



Deliverable 4.2

Report on Network-wide training event 1: Welcome Retreat

Grant Agreement nº: 956623

Project full title: Inventive forecasting tools for adapting water quality management to a new climate

Project acronym: inventWater

Type of deliverable: report

Planned date of deliverable: 31 January 2022

Actual submission date: 26 January 2022

Target Audience: Public

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Introduction

During the Welcome Retreat the ESRs had the opportunity to meet for the first time, learn about each other and the general scope and the fundamentals of forecasting science, ecosystem services, and water quality issues. On the transferable skills side the focus of the meeting was on good scientific practice and data and time management. To achieve this and following the Grant Agreement a list of activities and goals were developed:

- Communication in a new group, principles of communication, feedback, getting to know each other, group building and collegial advice. Included a Thesis-in-three competition as a final exercise. 0 ECTS credits.
- Scientific integrity and gender aspects in science. Storing data and track record of research. Reproducible research, skepticism, and leadership responsibility. 0.5 ECTS credits.
- Time and project management. Organization of the research and the daily schedule. Planning phase. Data management, including coding repositories and introduction to Python programming language. 0.5 ECTS credits.
- Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans. 0 ECTS credits.
- Introduction to ecosystem services provision and valuation. Feedback between ecosystem services provision and water quality. 0.25 ECTS credits.
- Intersectoral perspective to water issues. Sectors affected and affecting water quality. Stakeholder and policy maker perspectives. Water quality issues under the glass of cultural, gender, and socioeconomic diversity. 0.25 ECTS credits.
- Modeling water quality along the land-to-ocean continuum. Modeling approaches for catchments and single water bodies. Introduction to the concepts of uncertainty propagation and ensemble modeling. Global simulations. 0.5 ECTS credits.
- A visit to the “Mare Nostrum” supercomputer in the Barcelona Supercomputing Centre was initially planned, but since the meeting was change from in-person to virtual, this point was not carried on. More details in the next section.



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Location of the meeting

Initially the Welcome Retreat as the first Network-wide training event of inventWater, was planned as an in-person meeting. However, due to the current restrictions and limitations related to COVID-19 of the different countries of the institutions participating in the project, the Supervisory Board in previous meetings decided to switch to a virtual meeting. A petition to officially implement this change was then raised to the Project Officer, who also agreed with changing from an in-person to a virtual meeting.

Considering that a virtual meeting will not allow physical interactions between the ESRs (Early Stage Researchers) and the rest of the members of the project, in addition to be the first meeting with the ESRs, the coordination and training teams of inventWater designed an agenda and format that could tackle these obstacles. The timing of the agenda was adjusted to have enough breaks between sessions and diversity of activities to have an efficient training as much as possible. The leaders of each session used multiples tools (surveys, tests, games) to continuously interact with the ESRs to assess the results of the training and the attention of the audience. Part of the sessions of the Welcome Retreat required some tasks in the weeks prior to the event, which helped to compensate for the differences between the initial timing plan and the agenda of the virtual meeting.

Accordingly, the coordination created a virtual space (see Figures 1-5) with the possibility of having better interaction between the attendees of the meeting than using one after another regular videoconference sessions. A satisfaction survey was shared with the attendees of the meeting to evaluate the results (see Figure 6).



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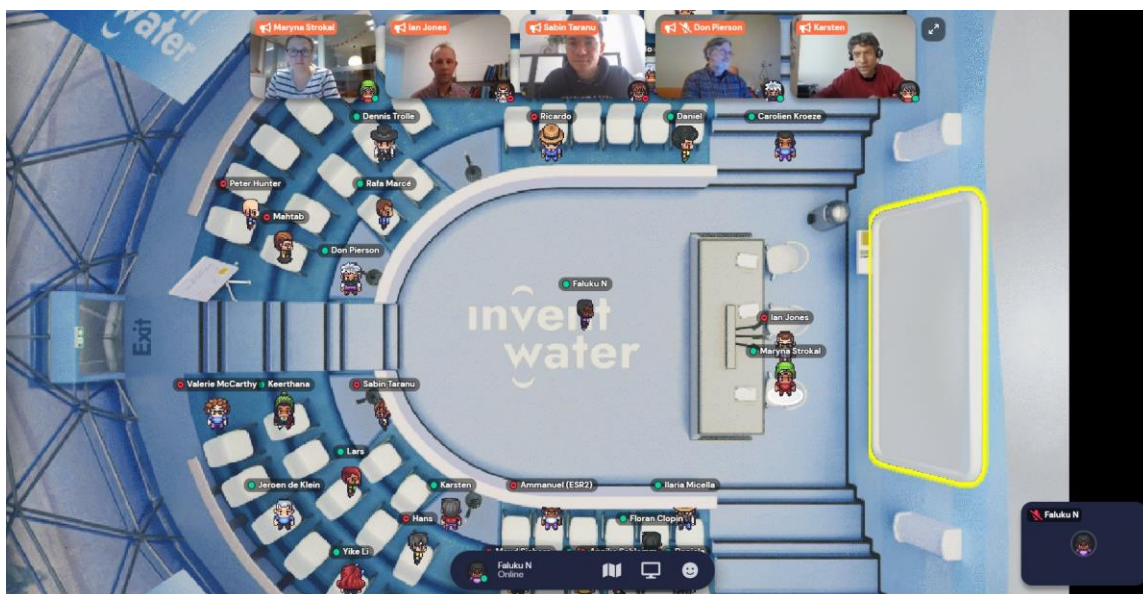


Figure 1. Modeling training sessions



Figure 2. Interactions with stakeholders



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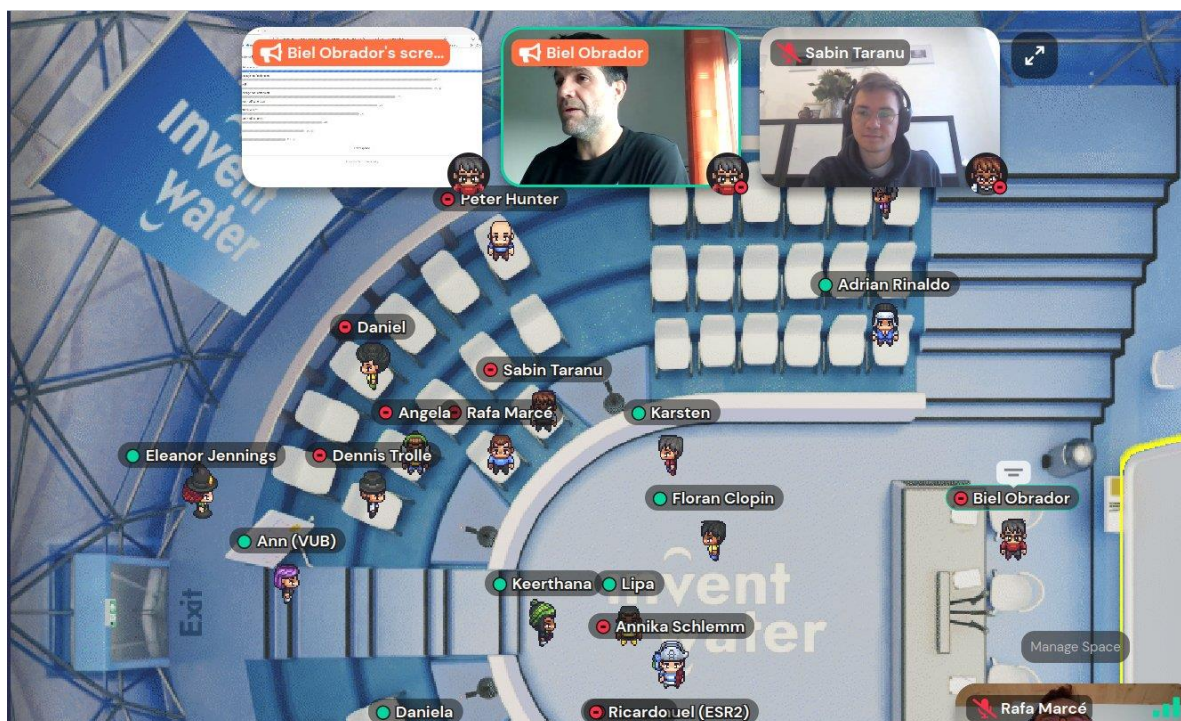


Figure 3. Talking about time management in research

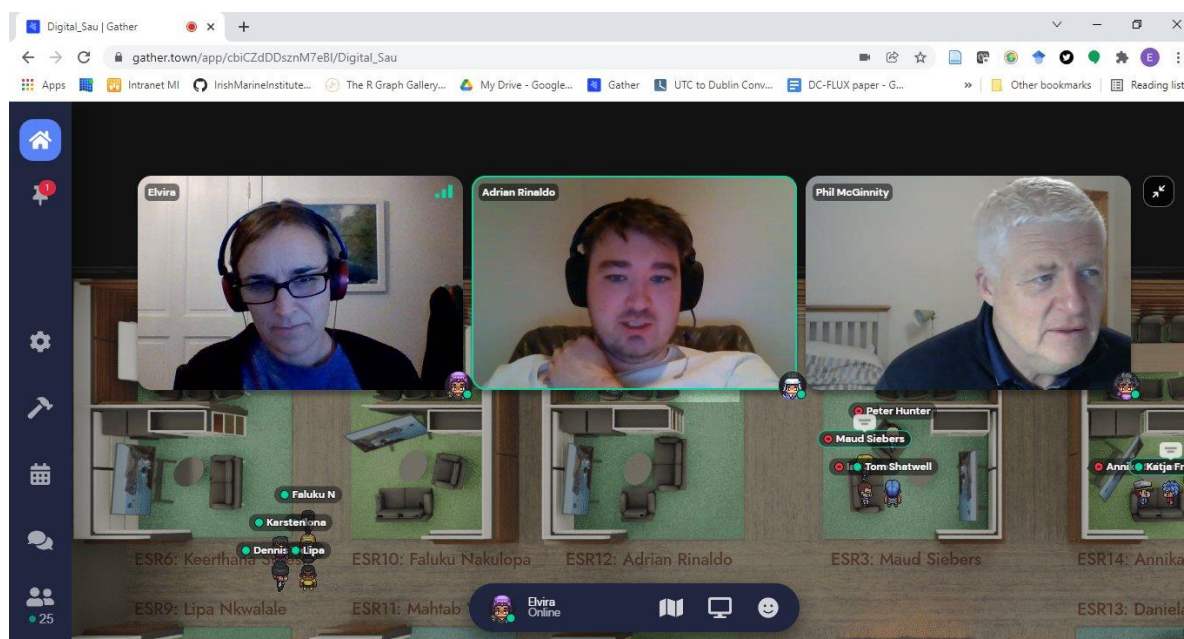


Figure 4. Interaction between supervisors and ESRs, working on the Career Development Plan



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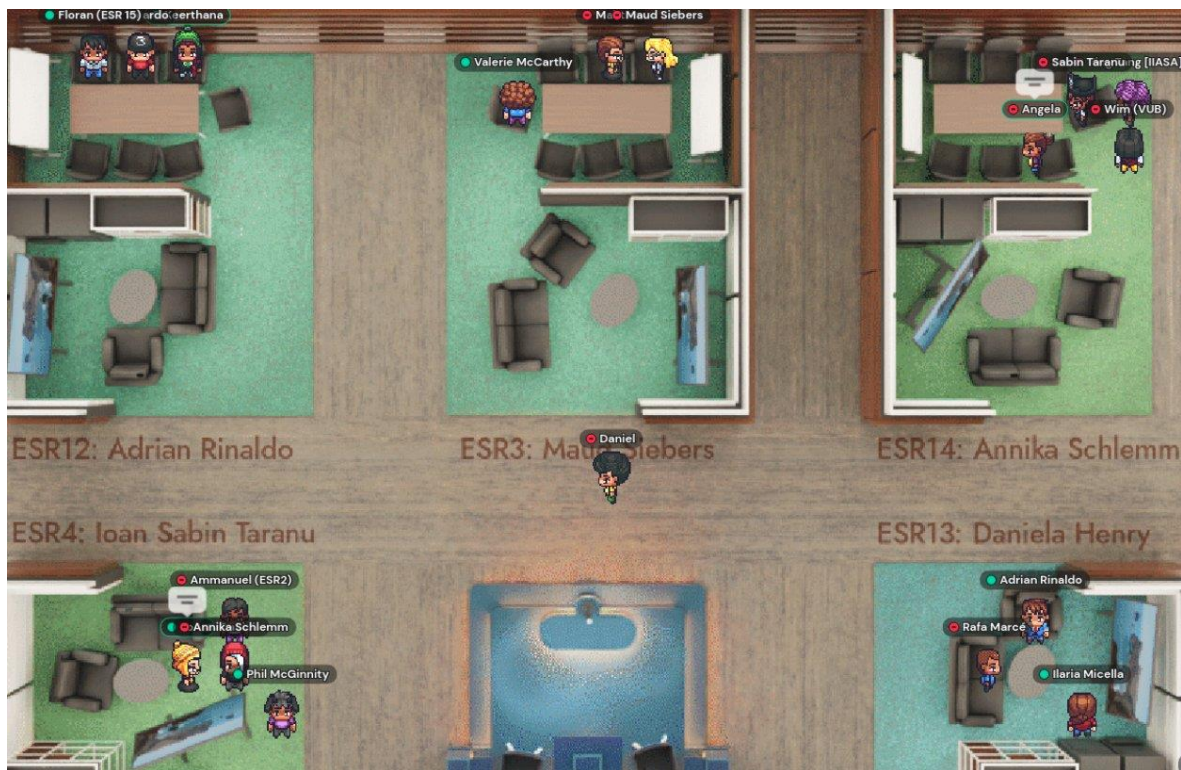


Figure 5. Group discussions between ESRs and supervisors

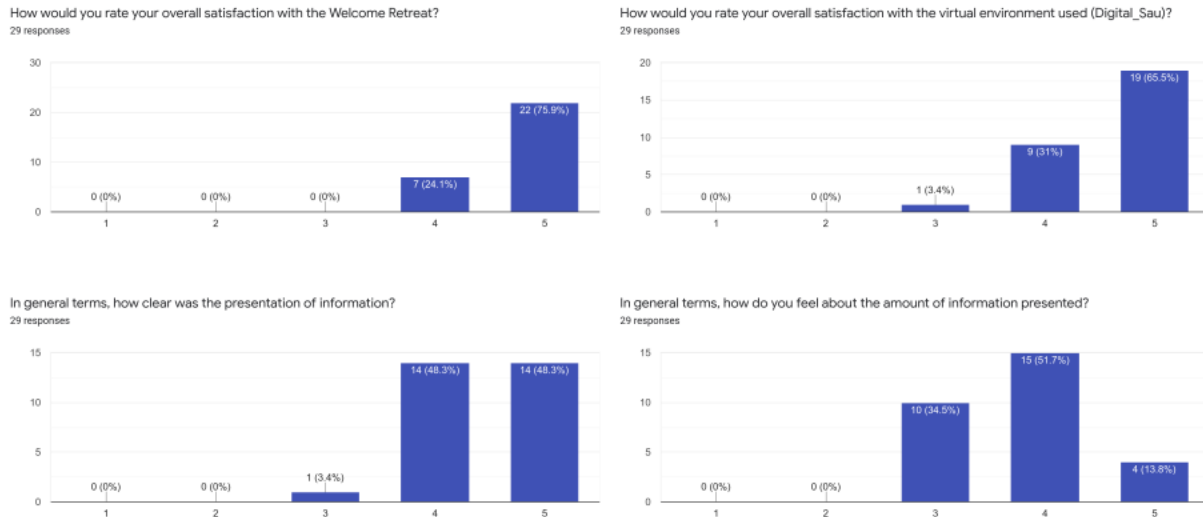


Figure 6. Satisfaction Survey after finishing the Welcome Retreat



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List of attendees

Name	Institution	Role
Triona McGrath	An Fóram Uisce (Ireland)	Stakeholder
Anandita Agarwal	AU (Denmark)	ESR
Ammanuel Bekele	RUB (Germany)	
Maud Siebers	US (UK)	
Sabin Taranu	VUB (Belgium)	
Ilaria Micella	WU (The Netherlands)	
Keerthana Suresh	IIASA (Austria)	
Ricardo Marroquin	DkIT (Ireland)	
Angela Pedregal	ICRA (Spain)	
Lipa Nkwala	UFZ (Germany)	
Faluku Nakulopa	UFZ (Germany)	
Mahtab Yaghouti	US (UK)	
Adrian Rinaldo	UCC (Ireland)	
Daniela Henry	ICRA (Spain)	
Annika Schlemm	VUB (Belgium)	
Floran Clopin	WU (The Netherlands)	
Ann van Griensven	VUB (Belgium)	Supervisor
Biel Obrador	UB (Spain)	
Carolien Kroeze	WU (The Netherlands)	
Dennis Trolle	AU (Denmark)	
Don Pierson	UU (Norway)	
Eleanor Jennings	DkIT (Ireland)	
Elvira de Eyto	MI (Ireland)	
Hans Duerr	RUB (Germany)	
Ian Jones	US (UK)	
Ilona Bärlund	UFZ (Germany)	
Karsten Rinke	UFZ (Germany)	
Katja Frieler	PIK (Germany)	
Jeroen de Klein	WU (The Netherlands)	
Maria Jose Farre	ICRA (Spain)	
Martina Floerke	RUB (Germany)	
Miquel Lurling	WU (The Netherlands)	
Peter Hunter	US (UK)	
Philip McGinnity	UCC (Ireland)	



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Rafael Marcé	ICRA (Spain)	
Lisette Senerpont Domis	NIOO (The Netherlands)	
Maryna Stokal	WU (The Netherlands)	
TANG Ting	IIASA (Austria)	
Tom Shatwell	UFZ (Germany)	
WADA Yoshihide	IIASA (Austria)	
Wim Thiery	VUB (Belgium)	
Valerie McCarthy	DkIT (Ireland)	
Leah Jackson-Blake	NIVA (Norway)	External Advisor
Stephen Wagner	Personal company	Invited Speaker
Fred Hattermann	PIK (Germany)	
Xavier Garcia	ICRA (Spain)	
Daniel Mercado-Bettin	ICRA (Spain)	Project Manager

Agenda of the Welcome Retreat

Following the initial plan and the circumstances of having a virtual meeting, a five-day meeting was planned and successfully implemented. In the following tables are the activities and sessions per day.



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Link for Digital_Sau: https://gather.town/app/cbiCZdDDsxnM7eBl/Digital_Sau

Link for full agenda in excel: <https://tinyurl.com/2p9fnfa4>

17.01.2022				
Monday				
Starts	Ends	Activity	Responsible	Place
9:00	9:30	Welcome and intro to the network and week	Rafa Marcé, Dennis Trolle	L'era and Pantà Auditorium
9:30	10:00	Quiz: who is who in inventWater?	Daniel Mercado, Rafa Marcé	Pantà Auditorium
10:00	10:30	BREAK at Digital_Sau (optional)		Can Mateu
10:30	11:00	Technical WPs overview and discussion	Martina Floerke, Karsten Rinke, Jeroen de Klein	Pantà Auditorium
11:00	11:30	Technical WPs overview and discussion	Martina Floerke, Karsten Rinke, Jeroen de Klein	Pantà Auditorium
11:30	12:00	Tips for a succesful supervision in ITNs	Biel Obrador	Pantà Auditorium
12:00	12:30			
12:30	13:00	Invited talk: Scenarios for representing climate futures and hydroclimatic risks	Fred Hattermann (PIK)	Pantà Auditorium
13:00	13:30	Lunch at Digital_Sau (optional)		Can Mateu
13:30	14:00	Lunch at Digital_Sau (optional)		Can Mateu
14:00	14:30			
14:30	15:00	ESR project discussion at the ESR booths (together with External Advisory Board) - booths will include a poster and a meeting space for improvised discussion with an open audience		Tavertet Hall
15:00	15:30	ESR project discussion at the ESR booths (together with External Advisory Board) - booths will include a poster and a meeting space for improvised discussion with an open audience		Tavertet Hall
15:30	16:00	ESR project discussion at the ESR booths (together with External Advisory Board) - booths will include a poster and a meeting space for improvised discussion with an open audience		Tavertet Hall
16:00	16:30	ESR project discussion at the ESR booths (together with External Advisory Board) - booths will include a poster and a meeting space for improvised discussion with an open audience		Tavertet Hall
16:30	17:00	Wrap-up of the day	Rafa Marcé, Dennis Trolle	L'era
17:00	17:30			
17:30	18:00			
18:00	18:30			
18:30	19:00			
19:00	19:30			
19:30	20:00			
20:00	20:30			
20:30	21:00			
21:00	21:30			

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18.01.2022				
Tuesday				
Starts	Ends	Activity	Responsible	Place
9:00	9:30	Training for ESRs: Communication skills	Stephen Wagner	Pantà Auditorium
9:30	10:00	Training for ESRs: Communication skills	Stephen Wagner	Pantà Auditorium
10:00	10:30	BREAK at Digital_Sau (optional)		Can Mateu
10:30	11:00	Training for ESRs: Communication skills	Stephen Wagner	Pantà Auditorium
11:00	11:30	Training for ESRs: Communication skills	Stephen Wagner	Pantà Auditorium
11:30	12:00	Training for ESRs: Communication skills	Stephen Wagner	Pantà Auditorium
12:00	12:30			
12:30	13:00	Lunch at Digital_Sau (optional)		Can Mateu
13:00	13:30	Lunch at Digital_Sau (optional)		Can Mateu
13:30	14:00	Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans, ESR-6, ESR-11, ESR-13		Tavertet Hall (at the corresponding booth)
14:00	14:30	Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans, ESR-6, ESR-11, ESR-13		Tavertet Hall (at the corresponding booth)
14:30	15:00	Training for ESRs: Research Integrity and good scientific practice	Maria José Farré, Eleanor Jennings	Pantà Auditorium
15:00	15:30	Training for ESRs: Research Integrity and good scientific practice	Maria José Farré, Eleanor Jennings	Pantà Auditorium
15:30	16:00	Training for ESRs: Diversity in inventWater (gender, cultural, etc.)	Elvira de Eyto, Dennis Trolle, Daniel Mercado	Pantà Auditorium
16:00	16:30	Training for ESRs: Diversity in inventWater (gender, cultural, etc.)	Elvira de Eyto, Dennis Trolle, Daniel Mercado	Pantà Auditorium
16:30	17:00	Wrap-up of the day	Rafa Marcé, Dennis Trolle	L'era
17:00	17:30			
17:30	18:00			
18:00	18:30			
18:30	19:00			
19:00	19:30			
19:30	20:00			
20:00	20:30	Meeting Dinner at Digital_Sau		Can Mateu
20:30	21:00	Meeting Dinner at Digital_Sau		Can Mateu
21:00	21:30	Meeting Dinner at Digital_Sau		Can Mateu

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19.01.2022				
Wednesday				
Starts	Ends	Activity	Responsible	Place
9:00	9:30	Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans ESR-3, ESR-5, ESR-7, ESR-9. ESR-10, ESR-12, ESR-14, ESR-15		Tavertet Hall (at the corresponding booth)
9:30	10:00	Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans ESR-3, ESR-5, ESR-7, ESR-9. ESR-10, ESR-12, ESR-14, ESR-15		Tavertet Hall (at the corresponding booth)
10:00	10:30	BREAK at Digital_Sau (optional)		Can Mateu
10:30	11:00	Training for ESRs: Introduction to ecosystem services provision and valuation	Xavier Garcia, Lisette de Senerpont-Domis	Pantà Auditorium
11:00	11:30	Training for ESRs: Introduction to ecosystem services provision and valuation	Xavier Garcia, Lisette de Senerpont-Domis	Pantà Auditorium
11:30	12:00	Training for ESRs: Introduction to ecosystem services provision and valuation	Xavier Garcia, Lisette de Senerpont-Domis	Pantà Auditorium
12:00	12:30			
12:30	13:00	Lunch at Digital_Sau (optional)		Can Mateu
13:00	13:30	Lunch at Digital_Sau (optional)		Can Mateu
13:30	14:00	Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans ESR-1, ESR-2, ESR-4, ESR-8		Tavertet Hall (at the corresponding booth)
14:00	14:30	Assessment of the Initial Analysis of Training needs and discussion of Career Development Plans ESR-1, ESR-2, ESR-4, ESR-8		Tavertet Hall (at the corresponding booth)
14:30	15:00	Training for ESRs: Time and project management	Biel Obrador	Pantà Auditorium
15:00	15:30	Training for ESRs: Time and project management	Biel Obrador	Pantà Auditorium
15:30	16:00	Training for ESRs: A common toolbox for InventWater	Dennis Trolle	Pantà Auditorium
16:00	16:30	Training for ESRs: A common toolbox for InventWater	Dennis Trolle	Pantà Auditorium
16:30	17:00	Wrap-up of the day	Rafa Marcé, Dennis Trolle	L'era
17:00	17:30			
17:30	18:00			
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20:30	21:00			
21:00	21:30			

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20.01.2022				
Thursday				
Starts	Ends	Activity	Responsible	Place
9:00	9:30	Thesis in 3		Pantà Auditorium
9:30	10:00	Thesis in 3		Pantà Auditorium
10:00	10:30	BREAK at Digital_Sau (optional)		Can Mateu
10:30	11:00	Training for ESRs: Intersectoral perspective to water issues - industry	Triona McGrath	Pantà Auditorium
11:00	11:30	Training for ESRs: Intersectoral perspective to water issues - ISIMIP	Wim Thiery	Pantà Auditorium
11:30	12:00	Open discussion: ISIMIP scenarios in inventWater	Karsten Rinke	Pantà Auditorium
12:00	12:30			
12:30	13:00	Lunch at Digital_Sau (optional)		Can Mateu
13:00	13:30	Lunch at Digital_Sau (optional)		Can Mateu
13:30	14:00			
14:00	14:30	Supervisory Board meeting	SB members	Tavertet Hall (booth ESR1)
14:30	15:00	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Introduction	Maryna Stokol	Pantà Auditorium
15:00	15:30	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Lecture 1: meaning of models	Rafael Marcé	Pantà Auditorium
15:30	16:00	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Case study 1: Global water quality modelling along the land-to-ocean continuum	Maryna Stokol	Pantà Auditorium
16:00	16:30	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Questions and Recap	Maryna Stokol	Pantà Auditorium
16:30	17:00	Wrap-up of the day	Rafa Marcé, Dennis Trolle	L'era
17:00	17:30			
17:30	18:00			
18:00	18:30			
18:30	19:00			
19:00	19:30			
19:30	20:00			
20:00	20:30	Happy hour at Digital_Sau		Can Mateu
20:30	21:00	Happy hour at Digital_Sau		Can Mateu
21:00	21:30	Happy hour at Digital_Sau		Can Mateu

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21.01.2022				
Friday				
Starts	Ends	Activity	Responsible	Place
9:00	9:30	ESRs meeting with Training Coordinator and Management team	Rafa Marcé, Dennis Trolle, Daniel Mercado, ESRs	Tavertet Hall (booth ESR1)
9:30	10:00	ESRs meeting with Training Coordinator and Management team	Rafa Marcé, Dennis Trolle, Daniel Mercado, ESRs	Tavertet Hall (booth ESR1)
10:00	10:30	BREAK at Digital_Sau (optional)		Can Mateu
10:30	11:00	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Lecture 2: Modelling lakes/reservoirs	Karsten Rinke, Carolien Kroeze	Pantà Auditorium
11:00	11:30	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Case study 2: How to build trust in large-scale models	Karsten Rinke, Carolien Kroeze	Pantà Auditorium
11:30	12:00	Training for ESRs: Modeling water quality along the land-to-ocean continuum. Case study 2: How to build trust in large-scale models	Karsten Rinke, Carolien Kroeze	Pantà Auditorium
12:00	12:30			
12:30	13:00	Lunch at Digital_Sau (optional)		Can Mateu
13:00	13:30	Lunch at Digital_Sau (optional)		Can Mateu
13:30	14:00	ESR project discussion at the ESR booths (together with External Advisory Board) - booths will include a poster and a meeting space for improvised discussion with an open audience		Tavertet Hall
14:00	14:30	ESR project discussion at the ESR booths (together with External Advisory Board) - booths will include a poster and a meeting space for improvised discussion with an open audience		Tavertet Hall
14:30	15:00	Training for ESRs: Modeling water quality along the land-to-ocean continuum	Ting Tang, Karsten Rinke	Pantà Auditorium
15:00	15:30	Training for ESRs: Modeling water quality along the land-to-ocean continuum	Ting Tang, Karsten Rinke	Pantà Auditorium
15:30	16:00	Training for ESRs: Modeling water quality along the land-to-ocean continuum	Ian Jones, Carolien Kroeze	Pantà Auditorium
16:00	16:30	Training for ESRs: Modeling water quality along the land-to-ocean continuum	Ian Jones, Carolien Kroeze	Pantà Auditorium
16:30	17:00	Wrap-up of the day	Rafa Marcé, Dennis Trolle	L'era
17:00	17:30			
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