

SFS-05-2015 - SUSTAINABLE FOOD SECURITY



Title: New commercial EUropean RICE (*Oryza sativa*) harbouring salt tolerance alleles to protect the rice sector against climate change and apple snail (*Pomacea insularum*) invasion

Acronym: NEURICE

Grant Agreement N°: 678168



Deliverable 5.4	2019 Field assays implementation tests
Associated WP	WP5. Development of a wireless sensor network
Associated task(s)	Task 5.4. 2018 and 2019 field assays implementation tests
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Version	Date	Main changes
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The present deliverable has been requested to be delayed to February 2020 (M48) in the last amendment proposal pending to be approved. The reason for this delay is the need of finalizing the evaluation tests of the recently received sensor sets and the inclusion of the ongoing work of updating the design of the nodes for taking into consideration the minor issues identified during 2019 assays period.

The deliverable will show the 2019 implementation tests developed at the field locations of the Ebro delta (Spain), Rhone delta (France) and Po delta (Italy) to evaluate the performance of the Wireless Sensor Network (WSN) systems designed, manufactured and integrated in task 5.2, preliminary tested and tuned in task 5.3 and also tested during 2018 season.

A brief description of the different locations will be presented, together with a summary of the WSN systems specifically designed for fulfilling the end-user specifications and to adequately monitor the fields during a whole rice season. Furthermore, a list of the main incidences found and an evaluation of the main results obtained will be developed. An updated version of the user and installation manuals and the answered questionnaires for each field responsible about the WSN performance are included as annexes. Clear conclusions on the WSN systems performances for each of the field locations will be outlined, adding the final design improvements included in the final solution taken as an outcome of the Neurice project. Finally, an outline of the exploitation roadmap for the WSN will be included, evaluating further development and validation work, as well as possible competitors.