



Project Technical Board meeting

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WP 3 Leader & CNR unit coordinator

SWRIPS PTB second Meeting

Catania, 13 February 2024



PRIMA programme is supported by Horizon 2020, the European Union's Framework Programme for Research and Innovation.

WP3 aim:

development of sensing systems and in particular

=> an in-line test system for continuous monitoring of the physical and chemical parameters of the purified water to be re-used for irrigation.



We did a WP3 1° coordination meeting @ 30 January,
we discussed on

-the coordination of the activities of the WP and we discussed
our WP meeting calendar

&

-the interaction with other WPs and it will be useful to have

Info on
contaminant/chemicals
of interest



WP3: SiC Spectroscopy
apparatus for inline and
online water quality
monitoring



Info on the residual
contaminant expected in
treated water and on their
concentrations



WP3 1° meeting



WP3 short term activity plan

- ▶ Laboratory measurements with bench top systems to verify the optical detection principle for the pollutants of interest
- ▶ Identification of the optical powers necessary for sensing systems
- ▶ Design of Silicon Carbide photo-detectors to be used for the development of portable spectroscopic systems (**RUNNING**)
- ▶ Design of polymers for the sensing in water (**SCHEDULED FOR M12-M30 IN THE PROJECT PROPOSAL ...ALREADY STARTING...**)



WP3 short report of carried activity in the period January/February (task 3.1 & 3.2)

- ▶ We planned the activity on the polymeric sensor substrates preparation and on their optical characterization: **in March we will start lab activity!**
 - ▶ We selected 3 pesticides that we have in lab to perform study on innovative polymer detection ability
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- ❑ PESTANAL
 - ❑ 2,4-D
 - ❑ IMIDACLOPRID

