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PROTOCOL FOR HOSTING A DEMONSTRATION PROJECT

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A - FARM

CHAPTER A0: General information

ID.	Requisite	Data
A01	Contact person (name, email)	Nicola Minerva (nicola.minerva@astrainnovazione.it)
A02	Farm name	ASTRA Innovazione e Sviluppo S.r.l.
A03	Address and Country	Via Tebano 45 - 48018 Faenza (RA)
A04	Experience in farm demonstration activities (years)	40
A05	Land drainage if yes, water collectors	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
A06	Practicability of fields in case of rain	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

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CHAPTER A1: Structure of the farm

ID.	Requisite	Data
A11	Kind of soil (knowledge on soil analysis and composition)	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
A12	Soil slope	Approx % 0 to 15
A13	Hedges and / or ecological infrastructures	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
A14	Stable grassland	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

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CHAPTER A2: Focus on farm

ID.	Requisite			Data	
A21	Land without cultivation			Approx ha 5,5	
A22	Arable crops - Approx ha				
	Details	ORGANIC FARM	INTEGRATED CROP MGT FARM		
	Wheat	1	9		
	Barley		2		
A23	Vegetable crops - Approx ha				
	Details	OPEN FIELD		GREENHOUSE	
		ORGANIC FARMING	INTEGRATED CROP MGT. FARM	ORGANIC FARMING	INTEGRATED CROP MGT. FARM
	Pepper	1			3
	Tomatoes		10		
	Lettuce		3		
A24	Vine crops - Approx ha				
	Details	ORGANIC FARM	INTEGRATED CROP MGT FARM		
	Crop 1	1,5	3,5		

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A25	Orchards - Approx ha			
	Details	ORGANIC FARM	INTEGRATED CROP MGT FARM	
	Peaches		7	
	Apricots		7	
	Crop 3			
	Crop X			
A26	Livestock			
	Details	Approx no.	Breeding form	Organic breeding (or other, please specify)
	Livestock 1			
	Livestock 2			
	Livestock 3			
	Livestock X			
A27	Based on the experimental field necessity different arable and/or vegetable crop can be managed			Approx ha

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CHAPTER A3: Description of farm equipment

ID.	Requisite	Data
A31	Machines for soil tillage	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
A32	Machines for weed control	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
A33	Irrigation system(s) If yes what kind (specify)	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Sprinkler and drip
A34	Equipment with remote control (specify): ----- ----- -----	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
A35	Livestock and pastures - Radio frequency ID: Transmit identity data with tags attached to production units (mostly animals) that allow data collection on performance as well as individualized management - Automated milking, feeding, and monitoring systems: Perform milking or feeding operations automatically with robotic systems, often combined with sensors that collect basic biometric data on animals, thereby reducing labour needs and facilitating individualized animal management	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
A36	Precision farming facilities If yes description (e.g.: GPS for straight line assistance, meteorological stations, soil sensors, etc.) following the scheme: - Precision Application technologies - Data acquisition technologies - Data analysis & evaluation technologies	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Meteorological station, Data Logger, Drop and forwater, Environmental sensors

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A37	<p>If the answer in A36 is “no”: do you have availability of data and information from private / public database? Please specify</p> <p>Public data from data banking available at territorial level:</p> <p>Arpae / Dexter (meteorological data)</p> <p>Irrinet (water availability and management)</p>
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CHAPTER A4: Description of facilities

ID.	Requisite	Data
A41	Irrigation connections on field head	X yes <input type="checkbox"/> no
A42	Electricity in field availability	<input type="checkbox"/> yes X no
A43	Electrical generator availability	X yes <input type="checkbox"/> no
A44	Availability of tractors / machines equipped with GPS system	<input type="checkbox"/> yes X no
A45	Availability of machines for harvest. If yes specify for which crop(s) For vegetable, seeds -----	X yes <input type="checkbox"/> no
A46	Availability of refrigerated cells for storage and conservation	X yes <input type="checkbox"/> no
A47	Availability of mechanical workshop: fixing ups, soldering, etc.	X yes <input type="checkbox"/> no
A48	Availability of a storehouse with latch for equipment...	X yes <input type="checkbox"/> no
A49	Availability of optical fibre / 4G connection for data transmission	X yes <input type="checkbox"/> no
A410	Other availability (e.g., GPRS coverage on site, etc.) Soil tillage is managed by third parties, specific practices can be organised according to needs	_____ _____ _____

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CHAPTER A5: Others conditions

ID.	Requisite	Data
A51	Access site - (The cost will be quantified case by case)	X yes <input type="checkbox"/> no
A52	Access to particular equipment - (The cost will be quantified case by case). In case the use of some special equipment will be necessary by final user/SME they will have to demonstrate a specific training / license to use it in compliance with National/local laws. not clear	X yes <input type="checkbox"/> no
A53	Availability of staff experienced to carry on and support field test trials - (The cost will be quantified case by case)	X yes <input type="checkbox"/> no
In case of field management by third part:		
A54	Availability to lose part of the production based on reimbursement	X yes <input type="checkbox"/> no
A55	Availability to apply experimental protocols supplied by third parts	X yes <input type="checkbox"/> no
A56	Availability to host visitors during tests	X yes <input type="checkbox"/> no
A57	Availability to sign confidentiality contracts	X yes <input type="checkbox"/> no
A58	<p>Presentation of the owner: introduction of the site and presentation of the owner motivation</p> <p>ASTRA, in the 4 locations has over 70 hectares of land, greenhouses, winery and laboratories for chemical, microbiological, sensory and qualitative analyses.</p> <p>The activities carried out within the farm involve the main productive sectors: fruit, horticultural in protected cultivation and in open field), viticulture and seed production and extensive and industrial crops. The main issues concern:</p> <ul style="list-style-type: none"> - evaluation of product innovations (e.g., varietal assessments, quality monitoring, support for public and private genetic improvement projects); - the development and evaluation of process innovations (new agronomic techniques, implementation of complex production systems, control and rationalization of the production process, reduction of environmental impact); 	

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- development of innovations for organic crops;

- development of technological innovations on agro-food production like preservability lines at controlled temperatures, lines of minivinification and microvinification, potato cooking line; studies aimed at testing phytosanitary tools/products and herbicides.

ASTRA carries out research projects for the genetic improvement of fruit and vegetables, for the development of cultivation techniques, for the use of biomass, for standardization of the quality of fruit and vegetables, zoning and territorial characterization; improvement of viticulture and fruit production, the development of new processes and products in the wine sector.

ASTRA provides a counter service for operators and technicians of the agricultural sector, organization of conferences, technical meetings, guided tours and pomological exhibitions; publications in specialized trade magazines.

In carrying out its activities it is part of a network of collaborations and interactions that include University Institutes, Research Organizations, Experimental Institutes of MiPAF, laboratories and Experimental Companies of Emilia-Romagna and other regions, institutional bodies and development agencies, rural areas of different Italian regions. This allows ASTRA and its technicians and researchers to participate in numerous national and regional working groups and technical commissions.

The motivations for applying for an experimental company in the context of the DIVA project is related to the company's mission. ASTRA has always been a company that carries out research, experimentation and innovation in the field of agriculture

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B - POST-HARVEST PROCESSING UNITS & OTHERS

CHAPTER B0: General information

ID.	Requisite	Data
B01	Contact person (name, email)	Nicola Minerva (nicola.minerva@astrainnovazione.it)
B02	Unit name	ASTRA Innovazione e Sviluppo S.r.l.
B03	Address and Country	Via Tebano 45 – 48018 Faenza (RA)
B04	Experience in demonstration activities (years)	40
B05	Kind of units	Quality lab, Experimental cellar, Chemical lab

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CHAPTER B1: Structure of the unit

ID.	Requisite	Data
B11	<p>Physical description of the unit (location, geographical data, etc...)</p> <p>Astra has three farms located in the eastern part of the Emilia Romagna region.</p> <p>The Operational Unit of Imola, located east of the cities of Imola in via Emilia levante number 18, has an area of about 30 hectares used for experimental activities that concern the fruit growing (genetic improvement of peach and apricot) and the horticulture (varietal comparisons and defense and nutrition tests on full-field and greenhouse crops). A part of the farm of about 6 hectares is used for arable crops functional to agricultural rotation. The company is mainly made up of flat surfaces even if they have to report about 4 hectares of surfaces with average slopes of 10%. The nature of the soils is predominantly clayey (over 30%) and is poorly endowed with organic matter.</p> <p>The operating unit located in the municipality of Faenza in Via Tebano 45, is a few kilometers to the south from the town of Castel Bolognese, this unit houses the legal and administrative headquarters of ASTRA. The unit has an agricultural area of just over 16 hectares that host experimental crops of peach, apricot and vine. The latter has biological vineyards, large collections of the various germplasm used in Italy in the production of wine, has areas dedicated to innovation tests both in the field of genetics (new varieties), and in the agronomic management (use of fertilizers and innovative soil improvers, pruning techniques and vineyard management with reduced environmental impact). Fruit farming includes evidence of genetic improvement of peach and apricot. In a part of about 5 hectares extensive cultivations are practiced to allow the agrarian rotation of the fruit and vine plants. The company is characterized by lands with slight slopes (from 0 to 12%), typical of the Romagna foothills area. The soils are of medium mixture with prevalence of silty and clayey components.</p> <p>The operational unit of Cesena, located on the northern outskirts of the city of Cesena, in Via Calcinaro 1920, has a farm of about 17 hectares. The farm hosts experimental tests on fruit growing (phytosanitary tests, resistance and tolerance assessments for plant diseases of different peach and apricot genotypes), horticulture tests in open fields and under greenhouses (varietal comparisons, Pest and disease management tests, and agronomical tests like on fertilization, and others). The company dedicates part of few hectares (including 1 organic certificate) to the multiplication of seed crops for third parties for the production of vegetables. An area of about 4 hectares is dedicated to arable crops functional</p>	

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to the rotation of other crops. The company has a completely flat surface and consists of medium-textured soils.

All three farms are equipped with land tillage machines and agronomic practices such as fertilization, weeding, control of grassing between the rows of tree crops. All the farms have an excellent water drainage system guaranteed by ditches maintained periodically. In each farm there is a basin for the storage of water used for irrigation. In all farms there is possibility to have pressurized water on most of the land surface.

For more information, please consult the website
<http://www.astrainnovazione.it/home.html>

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CHAPTER B2: Data about products/services

ID.	Requisite	Data																																			
B21	Description of products, or semi-products, or service or everything it is for you the output of your process																																				
	<table border="1"> <thead> <tr> <th colspan="3">PRODUCTION INDUSTRY</th><th colspan="3">EXPERIMENTAL INDUSTRY</th></tr> <tr> <th>Details</th><th>FROM ORGANIC FARMING/ BREEDING</th><th>FROM INTEGRATED CROP MGT FARMING/ BREEDING</th><th>Details</th><th>FROM ORGANIC FARMING/ BREEDING</th><th>FROM INTEGRATED CROP MGT FARMING/ BREEDING</th></tr> </thead> <tbody> <tr> <td>Product 1</td><td>///</td><td>///</td><td>Product 1</td><td>///</td><td>Tomato sauces</td></tr> <tr> <td>Product 2</td><td>///</td><td>///</td><td>Product 2</td><td>///</td><td>Fruit Juices</td></tr> <tr> <td>Product 3</td><td>///</td><td>///</td><td>Product 3</td><td>///</td><td>Wine</td></tr> <tr> <td>Product X</td><td>///</td><td>///</td><td>Product X</td><td>///</td><td>///</td></tr> </tbody> </table>		PRODUCTION INDUSTRY			EXPERIMENTAL INDUSTRY			Details	FROM ORGANIC FARMING/ BREEDING	FROM INTEGRATED CROP MGT FARMING/ BREEDING	Details	FROM ORGANIC FARMING/ BREEDING	FROM INTEGRATED CROP MGT FARMING/ BREEDING	Product 1	///	///	Product 1	///	Tomato sauces	Product 2	///	///	Product 2	///	Fruit Juices	Product 3	///	///	Product 3	///	Wine	Product X	///	///	Product X	///
PRODUCTION INDUSTRY			EXPERIMENTAL INDUSTRY																																		
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Product X	///	///	Product X	///	///																																
B22	Other standards / certification system (specify)	_____																																			
B23	Other useful details (specify and describe)	Test facilities authorized by Health and Agriculture Ministries																																			

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CHAPTER B3: Description processing and “technological” equipment

ID.	Requisite	Data
B31	<p>Processing equipment (specify):</p> <p>Microvinification Center</p> <p>ASTRA has developed a microvinification line for the correct processing of batches of grapes of less than 100 kg for the production of red wines and white wines.</p> <p>In particular, there are:</p> <ul style="list-style-type: none"> - Stainless steel roller pressing machine; - 2 membrane micro-presses with control system for operating pressure; - 2 Vaslin discontinuous horizontal micro-presses; - Wolfarth R20 pump for liquids; - 2 Wolfarth R12 pumps for liquids; - Stainless steel tanks with a capacity ranging from 70 to 200 liters for a total capacity of about 8,000 liters - Thermoconditioned environment for temperature-controlled fermentation - STAINLESS STEEL containers for the inert gas storage of wine, for variable capacities (9, 18, 30, 50 liters) - 3 automatic micromacerators, 70 kg capacity of grapes <p>Chemical analysis laboratory</p> <p>The chemical analysis laboratory, equipped with the most modern instruments for the analytical control of products of vitivinicultural origin and qualified personnel, carries out control and support activities for research and experimentation activities carried out in the centre, as well as service activities for external users.</p> <p>For analytical techniques, the official EC methods and the OIV methods are preferentially used. Alternatively, analytical methods taken from scientific bibliography and developed based on the potential of the laboratory are used.</p> <p>The laboratory is equipped with following instrumentation:</p> <ul style="list-style-type: none"> - 2 automatic titrators with sampling plate for the determination of reducing sugars, pH and total acidity; - UV-Visible spectrophotometer, double-beam, interfaced to a PC using application software; - atomic absorption spectrophotometer equipped with an autosampler; - gas chromatograph equipped with an ECD, NPD, FID detector; - Isocratic HPLC, thermostated, interfaced to a PC, equipped with UV detector and autosampler. 	

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- 2 automatic distillers for the determination of alcohol and volatile acidity.
- hydrostatic balance for density determination.

Microbiological analysis laboratory and yeast center

It performs microbiological analysis of the control of the transformation processes and of the finished products as well as the verification of the systems used for the processes both for external users and for the activities related to research and experimentation.

The Regional Center of Yeasts runs a service collection of 400 selected yeast strains that it distributes on request.

The laboratory is equipped with current equipment and the following instrumentation:

- Laminar flow hood;
- optical microscope with BN camera and video;
- stereo microscope;
- autoclave 90 liters for sterilization;
- various thermostatic fridges;

Sensory analysis laboratory

The sensory analysis laboratory was born as a support to the research, viticulture, enological, and phytolaty experimentation activities, as well as for the verification of the quality of commercial products for large retailers.

The laboratory is equipped with environment and equipment suitable for the correct execution of sensory tests.

Experimental cooking

- Electric vegetable cutter complete with discs
- 2 kw countertop electric fryer
- Countertop kitchen with three Emiliani fires
- Emiliani suction system
- Munsell color comparison cards
- Lagostina steam cooking pots
- Electronic digital clocks

Quality laboratory

- Magnetic stirrers with FAVS termorisc plate (No. 2)
- Analytical balance 0.01 g Mettler
- Scales 0,0001 g Mettler
- Centrifuges (No. 2)
- Minolta L * a * b * CR-300 portable colorimeter
- Centrifuge 1000 rps
- 200-1000 Automatic Micropipettes (No. 5)
- P20 automatic micropipettes
- ZEISS optical microscope
- SALTER bench digital penetrometer
- 761 calimatic pH-meter of the Knick

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	<ul style="list-style-type: none"> - portable pH-meter - ATAGO PR-100 digital refractometer - ATAGO optical refractometer - SEVERIN hot sealer - Gas chromatography syringe - JASCO V-530 spectrophotometer - CRISON automatic titrator - Gibertini titrator - Electrophoresis equipment Micropropagation laboratory - AURA laminar laminar flow hood - VAPOR Matic autoclave - Complete growth chamber - Klimatic wardrobe 1500 lt. - Klimatic 700 lt. Wardrobe (No. 3) - Option 4 Deionizer elga - Inox 5986 large rotary shaker - Magnetic stirrers. (# 2) - Stereo-microscope - Binocular and video microscope Phytosanitary analysis laboratory - Stand precision balance. Ohaus - Electronic scale 400 - Freezer freezer washing system - Digital ph-metro plates - Electronic reader for TV990 plates - Hanna manual pH meter - 8-channel electronic pipettes (n.2) - 8-channel manual pipettes (# 3) - Single-channel manual pipettes (No. 3) - 96-channel Transtar for plates - Tecanplant 400 perforator ejector - Fenwick apparatus estr. nematodi - Continental thermostat - Ovenlab drying oven - Miele Glass washing 	
B32	<p>“Equipment to apply new technologies in the process unit (specify):</p> <p>Please see B31 section</p>	

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CHAPTER B4: Description of facilities

ID.	Requisite
B41	<p>Please describe facilities included in your unit (list them in case of more that one)</p> <ul style="list-style-type: none"> - Offices - Printers (copies, fax, scanner) - Meeting rooms - Wireless