

PILOTE PROJECT APPLICATION

**Reinforcing the utilization of potatoes within agricultural technical pathways
as a means of agro-ecological diversification through the establishment of a
local potato chip processing facility**

Cooperative Pays de Sault

Pilot project application

Contact details of the facilitator

- Name: Giraud Nicolas
- E-mail: nicolas.giraud@aude.chambagri.fr
- Affiliation (or independent): Chambre d'agriculture de l'Aude and UMR AGIR, INRAE Toulouse
- Position: innovation broker, phd candidate in Agroecology

Summary of the pilot project (Max. 1600 characters)

(Including stakeholders, problem/challenge, approach, relevant links)

Title : Reinforcing the utilization of potatoes within agricultural technical pathways as a means of agro-ecological diversification through the establishment of a local potato chip processing facility

Network and Innovation analysis

The "Pomme de terre du Pays de Sault" is a locally grown potato cultivated in the mountainous region of Aude in Occitanie, France. This premium-quality potato production has been developed by 12 livestock producers as a strategy to diversify their agricultural and economic activities, which have been under significant pressure. Over the past two decades, they have established a cooperative and achieved economic stability, producing approximately 200 tons of potatoes annually (*see appendix No.1 : Legal statuts of the cooperative*). These potatoes are primarily sold within the local community, including direct consumers, local shops, and restaurants.

However, in recent years, the sustainability of their diversified production system has been threatened by various challenges. On one hand, they have faced reduced yields due to more frequent droughts during unfavorable years. On the other hand, during good yield years, they struggle to sell the entire potato volume. Lacking proper storage facilities with refrigeration capabilities, they are compelled to sell their potatoes at prices comparable to conventional varieties. Additionally, their primary potato variety, Monalisa, is gradually becoming less available as seed suppliers align with national demands.

For the cooperative farmers, the pressing issues are twofold:



1. Identifying new potato varieties that are well-suited to their local mountainous conditions and with the same versatility in cooking as the Monalisa variety
2. Developing a strategy to make the most of surplus production during high-yield years.

In response to these challenges, they have recognized a potential market opportunity: producing local potato chips. They have initiated exploratory efforts to invest in a production line that would grant them autonomy in this venture (the shared ambition). Currently, only five of the 12 farmers are considering this diversification endeavor, but if successful, all 12 farmers could participate in this new business opportunity.

Spiral of Innovation: in the middle of a cold process – planning - that needs careful attention before getting into real *in situ* experimentation

The concept is to reimagine their potato cultivation practices, particularly the choice of potato varieties, with the aim of diversifying their economic outlets by selling both fresh potatoes and transformed products, such as potato chips. They have already made substantial investments in the exploration phase, including a field trip to the Southwest of France (Marcheprime) to visit a local farmer who operates his own potato chip factory. While this visit solidified their idea, they acknowledge that the system they observed cannot be directly replicated due to significant differences in pedo-climatic conditions and farming methods.

To move forward, they have identified a local partner, a food processor in a nearby region, and plan to conduct a trial this autumn to transform part of their annual potato production into potato chips and test the local market's reception. They are already considering the subsequent steps, and this application serves as a pilot initiative. They have pinpointed certain potato varieties that seem suitable for their area and intend to conduct controlled experiments on their farms, commencing next spring. The goal is to evaluate how these varieties perform under their local conditions and conduct processing and taste trials.

In pursuit of this objective, they have identified small-scale manufacturing lines in Spain, where the machinery is reputed to be of high quality. They intend to combine their on-farm experiments with a study trip to Spain to assess the cost of investments and estimate the economic returns associated with this innovative approach (*see trip No.3 in the budget*). Furthermore, the cooperative would like to make a first attempt at processing potatoes into chips by testing the suitability of the new variety sown for processing into chips. To do this, it has identified a factory in Drôme which would be able to transform potatoes into chips (*see trip No.2 in the budget*).



Thus, the cooperative is pursuing with this project a triple performance objective that is economic, social and environmental. Indeed, the cooperative has always wanted to produce a qualitative potato and has developed, since its creation, very demanding specifications: the crop is not irrigated, there is no treatment of the potato after the harvest, the potato is preserved naturally without treatment and without cold storage. Furthermore, half of the cooperative's producers are in organic farming.

With this innovative project of diversification into chips, the cooperative once again demonstrates a desire to adapt in a context of climate change and seeks to develop its production to move towards innovative and virtuous practices. With these trials of processing into chips, the cooperative wishes to recycle sorting waste to transform them into chips and aims for “zero waste” production, thus creating real financial and environmental added value. Finally, this project also contributes to the development of the Pays de Sault territory and its influence on a local scale, particularly via the departmental quality brand “Pays Cathare”.

See Appendix No.2 : Timeline of the cooperative project



Motivation for this proposal to be selected as a pilot project (Max. 1000 characters)

This interactive innovation process addresses a significant challenge faced by farmers, one that isn't easily resolved. To tackle this complex issue, a diverse group of stakeholders from various sectors has been mobilized. This initiative involves harnessing a wide range of expertise and requires effective coordination and facilitation among multiple actors. This project appears to be an ideal fit as a pilot project, where the innovation broker can leverage the tools and techniques acquired from the i2connect training. In my role within this innovation process, I position myself as a “free actor”, working to energize and guide the project during its planning phase. This “cold” phase is critical and demands careful attention before it can engage in its Development phase. Through on-farm experiments, processing trials and field trips, the project aims to generate new knowledge related to potato farming and enhance the skills of the participating farmers.

The primary motivation behind this project is to support a group of innovative local farmers, helping them solidify their action plan and realize their ambition to diversify their production systems and economic outlets. The action plan involves the utilization of tools from the i2connect program, such as facilitation and process capitalization, to bring the entire group together. This presents a valuable opportunity to strengthen livestock production systems in the Aude territory, where there has been a concerning decline in animal farming systems.

Facilitation of the peer-to-peer exchange: planning warm processes – in situ experimentation and field trips – to boost enthusiasm and maintain interactive innovation to concretize the project

In this pilot project, the primary objective is to maintain interactive innovation within an already closely connected group of individuals. None of them possesses prior experience or skills in developing a potato processing and chip manufacturing venture, making it an entirely new endeavor for the area. However, their collective vision is a significant asset. To translate this desired future into operational steps, they require a concrete understanding of what their project could resemble when fully realized. In parallel with the on-farm experiments, the primary goal of the field trip to Spain is to provide this perspective.

To ensure that innovation remains an interactive process, a preparatory session will be organized before the field trip. During this session, participants will deliberate on the framing of the on-farm experiments, addressing questions such as who will be involved, how they will collaborate, and what indicators need to be observed. This step will provide a robust foundation and framework for the



subsequent field visit to the manufacturing lines. Basic tools from the i2connect training program, such as energy, networks, co-creation, warm and cold processes, will be employed during this session. Before embarking on the trip to Spain, another meeting will be organized, leveraging the "spiral of initiatives" framework. This meeting aims to comprehensively map all the components necessary for establishing the processing line and effectively communicating about it. This step will ensure that all aspects of the project are well-considered and planned before the visit.

At this stage, with ongoing on-farm experiments, well-defined actors, governance structures, and established collaborative methods, the focus of the field trip will shift to the practical and material aspects required to replicate a potato chip factory in their own territory. The goal is to document every possible solution and gather as much information as possible. Scribing methods such as mind mapping and rich picturing will be employed to capture insights and ideas.

Upon returning from the visit, the collected information and insights from each participant will be shared and integrated. The objective is to collectively determine the best solutions to bring back home and apply to their own project. This structured approach ensures that the interactive innovation process remains dynamic and well-informed, allowing the group to navigate the challenges of their new venture effectively.



Budget

First, the cooperative's total project expenses will be presented, then we will present our grant application, which covers a portion of the total project expenses.

Overall budget of the cooperative project:

The cooperative's project to diversify potato production requires several investments. It notably includes 3 study trips, one of which has already been carried out and paid for by the cooperative (Trip No.1 Marcheprime, 2023), in order to meet a local farmer who operates his own potato chip factory. The farmers' cooperative is also supported by two experts, who have followed the farmers since the start of the creation of the cooperative and by two employees of the Aude Chamber of Agriculture, who support the cooperative and ensure its logistics, administrative, technical and accounting.

The overall budget of the cooperative project amounts to approximately 25 000€.

See Appendix No.3 : Overall budget of the cooperative project

Grant application:

In this grant application, we would like to receive assistance to finance two study trips:

1) Study trip to Spain to visit a manufacturing factory. There will be 9 people on this study trip :

- 5 farmers from the cooperative
- 1 potato expert, Michel MALET (see attached curriculum vitae appendix No.5)
- 1 volunteer expert, Jacky RIQUET (see attached curriculum vitae appendix No.5)
- 2 technical employees of the Aude Chamber of Agriculture, who support and ensure the administrative, technical and accounting logistics of the cooperative: Eve THION and Stéphanie LATOUR (see attached curriculum vitae appendix No.5)

2) Study trip to a processing factory in Drôme, to test the suitability of the new variety of potatoes to be transformed into chips.

This represents a requested amount of 5 701,24€.

Knowing that the I2CONNECT subsidy would amount to 5 542€ the cooperative will cover the remaining 160€.



See Appendix No.4 : Grant application

If our application is accepted, we will undertake to provide all invoices for expenses and to provide a detailed technical report of the actions carried out and the acquisitions made during the two trips. Finally, we would like a contract to be established between the financier and the cooperative to secure guarantees of reimbursement of expenses incurred.

Attachments to the file

- Application file (project description, motivation, budget)
- Appendix :
 - o Appendix No.1 : Legal status of the cooperative
 - o Appendix No.2 : Timeline of the cooperative project
 - o Appendix No.3 : Overall budget of the cooperative project
 - o Appendix No.4 : Grant application
 - o Appendix No.5 : Curriculum vitae of study trips participants



APPENDIX

APPENDIX No.1

Legal status of the cooperative



N° de gestion 2000D00606

Extrait Kbis

EXTRAIT D'IMMATRICULATION PRINCIPALE AU REGISTRE DU COMMERCE ET DES SOCIÉTÉS
à jour au 11 avril 2019

IDENTIFICATION DE LA PERSONNE MORALE

Immatriculation au RCS, numéro 423 589 050 R.C.S. Carcassonne
Date d'immatriculation 01/01/2000
Dénomination ou raison sociale **SOCIÉTÉ COOPÉRATIVE AGRICOLE DU PAYS DE SAULT**
Forme juridique Société coopérative agricole à capital variable
Capital variable (minimum) 4 878,37 Euros
Adresse du siège Prats de Déjoux 11340 Espezel
Durée de la personne morale Jusqu'au 08/07/2098
Date de clôture de l'exercice social 30 juin

GESTION, DIRECTION, ADMINISTRATION, CONTRÔLE, ASSOCIÉS OU MEMBRES

Président

Nom, prénoms FERRIE Jean-Luc
Date et lieu de naissance Le 29/09/1974 à Quillan (11)
Nationalité Française
Domicile personnel 11340 Roquefeuil

Vice-président

Nom, prénoms SCABORO Jacques
Date et lieu de naissance Le 03/10/1952 à Toulouse (31)
Nationalité Française
Domicile personnel la Benague 11340 Roquefeuil

Secrétaire adjoint

Nom, prénoms LACROIX Cédric
Date et lieu de naissance Le 06/05/1989 à Lavelanet (09)
Nationalité Française
Domicile personnel l'Echartou 11340 Belvis

Secrétaire

Nom, prénoms WENTZ Valentin, Mathieu, Joseph
Date et lieu de naissance Le 14/06/1988 à Strasbourg (67)
Nationalité Française
Domicile personnel 1 Rue Bary d'Amont 11140 Galinagues

Trésorier

Nom, prénoms MAUGARD Laurent
Date et lieu de naissance Le 17/01/1973 à Toulouse (31)
Nationalité Française
Domicile personnel les Arbres 11340 Espezel

Administrateur

Nom, prénoms mathieu jean-jacques
Date et lieu de naissance Le 05/04/1970 à Monflanquin (47)
Nationalité Française

Greffé du Tribunal de Commerce de Carcassonne34 RUE DE STRASBOURG
11000 CARCASSONNE

N° de gestion 2000D00606

Domicile personnel

Chemin des Etables 11140 Mazuby

Administrateur*Nom, prénoms*

martel sébastien, ugo, paul

Date et lieu de naissance

Le 26/07/1986 à Carcassonne (11)

Nationalité

Française

Domicile personnel

22 Route de Belfort 11340 Espezel

Trésorier adjoint*Nom, prénoms*

BELLUS Gérard

Date et lieu de naissance

Le 01/08/1957 à Quillan (11)

Nationalité

Française

Domicile personnel

11500 Coudons

RENSEIGNEMENTS RELATIFS A L'ACTIVITE ET A L'ETABLISSEMENT PRINCIPAL*Adresse de l'établissement*

Prats de Déjoux 11340 Espezel

*Activité(s) exercée(s)*Pommes de terre de consommation et semences et autres légumes collecte
transformation stockage tri conditionnement promotion et vente*Date de commencement d'activité*

30/04/1999

Origine du fonds ou de l'activité

Création

Mode d'exploitation

Exploitation directe

OBSERVATIONS ET RENSEIGNEMENTS COMPLEMENTAIRES*- Mention*LE TRIBUNAL DE COMMERCE DE LIMOUX A ETE RATTACHE AU
TRIBUNAL DE COMMERCE DE CARCASSONNE PAR LE DECRET No
99-659 DU 30 JUILLET 1999 AVEC EFFET AU 1er JANVIER 2000.

Le Greffier

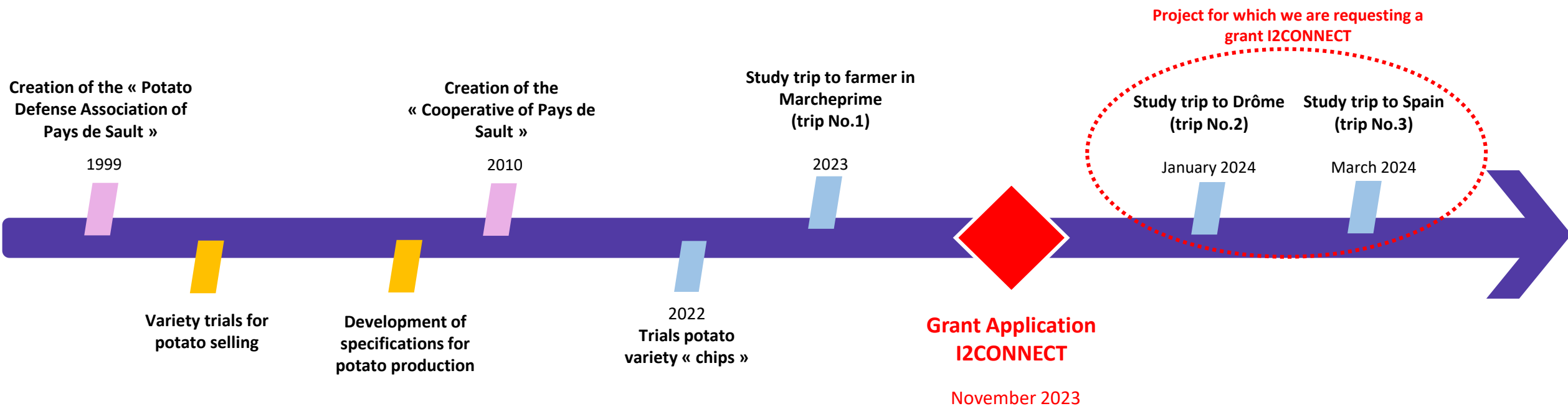





FIN DE L'EXTRAIT

APPENDIX No.2

Timeline of the cooperative project

TIMELINE OF THE COOPERATIVE PROJECT



-  Key step in the legal structuring of the potato sector
-  Key step of the « chips » transformation project
-  Key step in the development of the potato diversification sector

APPENDIX No.3

Overall budget of the cooperative project

OVERALL ESTIMATED BUDGET				
<i>Action</i>	<i>Description of the action</i>	<i>Number of days</i>	<i>Cost day</i>	<i>Total</i>
Travel budget No.3 to Spain manufacture in 2024 (2 days)	Study trip to Madrid : visit to two factories wich manufacture potato chip manufacturing lines and each will take us to see manufacturing lines in operation. The goal is to see factories that correspond to the scale we are considering (approximately 50 tonnes per year processed). So the idea is to see small manufacturing units to see the different possible options.			3 917,24 €
Travel budget No.2 to Drôme transformation in 2024 (1 day)	Trip to process 1 tonne of potatoes, which were sown this summer and which have just been harvested, to transform into chips. The objective is to test the suitability of the new potato variety to be transformed into chips.			1 784,00 €
Travel budget No.1 to farmer in Marcheprime in 2023 (1 day)	Visit carried out in 2023 to a local farmer who operates his own potato chip factory in the south-west of France, in Marcheprime			1 200,00 €
Animation (per year)	Two employees of the Chamber of Agriculture of Aude, who support the cooperative and ensure its logistics	23	566,00 €	13 018,00 €
Independent expert (per year)	Michel MALET, expert and trainer specializing in potatoes	5	1 000,00 €	5 000,00 €
Historic expert (per year)	Jacky RIQUET, historic expert	10	Volunteer	0,00 €
			TOTAL	24 919,24 €

APPENDIX No.4
Grant application

GRANT APPLICATIONS I2CONNECT				
Direct expenses for trip No.3 to Spain (from March 6 to 7, for 9 people)				
<i>Direct expense</i>	<i>Description</i>	<i>Unite price</i>	<i>Number</i>	<i>Total price</i>
Travelling expenses (=mileage costs + fuel)	Kilometres Quillan - Aéroport Toulouse = 270 km round trip Tax scale = 0,606€/km 2 cars	163,62 €	2	327,24 €
Toll fees	Toll Quillan - AirportToulouse = 12 € round trip 2 cars	12,00 €	2	24,00 €
Airport parking	45€ for a parking space from March 6 morning to March 7 evening 2 cars	45,00 €	2	90,00 €
Plane ticket	Toulouse Madrid round trip 9 people	150,00 €	9	1 350,00 €
Mini bus rental	9-seater mini bus rental at Madrid airport Approximately 250 € / day	550,00 €	1	550,00 €
Fuel	200 kilometers in total of traver with the mini bus, or around 100€ of fuel	100,00 €	1	100,00 €
Accommodation costs	1 hotel night per person	100,00 €	9	900,00 €
Meal expenses	1 breakfast + 2 lunches + 1 dinner per person	64,00 €	9	576,00 €
TOTAL TRIP No. 3				3 917,24 €
Direct expenses or trip No.2 in Drôme				
<i>Direct expense</i>	<i>Description</i>	<i>Unite price</i>	<i>Number</i>	<i>Total price</i>
Truck rental	A 20m3 truck with tailgate	300,00 €	1	300,00 €
Toll fees	Toll Espezel / Boffres = 68€ round trip 2 cars + 1 truck	68,00 €	3	204,00 €
Fuel for the truck	1000km	200,00 €	1	200,00 €
Travelling expenses for 2 cars (=mileage costs + fuel)	Espezel/Boffres = 892 km round trip Tax scale = 0,606€/km 2 cars	540,00 €	2	1 080,00 €
TOTAL TRIP No.2				1 784,00 €
TOTAL GLOBAL				5 701,24 €
GRANT I2CONNECT				5 542,00 €

APPENDIX No.5

Curriculum vitae of study trips participants

Eve THION

ÿ Domaine des Massols

11140 MARSA ÿ

04.68.31.89.81 ÿ

06.32.57.80.70 @

eve.thion@orange.fr

Born June 23, 1976 (47 years old)

in San Jose, California USA

French nationality

B permit

Married, one child aged 17



Project Manager, Territorial Facilitator

KNOWLEDGE OF THE AGRICULTURAL WORLD

2 years of experience at the Aude Chamber of Agriculture: HVA
Territorial Facilitator (monitoring local projects, PAC, etc.)

Creation of a farm in the HVA:

- Installation journey (BP REA, PPP, JA)
- Preparation of financing files (FEADER)
- Knowledge of networks and dedicated contacts:
 - Chamber of Agriculture, DDTM, Department, Region, Welcome to the Farm, Gites de France, Cathar Country Brand, BioCivam, Maison Paysanne, ADEAR
- Processing workshop on the farm and use of the Les Jardins de la Haute Vallée collective workshop, HACCP training (processing and restoration), labeling regulations
- Direct sales, in stores, at markets, fairs
 - local and regional fairs
- Partnership with local producers to
 - the inn

BPREA internship (4 weeks) in breeding, Benoît POUX's farm, in Belcaire

BPREA internship (2 weeks) in market gardening, PPAM, wild harvesting and processing, Les Jardins du Salvat, in St Etienne d'Albagnan

Member of the Board of Directors of ADEFE from 2015 to 2020: collaboration with breeders

KNOWLEDGE OF THE TERRITORY UPPER AUDE VALLEY

Resident in Marsa, Rébenty Valley, since 2008

Haute Vallée Territorial Facilitator, Aude Chamber of Agriculture, since January 2021

Involved in the local associative fabric

SKILLS

Management of a farm (creation, development, accounting management, marketing, agritourism): 11 years of experience

Knowledge of public administration and its functioning at territorial, national and European level

Territorial animation

Creator of ADEM Pays Cathare, a collective economic development project for the brand:
creation and management of a network of professionals and institutions

Project and team management in professional and associative settings

Member of YESS Pro: network of the Occitanie Region with destination professionals support for the creation and development of ESS businesses (webinar cycles and active support network)

Perfect mastery of all Microsoft Office software, Adobe, Sky Matters

Creation of websites, Facebook pages, good knowledge of social networks

Writing and synthesis skills

QGIS geographic information system

Bilingual English - Basic Spanish

KNOW-HOW

- ÿ Taking initiatives
- ÿ Relational Elected officials/collaborators
- ÿ Teamwork ÿ Involvement
- ÿ Organization ÿ Rigor

PROFESSIONAL CAREER

Jan. 2021 – to date: Chamber of Agriculture of Aude, Quillan Project

Manager, Territorial Facilitator Haute Vallée de l'Aude: monitoring of the development projects of the Quillan slaughterhouse, Territorial Food Plan of the HVA and of the department, Terra Rural of the CCPA, participation in the PAC system, working group on agricultural unhappiness

RESOLIA internal training: Transmission, human issues – Practice active listening – Know yourself better to act with more agility – Lead high-stakes meetings – Support public food ordering – Piecemeal exchanges – Territorialized Project Developer Cycle

Nov.-Dec. 2020: Chamber of Agriculture of Aude, Quillan and Narbonne

Research Manager – Investigations as part of the future Montpellier Perpignan TGV line

Jan. 2011 – Dec. 2022: Domaine des Massols, Marsa

Creator and Farm Manager in AB (saffron, market gardening and small fruits) with processing workshop and agri-tourism activity (Bed and Breakfast, Gite, Inn and Caterer). Operation transferred to my husband on January 1, 2023.

1999-2008: Chamber of Commerce and Industry of Montpellier Jan. 2001

– August 2008: Assistant to the Director of Studies & Development – Studies in the context of the implementation of new commercial activities – Creation of the Departmental Commercial Development Plan

2000 ESC - Assistant to the International Programs Manager

1999 ESC - Assistant to the "Men, internships and companies" Department

1991-1998: Various internships and seasonal jobs in the Tourism and Hotel Office

TRAINING

2021: Bachelor's degree (L3) Public Administration, honors fairly good remotely with the University of Poitiers

Teaching on the functioning of local authorities, institutions and administrative law, public actions within the framework of the EU, finances and new public management.

2010: BP REA at the CFPPA in Rivesaltes

Market gardening sector with specialization in processing

2005: Arcview (Geographic Information System), levels 1 & 2

2001: PCIE (European IT Skills Passport)

1997: BTS Assistant Director, Lycée Jean Mermoz, Montpellier

1995: 1st year DEUG MASS (Mats applied to social sciences), Montpellier 3 University

1994: Baccalaureate C (scientific), Lycée Louis Feuillade, Lunel

ASSOCIATIVE MANDATE

Treasurer of the VEGAzik association (creation of a concert hall and organization of events on the Plateau de Sault, in a rural environment) since its creation in 2016

CENTERS OF INTERESTS

Cat breeding (Main Coon breed)

Music and live performance

Flea market and creative hobbies, furniture restoration and vegetable dyes

NICT (New Information and Communication Technologies)

Jacky RIQUET

Historical expert

PROFESSIONAL EXPERIENCE

Employee of the Regional Chamber of Agriculture of Occitanir made available in the Department of Aude:

- From 1999 to today : support of a group, creation of a medium and long term collective project, technical, administrative, financial support for a group of breeders from the Pays de Sault wishing to diversify into potatoes :
 - Support for breeders in their desire to structure themselves to diversify
 - In 1999 : support for the creation of the Potato Defense Association (ADEPOPAS). Within this association of around twenty producers : promotion and communication of potatoes through the organization of events, economic and financial approach, support in the drafting of demanding specifications, support for the deposit of a specific and recognized brand "The potato of the Pays de Sault in Pyrénées Audoises", financial and accounting management of the association, creation of training for farmers and new staff
 - In 2010 : support in the creation of the cooperative of the Pays de Sault (drafting of statutes, economic and financial approach, technical support)
 - Today : helps the cooperative to carry out the "chips" diversification project
- Animation of a collective of farmers in the Montagne Noire sector in Aude : support for the Montagne Noire agricultural development group for the part of plant production linked to livestock farming (mountain cereals and fodder)
- Work on the phase prior to the creation of agro-environmental measures (sustainable development plans) : operational monitoring to measure the ability of producers to accept and environmental approach to their production (reduction of inputs, landscape integration of farm buildings,...)
- Animation of a collective of farmers in the Piège sector in Aude : supporting farmers in the creation of an employers' group.

FORMATION

BTS Accounting and Management

PERSONAL INFORMATION MALET Michel



172 Route de la Souyrinie 12850 ONET LE CHATEAU
 00 33 5 65 78 54 50 00 33 6 07 17 08 26
 Midi.agro.consultant@mc.com

Male Gender | Date of birth 04/06/1960 in Rodez (12) | French nationality

STUDY
WANTED

Strategic support for farmers or any SME in the potato sector, adaptation and monitoring of cultivation to various production specifications. Training, experimentation, various product development, amicable and legal expertise.

EXPERIENCE
PROFESSIONAL

Acquisition of various titles:

- Promoted to the Grade of KNIGHT in the order of AGRICULTURAL MERIT Order of January 31, 2016
- Judge – International Mediator at CIMEDA (International Court) GENEVA April 2015/2016
- International Expert at the European Commission BRUSSELS August 2013
- INTERNATIONAL Expert & Trainer at the Order of International Experts "UN" GENEVA 2013/2019
- Member, associate of the Network of International Experts, Adherent UN Global Compact "Global compact) 2014
- European Expert AEXEA Approved European Standard EN 45013, October 2013
- Professional Engineer of France (IPF) at the SNIPF International Standard ISO/IEC 17024, certified under the No. 25879 dated 10/26/2013 Agricultural Engineer BIT code 2213 – 2013/2016
- President & Expert at CNEIS of GNIS (national interprofessional group of seeds and plants), 1994/2020
- National Secretary and Expert at GEEPP (environment and plant protection) of the AFPP, and member of the national office 1994
- Member of AFPP (French Plant Protection Association) since 1994,
- Expert and member of the office of the Academy of Bio Control and Integrated Protection, 2013/2019
- CIR approved scientific expert 2012-2020 Ministry of Research and Innovation,
- Expert at the European RUCIP committee (rules and practices of inter-European trade in potatoes), 1994
- Recognized expert of the AGRO SANS FRONTIERE association, 1994
- Expert in growing media based on pine bark, 1999
- Certiphyto Trainer at ASFONA ZA and ZNA and FORMAP Trainer at AFPP ZNA 2012/2017
- Certified Phytosanitary Product Applicator by the Ministry of Agriculture since 1996,
- Certiphyto has been consulting since June 2012,
- Journalist SYRPA (National Union of Communication Professionals and Editors Agricultural Press), 2009

EU technical mission – ADECIA-GIZ OUZEBEKISTAN 09 & 11/2017, 2018 and 2019

1 day intervention PARIS ARVALIS conference "Take up the challenge of the Taupins fight" March 2016 and October 2020

3-day intervention Mostaganem ALGERIA for IBF International in 09/2014 ACE International

technical mission 20 days in 10/14

Scientific intervention at INRA of Sétat MOROCCO, AMPP 2012, UNESCO Paris January 2014, Rabat, Foundation of King Mohamed VI, June 2014

Scientific missions carried out in Romania, Morocco, Algeria, Tunisia, Poland, Mali. 2003 to 2013

Promotion of the French Potato plant in France and Abroad for France Obtention

(Algeria, Belgium, Spain, Morocco, Portugal, Poland, Russia, Ukraine, Netherlands, Romania, Tunisia) from 99 to 09

Scientific and Industrial Expertise in Tunisia, Mali and Morocco 2012 & 2013

Judicial and amicable expertise in agricultural environments (more than 30 missions) since 1995

Establishment of a Quality Potato sector in the Principality of Andorra 2007-2011

Co-Founder of the MEABILIS Consulting Private Advisor Network 2007

EDUCATION AND TRAINING - Baccalaureate F7 (Biochemistry) - Castres (81) 1978

- DEUG B (Microbiology) - Paul Sabatier University Toulouse (31) 1982
- LICENSE in Cellular Biology and Physiology - UPS Toulouse (31) 1984-85
- MASTER'S level in Biology and Plant Physiology - UPS Toulouse (31) 1985

SKILLS
PERSONAL

Mother tongue(s) French

Other languages)

	TO UNDERSTAND		TALK		TO WRITE
	Listen	Read	participate in a conversation	If Spoken Production	
English	A1	A2	A1	A1	A1
Spanish	A2	B1	A2	A1	A1
Arab	A1	-	-	-	-



Communication skills ÿ good communication skills acquired thanks to my experience and the number of files handled, numerous technical and scientific interventions in France and abroad

Organisational / managerial skills ÿ leadership, responsible for a team of 8 people at the ITPT (Technical Institute of the Apple of Earth)
ÿ Traceability management Morocco (Crisp Manufacturing Factory)

Employment-related skills ÿ good mastery of production and crop protection processes (currently trainer for certiphytos Decision Maker and Advisor) & various expertise in agriculture

Skills and Experiences Abroad

ALGERIA:

=Promotion and implementation of new varieties + Training: for the FN3PT (National Federation of Potato Plant Producers) Paris from 2003 to 2010, i.e. 36 Visits of 3 to 6 days
=Fungal Diseases Potato Training: for BAYER Crop Sciences in 2009, i.e. 1 visit of 6 days
=Training on Potato Fungal Diseases and Creation of a Diseases leaflet: for SYNGENTA in 2010, i.e. 4 visits of 5 days
=Training on Potato Fungal Diseases and Export: for PROFERT in 2010, 2012 & 2013, i.e. 3 visits of 3 days

=General Potato Training: for the ITCMI (Technical Institute of Market Gardening and Industrial Crops and the CNA (National Chamber of Agriculture) from 2005 to 2010, i.e. 15 visits of 5 days
=Potato Fertilization Training and Test Carrying Out: for FRARIMPEX Paris and AGRIMATCO Jordan in 2011, i.e. 4 visits of 5 days
=General Potato Training: for IBF international (European Commission) CCI of Mostaganem
=Training and diagnosis on the state of Potato Production for ACE international (European Commission) CCI of Mostaganem

ANDORRA:

=Establishment of a Quality Potato sector: Varietal experimentation, tasting, packaging chain study from 2009 to 2011 and 2012, i.e. 22 visits of 2 days

BELGIUM:

=Participation for Varietal Promotion at various exhibitions (Brussels Bruges, Etc...) for the FN3PT (National Federation of Potato Plant Producers) Paris from 2003 to 2010, i.e. 3 Visits of 3 days

SPAIN:

=Participation for Varietal Promotion at various exhibitions (Barcelona Zaragoza, Etc...) for the FN3PT (National Federation of Potato Plant Producers) Paris from 2003 to 2010, i.e. 6 Visits of 3 days

ITALY:

=Participation for Variety Promotion at a show (Bologna) for the FN3PT (National Federation of Potato Plant Producers) Paris in 2008, i.e. 1 3-day visit

MALI:

=Feasibility study to optimize production and soil diagnosis: for the CAI company of the GDCM SA group in Bamako for ICS International & Elom Plants September 2013, i.e. 1 visit of 3 days

MOROCCO :

= Establishment and development of a potato crop in Guelmim from 2010 to 2012 for the group BIG FEES i.e. 9 visits of 4 days
=Scientific intervention at INRA SETAT on "Amino Acids in Agriculture" AMPP (Moroccan Plant Protection Association) May 2012
=Monitoring and optimization of industrial potato production for LEADER FOOD Casablanca 2012 & 2013, i.e. 5 visits of 4 days

UZBEKISTAN

= Development of potato cultivation in rural areas of Uzbekistan from September 2017 to October 2019 for ADECIA –GIZ EU program, i.e. 16 visits of 15 days

PORTUGAL:

=Participation for Varietal Promotion at a show (Lisbon) for the FN3PT (National Federation of Potato Plant Producers) Paris from 2003 to 2010, i.e. 1 3-day visit

THE NETHERLANDS :

=Participation for Varietal Promotion at various exhibitions (Emmeloord, Etc...) for the FN3PT (National Federation of Potato Plant Producers) Paris from 2003 to 2010, i.e. 4 Visits of 3 days

RUSSIA:

=Visit and development of an Ozone pulsed UV machine (Fight against diseases) for CCS (Comite Center et Sud Laurière 87) at CSTO Obninsk October 2007, i.e. 1 visit of 4 days

TUNISIA:

=Promotion and implementation of new varieties + Training: for the FN3PT (National Federation of Potato Plant Producers) Paris from 2003 to 2010, i.e. 36 Visits of 3 to 6 days
=Monitoring and optimization of industrial potato production for SUN POTATO COMPAGNY Tunis 2013 4 visits of 3 days

Computer skills

ÿ Good command of Microsoft Office, Power Point, Excel and StatBox (statistical analysis™)

Other abilities

Acquisition during my years at ITPT and then later in my office: - **I managed experimental staff**, - I developed the work plan with a view to testing the effectiveness and selectivity of phytosanitary products, - I carried out varietal tests (with a view to their registration in the French catalog), - I managed the pathology laboratory, - I led various regional or national technical meetings, various training courses, - I wrote various articles on **the potato in the national and regional press (see publications in the appendices)**, - I participated in various international and national congresses, - I was in contact with technicians from various regions (South-West, South-East, Center, Alsace, Brittany, Picardy, North and Paris Region), - I carried out assessments following disputes in cultivation or conservation.

Driving license ÿ B, A and E license, International license & Boat license Coastal option

INFORMATION COMPLEMENTARY

- Publications - Assessment of the Fécule 12000 operation
 French potato n°433 **1986** p 93-94,
 - Crop profiles in 1986
 French potato n°437 **1986** p 285 to 298,
 - Assessment of the Fécule 12000 operation
 French potato n°440 **1987** p 161-162,
 - Magnesium in potato cultivation
 French potato n°438 **1987** Sheet from A to Z,
 - Potassium and potatoes
 French potato n°443 **1987** Sheet from A to Z,
 - Trace elements and potatoes
 French potato n°444 **1988** Sheet from A to Z,
 - Bacterial diseases
 French potato n°449 **1988** Sheet from A to Z,
 - Disinfection of storage rooms and packaging equipment
 French potato n°451 **1989** p 59 to 62,
 - Alternaria and potatoes
 French potato n°452 **1989** Sheet from A to Z,
 - Silver scab
 French potato n°458 **1990** Sheet from A to Z,
 - Contribution to the study on Erwinia carotovora subsp. atroseptica
 The 11 th Triennial conference of European Association for Potato Research
 Edinburgh 8-13 th July **1990** p 446-447,
 - Wireworms in potatoes
 French potato n°461 **1990** p 251 to 257,
 - Wireworms and potato crops, fruits and
 vegetables n°84 **1991** p 46-47,
 - Influence of the health status of the mother tuber on the transmission of Erwinia carotovora var; atroseptica
 French potato n°464 **1991** p 111 to 115,
 - Method for detection and identification of potato pathogens
 Collection of 120 p
1991, - How to weed?
 French potato n°468 **1992** p 15 to 19,
 - Bacterial wilt
 French potato n°469 **1992** Sheet from A to Z,
 - Top removal
 French potato n°470 **1992** Sheet from A to Z, -
 antigrasses
 French potato n°470 **1992** Sheet from A to Z,
 - Fungal wilts
 French potato n°471 **1992** Sheet from A to Z,
 - Pink rot and wet rots of tubers
 French potato n°471 **1992** Sheet from A to Z,
 - Powdery scab, warty scab and oosporiosis
 French potato n°475 **1993** Sheet from A to Z,
 - Late season potato cultivation in France
 The 12th triennial conference of European Association for Potato Research
 Paris 18-23 th July **1993** p 268-268,
 - Characterization and variability of Streptomyces ssp, agents of common scabies
 The 12th triennial conference of European Association for Potato Research
 Paris 18-23 th July **1993** p 378-379,

- Elements for a strategy to combat *Streptomyces* spp.
The 12th triennial conference of European Association for Potato Research Paris 18-23
th July **1993** p 489-492

- Potatoes for consumption in Ségala
The peasant will n°1802 **August 1993** p 6, - Results
of the tests in Ségala 1993 The peasant will n°1814
November 1993 p 13.
- Romania: agriculture in full upheaval of traditional collective structures
The peasant will n°1835 **June 1994** p 9,
- Potatoes file:
 - Current health issues
 - News flash on phytosanitary products
 - New developments in tuber quality control
 - Potatoes and Nitrates
 Field Crops Infos n°56 **May 1994**
- Silver Scab & Nitrates and tubers
SIFEL International Exhibition in Agen, FELSCOPE Conference **April 1995**
- For a beautiful presentation
Fruits and Vegetables n°153 **June 1997** p 38
- Potatoes: The first ones are sought after
Fruits and Vegetables n°158 **December 1997** p 59 & 60
- Varieties of early potatoes: Topping of crops
Fruits and Vegetables n°160 **February 1998** p 41 & 42
- Early potatoes: Be careful with plants that are too young
Succeed / Fruits and Vegetables n°178 **October 1999** p 42 to 44
- Early Potato: Physiology of Tuberization
Succeed / Fruits and Vegetables n°192 **January 2001** p 84 to 85
- Early Potato: Topping of the Early Potato
Succeed / Fruits and Vegetables n°207 **May 2002** p 56 to 57
- Early Potato: Yield Potential
Succeed / Fruits and Vegetables n°212 **November 2002** p 62 to 63
- Potato Weeding
Aquitaine Agricultural Warning: **February 2006**
- Vegetative multiplication and health risk
The French Potato n°547 **October 2006** p 44 to 46
- The potato wireworm
Aquitaine Agricultural Warning: **February 2007**
- Fertilization and Fertigation of Potatoes
Green Algeria Special issue of the Mostaganem International Exhibition **May 2009** p16 to 19
- Varietal trials in Algeria "France Obtention day at ITCMI" (Plant notebook)
The French Potato n°565 **September / October 2009** p 48 to 49
- Putting the Repousses to the Ground "Technical", Driving »
Succeeding Fruits & Vegetables n°312 **December 2011** p 48 to 49
- Potato Diseases and Pests in ALGERIA Field Guide 66 pages
SYNGENTA Publication **January 2012** - Uzbekistan, a production support
project Malet M. et al. (2015). *Main issues of protection
against wireworms for the potato sector.*

Intervention and summary in the proceedings of the Conference "Meeting the challenge of protection against wireworms",
Paris, March 25, 2015
- Malet M. (2015). Wireworms, A difficult pest to control, July-August 2015 La Pomme de Terre Française, n°600
p 47-49
The French Potato n°620 p 50 to 51 **November / December 2018**
- Route of Potato Production "Fergana Valley" Uzbekistan
86-page book Publication GIZ **October 2019**

Projects

ÿ Creation of a factory in Chips Tunis (Project manager of potato production for chips), (creation of a frozen fries
factory in Aveyron France) and creation of a unit in Andijan
(Uzbekistan)

Conferences

Seminars

ÿ "Amino acids Alternative to everything Chemical" 2012 at Sétat Maroc ÿ "The role of the
Expert Advisor" 2014 UNESCO Paris France ÿ "The Potato, 8000 years of History"
Foundation of King Mohamed VI Rabat Morocco ÿ Numerous seminars of APFF (France), AMPP (Morocco),
CNA (Algeria) as a Participant or
Speaker.
ÿ Uzbekistan 10 seminars on Taskhent and the Regions of Uzbekistan in 2018 – 2019

APPENDICES

See OEI site repository

Publications or research works. CIR file Ministry of Research and Education

PROFESSIONAL EXPERIENCE

Specialized accounting-management advisor Chamber of Agriculture from Aude

**Since
January
2010**

TRAINING

Support for collective structures in the territory in the areas of accounting, organization and management, funding requests as well as in the area of communication and organization of events (cooperative of the Pays de Saul, Foire d'Espezet association).

**1997-1999:
DUT Business
and Administration
Management
Finance-
Accounting
Option IUT Perpignan (66).**

EDE 11 assistant: monitoring the entire administration aspect of the IOC on sheep and goats.
Help with CAP electronic declaration.

Agricultural advisor ASTRE Chamber of Agriculture (Quillan)

**2001-
2010**

administrative and financial management of different associations: GERAPA (Replacement Service), ADEPOPAS, ADACPA, ASTRE, Association for the Promotion and Valorization of Local Products, Pastoral Groups.

SIG-ARCVIEW cartographic monitoring of pastoral groups, census of pastoral units in Aude (pastoralism convention), creation of an updating database for work on GPs.

**1997:
Baccalaureate
Economic and Social
Series Mathematics
Option Lycée
Polyvalent l'Esplanade Limoux (11).**

Support for CAP reform, preparation of CAD files, animation of local groups: GDA, GVA, etc.

Employee at the Banque Populaire counter (Quillan)

**Jan-Nov
2000**

customer relations, stock management, recording of current operations.

**2-month intern at Crédit Agricole (Montquiers)
Individual and Professional Credit Service**

**May-June
1999**

Market study on Aude Associations.

LANGUAGES

English: good level

Spanish: baccalaureate level

MASTERY OF COMPUTERS

Word, Excel, Access, ARCVIEW (Information System Geographic), Sky (accounting, commercial management, payroll), Internet navigation.

TO ACT. TO MOVE. BE

Sports: Skiing, dancing, cycling.