

Lighthouse of FERTIBERIA-QSR

- ❖ **Qsr**, Fertiberia Group, is a chemical industry in a chemical park.
 - ❑ Different plants (Nitrates, Carbonates and Sulphates) consume water, steam, raw materials and energy.
 - ❑ As a consequence wastewater and by-products are produced.
 - ❑ This is same case for the rest of companies in the park, with low or none interchange of auxiliaries, water, energies, etc.
- ❖ **Qsr** role in Coralis project:
 - ❑ Reschedule the operation philosophy, changing to take into account, not only the main products, but also energies, water consumption, wastewater and by-products.
 - ❑ This will be considered not only inside the Fertiberia site but also integrated in the park in a symbiosis way and in the whole Fertiberia Group.
- ❖ The demonstration will pivot around a new concept of **potassium nitrate plant**, with by-products recycled inside Fertiberia.
- ❖ The design has also considered the future implementation of a **CSP/PV plant** giving energy to the park and a desalination plant.




Fertiberia

Qsr

QUÍMICA DEL ESTRONCIO, S.A.U.

Lighthouse of FERTIBERIA-QSR BUSINESS CASE

❖ QSr/Fertiberia Demo will demonstrate and scale up:

- ❑ New by-product can be integrated in QSr and Fertiberia industry
- ❑ Wastewater can be reduced, recycled and its impact on the park minimized
- ❑ By-products from neighbouring industry can be used in QSr plants
- ❑ CO2 emissions can be reduced

❖ Renewable study:

- ❑ CSP for QSr energy consumption and for the park
- ❑ EV for the QSr and desalinisation plant consumption
- ❑ Innovative Batteries for EV using Fertiberia products
- ❑ Innovative energy storage using Fertiberia patented salts
- ❑ Study in collaboration with Local and Regional Administration for the future renewable plant

