After-LIFE communication plan

June 2018

Contact:
F.E.M. Research Group,
Departament d'Ecologia, Facultat de Biologia, UB
Diagonal, 643 - 08028 Barcelona +34 93 403 11 88

lifetrivers@ub.edu
www.lifetrivers.eu

LIFE13 ENV/ES/000341

After-LIFE

With support from the LIFE+ programme of the European Union

Project partners:

Duration: 06/2014 – 06/2018

Implementing the Water Framework Directive in temporary rivers: tools for the assessment of their ecological status
LIFE13 ENV/ES/000341

Authors: Rosa Martínez, (UBUC), Ester Colominas (UBUC), Núria Quintana (UBUC), Núria Cid (UB-FEM), Narcís Prat (UB-FEM), Antoni Munné (ACA), Carolina Solà (ACA), Mònica Bardina (ACA), Teodoro Estrela (CHJ), Arancha Fidalgo (CHJ), Sara María Jiménez (CHJ), Francesc Gallart (IDAEA- CSIC), Jérôme Latron (IDAEA- CSIC), Pilar Llorens (IDAEA- CSIC).

After-LIFE communication plan
Responsible beneficiary: IDAEA-CSIC

Design by: © GLOBAL DESIGN DEVELOPMENT, S.L.

After-LIFE

CONTENT

1. The LIFE+ TRivers website, social networks and media 12
2. Educational activities with the RiuNet app..... 14
3. Workshops, seminars and conferences 15
4. Publications 15
5. Knowledge transfer to stakeholders 15

Abstract

In this document we summarize the plan for communicating and disseminating the main outputs of the project once this has finished.

1. The LIFE+ TRivers website, social networks and media

The first and most important part of the after-life communication plan is indeed the maintenance of the LIFE+ TRivers website in the servers of the UB. This will ensure that the information is permanently available to all the public for the next five years and is especially important for continuing the accessibility to the tools developed in the project: the **TREHS software** and the **RiuNet app**. The RiuNet app is also directly linked to the FEHM lab website, where the users will be able to follow the most recent updates and educational activities.

In addition, **social networks** (i.e. @LifeTRivers twitter account) will be active on disseminating aspects related with the management of TRs and with the results of the project. Researchers at UB and CSIC will be in touch with the communication team (UB-UC) to feed with potential news, such as new papers published or relevant activities. Every press release containing TRivers's outcomes will be also disseminated in the website and Twitter.



Screenshot of the LIFE+ TRivers website.

2. Educational activities with the RiuNet app

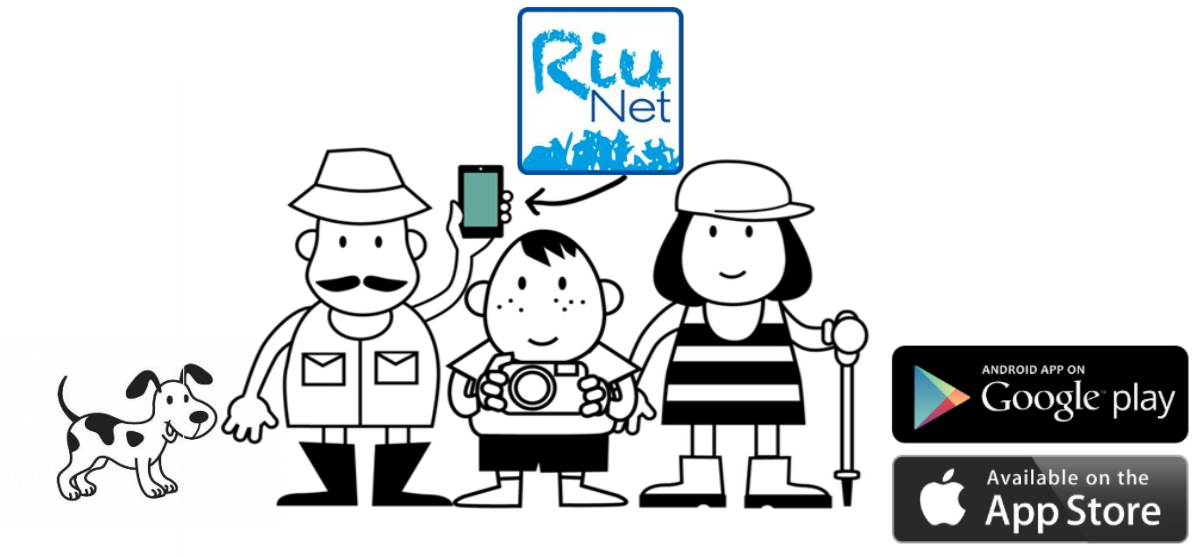
After the end of LIFE+Trivers, the app will be maintained by UB, as well as educational activities. The following **activities** are planned:

- Secondary school l'Esperança. Barcelona. June 2018.
- Secondary school Institut Puigverd. Barcelona. November 2018.
- Activity with Project Magnet. Educational activities for families. November 2018.
- Safari Citizen Science. Barcelona. February 2019.
- Activity with NGO "Projecte Rius". Barcelona. February 2019.
- YOMO event. Barcelona. February 2019.
- Secondary scholl Rambla Prim (Barcelona). February 2019.
- Activity at Escola l'Espernça. Baró de Viver (Barcelona).
- Saló ensenyament. Barcelona. March 2019.
- Festa del Riu Cornellà (Barcelona). March 2019.

All the activities related with RiuNet can also be checked online at: http://www.ub.edu/fem/index.php/en/agenda-en/monthcalendar/2019/3/-

Eventually, the outreach activities will be transferred to the NGO "Projecte Rius" (http://www.projecterius.cat/), a branch of the Habitats Association dedicated to the custody of river ecosystems in Catalonia. Projecte Rius is already using citizen science with their own materials, and in addition to this they will also incorporate the RiuNet app.

The **data validation** of RiuNet will be continued at UB and the TRivers website will maintain the link and associated information (see section 2). The plan is to transfer the data collected to the water agencies (in the meantime only to Agència Catalan de l'Aigua, but this could be extended to other RBDs). This will provide with new interesting information on the hydrological and ecological status of temporary rivers, and on the pressures and impacts present on them. In this sense, RiuNet could be used as a potential tool in future participatory processes carried out by the WA as a way to engage citizens as we did in TRivers. However, this is not in our hands and completely depends on the budget of the water agencies for this kind of activities.



The RiuNet app will continue available at Google Play and App store.

3. Workshops, seminars and conferences

The after LIFE communication plan also includes the dissemination of results in upcoming **workshops, seminars and conferences**, which are the following:

- Meeting of the Association for the Sciences of Limnology and Oceanography (ASLO) June 2018. Victoria, Canada. Núria Cid (UB). Oral presentation "Combined impacts of anthropogenic and natural stressors cause functional changes in stream fish communities".
- Meeting of the Iberian Association of Limnology (AIL). June 2018. Coimbra, Portugal. Antoni Munné (ACA). Oral presentation "A new approach to assess ecological status in intermittent rivers and ephemeral streams in a Mediterranean river basin district (Catalonia, NE Spain)". In this Iberian congress, a special session was organized on Ecology and management of temporary freshwater systems.
- X Congreso Ibérico de Gestión y Planificación del Agua. Fundación Nueva Cultura del Agua. September 2018. Coimbra, Portugal. Narcís Prat (UB) https://fnca.eu/congresos-ibericos/x-congresso-iberico. Potser presentation "Herramientas participativas para la mejora de la gestión de los ríos temporales".
- SMIRES Cost action meeting. October 2018. Budva, Montenegro. Antoni Munné (ACA). Oral presentation: "Implementing environmental flow regimes in Catalan temporary rivers. The Gaià river, a case study".
- SMIRES Cost action meeting. November 2018. Ispra, Italy. Núria Cid (UB). Oral presentation: "The use of citizen science in temporary rivers".
- Primer Encuentro de estudiantes e investigadores postdoctorales CRHIAM (Centro de Recursos Hídricos para la Agricultura y la Minería). Oral presentation: "El uso de TREHS como herramienta para poder determinar el régimen y/o alteraciones hidrológicas de los ríos temporales"

At these events, the **TRivers leaflets** will be taken for dissemination of the final results.



Example of the final leaflets explaining the outcomes of the project.

4. Publications

In addition to the publications done during the project, other publications associated to TRivers will be published after the end of the project. Publications planned as part of after-life communication plan are the following:

Scientific articles:

- Cid, N.; Gutiérrez-Cánovas; C., Rodríguez-Lozano; P., Bonada, N.; Fortuño, P.; Latron, J.; Gallart, F.; Llorens, P.; Prat, N.; Vinyoles, D. Functional features of fish communities from Mediterranean-climate streams show contrasting responses to disturbances. Planned date of submission: June 2019.
- Sarremejane, R., Cid, N., Cañedo-Argüelles, M., Stubbington, R., Datry, T., Heino, J., Gutiérrez-Cánovas, C., Paillex, A., Tierno de Figueroa, M., Paril, P., Cordero-Rivera, A., Zamora-Muñoz, C., Usseglio-Polatera, P., Millán, A., Csabai, Z. A.; Bonada, N. A new dispersal-related trait database for aquatic invertebrates with applied case studies to conservation ecology. Planned date of submission: January 2019. Journal title: Hydrobiologia. This paper is a result of the collaboration with the COST ACTION SMIRES using data from TRivers as case study.
- Soria, M.; Cid, N.; Bini, L.M.; Gutiérrez-Cánovas, C. and Bonada, N. Is flow intermittence causing biotic homogenization? Beta-diversity components disentange biodiversity changes in highly dynamic Systems. Planned date of submission: December 2018. Journal title: Freshwater Biology
- Burfeid, A., Gutiérrez-Cánovas, C.; Bonada, N.; Acosta, R.; Rodríguez-Lozano, P.; Prat, N. Gallart, F.; Cid, N. Community responses to natural and anthropogenic disturbances: structural and functional insights from Mediterranean intermitent streams. Planned date of submission: January 2019. Journal title: Journal of Applied Ecology.
- Verkaik, I.,; Fortuño, P.; Ladrera, R.; Cid, N; Bonada, N.; Soria, M.; Rieradevall, M.; Gallart, F. Prat, N. RiuNet app: bridging the gap between citizens and river management, with special attention to temporary rivers. Planned date of submission: February 2019. Journal title: International Journal of Water Resources Development.

Books and book chapters:

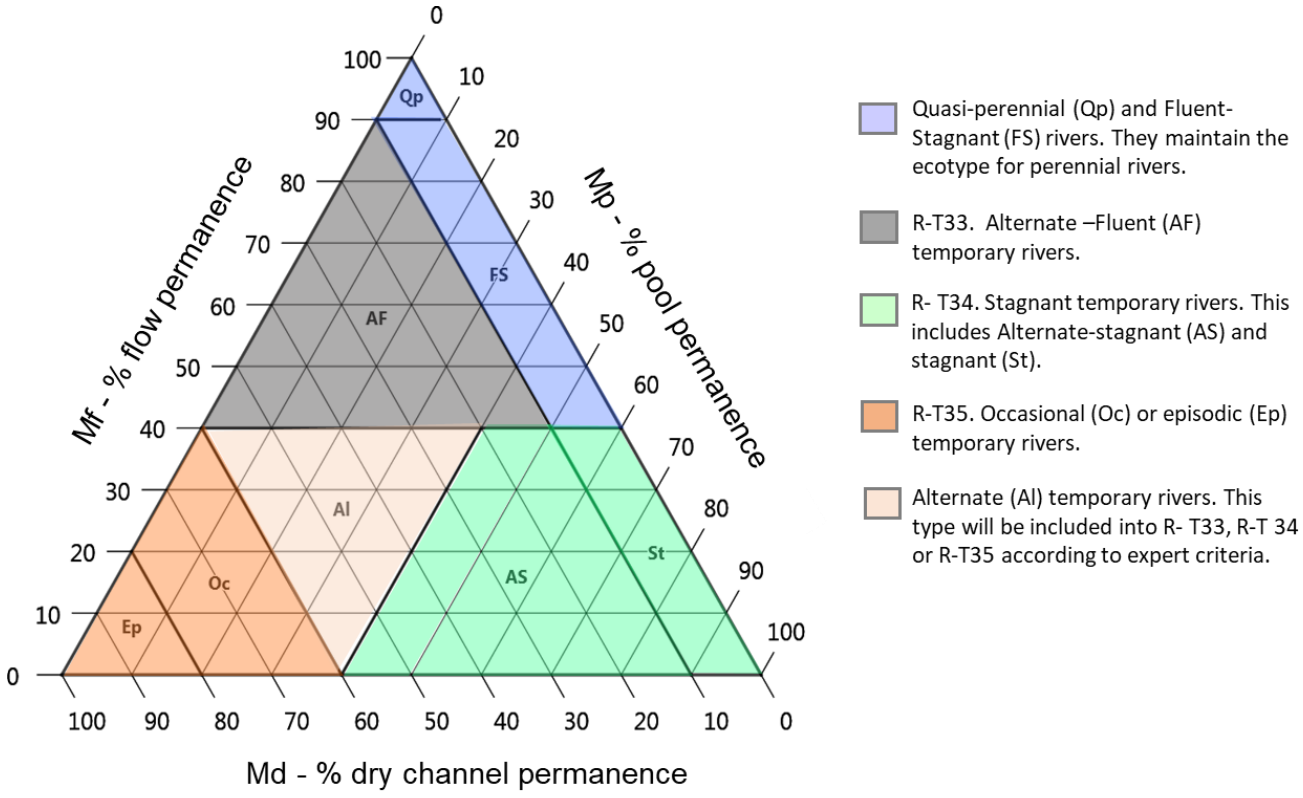
- Soria, M.; Gallart, F.; Bonada, N.; Fortuño, P.; Verkaik, I.; Cutiérrez-Cánovas, C.; Prat, N.; Latron, J.; Llorens, P.; Cid, N. Metodologías para la evaluación del estado hidrológico y ecológico de los ríos intermitentes. Book: Limnologia: Dos conceitos básicos às pesquisas avançadas (eds. Clemente Vieira Rego da Silva,D.; Gonçalves Queiroz, L.; Marassi, R.J; Thans Gomes, L.E. Publisher: University of Sao Paulo (Brazil). Planned date of submission: May 2019. The abstract of the book chapter was accepted and the cahpter writting is in progress.
- Stubbington, R., Cid, N., Munné, T., Soria, M., Datry, T., and all co-authors from SMIRES cost action. Book: Community Ecology and Biomonitoring in intermittent rivers and ephemeral sstreams (eds. Rachel Stubbington and Thibault Datry). Planned date of submission: September 2019.

5. Knowledge transfer to stakeholders

The two administrations CHJ and ACA, partners of Life TRIVERS, with the assistance of the other partners (UB and CSIC), designed a new protocol to assess temporary rivers according to TRIVERS results, and following WFD guidelines and the Spanish regulations. This work is planned to be presented to stakeholders at the european level **Water Framework Directive ECOSTAT** meeting (Tallin, Estonia, June 2018) for the development on a Common Implementation Strategy. A specific **group on the biomonitoring temporary rivers** will be created. An oral communication will be presented in the next ECOSTAT meeting in Malmö (Sweden), in October 2018.

The Catalan Water Agency (ACA) executes a Programme for the monitoring of water status in order to establish the ecological and chemical status of the water bodies (Acord GOV/139/2013, de 15 d'octubre, pel que s'aprova el Programa de Seguiment i Control del DCFC pel període 2013-2018). In the revision of the Programme for the period 2019-2024, the monitoring of temporary water bodies will incorporate the recommendations of Life Trivers project, and information to implement the TREHS tool will be collected. At the end of this period, all water bodies will be classified according to their temporality, using TREHS. The evaluation of the ecological status of temporary water bodies will take into account the new protocol that Life Trivers began. This evaluation will be done with data collected by the **monitoring Programme 2019-2024**. The Catalan Water Agency analyse and publish the status of water bodies every three years.

Besides, the **programme of measures** obtained from the LIFE+ Trivers participatory process are in the hands of the water agencies, which will be also taken into account for the next River Basin Plan cycle.



LIFE+ TRivers proposal for a new classification of river typologies according to the temporary flow regime.