

INTCATCH 2020 meeting

5-6th July 2017 in Kiel

Venue: Sparkassen- und Giroverband für Schleswig-Holstein" (Faluner Weg 6, 24109 Kiel) next to NOVUM hotel (Faluner Weg 2, 24109 Kiel)

Objectives

- To report on and discuss the work and findings since the last meeting
- To focus on sensors boats and demonstration activities/citizen science
- To focus on integration of WP3, 4, 5
- To focus on dissemination and exploitation

Agenda

Tuesday, July 4th, 2017

4:00 – 6:00 pm	Executive committee Meeting (WP leads only) - Technical director (Alessandro Farinelli) to chair GO-SYS building (Faluner Weg 1, 24109 Kiel). Separate agenda
----------------	--

Wednesday, July 05, 2017

8:30 am to 9:30 am	<ul style="list-style-type: none"> • Welcome • Minutes of the Vienna meeting • Review process for deliverables - feedback from ECM • Financial reporting feedback • Risk Management: Need to identify important risks during the sessions in the day ahead (Mark / Daniele / Thorsten). • Data Management / Standardization: How will we manage our data and ensure quality? This needs to be considered during the day. (ISS, Olga 15 minutes)
09.30 am to 10:30 pm	<p>Session 1 PLANNING ACTIVITIES FOR VALIDATION (Garda and UK) led by T21 (Nathalie / John), with involvement from UNIVR / AGS / Francesco / UVIC / ESAL / EYDAP / UGOE / EA / SALSNES</p> <p>For the first session, activities planned for London, "Validation of the boats", T4.3, will be outlined by Thames 21, EASL, UNIVR and AGS and others. There are 9 partners involved in this task, which runs from M13 – M30. Other tools from WP3? These activities also need integrating with tasks related to treatment systems, T5.2 and T5.3, which begin later (M21) but run concurrently for much of the time.</p> <p>Outcomes: Expectations of what will be available, understanding activities, risks and handling of data and data quality.</p>
10:30 to 10.50 am	Coffee Break
11:00 pm to 1:00pm	<p>Session 2. THE TOOLS AVAILABLE TO DELIVER AND VALIDATE led by UNIVER (Alessandro) with involvement from BOKU / UGOE/ GO-SYS / PG / ICN2 ALG / SALSNEs / TCH / EA / ISS</p> <ul style="list-style-type: none"> • For the second period, what tools will be available for the validation of the INTCATCH concept. This relates to the boat hardware and software, the mobile genomics laboratory, pesticide and metal sensors, to data storage and handing. • What information and feedback will be needed? • How will we optimize activities to give feedback? • Boats, sensors, data quality (WP3 and WP4) • Tools available – Apps and accessibility of data (WP 6 and 7)

1:00pm to 2:20pm	Lunch (Cost 9.50 euros per person) 80 minutes – arrange a breakout if needed?
2:30pm to 4:30pm (*3.30pm break for coffee)	<p>Session 3. OPTIMISING ACITIVITIES FOR DISSEMINATION AND EXPLOITATION led by Ant and Simos contributions from all</p> <ul style="list-style-type: none"> We need to ensure that we obtain best value from the activities planned to allow for Dissemination (WP10) and Exploitation (WP11). How do we engage and inform local stakeholders? Do we know who they are? Are we engaging as widely as we can? The WP11 lead (DS) will produce a range of options for our business model. We need to consider which options are best suited for exploiting, and then to ensure that the activities we do in our validation activities feed back to these business models. INTCATCH Final Conference (September 2019, Verona, Italy) organizing committee Budget for communications
4:30pm to 5:30pm	<p>Session 4. ENSURING WE GENERATE DATA FOR WP9 LCA/LCC led by UBRUN (Evina/Peyo) contributions from all on the sampling activities and tools we are using</p> <p>The focus can be on what WP9 needs from the activities at Garda and London, and how activities can be focused to ensure we deliver for this</p>
7:00 pm	Consortium Dinner (further details to follow)

Thursday, July 06, 2017

8:30 am to 9:30 am	<p>Session 5. REVIEW AND AGREE ACTIVITIES, TOOLS, DISSEMINATION AND EXPLOITATION led by Mark/Alessandro F</p> <ul style="list-style-type: none"> We need to be clear about who is undertaking what activities, when and why (how activities meet the needs of other work packages). We need to be clear about what tools are available and when. We need to have a clear strategy for ensuring the quality of the data. We need to have a clear plan for data management Bringing activities together
9:30pm to 10:30pm	<p>Stakeholders meeting (Ant/Simos) All partners to attend</p>
10:30 am to 10:50 am	Coffee
11:00 am to 12:00	Summary of outcomes (Mark / Alessandro Farinelli)
12:00 am to 13:00	Lunch (Cost 9.50 euros per person)
13:00 am to 14:00	Next steps and focus on deliverables for the next 6 months , D3.1 (WP3), (M14 31st July 2017); D7.1 (GOSYS), (M20 31 Jan 2018);
14:00 am to 15:00	<p>Any other business</p> <p>Next meetings: Proposed dates - London, UK, 12-16th FEBRUARY 2018 UK, (THAMES21); Verona, Italy, 2-6th JULY 2018 (UNIVR).</p>
15:00 to 16:00 pm	<p>Coffee</p> <p>Summary and close of meeting – Breakout groups/Networking into evening</p>

Note 1: Description of T4.3

T4.3 Validation of the boats (Months 13-30)

Leader: UNIVR; Participants: ALG, TCH, ISS, EA, AGS, THAMES21, ESAL, UBRUN, BOKU

Testing and validation activities in Lake Garda will be conducted in 4 strategic areas which are close to key-parts of the wastewater and stormwater management infrastructures (Salto, Brancolino, Garda, Villa Bagatta). The autonomous boats will collect dense spatial measurements for the parameters identified in WP3. Moreover, the collection of microbiological samples with the dedicated device integrated in T4.1 will allow to standardize a novel procedure to evaluate the quality of water by metagenomics/metabarcoding analyses: specifically for the same 4 areas water will be manually collected to conduct standard quality tests and DNA analysis, data will then be compared to assess the accuracy of the novel procedure. Finally, the ARC boat will provide bathymetric and flow measurements that are crucial parameters to calibrate the models for the DSS of WP6. Thames21 in partnership with Catchment Partnership in London (CPiL), has identified 4 urban tributaries of the Thames in London and work with local partners to systematically monitor the selected rivers once a month for 12 months. This monitoring will seek to identify: i) locations where the pollutants are entering the river; ii) the type of pollutants entering the river (linked to potential sources) and iii) concentrations at which they are entering the river. Monitoring activities will also include the River Great Ouse, a rural catchment characterised by small, medium and large-scale watercourses draining many villages and an agricultural area in the East of England. Monitoring in this catchment is led by the Environment Agency, and this activity will directly compare conventional approaches with the boat platforms and sensors solutions. All collected data will be derived with, and made available to, local community groups (CamEOcatchment Partnership, CPiL) and statutory organisations including Unitary Authorities and local utility providers. A key element for Task 4.3 in all three test environments is the engagement of NGOs, to use these tools confidently, building trust in the monitoring activities, and the data that is derived. Engagement will be monitored by considering the number of people involved in the monitoring activities and through questionnaires evaluating their trust in the system.

Note 2: Description of T5.2

T5.2 Use of the CSO system to demonstrate effectiveness of the monitoring tools (Months 21-34)

Lead: UNIVR; Participants: AGS; SALSNES; GO-SYS; BOKU; ALG

The system will be used to demonstrate that the INTCATCH monitoring tools can assess the performance of the system during storm events in real time for removal of suspended and dissolved pollutants. The capability of the biosensors will be assessed for determining concentrations of pesticides and the genomics tools for microbiological quality. The specific sensor set developed for this application in WP3 and WP4 will be installed and the measured data will be collected in the cloud system developed in the WP7.

Note 3: Description of T5.3

T5.3 Using the treatment systems in the UK to demonstrate the effectiveness of the monitoring (Months 21-34)

Lead: THAMES21; Participants: BOKU; GO-SYS; ALG; UBRUN.

The performance of the monitoring tools in assessing effectiveness of treatment systems will be demonstrated in London and the Great Ouse. The tools and strategies will be identified in WP2, and applied here to show that the INTCATCH approach can determine improvements in quality. Again, there will be feedback provided to the WP2, linking into the DSS tool.

The results of the monitoring of the treatment systems will also be feed into the DSS, in particular the diffusive and innovative in situ treatment. This will in turn enable the DSS to inform future monitoring strategies for monitoring innovative in situ treatment solutions enabling it to feedback into WP2.