

## Organic Vegetable Growing Test Area of "Hauts Tolosans"

### A - FARM

#### CHAPTER A0: General information

ID.	Requisite	Data
A01	Contact person (name, email)	IMPERIAL Eric
A02	Farm name	Organic Vegetable Growing Test Area of "Hauts Tolosans"
A03	Address and Country	1237 rue des Pyrénées 31330 GRENADE FRANCE
A04	Experience in farm demonstration activities (years)	6
A05	Land drainage if yes, water collectors	no no
A06	Practicability of fields in case of rain	yes

#### CHAPTER A1: Structure of the farm

ID.	Requisite	Data
A11	Kind of soil (knowledge on soil analysis and composition)	Yes: silty-clayey-sandish
A12	Soil slope	No slope
A13	Hedges and / or ecological infrastructures	no
A14	Stable grassland	yes

## CHAPTER A2: Focus on farm

ID.	Requisite	Data			
A21	Land without cultivation	5 ha to be cultivated 1,5 without cultivation			
	Total	6,5 Ha			
A22	Arable crops	Organic farming Area (ha)	Integrated crop management farm (ICM) Area (ha)		
	Crop 1				
	Crop 2				
	Crop 3				
	...				
	Total (ha)				
A23	Vegetable crops	Open field 4,5 ha (organic cultures only)	Green house 3700 m <sup>2</sup> (unheated greenhouses), 10 greenhouses (5 lots of 2 greenhouses each) 100 % Organic		
		Organic Area (ha)	ICM farm Area (ha)	Organic Area (ha)	ICM farm Area (ha)
	Crop 1	according to the market gardeners		according to the market gardeners	

ID.	Requisite	Data
A31	Machines for soil tillage :	Yes : rotospade; grower, disc, culti-rake
A32	Machines for weed control :	Yes : hammer mill
A33	Irrigation system(s) Please specify:	Yes: sprinklers and drip irrigation - independent irrigation for each 2 greenhouses with individual water meter, pressure : 6m <sup>3</sup> /h.
A34	Equipment with remote control Please specify:	no
A35	Livestock and pastures -Radio frequency ID -Automated milking, feeding, and monitoring systems	no no
A36	Precision farming facilities	
	-Precision Application technologies (If yes specify)	no
	-Data acquisition technologies (If yes please specify):	no
	-Data analysis & evaluation technologies (If yes specify):	no
	-Others (specify)	no
		defect control of the irrigation system
A37	If the answer in A36 is "no", do you have availability of data and information from private / public database? Please specify:	no

## CHAPTER A4: Description of facilities

ID.	Requisite	Data
A41	Irrigation connections on field head	yes
A42	Electricity in field availability:	Yes : system out of order to date, repair planned quickly
A43	Electrical generator availability	no
A44	Availability of tractors / machines equipped with GPS system	no
A45	Availability of machines for harvest. If yes specify for which crop(s):	no
A46	Availability of refrigerated cells for storage and conservation:	yes : storage building 1.5 km away
A47	Availability of mechanical workshop: fixing ups, soldering, etc.:	Yes : small repairs on site + support from the technical service of municipality
A48	Availability of a storehouse with latch for equipment...	yes
A49	Possibility of connection for data transmission (3G, 4G, others) a	yes
A50	Other devices, data, equipment availability Please specify:	Yes: pots planter, clamps planter, agricultural machine for making hummocks , chain horrow, plastic removal machine, plastic installation machine, automatic sod making machine, 1 tractor without cab of 88 horses, rototiller

## CHAPTER A5: Other conditions

ID.	Requisite	Data
A51	<p>Demo site profile:</p> <ul style="list-style-type: none"> <li>- Implementation of a solution in living conditions simply with practical feedbacks</li> <li>- Experimentation and test of the solution with technical/scientific support and assessment feed-backs</li> <li>- Existence of a formalized service offer</li> </ul>	<p>yes</p> <p>yes</p> <p>no but would like to be able to do so</p>
A52	<p>Conditioned access to particular equipment (please specify)</p> <p>In case of special equipments requiring a certified experience, the final user/SME should demonstrate a specific training / license to use it in compliance with National/local laws</p>	no
A53	Availability of experienced staff to carry out and support field test trials	yes
	How many experimentation/demonstration activities are developed on average /year?	About twice a year
	How many qualified experts (technicians/researchers) are available?	1
In case of field management by third part:		
A54	Possibility to lose part of the production based on reimbursement	yes
A55	Possibility to apply experimental protocols supplied by third parts	yes
A56	Possibility to host visitors during tests	yes
A57	Possibility to sign confidentiality contracts	yes
A58	Presentation of the owner: introduction of the site and presentation of the owner motivation. Specify if your facility is already devoted to digital innovation testing	

Located at the gateway to the Toulouse urban area, in the municipalities of Grenade-sur-Garonne and Ondes, near its agricultural high school, the Organic Market Garden Test Area of the Community of Municipalities named "Hauts Tolosans" aims to accelerate the development and introduction of innovative technical and digital solutions in organic agriculture.

Born from the desire to preserve the useful agricultural surfaces of its territory associated with the desire to promote employment, the Organic Vegetable Growing Test Area obtained a label for the approach within the framework of the national call for projects "Pole of rural excellence" placing this territory in a real dynamic of initiative and innovation.

The test area is a means of consolidating the agricultural vocation of the peri-urban territory of the Hauts Tolosans, while developing short circuits and promoting the supply of organic farming products to canteens.

With the capacity to accommodate up to 4 future farm managers at a time, on 6 ha of irrigated land certified in organic farming, including 10 greenhouses and a farm building with all the equipment necessary for its proper functioning, the Test Area is a real tool for actors in the agricultural sector to learn the trade, to be supported in its installation in a sustainable way and to discover new techniques and technologies.

4 areas of innovation will be favored : **digital control of market gardening (computerized Decision Support Tool), biocontrol, precision irrigation system, robotization and exoskeleton**

## B - POST-HARVEST PROCESSING UNITS & OTHERS

### CHAPTER B0: General information

ID.	Requisite	Data
B01	Contact person (name, email)	IMPERIAL Eric
B02	Unit name	Organic Vegetable Growing Test Area of "Hauts Tolosans"
B03	Address and Country	1237 rue des Pyrénées 31330 GRENADE FRANCE
B04	Experience in demonstration activities (years)	2013
B05	Kind of units	Building for vegetables and equipment storage, productions, packaging

### CHAPTER B1: Structure of the unit

ID.	Requisite	Data
B11	Physical description of the unit (location, geographical data, etc...)	
	250 m <sup>2</sup> in Ondes shared in 2 storage sheds : one for agricultural equipment , the other one thermally insulated for vegetables storage	

### CHAPTER B2: Data about products/services

Requisite		Data		
Description of products, semi-products, service or any output of your process				
B21 Product	Production industry		Experimental Industry	
	Organic origin (unit)	ICM Origin (unit)	Organic origin (unit)	ICM Origin (unit)
Every kind of organic market garden production	X		X	

Particular standards / certification system (specify)	Certified in organic farming by ECOCERT
Other useful details (specify and describe)	

### CHAPTER B3: Description of processing and “technological” equipments

ID.	Requisite	Data
B31	Physical description of the unit (location, geographical data, etc...) (specify)	
	Non-automated productions	
B32	Equipment to apply new technologies in the process unit (specify):	
	No technologies yet	

### CHAPTER B4: Description of facilities

ID.	Requisite
B41	Presentation of the owner: introduction of the site and presentation of the owner motivation. Specify if your facility is already devoted to digital innovation testing
	See A58