank" and reacting to external challenges;
- Building national visibility spanning the University boundaries, aligning research and divulgation activities with international years and national or international agendas.

Members evolution and engagement

The number of members more than doubled in 2016, from 130 to 280 members of which 55% are engaged in at least one of the activities. The registered attendance in public conferences, seminars and round-tables promoted by College F3 reached, in average, of 52.6 participants, of which 31.8% were external to ULisboa.



Initiative and activities

In 2016, almost all the activities and initiatives started or were triggered from challenges of individual members or external entities (exceptions are College F3’s PhD Program and Conference Series). The activities were framed by one of the Programmatic Lines, according to the main underlying objective, but easily spanned to the other guiding approaches. This “bottom-up” initiatives resulted in activities with distinct geometries, members engaged and present status of implementation:

Lead programmatic line	Activity	Status of Implementation ¹
Research Infrastructures	AGROTRAINING - Proofing GBIF use on agrobiodiversity through needs assessment and training	□ □ □ □ □
	Activities in Natural Laboratories	□ □ □ □ □
	Crop assessment, monitoring and managing using earth observation data	□ □
	Virtual Laboratory e-Infrastructure	□ □
Knowledge Hubs	Fire in the rural landscape	□ □
	Fit-To-Purpose Risk Assessment Methods for the Identification of Emerging Food Risks	□ □ □
	Edible fruitful landscapes [Muita Fruta]	□ □ □ □
	“Urban foodsheds”: food sustainability in spatial planning	□ □
	Organic farming in Portugal: perceptions and perspectives	□
	Sustainable cities – the quest for urban forestry	□ □
	Territorial intelligence as a tool of rural renaissance in Setubal Peninsula winegrowing region	□
	Urban abandoned structures for food production	□
Prevention of functional decline and frailty	□ □ □	
High Education and Capacity Building	PhD program in Sustainability Science – Resources, Food and Society (REASOn)	□ □ □ □ □
	Advanced training in “Agricultural Law and Sustainability”	□ □ □
	College F3 Conference Series	□ □ □ □ □
	Multidisciplinary round-tables and debates in external events	□ □ □ □ □
	See and Learn [Observar e Aprender] program	□ □ □ □ □
ULisboa vegetable gardens	□ □	

¹ Scale: 1-5 boxes in which 1 = project at initial stage (concept note and team) and 5 = project with more than 50% of the objectives already completed.

Summary of the activities

PROGRAMMATIC LINE 1: RESEARCH INFRASTRUCTURES

AGROTRAINING - Proofing GBIF use on agrobiodiversity through needs assessment and training

A Global Biodiversity Information Facility (GBIF) goal is to enlarge its databases use by researchers and technicians working in agrobiodiversity. A recently commissioned Task Group assessed the fitness for use of data and includes a series of recommendations that, when implemented, would enhance their intended operational use by the main players in agrobiodiversity and their broader community, including breeders, farmers and farmer associations. This activity builds on and expands this expectation i) to test and demonstrate the strengths of GBIF portals that facilitate the access to information and documentation on biodiversity information in food and farming; and ii) to identify the pitfalls of current tools and/or of information available in the portal. College F3 is instrumental in producing a needs assessment report and designing a workshop and an accredited training course for researchers, technicians and agrifood sector stakeholders [MODULE I: Information analysis tools for biodiversity and environmental data in the context of agrobiodiversity; MODULE II: Agrobiodiversity for crop systems; MODULE III: Wild-species biodiversity benefits to farming activities] offering a broad and recognized training experience in social and natural sciences, but also in other relevant skills, such as informatics (databases management and data visualisation). The “Companhia das Lezírias” Natural Laboratory is used as a case study.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Funded by GBIF Capacity Enhancement Support Programme 2016 (10,000.00 EUR)

Partners: GBIF Portuguese Node and GBIF Spanish Node

Activities in Natural Laboratories

During 2016, collaboration protocols with “Companhia das Lezírias” and “APAS: Associação dos Produtores Agrícolas da Sobrena” were established to recognize these infrastructures as College F3’s Natural Laboratories. “Tapada da Ajuda” and “Herdade de Ribeira Abaixo” are also Natural Laboratories. Three activities were organized in these natural infrastructures:

- Conference “The ‘Montado’ and the cork: an interdisciplinary approach” | 27th August 2016 – Herdade de Ribeira Abaixo
- “Come to pasture with College F3” | 2nd April 2016 – Tapada da Ajuda
- “A walk through the ‘Alfama’ invisible waters” | 23rd January 2016 – Lisbon as a natural lab

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Crop assessment, monitoring and managing using earth observation data

The national integration of a Portuguese observation site in JECAM (Joint Experiment for Crop Assessment and Monitoring) - the global network of I&D GEOGLAM initiative (Global Agriculture Monitoring) of the international consortium GEO (<http://www.earthobservations.org/>) – is under preparation. The goal of JECAM is to establish cooperation between R&D groups interested in agriculture monitoring and create a set of data from Earth observation (combination of *in-situ* and remote detection data) for research and validation. Currently, only seven pilot study sites exist in Europe – Belgium, Spain, France, Italy, Russia and Ukraine, totaling 34 sites globally. The main benefits of joining this network include better access to remote detection data and collaboration with a scientific community that integrates leading experts in agriculture monitoring for remote detection. The College F3 Natural Laboratory “Companhia das Lezírias” was identified to be suitable as Portuguese observation site, given its extent, agriculture and agroforestry systems and crop diversity, and due to the amount of pertinent research results regarding productivity indices, phenological progression and biophysical variables held by a significant number of College F3 members, affiliated to several schools. Furthermore, cross-checking field observations with remote detection (optical and radar detectors) data of various levels of spatial resolution, accomplishing this project, assists precision agriculture development and validation of production prediction models through remote detection in “Companhia das Lezírias”.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Virtual Laboratory e-Infrastructure

The 'Virtual' Laboratory is an Information and Communications Technology (ICT) infrastructure under construction that aims at delivering a true functional network within ULisboa, allowing the easy and fast identification of colleagues with specific research interests to facilitate new collaborations. Each College F3 member is pair-wised connected within the network according to a similarity index calculated based on his/her publications record, using weighted criteria such as scientific domain of the journal, key-words, title and abstract text. The algorithm is then translated into a user-friendly searchable web-based visualization environment.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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PROGRAMMATIC LINE 2: KNOWLEDGE HUBS

Knowledge Hub Fire in the rural landscape

The motivation for addressing this subject was the result of a challenge by the Association for Competitiveness in the Forestry Industry (AIFF). Recognizing forests as a public good, AIFF understands fire in rural landscapes as a social challenge in which citizens can play a most relevant role. Understanding environmental restrictions, behaviors associated with the use of fire in rural regions, patterns of risk generated by them, social and communication perceptions – all affecting political decision frameworks – require novel models to cogenerate and integrate knowledge using interdisciplinary and transdisciplinary approaches. College F3 holds established skills and critical mass to face this challenge in its multiple dimensions. The existing collaborations with other universities, research centers and academic partners ensures the desirable relationship between all actors, allowing a national and global dimension, to leverage informed regulatory legislation and governmental decisions. AIFF is committed to support this initiative through the involvement of its partners and associates and contributing with material and human resources, when pertinent.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Knowledge Hub in Fit-To-Purpose Risk Assessment Methods for the Identification of Emerging Food Risks

A partnership between College F3 and the Portuguese food safety authority (ASAE) has value in delivering food safety innovative approaches and independent scientific advice to establish a collaborative platform that supports current methodologies and procedures for the identification of emerging risks along the food chain. In this scenario, a Knowledge Hub is being implemented with the goal of providing this agency with a consented methodology to anticipate food risks from farm-to-fork, assisting the National agenda. A changing demography, the adoption of novel diets, foods and ingredients, new consumer behaviors largely influenced by multinational trade and retail companies, the effects of globalization, the advent of “big data” and the opportunities created by fast technological advances, such as ICT, create a new paradigm for food safety that demands citizen engagement and social economic indicators to be part of a fit-for-purpose risk assessment methodology. Keeping such goals along the food chain to generate value with societal impact in global food safety, requires multidisciplinary and interdisciplinary approaches. Hence, this initiative aims at i) cogenerating enhanced scientific knowledge, data access, exchange and analysis methods, and technology development and harmonization and ii) fostering a national hub for the community dealing with food risk assessment as a whole.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Edible fruitful landscapes [Muita Fruta]

College F3 integrates this Lisbon Municipality project (BIP/ZIP) consortium as the result of a LOCALSAPPROACH – a non-profit organization that aims at promoting territorial, environmental, cultural and social-economic sustainable development through participatory projects rooted in locally-based ideas – challenge for partnerships in activities targeted to Lisbon vulnerable populations. Typical neighborhoods such as ‘Ajuda’ or ‘Mouraria’ are under profound transformations and emergence of new challenges, such as a growing aging population or property speculation, with risks to people’s wellbeing, including food and nutritional security. The goal of valuing existing “green areas” and to promote “eatable landscapes” guides this project. The city is considered as inclosing an orchard as it holds numerous fruit trees, in public and private spaces, that the project will map, recover and manage, assigning them an environmental, cultural heritage, economic and social value. A model of active citizenship and shared economy in which fruits will be produced and harvested, transformed and make available through the creation of a social brand is being developed. The resulting online platform enhances networking, creates social capital and reintegrates a “fruit culture” in urban context. This pioneer project in Portugal relates with similar organizations in other countries, delivering extended projection and placing Lisbon on the map of good international practices. A participatory programme on urban resilience and environmental education strengthens the “sense of belonging” in the community, use of the local resources, elderly occupation, and employability opportunities for young occupants.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Funded by the Lisbon Municipality programme BIP/ZIP Parcerias Locais 2016 (50,000.00 EUR)

Partners: ACPM Associação Cozinha Popular, LocalsApproach, Associação Academia Cidadã

Project “Urban foodsheds”: food sustainability in spatial planning

In cities, where does the food come from? Under an emergency situation, how long can a city survive without food supplying? What is the role of urban farming and urban food production in this resilience, particularly under climate changes scenarios? In terms of spatial planning, which are the strategic food production vectors required to assure “fed cities”? These few, simple questions highlight the importance of an urban food system dimension in regional and urban planning towards sustainable cities. Revisiting the concept of “urban foodsheds”, which has about a century old, requires multi- and interdisciplinary skills. This activity aims at producing scientific, social and political awareness briefs to hasten the implementation of functional planning developments.

Project Organic farming in Portugal: perceptions and perspectives

Within the framework of a protocol with Association of Geography Teachers (AProGeo), this activity was designed to map current social perceptions and perspectives of production and consumption of

organic foods. Surveys are designed and interpreted by College F3 multidisciplinary teams. AProGeo is engaged with this initiative assuring the survey implementation among school teachers, young students and their parents, with a national representative dimension.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Sustainable cities – the quest for urban forestry

More than 50% of the world’s population lives in cities and further concentration in urban areas is globally forecasted, even though some municipalities observe city shrinkage. Ecological footprints and pressures on the planet resources due to demographic factors and globalization, together with the accelerated technological transition underway offers unique opportunities for the involvement of S&T knowledge in innovative "Green Economy" models. Under this context, this activity interrogates how forests can contribute to the desired sustainability of cities and what are the issues associated with the implementation of urban forests, to develop consented methodological approaches supported in the “scientists – politicians – citizens” triangulation. A College F3’s communication was presented at the IFCC: International Forest City Conference: Forest Cities and Human Habitats, held November 29-30 in Shenzhen, China.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Territorial intelligence as a tool of rural renaissance in the Setubal Peninsula winegrowing region

The (re)discovery of rural areas as an important reserve of ancient legacies of cultural and environmental traditions hastens strategic planning based on territorial intelligence for development of rural areas. Winegrowing activity and its related industry and business is of paramount importance in the development of the Setúbal Península, as illustrated by the “Moscatel de Setúbal” notoriety, among other brands that outstretched over the years. Nowadays, climate changes and globalized trade, together with shifting guidelines in professionalism, size, economic and social representation of vineyards and wines, vine varieties diversity, among others, have resulted in changes towards more competitive attitudes. Under this scenario, the Wine Producers Association of the Palmela Municipality (AVIPE) challenged College F3 to implement this initiative aiming at cogenerating knowledge to understand the impact of such paradigm changes not only in the activity of successful commercial winemakers and cellars, but also in the resilience and adaptation capacity of small family producers. Activities include interpreting social, economic and territorial history to assess the potential for modernization, oenotourism promotion and a social-environmental indicator development, following R&D and territorial intelligence approaches. An emphasis is given to characterize the social-economic impact of the activity in the region and to communicate this knowledge to the consumer. Implementing a traceability platform “from the vineyard to the bottle”, it will be possible to create awareness to end-users regarding the meaning of purchasing a wine bottle

in local economy, preservation of regional identity, socio-economic indicators, public health and people well-being and history.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Project Urban abandoned structures for food production

The increasing urban industrial changes observed since last quartile of the 20th century resulted in abandoned buildings and degraded zones in many cities. In parallel, food security aims urban metabolism cycles related with resources recovery and climate change issues provided a new framework of analysis for a change in food production models in urban landscapes. The “indoor farm” concept has emerged within a wide perspective and includes greenhouse and/or other dedicated buildings production. The conversion of abandoned urban structures – buildings, plants, warehouses, hangars – in areas for plant production was already succeeded, particularly in USA and UK cities but Lisbon does not hold any experience in this field. The resident knowledge in College F3 allows fostering a strong sustainability from the food production in abandoned urban structures using the concept of design-thinking. In order to achieve this goal, material and energy loops should be closed with an integration of food, energy, water, business models and economic revenues, supported by a positive social motivation of the local community. The Project «urban abandoned structures for food production» main goal is to build a pilot-structure in Lisbon using a living lab approach.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Consortium Prevention of functional decline and frailty

The 2012-2015 Action Plan, produced by the European Innovation Partnership on Active and Healthy Ageing (EIP-AHA) Action Group 3, recommends addressing specific issues such as methodology for screening and identification of pre-frail status in older patients; prevention of malnutrition or lack of physical activity that impact frailty; evidence-based interventions to avoid incident frailty, its progression and its consequences; basic research on different aspects of frailty, malnutrition, cognitive decline and quality of life of frail elderly. A strong focus in malnutrition, particularly in urban populations, is evident. Hence, the initiative relies on bridging knowledge in nutrition, human development, food production and distribution, and health, with communities’ perceptions and expectations, social and economic environment, readiness to adopt ICT tools or budget management. College F3 integrates, in 2016, this wide-ranging consortium “Commitment” gathered to hold recognized skills and experience in valued thematic areas. The Commitment deals with cross-cutting questions, which require holistic approaches to integrate knowledge that spans social, cultural, natural and exact sciences to deliver innovation, new models and new strategies as tangible outcomes. College F3 specific role in projects to be implemented includes to facilitate synergies between the principles of engagement, inclusiveness, critical mass, partnership, delivery and



advocacy, to integrate project outputs, and to translate and communicate results to the society and policy makers using an appropriate language to reach selected audiences and stakeholders. College F3 activities also include needs assessment and identification of knowledge gaps that may be obstructing a global integration of the other activities from coping with the objectives and pillars to which they aim to respond, particularly in the domains of food and nutritional security.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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PROGRAMMATIC LINE 3: HIGH EDUCATION AND CAPACITY BUILDING

PhD program in Sustainability Science – Resources, Food and Society (REASON)

The last decade societal challenges created a new paradigm associated with sustainable development. The holistic vision necessary to respond to multiple and interconnected agrifood challenges increasingly requires trained professionals in Sustainability Science. The resident multidisciplinary in College F3 has been enhancing interdisciplinary and transdisciplinary attitudes at ULisboa, paving the way for a new high education formative offer in “Resources, Food and Society” that assigns a “PhD in Sustainability Science” degree. The nature of this program hampers its administration by a unique Faculty or Institute, which are naturally ruled according to disciplinary strategies. Such novel University offer is foreseen to be sound with the expectations of national and international students, professionals and employers from various sectors, entrepreneurs, academics and decision-makers. The program is shaped with an innovative multidisciplinary-driven philosophy evidenced by i) the shared responsibilities between natural sciences and social sciences in coordination, organization and lecturing of each curricular unit, ii) the mandatory theses co-supervision by, at least, two faculty affiliated to and working in different areas of knowledge, and iii) evaluation grids that also include non-academic stakeholders. Furthermore, the possibility to prepare alternative models of thesis is offered: academic thesis in a university environment, thesis in a corporate environment, or an innovative model of thesis in professional work context. University of Lisbon reinforces its strategic position on the forefront of research and education in sustainability, strengthening its internationalization. This program was designed and submitted to the A3ES (High Education Accreditation Agency) in October 2016.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Advanced training in “Agricultural Law and Sustainability”

Portugal is a country with historical tradition in agriculture and rediscovered the added value of this sector in social-economic sustainable growth. This course aims at filling a national gap regarding specialized training in agricultural law in the high education portfolio, targeting not only legal, but also other professionals who dedicate or are interested in this subject, such as farmers, government officers, members of agricultural associations and food industry entrepreneurs. Institution and legal frameworks are nowadays strongly interlinked with sustainability policies. Therefore, a multidisciplinary panel of lecturers from College F3 complements the staff from the School of Law of ULisboa, to provide a better and more in-depth understanding of the complex and diverse challenges of natural, environmental, public health, ecological, social, economic, technological nature, and their implications in legislation, licensing, rules, orders, laws and regulations. Dialogue between the legal

disciplines and several other sciences are made possible along the training sessions. The course *curricula* was designed in 2016 and the course is foreseen to 2017.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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College F3 Conference Series

▪ Annual College F3 Conference: “Pulses production and consumption: a history with future?”

Foods produced to be consumed as dry grain such as beans, chickpeas, peas, soybeans, lentils, lupines or fava beans, have been an essential part of human diets and animal feed, with strong implementation in the culture and history of many populations, with important environmental and nutritional benefits. College F3 associated with the “2016 International Year of Pulses” co-organizing its Annual Conference with the FAO Representation in Portugal. The event featured a round table with the participation of relevant actors from various sectors representing key areas. Then, speakers from all College F3 schools illustrated the added value generated by the synergies and complementarities made possible via College F3, using pulses as an example. A cooperation negotiated with FAO-Portugal was established during the conference and topics for collaboration were identified | 20th October 2016 (ULisboa Rectory)

▪ Conference Series: “A chat and a taste of pulses”

Under the motto "nutritious seeds for a sustainable future", the United Nations General Assembly declared 2016 as the "International Year of Pulses"; an initiative to which the College F3 was associated. Each conference comprised two participants (one with natural sciences and one with social sciences background) and a moderator. Natural sciences challenged social sciences issues and vice versa, also engaging the audience. Each session was completed with a taste of innovative gastronomic delicacies based on pulses, accompanied with the explanation of underlying scientific basis, keeping the spirit of the debate. The series organization rotate in different College F3 faculties and institutes.

- Pulses in the adequate income | 14th April 2016 (ISEG)
- Fermented pulses: innovating tradition | 5th July 2016 (ISA)
- Pulses in words | 22nd September 2016 (FL)
- The value of leguminous in pastures and animal feeding | 6th December 2016 (FMV)

▪ Conference Series: “The University of Lisbon in the 2030 Agenda for Sustainable Development”

The 17 Development Sustainable Goals (DSG) delivered a new 2030 Action Agenda to create a new global model for a better world, guiding policy and cooperation. Aware of the Academia role to this Agenda, College F3 associates with a series of conferences addressing, in multidisciplinary panels,

some of the main implementation challenges related to the targets recommended by the working group, focusing on three main axes, i) what are the challenges to the world?; ii) what are the challenges at national level; and iii) what is the role of the ULisboa in searching for sustainable solutions? The series organization rotates in different College F3 faculties and institutes and are held in international or national celebration days. The effect of the debate on the participant's perception of the subjects is monitored by the "Oxford Union parliamentary debates" approach.

- Water in DSGs | 22nd March 2016 (IST)
- Earth in DSGs | 22nd April 2016 (IGOT)
- Food, resources and societies in DSGs | 5th May 2016 (ICS)
- Health and wellbeing in DSGs | 15th June 2016 (FF/FM)
- Seas and oceans in DSGs | 16th November 2016 (FC)

▪ **Round-table "Food, Farming and Forestry: Emerging challenges"**

With the participation of College F3 advisory board invited members, emerging challenges in food, farming and forestry were discussed | 21st January 2016

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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Multidisciplinary round-tables and debates in external events

When challenged, College F3 gathered multidisciplinary panels to participate in events organized by individual ULisboa's schools:

- "Healthy Living Festival: Science – Cooking – Wellbeing" | 4th March 2016 (FC)
- A re(interpretation) of the Portuguese gastronomy The Portuguese Saudade | 10th May 2016 (FL)
- "Is organic farming a sustainable activity?" | 4th November 2016 (FD)

See and learn [Observar e Aprender] program

Though often easy to enunciate, food, farming and forestry challenges are very complex and require both multidisciplinary and interdisciplinary science rooted in mutual understanding of the concepts underlying specific disciplinary areas in which each College F3 member has specialized. Aiming at facilitating dialogues and build interdisciplinary knowledge, College F3 associated in 2016 with the ULisboa "Observar e Aprender" program; a model of peer observation that offers the possibility to attend other colleagues' classes in other schools, and be observed in own classes, enriching the knowledge on what these disciplines can offer to food, farming and forestry subjects. In the context of this participation, the observed classes were selected considering College F3's subjects.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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ULisboa vegetable gardens

This activity, aims to provide students from different organic units of ULisboa, individually dedicated to natural sciences, landscape, humanities, health or engineering, with technical-scientific knowledge to support them to grow and maintain community vegetable gardens and to stimulate these vegetable gardens to "dialogue" with each other. The goal is to promote an activity that, in addition to encouraging social interaction between students from different faculties and institutes, makes possible to understand the diversity of visions perceived by each knowledge vector, regarding the value of horticulture, food, health, landscape and environment.

L1: Research Infrastructures	L2: Knowledge Hubs	L3: Education and Capacity Building
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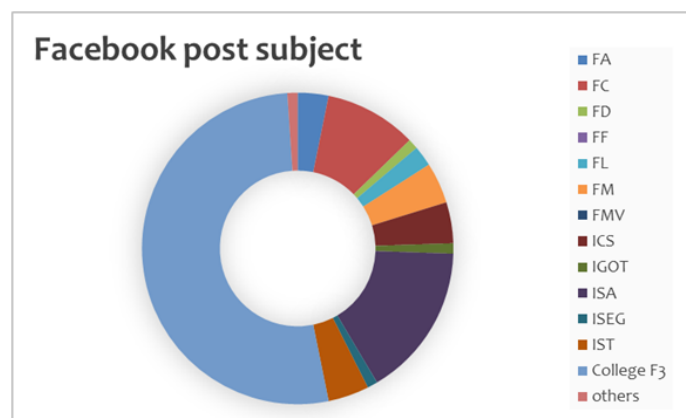
COMMUNICATION AND SOCIAL NETWORKS

The social media marketing strategy encompasses i) a LinkedIn group, ii) a Facebook page and iii) a YouTube channel, with different and complementary roles. The LinkedIn group is used to the announcement and divulgation of national and international food-, farming- and forestry-related events or job opportunities that are not organized by College F3. All members registered in the group can contribute with new events and start discussions. The Facebook page is used to promote events organized by College F3 and share both news on College F3 activities and “press clips” related to food, farming and forestry subjects in which a College F3 associated school has been involved. Conference, workshop and round table talks are recorded and the YouTube channel is used to collect and share all the videos, offering to non-participants in the events the possibility to have access to the debates.

Facebook <https://www.facebook.com/colégiof3/>

87 posts with an average of:

286.5 reached



LinkedIn <https://www.linkedin.com/groups/8519677>

101 members

115 posts

99 College F3 external events
16 – College F3 events

99% posted by College F3 administrator

You Tube <https://www.youtube.com/channel/UC...>

16 videos

125 visualizations per video

NETWORK MEMBERSHIP AND COOPERATION PROTOCOLS

- Member of the BIP/ZIP Platform | 27th July 2016
- Cooperation protocol with Association of Geography Teachers (AProGeo) | 25th July 2016
- Cooperation protocol with Companhia das Lezírias | 23rd June 2016
- Member of the European Innovation Partnership on Active and Healthy Ageing (EIP-AHA) Action Group 3: Functional decline and frailty | 15th April 2016
- Member of the National Rural Network | 7th March 2016
- Cooperation protocol with Sobrena Farming Association (APAS) | 5th March 2016

INTERACTION WITH OTHER ENTITIES AND NON-ACADEMIC ORGANIZATIONS

- ACPM - Associação Cozinha Popular da Mouraria
- ADREPES - Associação para o Desenvolvimento Rural da Península de Setúbal
- AICEP - Agência para o Investimento e Comércio Externo de Portugal
- AIFF – Associação para a Competitividade das Indústrias da Fileira Florestal
- AkA – Academy of Finland
- ANI - Agência Nacional de Inovação
- APROGEO - Associação dos Professores de Geografia
- ASAE - Autoridade de Segurança Alimentar e Económica
- Associação Academia Cidadã
- ATMOSFERA m – Associação Mutualista Montepio Geral
- AVIPE - Associação de Viticultores do Concelho de Palmela
- Biofrade
- Câmara Municipal de Grândola
- Câmara Municipal de Lisboa
- Ciência Viva
- CONSULAI
- Cooking.Lab
- COTHN - Centro Operativo e Tecnológico Hortofrutícola Nacional
- ESHTe - Escola Superior de Hotelaria e Turismo do Estoril
- FAO - Organização das Nações Unidas para Alimentação e Agricultura
- Fundação Oriente
- GBIF - Global Biodiversity Information Facility
- GPP/Min. Agricultura - Gabinete de Planeamento, Políticas e Administração Geral
- GPPQ - Gabinete de Promoção do Programa Quadro de I&DT
- GROUU
- Helpo
- HENVI - Helsinki University Centre for Environment
- INBAR - The International Network for Bamboo and Rattan
- INOVISA

- Jornal Público
- Junta de Freguesia de Alcântara
- Localsapproach
- LUKE - Natural Resources Institute of Finland
- Rádio ONU
- Rádio Vaticano
- RDP
- Recondair - Ar Condicionado e Energias Renováveis, Lda
- Rede Rural Nacional
- SIC
- Syngenta
- TINT - Academy of Finland Centre of Excellence in the Philosophy of the Social Sciences

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