



SWIM–Sustain Water MED Pilot project in Tunisia

Regional training Course

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Tunisia



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Project framework

EU Program 'Sustainable Water Integrated Management' (SWIM):

- A support mechanism (SWIM SM) (6,7M €)
- 5 demonstration projects (15M€) among which SWIM Sustain Water Med (3M€, UE/ BMZ/ GIZ) : pilot activities for sustainable and integrated treatment and reuse of waste water in Egypt, Jordan, Morocco and **Tunisia**

Problem and working hypothesis

Problem : Under exploitation of irrigated perimeter, one reason being the lack of confidence of the users in the quality of the TWW.

Assumption : a real time and transparent monitoring of water quality allows optimization of the use of TWW depending on their quality and improves confidence of farmers in the monitoring system.



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Objective

Develop and implement a monitoring and warning system of water quality at Ouljet El Khodher (Médnine) irrigated perimeter.

National Steering Committee

- ONAS,
- DGEQV,
- ANPE,
- DHMPE,
- DGGREE,
- CRDA Mednine
- GDA Ouljet el Khodher.



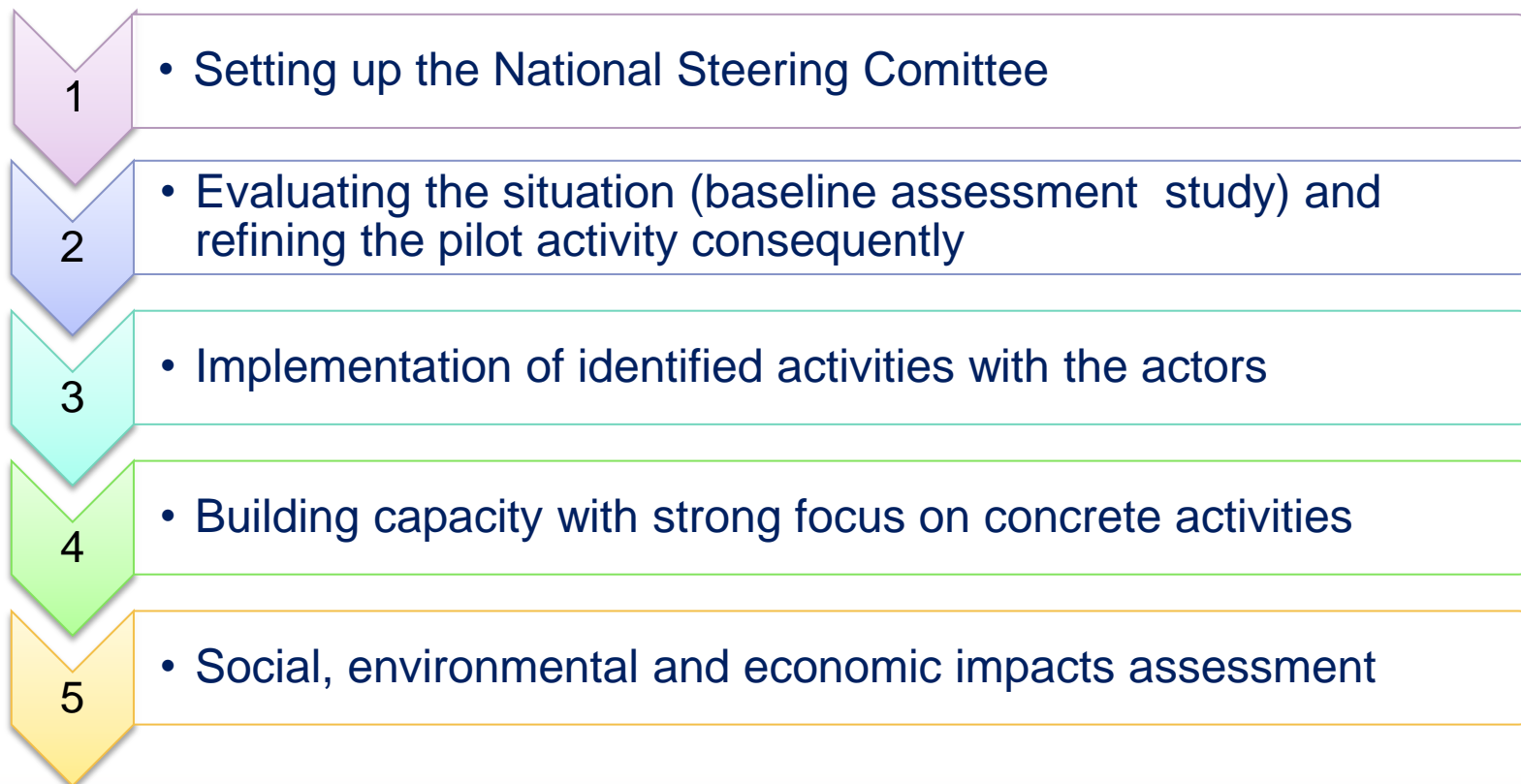
Project Timeframe

2012-2014



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Planning of activities





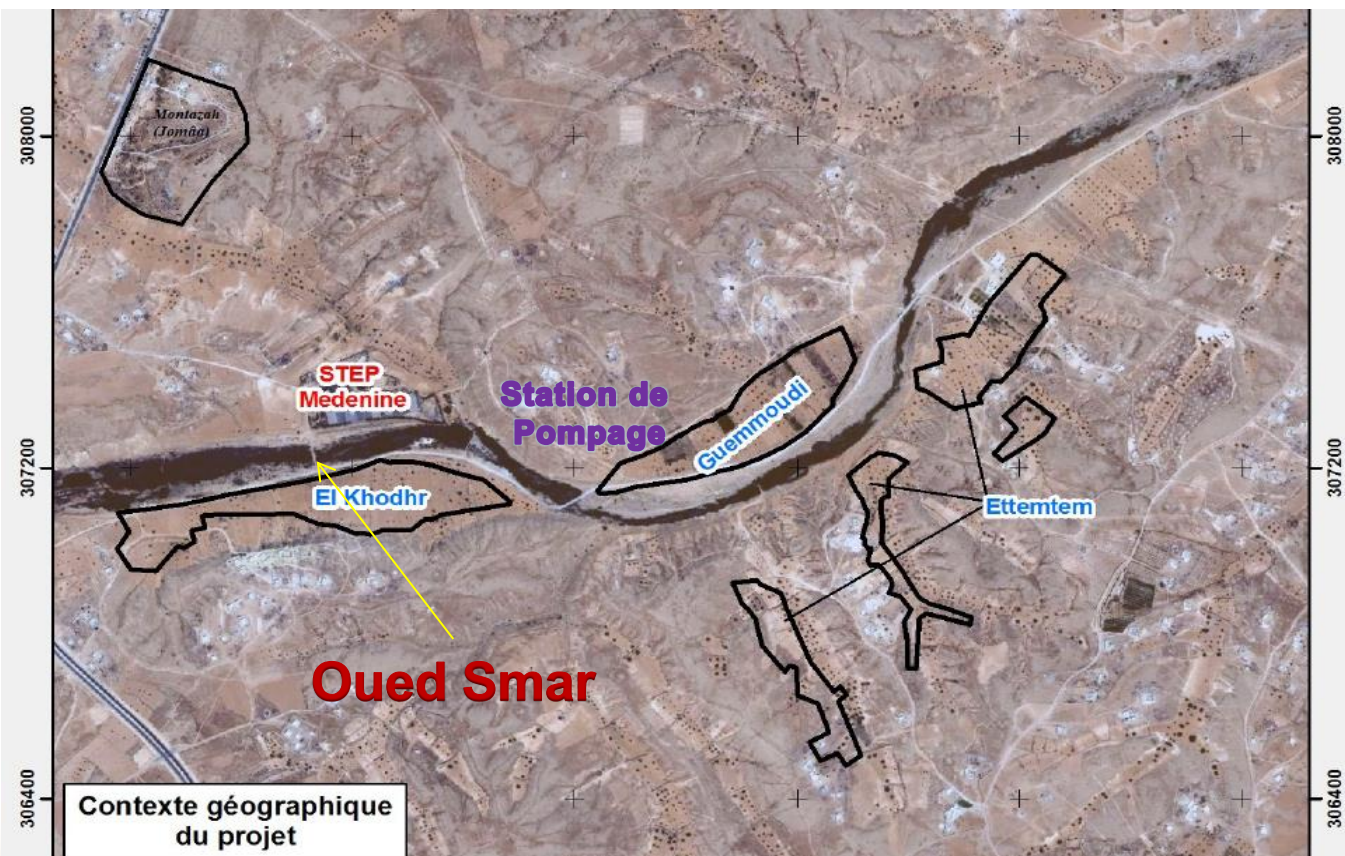
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Project geographical context

- Arid region, overexploited groundwater
- WWTP 4000m³/day
- Activated sludge, secondary treatment
- Irrigated perimeter: 30 Ha





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'Hard ware' activities of the pilot project

- ➔ Improving quality of TWW for agriculture through construction of gravimetric sand filter
- ➔ Strengthening the water quality monitoring system (frequency and parameters) through additional equipment for the WWTP laboratory and installation of a real time water quality analyzer
- ➔ Implementing a system to exchange information and to coordinate the services of CRDA, GDA, environment, health and l'ONAS



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'Soft ware' activities of the pilot project

⇒ Mainstreaming good practices in terms of treatment, quality monitoring and reuse through workshop, sites visits, training, documentation

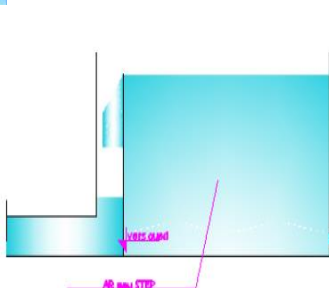
⇒ Organizing technical trainings and communication campaign to ensure ownership of project and impacts of activities



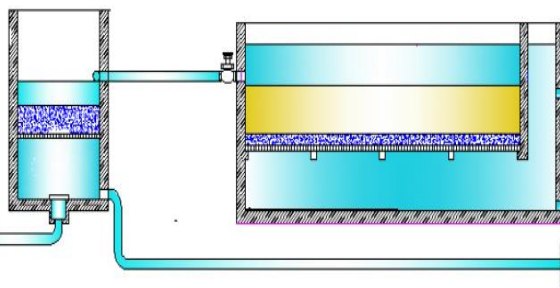
giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Project scheme

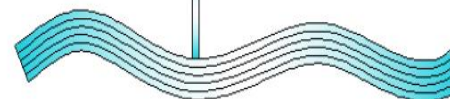
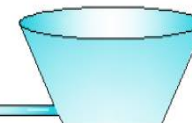
WWTP



Gravimetric sand filter



Storage basin CRDA, 1000m3



Ouljet elkhodher irrigated perimeter , 30ha



Pumping station CRDA



Information exchange system



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ANPE

CRDA Médnine

HEALTH



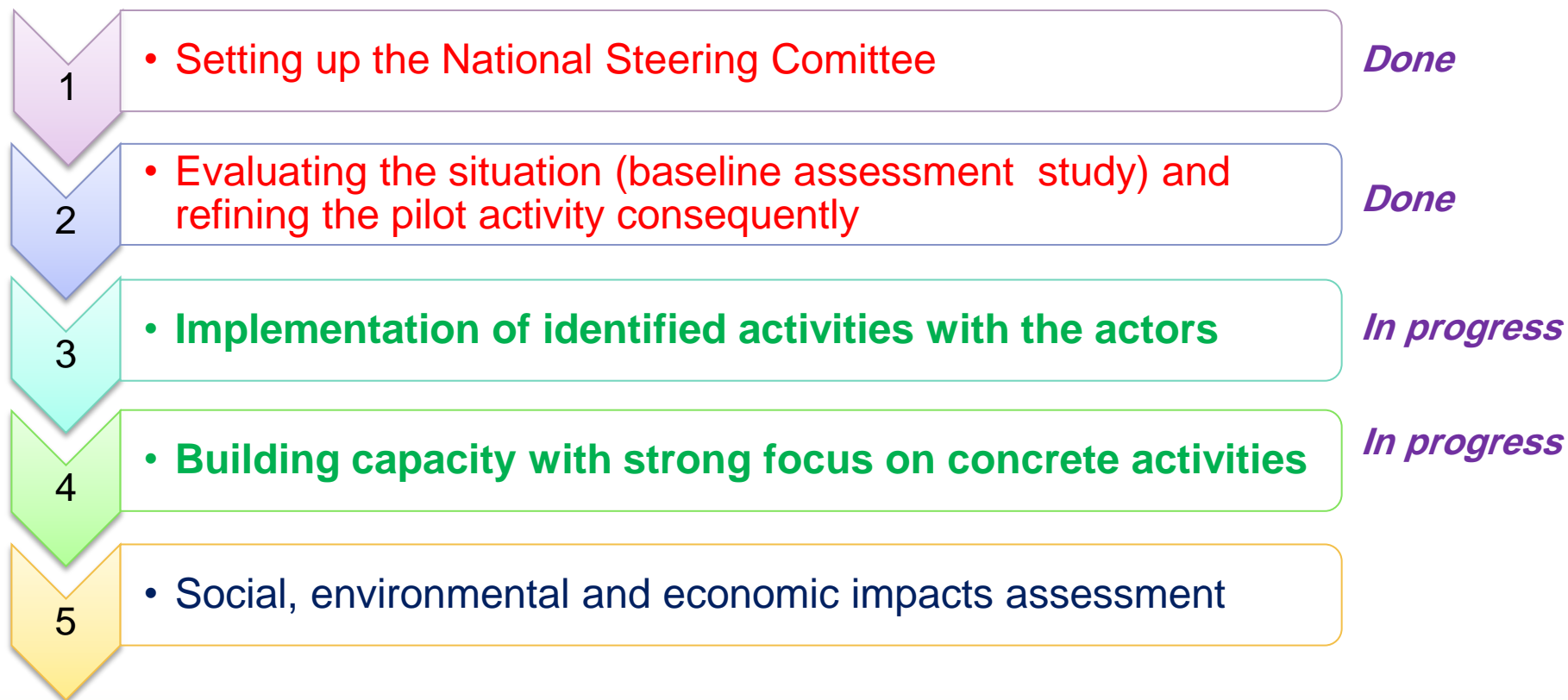
→ : Results of analysis
← : Information exchange

Online multi parameter analyzer



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Project progress





Etat d'avancement du projet SWIM et palanning des activités 2014

Activités	Janvier	Fevrier	Mars	Avril	Mai	Juin	Juillet	Août	Septembre	Octobre	Novembre	Décembre
1. Aquisition de matériels pour le renforcement du laboratoire de l'ONAS, STEP Mednine	[Yellow bar]											
lancement d'AO	[Yellow bar]											
etablissement du contrat avec le fournisseur	[Yellow bar]											
installation des équipements et formation	[Yellow bar]											
2. suivi environnemental (Analyse de la qualité du Sol, eaux de la Nappe et du produit agricole)	[Green bar]											
Lancement de l'AO	[Green bar]											
établissement du contrat avec le laboratoire d'analyse	[Green bar]											
Première campagne d'analyse	[Green bar]											
Deuxième campagne d'analyse	[Green bar]											
Troisième campagne d'analyse	[Green bar]											
3. Développement d'une application informatique pour le partage et l'échange des informations relatives à la qualité des eaux,	[Yellow bar]											
Lancement de l'AO	[Yellow bar]											
établissement du contart avec le développeur	[Yellow bar]											
finalisation	[Yellow bar]											
4. Rédaction du DAO relatif aux activités d'aménagement, d'installation d'un filtre à sable, et d'un analyseur multiparamètres	[Green bar]											
Lancement de l'AO	[Green bar]											
établissement du contart	[Green bar]											
rédaction du DAO	[Green bar]											
Lancement de l'AO (aménagement + filtre à sable + analyseur multi-paramètres	[Green bar]											
suivi des travaux	[Green bar]											
finalisation des travaux	[Green bar]											
Cycle de Formation Nationale	[Green bar]											
3 ème Formation Régionale, Djerba, Tunisie	[Green bar]											
Meeting regional à Rabat, Maroc	[Green bar]											
étude d'impact environnemental et social (ENE) et Adelphi	[Blue bar]											
4 ème Formation régional, Bologne, Italie	[Blue bar]											
conférence internationale dans le domaine de la reutilisation des EUTs, Egypt	[Blue bar]											
Meeting regional final, Cairo, Egypt	[Blue bar]											



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Thank you for your attention

