



SUWANU
EUROPE

Task 2.7

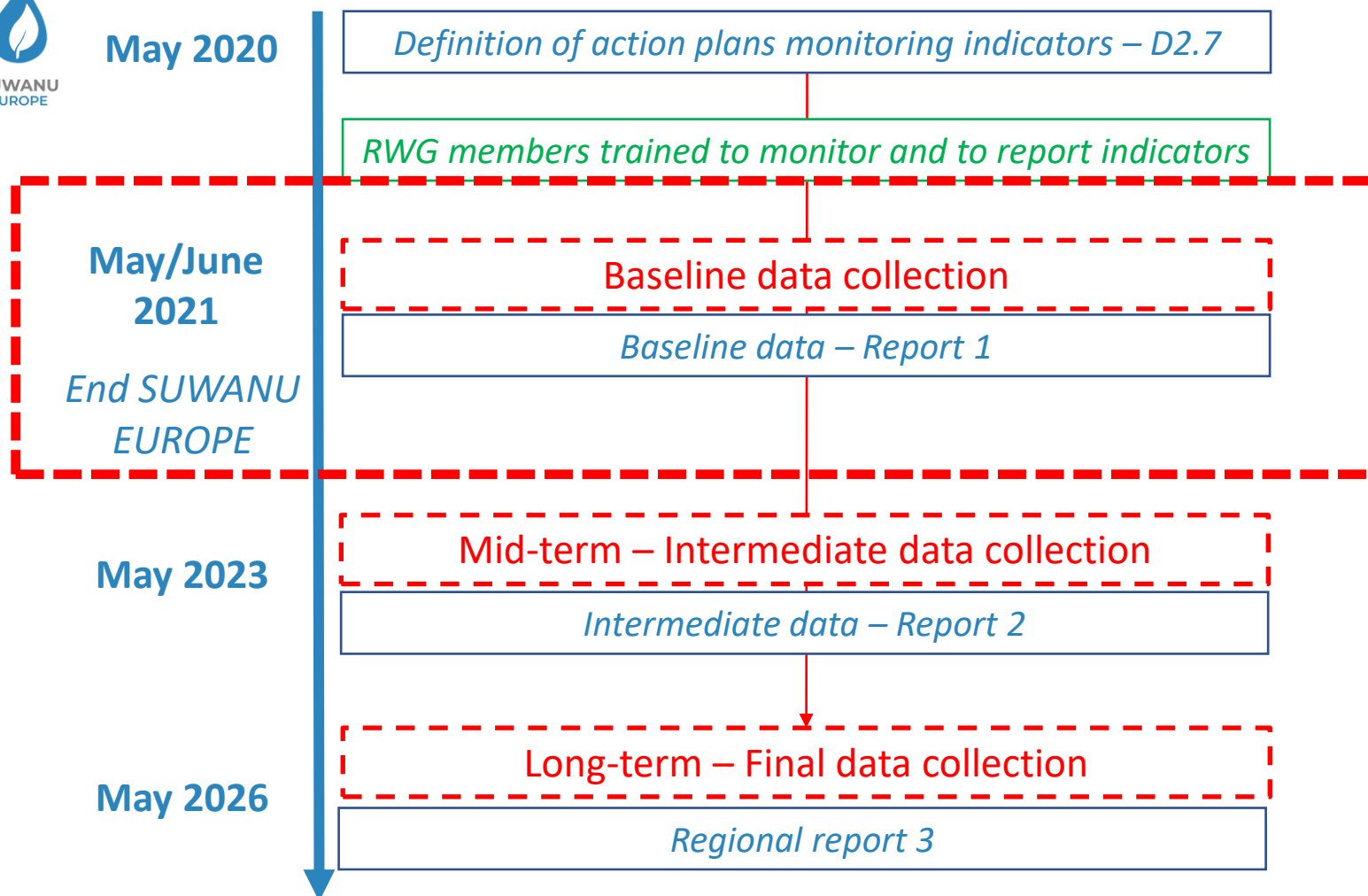
Indicators for successful implementation of SUWANU action plans

*Synthesis – Baseline data
June 2021*



Network for effective knowledge transfer
on safe and economic wastewater reuse in agriculture in Europe (818088)

PLANNING



SMART INDICATORS for GAP and RAP



16 SMART indicators to monitor GAP and RAP

COMMON FOR ALL SUWANU EUROPE REGIONS



Additional SMART indicators to monitor GAP and RAP

SPECIFIC FOR YOUR REGION / Not mandatory (if you do not have any then add none)

16 SMART and COMMON indicators



Indicator ID	SMART indicators	Measure
GO-a	Number of operational and on-going water reuse projects in agriculture: ONLY pilot scale OR demonstration scale OR research purposes	Number
GO -b	Among 0-a: Number of projects that have emerged over the last 2 years (= last reporting period)?	Number
GO -c	Number of operational and on-going water reuse projects in agriculture: all types of projects (including 0a projects + FULL-SCALE projects)	Number
GO -d	Among 0-c: Number of projects that have emerged over the last 2 years?	Number
SO1-a	Regulation framework	Y/N
SO1-b	IF YES in 1-a: Regulation framework enforced in the whole region	1: Fully enforced in the region. 2: Fully enforced in some areas of the region 3: Relatively enforced in the region 4: Relatively enforced in some areas of the region 5: Not enforced
SO1-c	IF YES in 1-a: Scope / Level of the regulation framework?	■ UE regulation ■ National regulation ■ Regional regulation
SO2-a	Administrative and regulatory procedures: Average time to achieve full legal and administrative project authorizations (<u>from</u> the start of building administrative and regulatory folders <u>to</u> the grant of final authorization by local authorities)	Number (Month)
SO2-b	Administrative and regulatory procedures: Average total cost for project leader to achieve full legal and administrative project authorizations (<u>from</u> the start of building administrative and regulatory folders <u>to</u> the grant of final authorization by local authorities)	€
SO3-a	Among 0-d water reuse projects: Average total cost of investment in water reuse projects (financed both by public and private entities) (from reclamation infrastructures to distribution network delivery point to farmers) (not including operational and maintenance cost)	€
SO3-b	Among 3-a € value: Percentage supplied, financed, or subsidized by public entities	% of €
SO3-c	Among 0d water reuse projects: <u>Direct</u> financial support (or incentives) to farmers (direct financial support not included to 3-a)	■ Yes ■ Yes but under conditions ■ No
SO3-d	IF YES in 3c: Average direct financial support to farmers	€/Ha irrigated with reclaimed water
SO4	Regional supervisory board or network for water reuse with representatives of all the stakeholders including farmers or farmers advisers	Y/N
SO5	IF YES in 4: This regional board or network is connected to European network	Y/N
SO6	Based on recent and updated regional survey: % of interviewed people willing to buy and to eat agricultural products irrigated with reclaimed water that respect the EU regulation	%

16 SMART and COMMON indicators

Indicator ID	France	Belgique	Bulgaria	Germany
GO-a	3	5	1	3
GO -b	2	3	1	3
GO -c	5	5	4	1
GO -d	3	3	2	0
SO1-a	Y	Yes	N	no
SO1-b	1: Fully enforced in the region.	1: Fully enforced in the region.		-
SO1-c	National regulation	- UE regulation - Regional regulation		-
SO2-a	6 months	Between 2 – 3 months	3	Because there are no regulations and because of the so far lack of need, it is impossible to say.
SO2-b	40 000 €	Farmers pay an administrative cost to the water provider of 160€ per month they make use of the water. The farmers collect the water at the WWTP, which also bears a considerable cost of road transport to the irrigated plot. The costs for the water providers however exceed the contribution of 160€. This covers more or less the administrative costs, but not the extra consumed time for the technical staff of the WWTP.	200 euro	See SO2-a
SO3-a	Unknown €	Unknown	Unknown	Unknown
SO3-b	Unknown %	Depends from type of initiative - up to 50% of initial investments in some cases.	Unknown	Unknown
SO3-c	No	No	No	No
SO3-d	/	-		-
SO4	Yes	No	No	Yes
SO5	Yes	-	-	Yes
SO6	69 %	Unknown	100%	Unknown

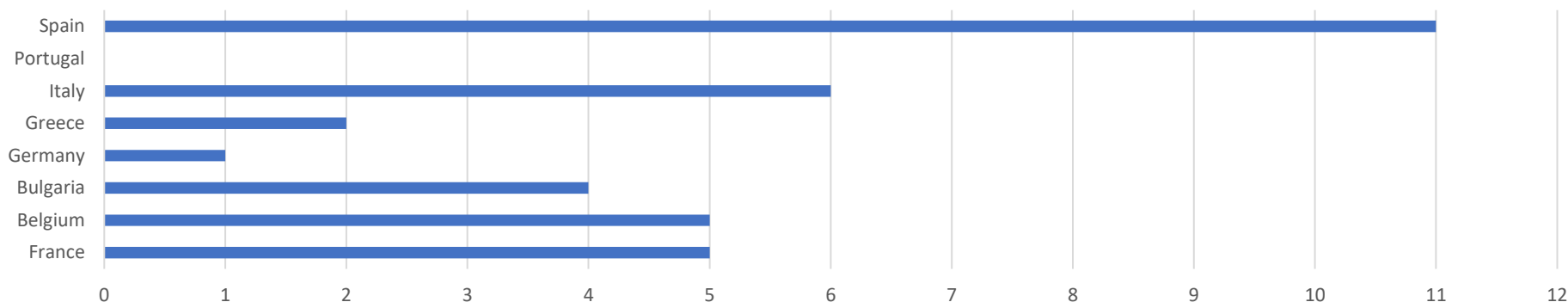
16 SMART and COMMON indicators



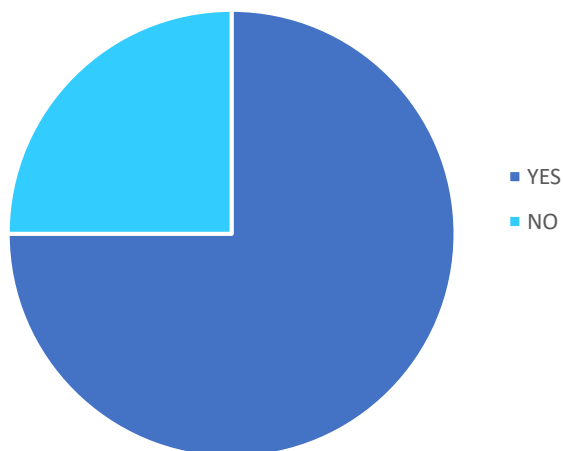
Indicator ID	Greece	Italy	Portugal	Spain
GO-a	2	4	3	Bioazul (Malaga)
GO -b	0	2	Unknown	Montilla (Córdoba) 20 projects are under approval process in Guadalquivir basin and around 10 in Mediterranean basin
GO -c	2	6	Unknown	On going: 1 plant with 13 Million m3 Almeria and around 10 plants 5 million m3 in Jaen and Cordoba. Additionally 40 million m3 for golf courses
GO -d	0	3	Number	The mentioned 30 projects in 0-b have been last 2 years under process.
SO1-a	Yes	Y	Yes	YES
SO1-b	1: Fully enforced in the Region	Y	4: Relatively enforced in some areas of the region	1: Fully enforced in the region.
SO1-c	National Regulation EU Regulation Regional regulation	National & Regional	UE regulation National regulation	National regulation <u>Real Decreto 1620/2007, de 7 de diciembre</u>
SO2-a	Approximately 18 months	9/12 months	Unknown	24 months
SO2-b	Unknown €	30k euros	Unknown €	Consultancy.. 10 000 € Fees: negligible Environmental protection: very variable
SO3-a	Unknown €	350k euros	Unknown €	Infrastructure and main distribution networks (from zero to 30%). No subsidies for on-farm equipment
SO3-b	Unknown	90 %	Unknown	Only capital cost
SO3-c	Unknown	0	Unknown	No
SO3-d	Unknown	0	Unknown	/
SO4	No	Y	No	NO
SO5		Y		/
SO6	Unknown	40/50 %	Unknown	There is not a relevant level of opposition by consumers in the region

Exemples of charts

GO-c : Number of operational and on-going water reuse projects in agriculture (all types of projects)



SO1-a : Regulation framework



Region	SO1-c : Scope of the regulation framework
France (Occitanie)	National regulation
Antwerp and Limburg (Belgium)	UE regulation Regional regulation
Bulgaria (Plodiv)	-
Braunschweig (Germany)	-
Greece (Thessaloniki)	EU regulation National regulation Regional regulation
Italy (Po River Basin)	National regulation Regional regulation
Portugal (Alentejo)	UE regulation National regulation
Spain (Andalusia)	National regulation



This project has received funding from the European Union's H2020 Research & Innovation programme under grant agreement N° 818088



Thanks for your attention!

PRATX Ophélie

ECOFILAE

Project's engineer

Ophelie.pratx@ecofilae.fr

DECLERCQ Rémi

ECOFILAE

Project's manager

remi.declercq@ecofilae.fr

www.suwanueurope.eu

