



Deliverable D1.1: KICK-OFF MEETING REPORT

WP	1	Project management		
Task	Task 1.1	Project Management		
Dissemination level¹	PU	Due delivery date	30/06/2017	
Nature²	R	Actual delivery date	30/06/2017	

Lead beneficiary	METEOSIM SL
Contributing beneficiaries	All partners

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¹ Dissemination level: **PU** = Public, **PP** = Restricted to other programme participants (including the JU), **RE** = Restricted to a group specified by the consortium, **CO** = Confidential, only for members of the consortium

² Nature of the deliverable: **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

Version history

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0.1	31/05/2017	María Navarro Abellán – METEOSIM SL	Creation
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1.0	30/06/2017	METEOSIM SL	Final

Deliverable abstract

During 10th and 11th May 2016 the Kick-off meeting of the project VISCA (Vineyards Integrated Smart Climate Application) took place in the premises of CAVAS CODORNIU (Sant Sadurní d'Anoia, Barcelona, Spain), Spanish end-user and partner.

The kick-off meeting was celebrated in order to introduce all partners, explain general and specific objectives of every Work Package, and define the next 6-12 months actions and activities.

The first day was devoted to the presentation of partners, presentation of *EC programme and initiatives on climate service* by the Project Officer, as well as explanation of all WPs:

- WP1: Project Management
- WP2: Climatic & Agricultural Data
- WP3: Climate service and mobile application
- WP4: Demonstration
- WP5: Exploitation, Dissemination and Communication

The second day was devoted to the definition of end user's requirements and actions to integrate WP2, WP3 and WP4.

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³ Creation, modification, final version for evaluation, revised version following evaluation, final.

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1. Introduction

During 10th and 11th May 2016 the Kick-off meeting of the project VISCA (Vineyards Integrated Smart Climate Application) took place in the premises of CAVAS CODORNIU (Sant Sadurní d'Anoia, Barcelona, Spain), Spanish end-user and partner (see Annex II).

This project was granted under the call SC5-01-2016, with a GA number 730253, and started officially on 1st May 2016.

The kick-off meeting was celebrated in order to introduce all partners, explain general and specific objectives of every Work Package, and define the next 6-12 months actions and activities.

The list of attendees of both days is attached as Annex I, and the general agenda is attached as Annex II of this document.

2. Document objectives

The objective of this document is to describe the activities carried out plus the actions settle down during the Kick-off meeting of VISCA, which will be the basis for the work to be done during the first 6 months of the project.

3. Results and Analysis

Minutes of the Meeting

10th May 2017 (Wednesday)

9:45-10:00 | Presentation of EC programme and initiatives on climate service (by Alessia Pietrosanti)

The meeting started with a remote presentation by the Project Officer (PO) of the project, Alessia Pietrosanti, about EC programme and initiatives on climate service called "Implementation framework and project monitoring". During this presentation, the PO remarked the role of EC programmes and roadmap of climate service projects and initiatives, as well as key challenges of it: *Growing the climate service market by demonstrating the added value of climate services*. She highlighted likewise the key expectations of VISCA, based on the EU programme (SC5-01-2016), which are:

- providing added-value for the decision-making process addressed by the project
- facilitating rapid deployment and market uptake of climate services
- offering concrete solutions to overcome barriers hampering deployment of climate services in the specific area of application

Finally, the sister projects of the EU programme SC5-01-2016 were presented and she explained the Open access data basis (based on article 59.3 of GA), as well as the project timeline, reporting and payments.

10:00-10:45 | Partners Presentation (5 min each)

The partners presented their companies/institutions to each other with brief presentations:

Participant No	Participant organization name	Short Name	Country	Type
1 Coordinator	METEOSIM S.L.	MET	Spain	SME
2	Barcelona Supercomputing Center	BSC	Spain	Research Center
3	Codorniu S.A	COD	Spain	Industry
4	Institut de Recerca i Tecnologia Agroalimentàries	IRTA	Spain	Research Center
5	Istituto Superiore Mario Boella sulle Tecnologie dell'Informazione e delle Telecomunicazioni	ISMB	Italy	Research Center
6	Università degli Studi di Napoli Federico II	NAP	Italy	University
7	Mastroberardino spa	MAST	Italy	SME
8	Symington - Vinhos S.A.	SYM	Portugal	Industry
9	Universidade do Oporto	UPORTO	Portugal	Research Center
10	Unite Technique du Semide Geie	SEM	France	Non-profit org
11	Alpha Consultant	ALPHA	UK	SME

10:45-11:15 | Project Overview

The project coordinator (María Navarro, METEOSIM SL), presented the overall objectives of the project, WPs structure, consortium (roles per partner) and assigned budget. She reminded the general agenda of the project during the whole lifetime, highlighting deliverables and milestones of the first year:

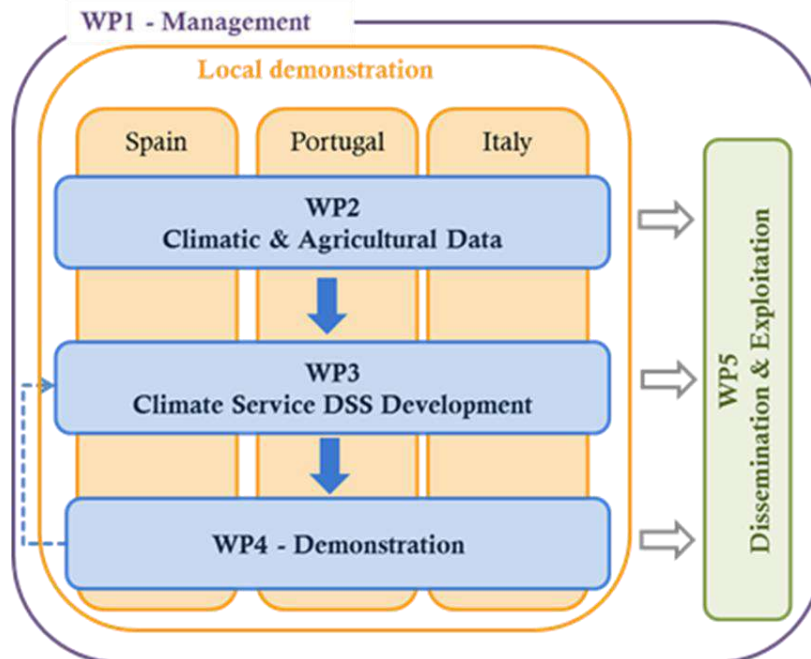


Figure 1. Work Packages structure of VISCA

Deliverable (number)	Deliverable Name	Work Package Number	Short Name Lead Participant	Type	Dissemination Level	Delivery Date
D1.1	Kick-off meeting report	WP1	MET	R	PU	M02
D5.1	Project website	WP5	SEM	DEC	PU	M03
D3.1	End-User requirements	WP3	COD	R	PU	M04
D1.2	Risk management plan	WP1	IRTA	R	CO	M06-12-18-24-30
D1.3	Data Management Plan	WP1	SEM	R	PU	M06
D4.1	Pilot Plots Implementation Report	WP4	IRTA	R	CO	M06
D5.2	Communication and Dissemination plan	WP5	SEM	R	PU	M06
D3.2	Technical specifications	WP3	BSC	R	PU	M08
D1.4	Innovation Management Plan	WP1	ALPHA	R	PU	M12
D2.1	Seasonal forecast predictions quality assessment report.	WP2	BSC	R	PU	M12
D2.2	Report on weather forecast extreme events	WP2	MET	R	PU	M12
D2.3	Report on the performance of phenological models	WP2	IRTA	R	PU	M12
D2.4	Report on the performance of irrigation requirements model	WP2	IRTA	R	CO	M12
D1.5	First Annual Report	WP1	MET	R	PU	M13
D4.2	Report on Calibration process	WP4	IRTA	R	CO	M14

Milestone number	Milestone Name	Related Work Package(s)	Due Date (in month)	Means of Verification
MS1.1	Deployment of VISCA's web-based tool	WP1	M03	All partners using this tool as a daily routine for communication and documents sharing
MS1.2	First Advisory Board Meeting	WP1	M04	Minutes of the meeting circulated among the whole consortium
MS5.1	First workshop of VISCA	WP5	M07	Workshop report circulated among the consortium
MS2.1	Availability of weather forecast information for the 3 demo-sites	WP2	M08	Short-term data of extreme weather variables can be checked by end-users
MS3.1	DSS design review	WP3	M08	Minutes of the meeting on DSS review circulated among the whole consortium
MS2.2	Availability of seasonal forecast simulations for the diagnostic case of study	WP2	M12	Seasonal data of temperature and precipitation can be checked by end-users
MS2.3	Availability of calibrated Phenological and Irrigation Requirement models for the different demo zones and cultivars	WP2	M12	Data of phenological events and water needs can be checked by the end-users
MS3.2	First Release of the DSS	WP3	M12	Software tested
MS3.3	First release of the mobile application	WP3	M12	Application tested

11:45-12:15 | Presentation of WP1 – Management (METEOSIM)

The project coordinator explained the objectives and main actions of WP1:

- Connection with Brussels: administrative and financial issues
- Risk management
- Data management plan
- Project Advisory Board (PAB)

Also important to understand the decision-making chain, the coordinator reminded the management structure of VISCA:

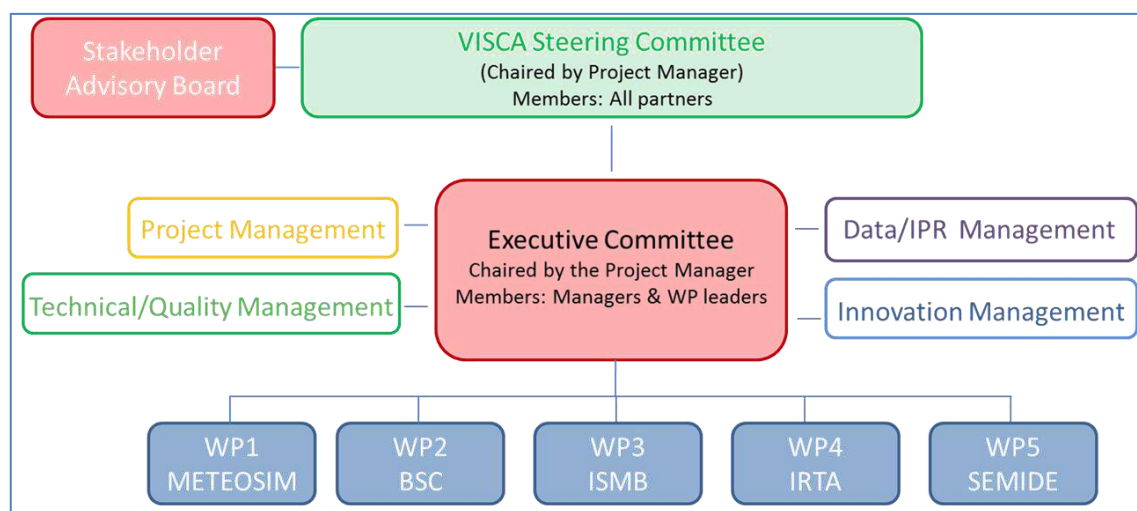


Figure 2. Management structure of VISCA

Subsequently, she made a general overview of the meetings and workshops included in project

- M01 (May 2017): Kick Off Meeting
- M07 (November 2017): First Workshop, PAB general meeting: presentation of first results to end-users and stakeholders plus feedback on extrapolable opportunities
 - Tentative place: Symington premises (Portugal)
- M19 (November 2018): Second PAB and general meeting
- M31 (November 2019): Third PAB and general meeting + second workshop: make public and cover the results and outcomes of the complete project, open to anybody but primarily directed at main stakeholders and end-users
 - Tentative place: Mastroberardino premises (Italy)

M36 (April 2019): Final conference.

12:15-13:00 | Presentation of WP2 – Climatic and Agricultural Data (BSC)

Raül Marcos (BSC) presented the WP2:

- General overview (objectives, deliverables, milestones, agenda)
- Seasonal forecasts: end-user's requirements

- Extreme events: end-user's requirements
 - Phenological and irrigation models: integration with meteorological and seasonal forecasts
- BSC presented likewise the basic model chain, where the input and output data of the weather and climate module of the DSS - according to user's requirements- are well specified. The phenological models will need values of temperature, precipitation, radiation, etc. for the next few months, so they can provide values of the phenological events such as bloom, veraison, harvest day, etc., necessary for the demo sites to apply the different technologies on the vineyards:

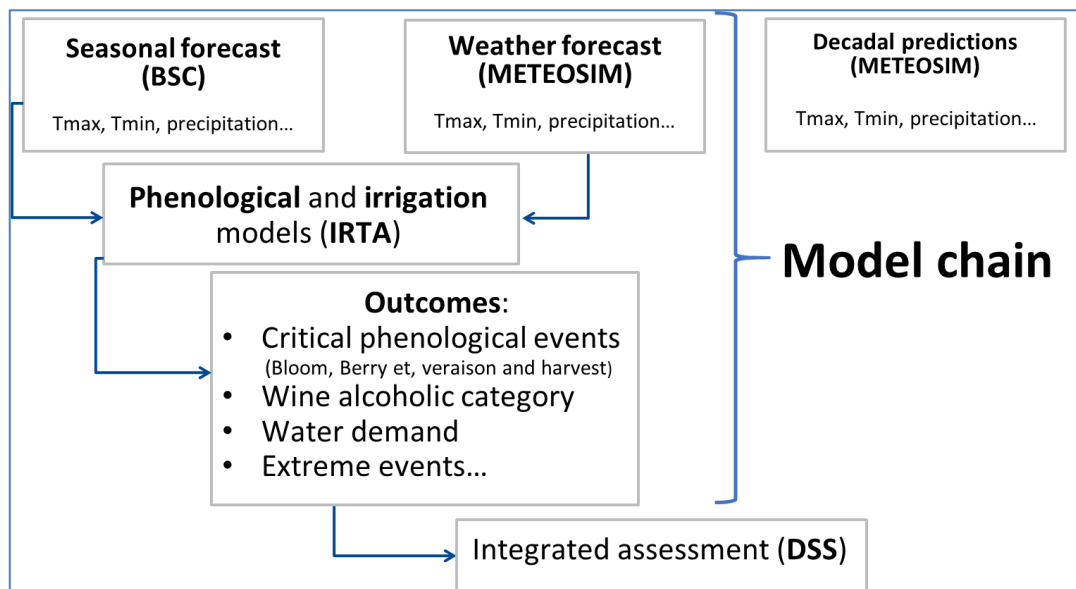


Figure 3. Weather and seasonal model chain (input and output data) of VISCA

METEOSIM also presented its contribution to WP2, which will be the production of data on extreme events (heat waves and heavy rain, basically), for a short-term facilitating decisions making, plus the production of climate information at multi-decadal time-scale, for long strategic planning and making adaptation decision.

Last, IRTA presented the implementation of phenological and irrigation models within WP2, whose output data will be used as input data in the DSS, basically the forecasted dates on the vineyard annual cycle events: flowering, berry development, ripening, senescence, etc:

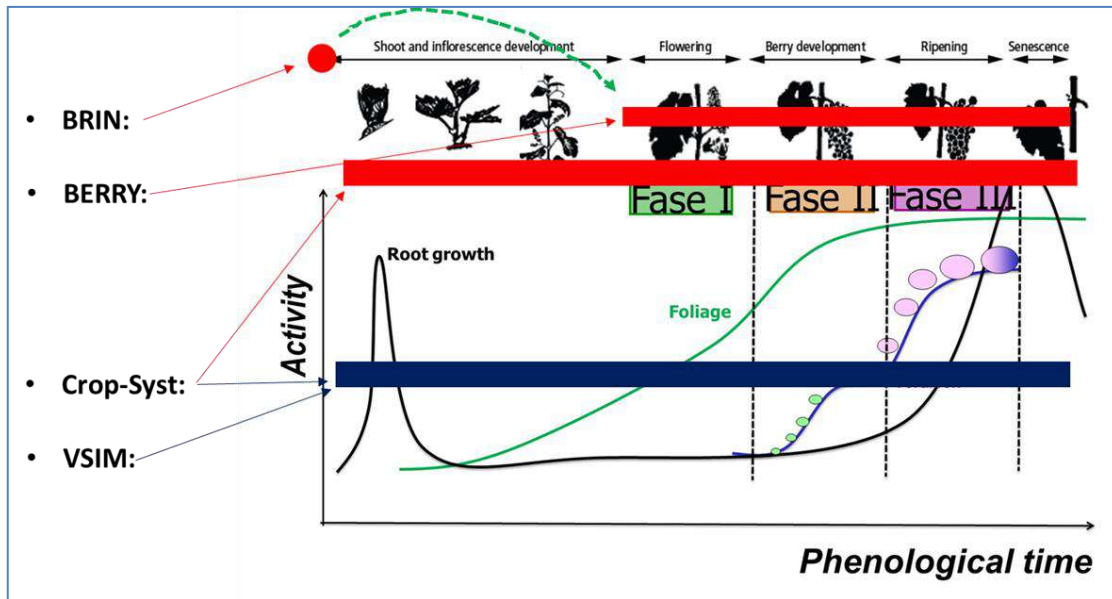


Figure 4. Annual phenological events in the vineyards (from: Mullins, G.M., Bouquet, A., Williams, L.A., 25007. *Biology of the Grapevine*. Cambridge Uni. Press., 239 pp.)

15:00-15:45 | Presentation of WP3 – Climate Service and Mobile Application (ISMB)

Claudio Rossi (ISMB) presented the WP3:

- General overview (objectives, deliverables, milestones, agenda)
- End-users requirements (to be further discussed next day)
- Technical requirements (to be further discussed next day)

He made a general overview of the WP, stressing the need of collecting the end-users requirements, as the initial point to understand the design of the DSS.

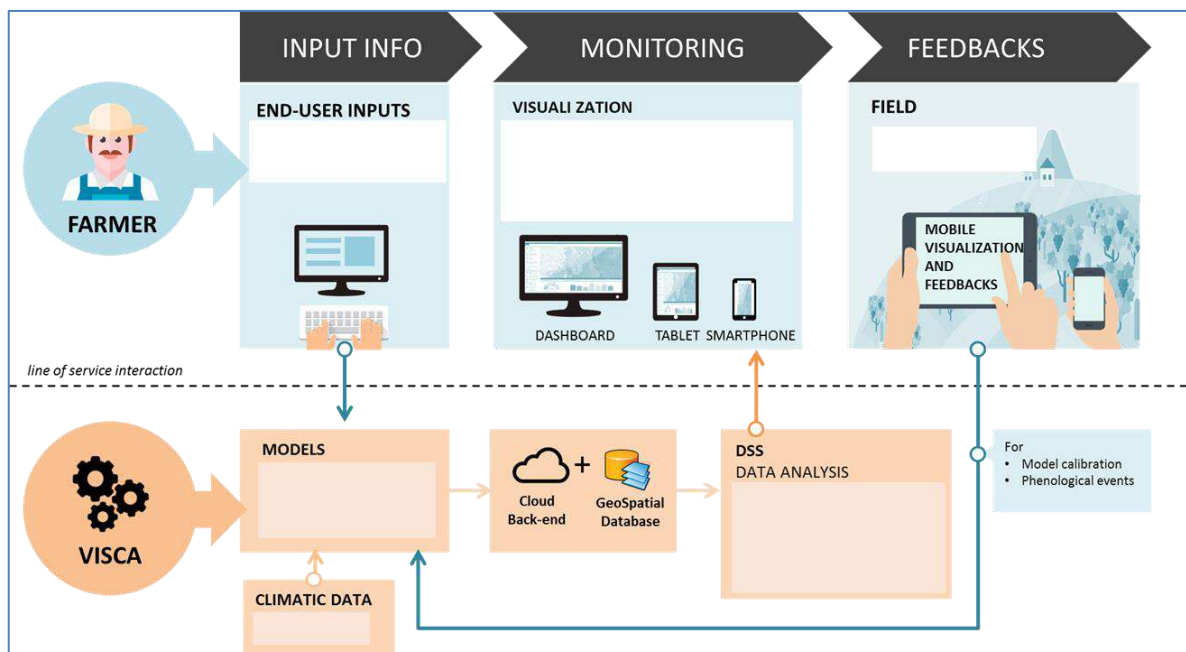


Figure 5. VISCA DSS overall architecture

15:45-16:15 | Presentation of WP4 – Demonstration (IRTA)

Here, the three demo site leaders presented the objectives, actions and techniques to employ in the different sites:

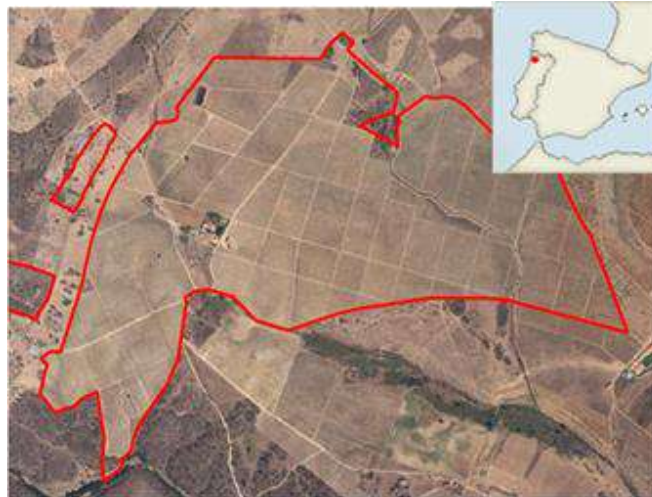
- **SPAIN** by Joaquim Bellvert (IRTA) and CODORNIU: Crop-Forcing, Grape Quality



- **ITALY** by Boris Basile (NAP) and MASTROBERARDINO: Leaf removal, Grape Quality.



- **PORTUGAL** by Jorge Bernardo (UPORTO) and SYMINGTON: Crop Forcing, Grape Quality.



They explained the rest of the partners the techniques to be employed on the demo sites, according to the information supplied by WP2 partners and end users requirements.

They also showed the exact locations of the demo sites, and made an explanation of the design of experiments already made for the Spanish and Italian demo site:

(cv Tempranillo)

Treatments	Months									UE	Observations	
	Mar	Apr	May	Jn	Jl	Aug	Sep	Oct	Nov			
1 Control (RDI)		Control 100% ETC (Full Irrigation)	$\Psi_{stem} > -1.1$ MPa	Control (FI)							●	
2 DI - M PreF.		$\Psi_{stem} -0.6$ to -0.9 MPa	Crop Forcing Cuttings	Control (FI)		Control (FI)		(FI)				
3 DI - S PreF.		$\Psi_{stem} -0.8$ to -1.1 MPa	Crop Forcing Cuttings	Control (FI)		Control (FI)		(FI)				
4 RDI - PostF.		Control (FI)	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	
5 DI - M + RDI PostF.		$\Psi_{stem} -0.6$ to -0.9 MPa	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	
6 DI - S + RDI PostF.		$\Psi_{stem} -0.8$ to -1.1 MPa	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	
7 RDI PostF. E.		Control (FI)	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	
8 DI - M + RDI PostF. E.		$\Psi_{stem} -0.6$ to -0.9 MPa	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	
9 RDI PostF. L.		Control (FI)	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	
10 DI - M + RDI PostF. L.		$\Psi_{stem} -0.6$ to -0.9 MPa	Crop Forcing Cuttings	Control (FI)		$\Psi_{stem} > -1.1$ MPa		(FI)			●	

■ From Budbreak to Veraison or to Crop Forcing Cuttings
 ■ Crop Forcing Cuttings
 Crop Forcing Cuttings to Veraison
 From Veraison to
 Post-Harvest

Figure 6. Experimental design for the Spain demo site, grape variety “Tempranillo”

Finally, they presented an overview of deliverables and agenda of WP4, stressing the deadlines during the first year.

16:45-17:30 | Presentation of WP5 – Exploitation and Dissemination (SEMIDE)

Maha Al-Salehi (SEMIDE) presented WP5:

- Communication and dissemination activities
- Organization of workshops
- Exploitation

In addition to the presentation of objectives, deliverables, milestones and agenda for the first year, she explained the strategy of communication and dissemination that will be carried out by SEMIDE. She also presented a few potential events where VISCA could be presented during 2017:

- Some potential events:
 - **Wine Prague 2017**, 29-31 May 2017, Prague – Czech Republic ([link](#))
 - **3rd International Interdisciplinary Conference on LAND USE AND WATER QUALITY: Effect of Agriculture on the Environment**, 29 May 2017 – 01 June 2017, The Hague, The Netherlands ([link](#))
 - **3rd European Climate Change Adaptation Conference**, 5-9 June 2017, Glasgow, Scotland, ([link](#))
 - **8th International Conference on Information and Communication Technologies in Agriculture, Food & Environment**, 21-24 September 2017, Chania, Crete, Greece ([link](#))
 - **VIII International Agriculture Symposium "AGROSYM 2017"**, 5-8 October 2017, Bosnia and Herzegovina. ([link](#))
 - **Agritechnica 2017**, 12-18 November 2017, Hanover, Germany ([link](#))
 - **SITEVI**, 28-30 November 2017, Montpellier, France, ([link](#))

Figure 7. Potential events for dissemination of VISCA that were remarked during the KoM

Subsequently, Emiliano Spaltro from ALPHA presented the WP5 tasks, stressing the importance of the achievement of a realistic Business Plan for further solution uptake and commercialization. He explained methodologies to embrace this task:

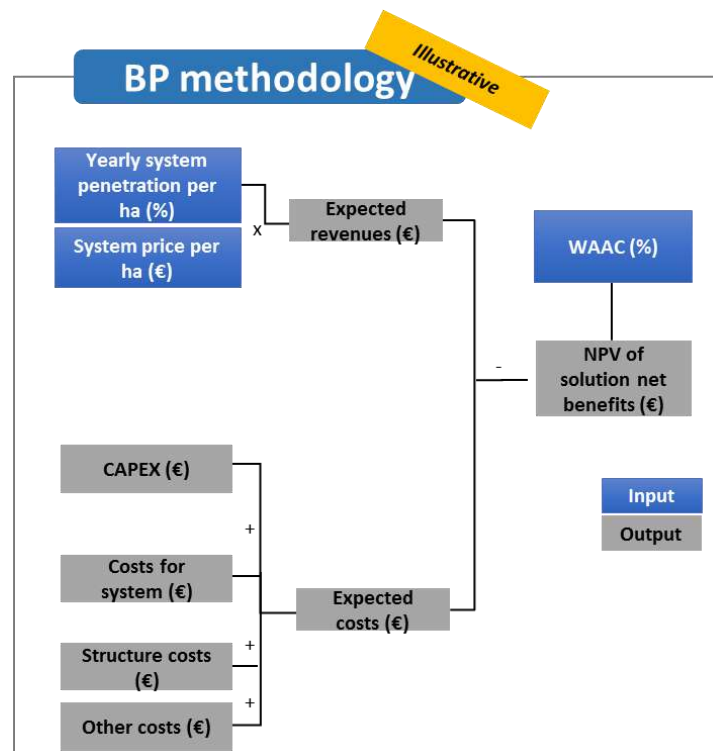


Figure 8. Business Plan Methodology explained during VISCA KoM

17:30-18:30 | Visit to Codorniu Cavas

The partners could enjoy a tour around the CODORNIU cellars.



Figure 9. Image of partners visiting the CODORNIU cellars

11th May 2017 (Thursday)

The second day was devoted to discussing in group the integration of the different WPs (WP2, WP3 and WP4), and define input and output data to be produced, based on the end users requirements, which is a basic information for the design of the application.

All partners, especially end users worked very actively to define the scheme of data to be digested and produced within the framework of the DSS. Below you can see the result of this work in Figure 10.

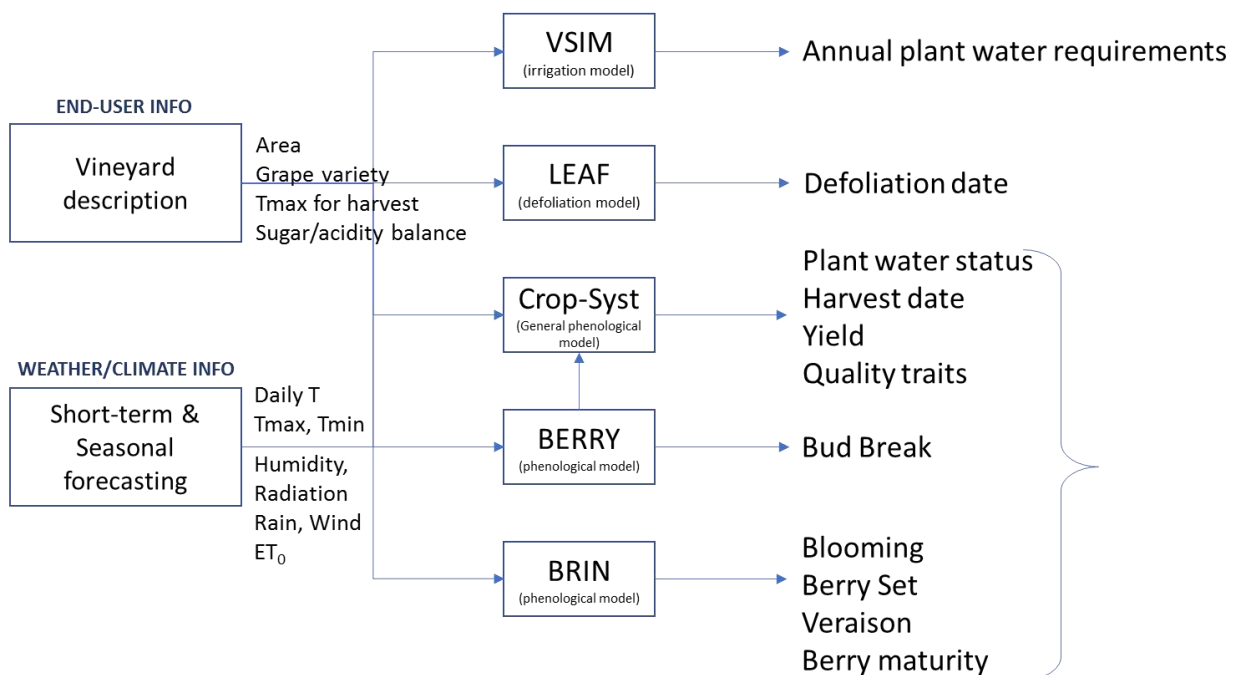


Figure 10. Input/Output data scheme of the different modules of VISCA DSS according to end users' requirements

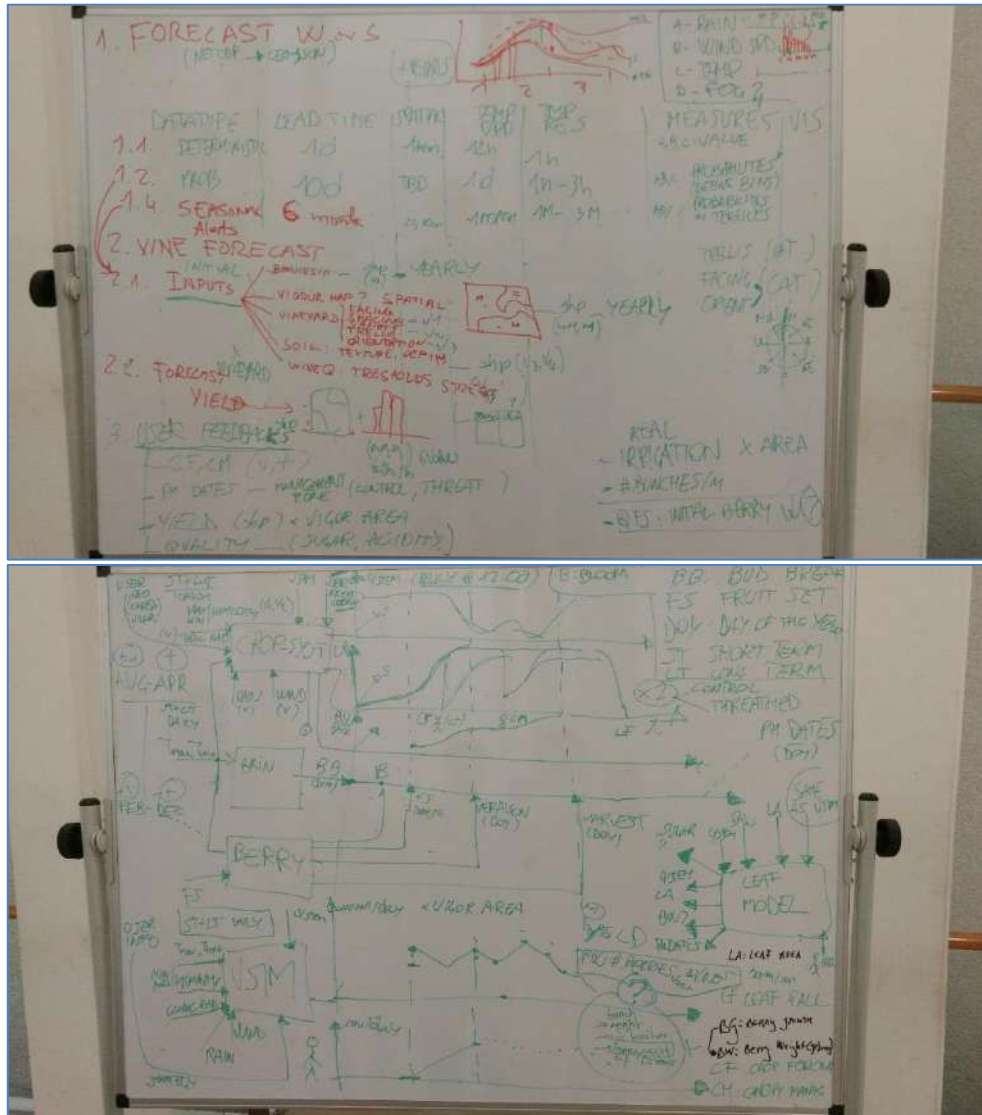


Figure 11. Working dashboard pictures of the end users' requirement and data integration

Summary of actions from the meeting

Table 1. Actions and deadlines assigned per WP

WP	Action	Responsible	Deadline
1	SEMIDE + MET to integrate intranet into the web site	María Navarro (MET) + Maha Al-Salehi (SEM)	30/07/2017
2	MET to organize a telco with ALPHA to embrace the innovation management (task 1.4) with ALPHA	María Navarro (MET)	15/09/2017
3	BSC to fix regular meetings (in-person or remote) for WP2	Raül Marcos (BSC)	29/05/2017

4	ISMB to fix regular meetings (in-person or remote) for WP3	Claudio Rossi (ISMB)	14/07/2017
5	IRTA to fix regular meetings (in-person or remote) for WP4	Joan Girona	15/09/2017
6	To verify if Symington need to obtain a permit/license to provide with the meteorological data to the interested partners	Fernando Santos (SV)	15/06/2017
7	IRTA + UPORTO to design the Portuguese pilot plot	Joan Girona	15/09/2017
8	SEMIDE to create a VISCA site in <i>Research Gate</i>	Maha Al-Salehi (SEM)	30/08/2017
9	ISMB to send first version of DSS modules' diagram (input/output data)	Claudio Rossi (ISMB)	07/07/2017



4. Conclusions


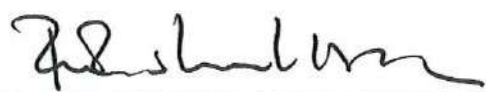
During the 2-days meeting a few conclusions were established:

- The definitions to overcome barriers of the climate service are very important for the European Commission. On that regard, VISCA includes the deliverable D4.6 "Main Barriers and Solutions found on the DSS application" to deliver in M36. Given the importance of it, this deliverable will be public and will be presented and discussed with the PAB during the final conference.
- Tentative technical reviews will be carried out in M13 (May 2018) and M25 (May 2019) by external experts assigned by the European Commission.
- BSC will use a multimodel ensemble to provide better confidence data
- MET will provide short-term forecast up to 5 days. This forecasting will be validated with data from meteorological stations in the 3 sites.
- Extreme events to be shown on the DSS but they will not feed phenological models.
- INSPIRE guidelines to be followed by the consortium to treat data gathered and produced within VISCA.
- Experimental designs have been made for the Spanish and Italian demo sites, and the Portuguese site needs also one adapted to its specific characteristics.
- The water resource used in every demo site will be evaluated and optimized within WP4.
- The first year in the Portuguese site will be used for characterization and the second year for calibration and validation.
- End users have to define a target technological maturity (e.g. sugar content) and a target phenolic maturity. With this info the DSS must be able to give the optimal harvesting time.
- In Italy, different defoliation levels will be tested under different irrigation scenarios.
- It is important to plan in advance the scientific articles to be produced by every partner. They have to inform SEMIDE about the articles that they will publish within the frame of the project.

ANNEX I: LIST OF ATTENDEES

LIST OF ATTENDEES

SANT SADURNÍ D'ANOIA, 10 TH MAY 2017		
Name	Institution	Signature
María Navarro,	MET	
Pedro Gámez	MET	
Ignasi Porras,	MET	
Josep María Solé	MET	
Oriol de Tera	MET	
Raül Marcos,	BSC	
Nube González	BSC	
Joan Esteve	COD	
Xavier Vallverdu,	IRTA	
Joaquim Bellvert	IRTA	
Claudio Rossi	ISMB	
Boris Basile,	UNANI UNINA	
Stefano Mazzoleni	UNANI UNINA	
Fernando Santos Alves,	SV	
Pedro Leal da Costa	SV	
Jorge Bernardo Quiroz QUEIROZ	UPORTO	

Maha Al-salehi	SEMIDE	
Emiliano Espaltro (telco)	ALPHA	
RAÏMAT, 11TH MAY 2017		
Name	Institution	Signature
María Navarro,	MET	
Ignasi Porras,	MET	
Raül Marcos,	BSC	
Nube González	BSC	
Joan Esteve	COD	
Xavier Vallverdu,	IRTA	
Joaquim Bellvert	IRTA	
Claudio Rossi	ISMB	
Boris Basile,	UNIANI UNINA	
Stefano Mazzoleni	UNIANI UNINA	
Fernando Santos Alves,	SV	
Pedro Leal da Costa	SV	
Jorge Bernardo Quiroz <i>Greisoz</i>	UPORTO	
Maha Al-salehi	SEMIDE	

ANNEX II: AGENDA OF THE MEETING

Date: 10th & 11th may (wednesday & thursday)

Meeting location: SANT SADURNÍ D'ANOIA (BARCELONA)

10th May @ Cava Codorniu, Sant Sadurní d'Anoia

11th May @ Raimat Codorniu

Suggested Hotels: [Hotel Fonda Neus](#) & [Hostal Sant Sadurní](#)

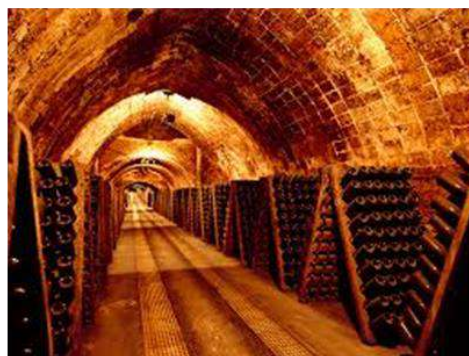
(see annex with Instructions and maps at the end of this document)

Contact:

María Navarro

mnavarro@meteosim.com

mobile: +34 626 499 908



10th May 2017 (Wednesday)

From	To	Title	Lead
9:00	9:30	Arrival at CAVAS CODORNIU *People will be picked up at their hotels and brought by car to the cellar	-
9:30	9:45	Welcome and Introduction	CODORNIU
9:45	10:00	Presentation of EC programme and initiatives on climate service (by Alessia Pietrosanti)	EC
10:00	10:45	Partners Presentation (5 min each)	All
10:45	11:15	Project Overview: - Purpose and goals. Main items to achieve - Agenda for the first year: definition of milestones for the organization of the first year (to be further discussed next day)	METEOSIM
11:15	11:45	Coffee Break	All
11:45	12:15	Presentation of WP1 - Management: - Connection with Brussels: administrative and financial issues - Risk management - Data management plan - Project Advisory Board	METEOSIM
12:15	13:00	Presentation of WP2 – Climatic and Agricultural Data: - General overview - Seasonal forecasts: end-user's requirements - Extreme events: end-user's requirements - Phenological and irrigation models: integration with meteorological and seasonal forecasts	BSC, IRTA & MET
13:00	14:00	Lunch	All
14:00	15:00	Visit to Cavas Codorniu	All
15:00	15:45	Presentation of WP3 – Climate Service and Mobile Application: - General overview - End-users requirements (to be further discussed next day) - Technical requirements (to be further discussed next day)	ISMB

15:45	16:15	Presentation of WP4 – Demonstration <ul style="list-style-type: none"> - Spanish site: techniques to employ, preparation of the site, important deadlines (calibration, etc.), working teams and organization - Italian site: techniques to employ, preparation of the site, important deadlines (calibration, etc.), working teams and organization - Portuguese site: techniques to employ, preparation of the site, important deadlines (calibration, etc.), working teams and organization 	IRTA, COD, MSB & SV
16:15	16:45	Coffee Break	All
16:45	17:30	Presentation of WP5 – Exploitation and Dissemination <ul style="list-style-type: none"> - Communication and dissemination activities - Organization of workshops - Exploitation 	SEMIDE/ ALPHA
17:30	18:30	Tasting of cavas prestige @ Celler Jaume	All
18:30	20:00	Free time	
20:00	-	Social Dinner at Hotel Fonda Neus	All

11th May 2017 (Thursday)

From	To	Title	Lead
8:30	10:00	Pick up Partners and travel to RAIMAT CODORNIU	-
10:00	11:00	Working groups: Integration of WP2, WP3 and WP4	All
11:00	11:30	Coffee Break	All
11:30	13:00	Working groups: End users' requirements	All
13:00	13:45	Lunch	All
13:45	15:00	Working groups: End users' requirements	
15:00	16:00	Visit Vineyards @ Raimat	CODORNIU
16:00	-	End of the KoM - Departures	
		End users' requirements???	COD & ISMB

How to reach Sant Sadurní d'Anoia from the airport (see Annex I):

Once you arrive to the airport in Barcelona, take the train to reach Barcelona train station (Sants estació). There is only one train running in the airport, so it is easy to find.

When you arrive to Barcelona Sants train station, then take the short distance train to Sant Vicenc de Calders (line R2), and get off when you reach Sant Sadurní d'Anoia (10 train stops).



How to reach the Hotel Fonda Neus (See Annex II):

Take the street "Carrer de la diputació" during 400 meters, then turn on the right into "carrer Pompeu Fabra", and then the first on the left into "carrer Pelegrí Torelló"



How to reach the Hostal San Sadurní (See Annex II):

Take the street "Carrer de la diputació" during 550 meters, till "Plaça Era d'en Guineu", then turn on the left into "carrer Sant Antoni" and walk 290 meters till you reach the Hostal.

Annex I: location of sant sadurní d'anoia. how to reach it.

