



Water Sector WaSH Assessment Platform (WAP)

Date: 16.07.2018

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Water sector information manager (Consultant)



Agenda

1. WAP overview
2. Baseline Analysis
3. Development Update (WAP 2018)
4. WAP tool



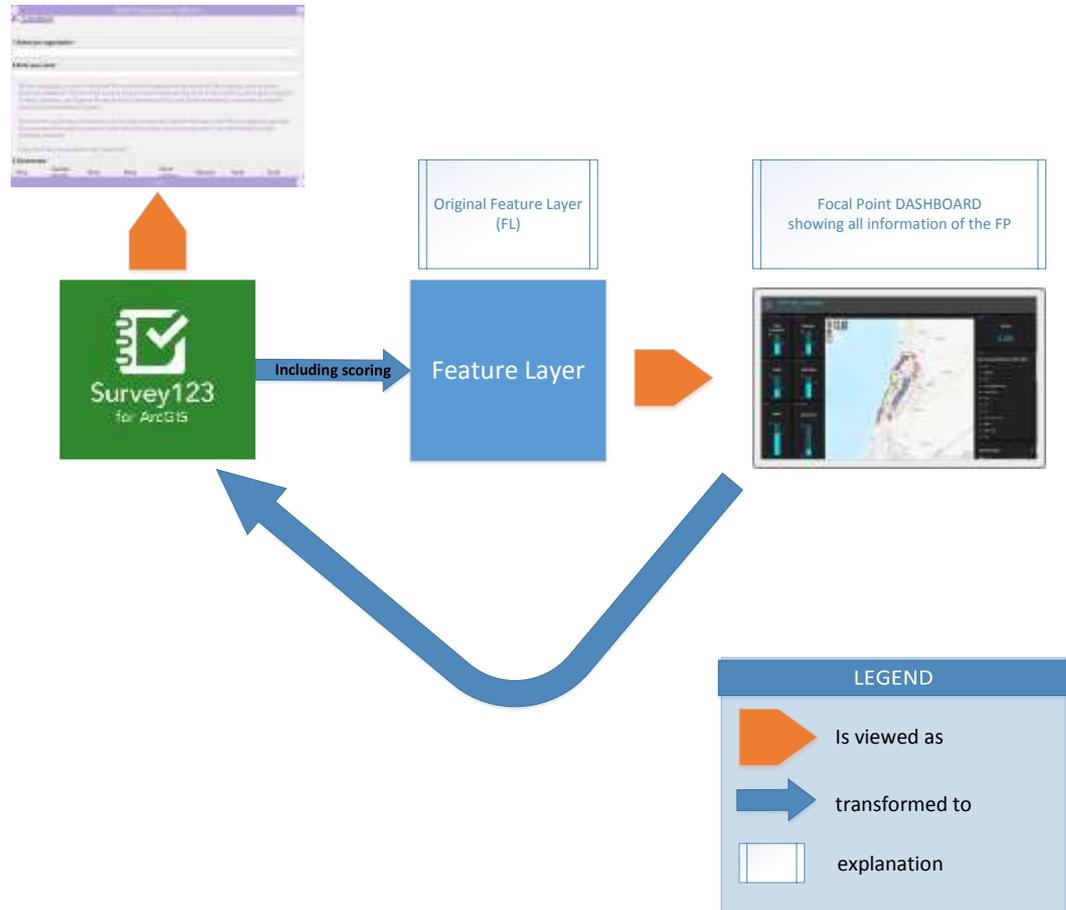
1. WAP tool Overview – objectives

Anticipating a continued reduction in availability of funding, the sector developed an approach for targeting and prioritising its WASH response.

- Based on a number of agreed criteria to determine a site's level of vulnerability;
- Establish a baseline and ranking of all sites in terms of their vulnerability;
- Enable sector partners to ensure that the most critical and urgent WASH needs are met, which reduce the risk of WASH related disease and negative environmental impact, regardless of the level of funding, by prioritising the most vulnerable sites first;
- Enable sector partners to tailor their WASH response to ITSs in a more systematic and harmonised manner;
- Enable measuring the impact of the approach by evaluating ITSs at the end of the period, likely one year, to determine their new vulnerability status;

1. WAP tool Overview – process

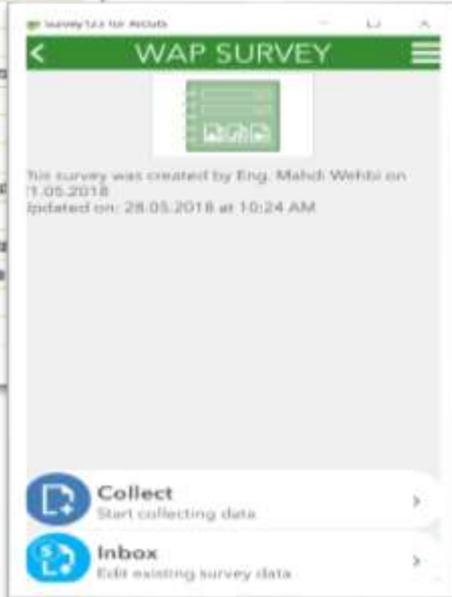
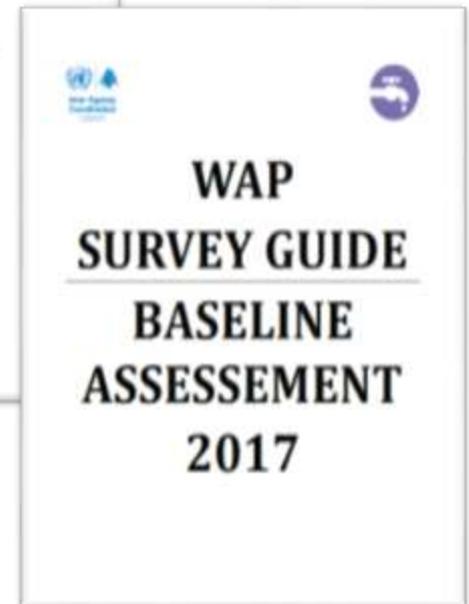
- Data Collection
- Scoring
- Hosted feature layer
- Dashboards
- Reviewing by WaSH/IM
- Updating from survey 123



1. WAP tool Overview – data collection

- xls form (Survey 123)
- Questionnaire and guidance

A	B	C
type	name	xml:lang
begin group	introduction	<body style="background-color:#F0F0F0">
note		<p><div style="border:1px solid #888888; padding:5px">
select_one organization	Please_select_your_org	1-Select your organization
text	Specify_other	+@1 1-Specify other
text	Please_enter_your_name	+@2 Enter your name
end group		
begin group	group_rshad1	<body style="background-color:#F0F0F0">
select_one governorate	governorate	+@3-Governorate
select_one district	district	+@4-District
select_one catalyst	catalyst	+@5-Catalyst
text	PCCOE	+@6-Site Code (Last 4 digits)
calculate	cab	
text	rtscab	+@7-P Code Calculation
text	Agency_Code	+@8 1-Agency Code
geopoint	location	+@9-GPS
calculate	locationcalculation	
external	latitude	Latitude



1. WAP tool Overview – scoring

Social	Water	Sanitation	Solid Waste	Environment
--------	-------	------------	-------------	-------------

- Social – 10/100
- Water – 30/100
- Sanitation – 25/100
- Solid waste – 16/100
- Environment – 19/100
- Total score (Vulnerability) – 100/100

Section	Max score
Water	30
Sanitation	25
Environment	19
Solid Waste	16
Social	10
Total	100

Section	Criteria	Score	Weight	Total
Social	Special Needs	Female-headed households	0.75	3
		Children	0.75	
		Elderly	0.75	
		Physically Disabled	0.75	
	Community Structures	WaSH Structure	1	2
		Community Structure	1	
Crowdedness	Crowdedness (distance)	1	3	
	Crowdedness (density)	2		
Seasonality	Seasonality (quantity)	1	2	
	Seasonality (duration)	1		
Water	Access	Water Storage Capacity	3	15
		Source type	12	
	Availability	Quantity when accessed	4	9
		Frequency of access	2	
		Seasonality	3	
	Quality	Fecal Coliform	4.5	6
Turbidity		0.75		
Nitrates		0.75		
Sanitation	Access	Latrine access (structures)	9	12
		Latrine access (expansion)	3	
	Wastewater Disposal	Grey Water Disposal	2	11
		Black Water Disposal	3	
		Desludging (frequency)	3	
		Desludging (seasonality)	3	
Treatment	On-site treatment	2	2	
Solid Waste	Storage	Waste storage score	6	6
		Collection waste score	3	
	Handling	Collection freq score	3	10
		Cost_burden_score	4	

Weight	Criterion	Description
10	0.75	Female_headed_score #FemaleHeadedHouseholds/#Households 0 scores 0 40+ scores 100 Between 0 & 40 scores 0 to 100 (linear)
	0.75	Children_score #Children/#Individuals 25+ scores 0 75+ scores 100 Between 25 & 75 scores 0 to 100 (linear)
	0.75	Elderly_score #Elderly/#Individuals 0 scores 0 10+ scores 100 Between 0 & 10 scores 0 to 100 (linear)
	0.75	Physically_disabled_score #Disabled/#Individuals 0 scores 0 10+ scores 100 Between 0 & 10 scores 0 to 100 (linear)
	1	WaSH_structure_score Selection Yes scores 0 No scores 100
	1	Community_structure_score Selection Yes scores 0 No scores 100
	1	Crowdedness_distance_score Selection (yes)and2 scores 100 2to4 scores 50 Morethan4 scores 0
	2	Crowdedness_density_score #Households/#Kalters 100+ scores 0 200+ scores 100 Between 100 & 200 scores 0 to 100 (linear)
	1	Seasonality_quantity_score #Seasonal/#Households/#Households Between 0 & 100 scores 0 to 100 (linear)
	1	Seasonality_duration_score #Months/# Between 0 & 100 scores 0 to 100 (linear)
10	Social_Score	Sum of All Above

Restrictions:
 1- Script must not run for empty sites (It should scores "Null" or write "empty site" in all scores)
 2- If #Households = 0 => Female_headed_score = 0
 3- Social_Score to be rounded to nearest hundredth

1. WAP tool Overview – scoring

Total

	Weight	Criterion	Description
Total Score	100	Total_Score	Social_Score+Water_Score+Sanitation_Score+SolidWaste_Score+Environment_Score

1. WAP tool Overview – hosted feature layer and dashboard

- Reviewing by WaSH/IM
- Updating from survey 123



The screenshot shows the 'WAP Public Dashboard' interface. On the left, there is a sidebar with a search bar and a list of 'WaSH Assessment Platform V1' items. The main area contains six bar charts: 'Total Vulnerability' (48.0), 'Sanitation' (79.0), 'Social' (3.0), 'Solid Waste' (8.0), 'Water' (22.0), and 'Environment' (1.0). A central map of Lebanon displays numerous colored data points representing different locations. On the right, there is a 'Surveys' section showing a count of 4,881 and a legend for 'WaSH Assessment Platform_PUBLIC' with various categories like 'SALMETS (M)', 'Water Corps', 'NIC', etc.

2. Baseline analysis

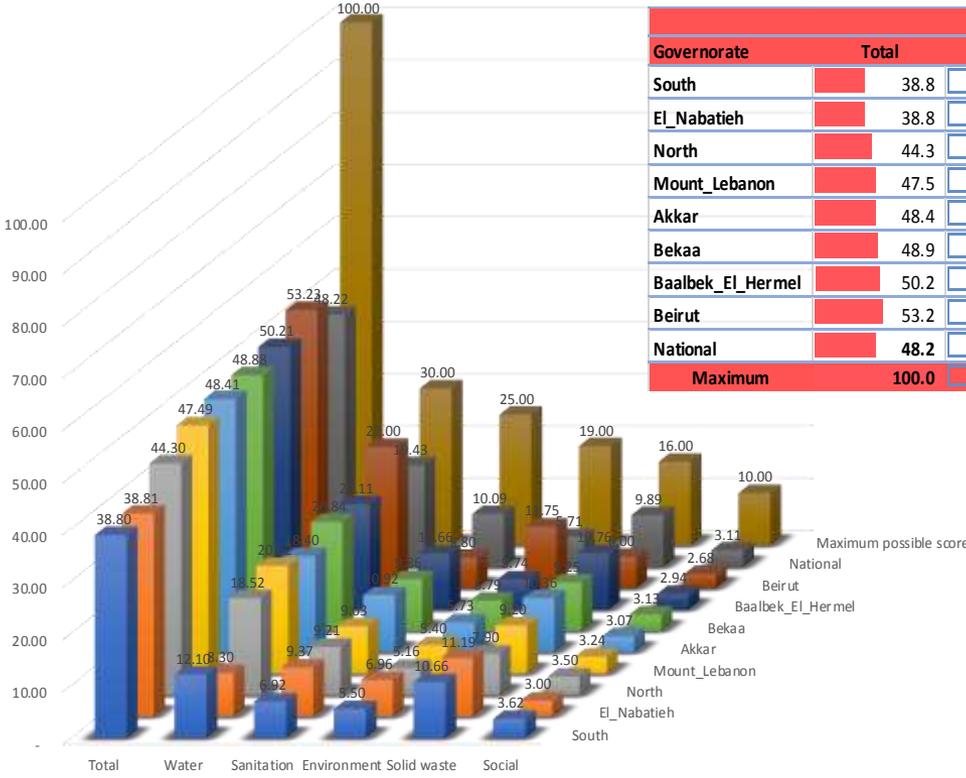
- The report summarizes the findings and analysis of the baseline data collected in the 1st assessment of WAP.
- Baseline data is considered as the first extraction at the end line of the assessment. It was on 27.12.2017.



- 6 key findings which are elaborated in 6 different sections. Location, social, water, sanitation, solid waste and environment. In each section, most of the questions are analyzed. Errors and data limitations are noted where relevant.
- In addition to the findings, recommendations were made to rectify errors found in the process of compiling the raw collected data by applying data verification methods such as 3rd party monitoring and the increased automation of the process in order to reduce the room for human error.

2. Baseline analysis – WASH Vulnerability Scores

Average vulnerability scores by governorate and assessment section

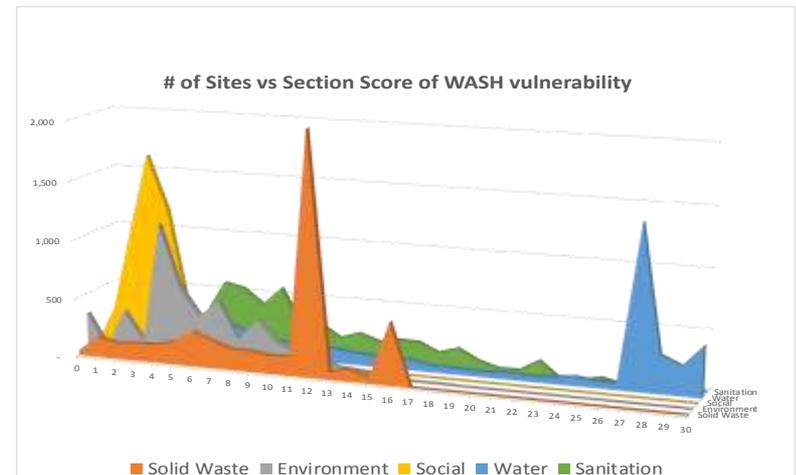
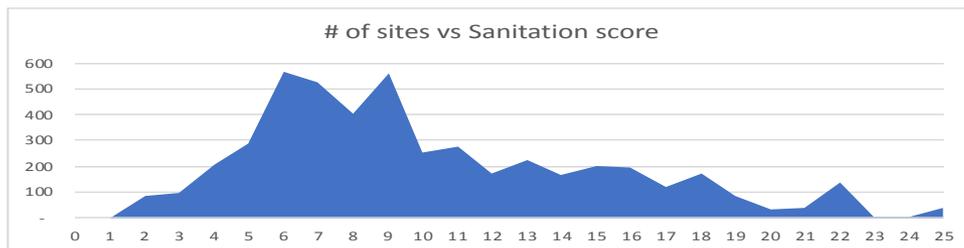
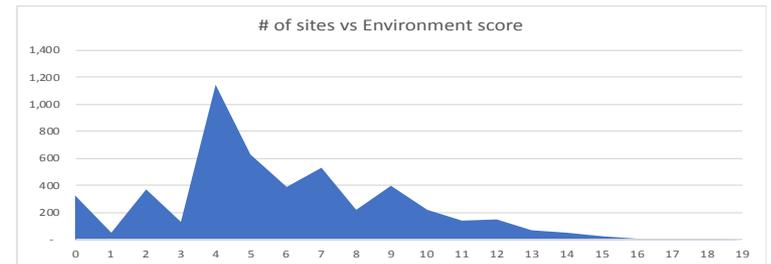
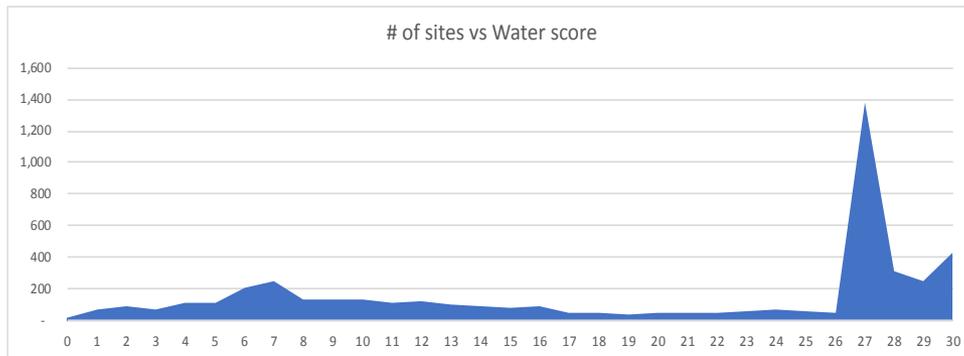
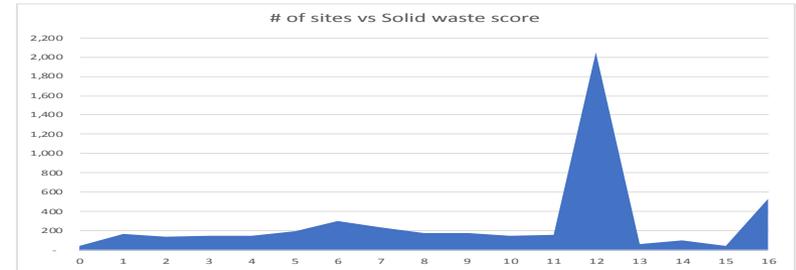
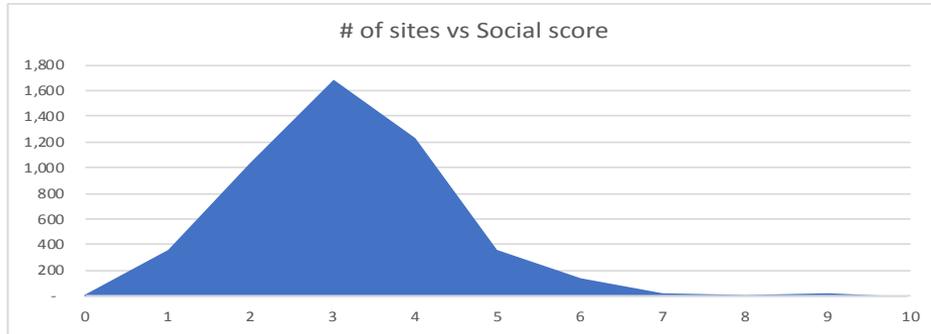


Average WASH vulnerability scores													
Governorate	Total	Water	Sanitation	Environment	Solid waste	Social	# of sites	% of sites					
South	38.8	12.1	6.9	5.5	10.7	3.6	193	4%					
El_Nabatieh	38.8	8.3	9.4	7.0	11.2	3.0	71	1%					
North	44.3	18.5	9.2	5.2	7.9	3.5	355	7%					
Mount_Lebanon	47.5	20.6	9.0	5.4	9.2	3.2	238	5%					
Akkar	48.4	18.4	10.9	5.7	10.4	3.1	958	20%					
Bekaa	48.9	20.8	9.9	5.8	9.3	3.1	1,617	33%					
Baalbek_El_Hermel	50.2	20.1	10.7	5.7	10.8	2.9	1,410	29%					
Beirut	53.2	27.0	5.8	11.8	6.0	2.7	1	0%					
National	48.2	19.4	10.1	5.7	9.9	3.1	4,843	100%					
Maximum	100.0	30.0	25.0	19.0	16.0	10.0							

NB: Beirut governorate has only one site giving it the highest governorate WASH vulnerability score of 53.2.



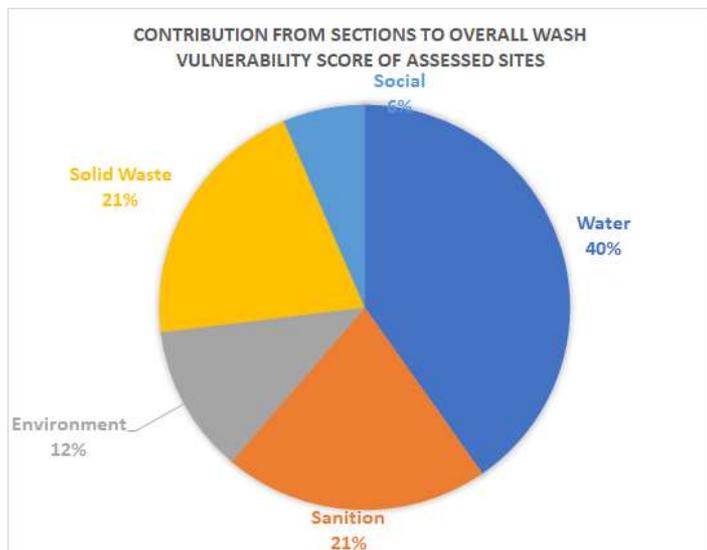
2. Baseline analysis – WASH Vulnerability Scores





2. Baseline analysis – WASH Vulnerability Scores

WASH vulnerability of site	Quintile	#sites	# households	# individuals	Min Score	Max Score
Severe	1	975	12,170	66,064	60.1	86.6
High	2	971	14,889	77,282	53.0	60.1
Moderate	3	973	13,847	74,036	45.4	53.0
Low	4	975	10,705	52,851	35.3	45.4
Very low	5	973	8,803	43,784	9.6	35.2
Totals		4,867	60,414	314,017	9.6	86.6



of sites per governorate per WASH vulnerability category

WASH vulnerability	Severe	High	Moderate	Low	Very low	Totals
Quintile	1	2	3	4	5	
Baalbek_El_Hermel	314	320	306	260	210	1,410
Bekaa	277	374	381	333	252	1,617
Akkar	249	148	151	193	219	960
North	50	66	54	80	106	356
Mount_Lebanon	42	41	52	55	48	238
South	37	16	22	40	99	214
El_Nabatieh	6	5	7	14	39	71
Totals	975	970	973	975	973	4,866



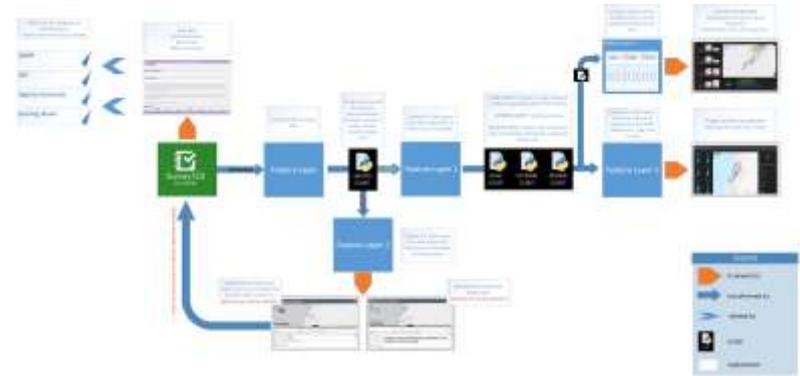
3. Development Update

- Errors and data limitations were noted where relevant;
- Recommendations were made;
 - ✓ It is crucial to ensure the data received is accurate and verified;
 - ✓ Process is streamlined and automated;
 - ✓ Monitoring and evaluation; etc..



3. Development Update – specialty

- Errors are almost non-existent
- If any errors (detected using special dashboard)
- Logical relationship between fields
- Synchronized (related to each other) in all directions.
- More operational dashboards
- Trends and analysis



```

spacial_ref = query_result.spatial_reference
features_for_update = []

for feat in query_dict['features']:
    entry = feat['attributes']
    objectid = entry['objectid']

    original_feature = [f for f in all_features if f.attributes['objectid'] == objectid]
    feature_to_be_updated = deepcopy(original_feature)

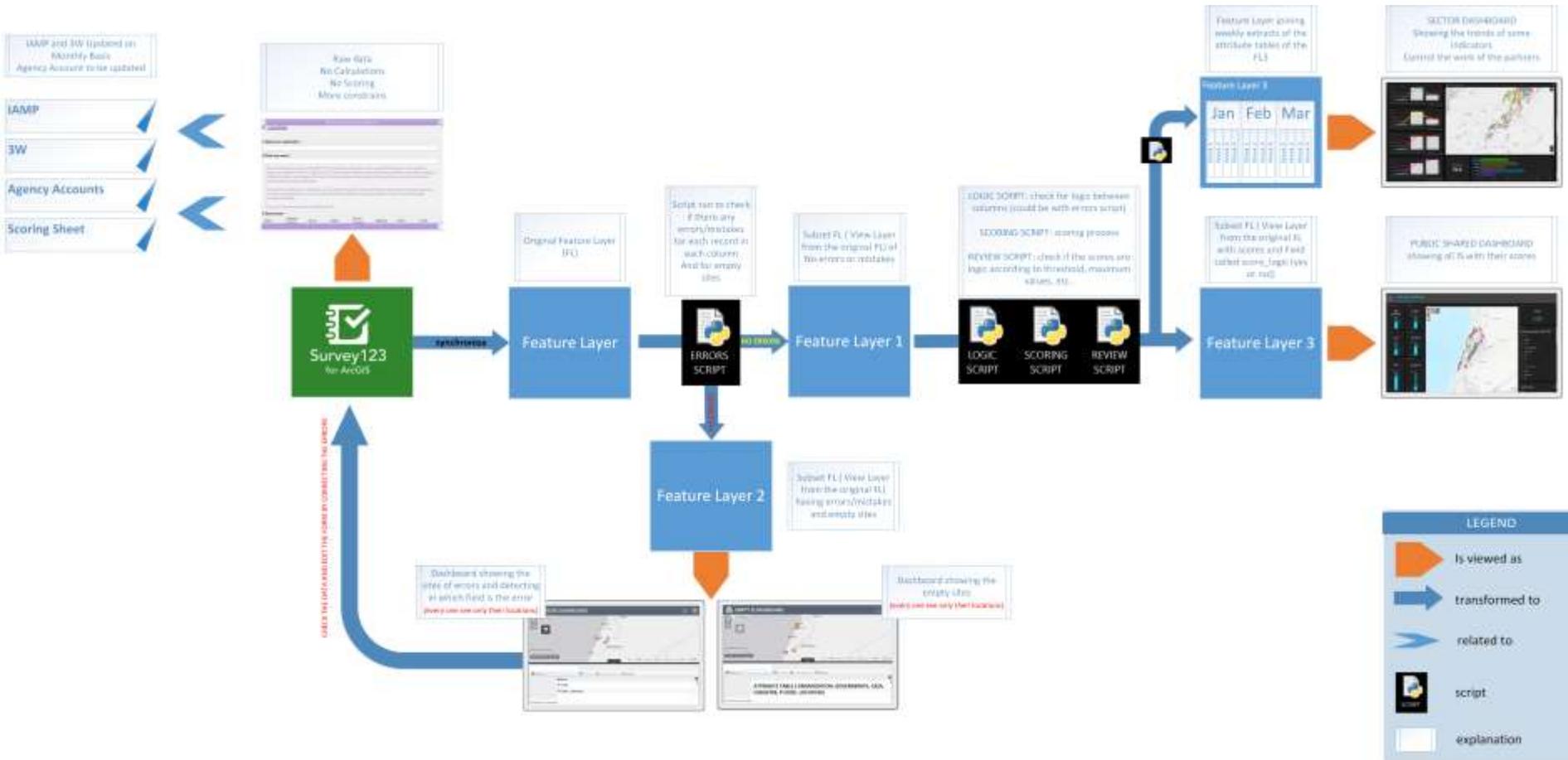
    female_hh = entry['What_is_the_number_of_female-headed_households']
    assert(type(female_hh) is int)

    total_hh = entry['TotalHouseholds']
    assert(type(total_hh) is int)

    score = float(female_hh)/float(total_hh)
    if score > 40:
        score = 100
    else:
        score = (score/float(40)) * 100
    score*=float(0.75)

    print(score)

    feature_to_be_updated.attributes['Female_headed_score'] = score
    
```



IAMP and 3W updated on Monthly basis
Agency Accounts to be updated

IAMP

3W

Agency Accounts

Scoring Sheet

Raw Data
No Calculations
No Sorting
More constraints



Original Feature Layer (FL)

Feature Layer

Script run to check if there are any errors/mistakes for each record in each column. Alert for empty sites.

ERRORS SCRIPT

Subset FL (View Layer from the original FL) if no errors/mistakes

Feature Layer 1

EDGE SCRIPT: check for logic between columns (could be with errors script)

SCORING SCRIPT: scoring process

REVIEW SCRIPT: check if the scores are high according to threshold, maximum scores, etc.

LOGIC SCRIPT

SCORING SCRIPT

REVIEW SCRIPT

Subset FL (View Layer from the original FL with scores and Field called score_logic_high or not)

Feature Layer 3

Feature Layer using weekly extracts of the attribute tables of the FL3

Feature Layer 3

Jan Feb Mar

SECTOR DASHBOARD
Showing the trends of some indicators
Control the work of the partners

PUBLIC SHARED DASHBOARD
Showing of FL3 with their scores

CHECK THE DASHBOARD LISTING THE CASES BY CORRECTING THE ERRORS

Dashboard showing the sites of errors and detecting at which field is the error (every case can see only their locations)

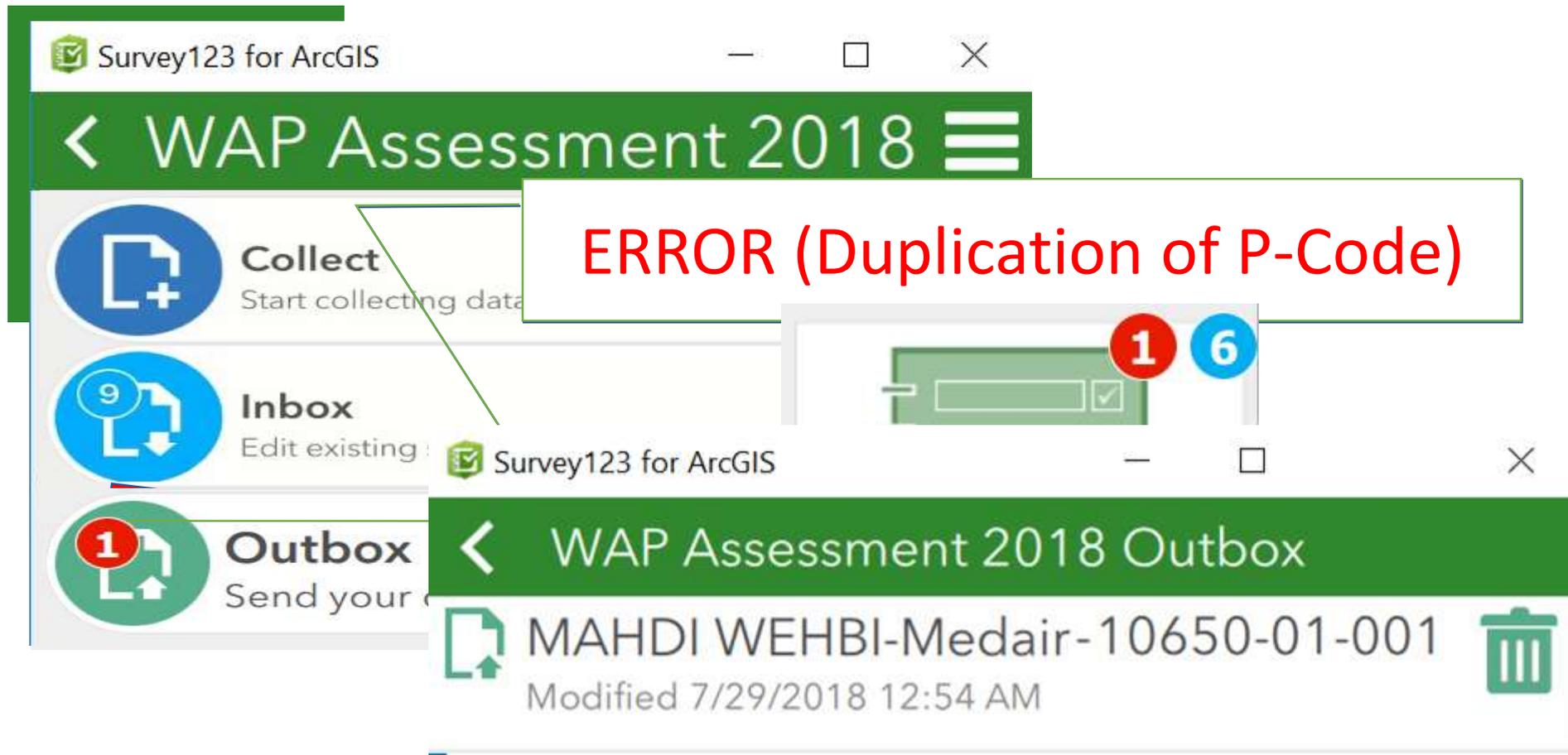


Dashboard showing the empty sites (every case can see only their locations)



4. WAP tool – (Survey 123)

- WAP survey 123 has been finalized and uploaded on arcgis online. It has been shared for testing.



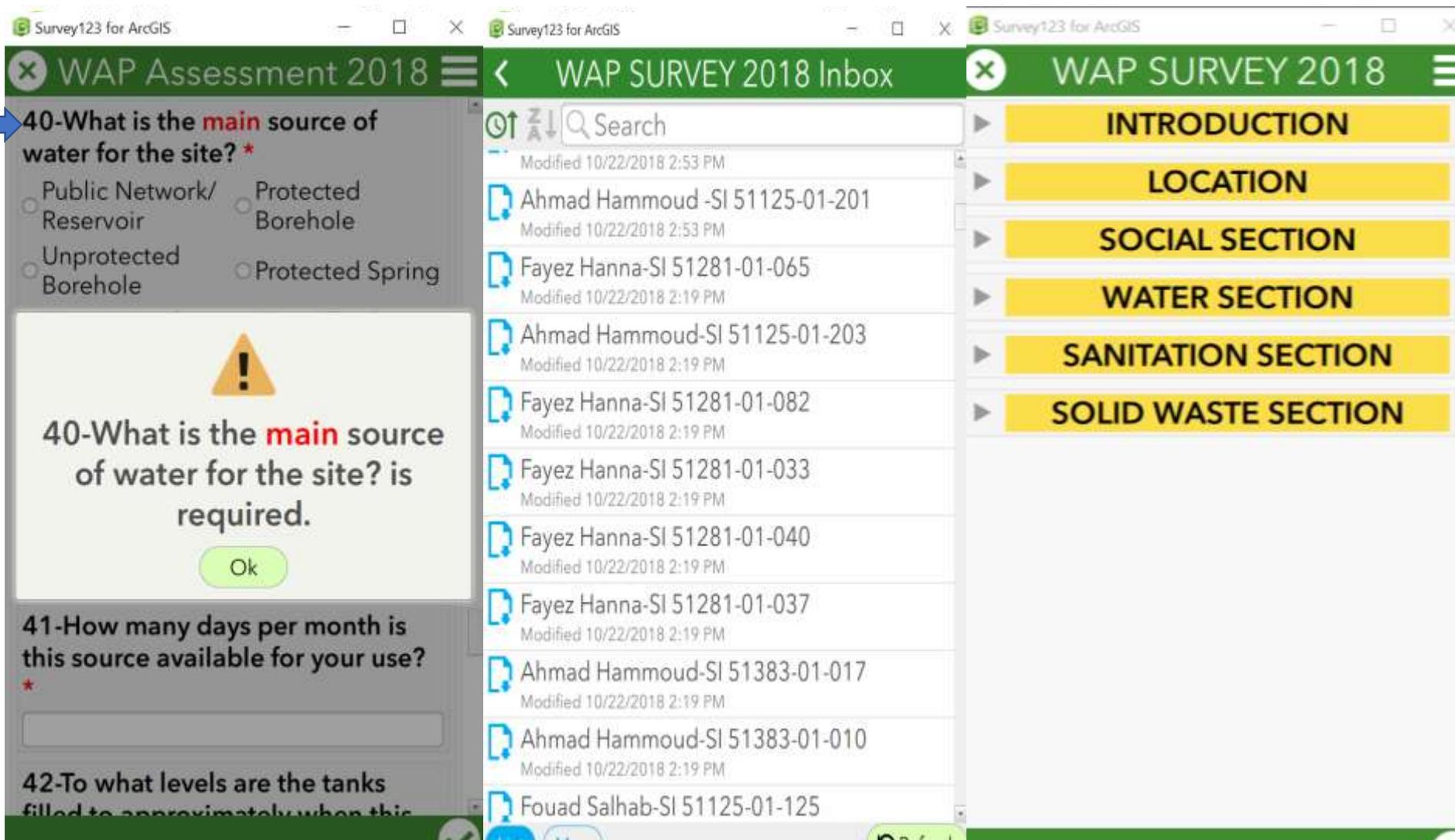
The screenshot displays the Survey123 for ArcGIS mobile application interface. At the top, a window title bar reads "Survey123 for ArcGIS". Below it is a green header bar with a back arrow, the text "WAP Assessment 2018", and a menu icon. A sidebar on the left contains three main options: "Collect" (Start collecting data), "Inbox" (Edit existing), and "Outbox" (Send your). The "Outbox" option has a red notification bubble with the number "1".

A secondary window is overlaid on the "Outbox" section, titled "WAP Assessment 2018 Outbox". It lists a survey item: "MAHDI WEHBI-Medair-10650-01-001" with a trash icon to its right. Below the item name, it says "Modified 7/29/2018 12:54 AM". A red notification bubble with the number "1" is positioned above the survey item name. To the right of the survey item name, there are two circular notification bubbles: a red one with "1" and a blue one with "6".

A red text box with a white border is overlaid on the interface, containing the text "ERROR (Duplication of P-Code)". A green arrow points from this text box to the "Outbox" section of the application.



4. WAP tool – (Survey 123)



The screenshot displays the Survey123 for ArcGIS interface with three overlapping windows:

- Left Window (WAP Assessment 2018):** Shows a survey question: "40-What is the **main** source of water for the site? *". The options are:
 - Public Network/Reservoir
 - Unprotected Borehole
 - Protected Borehole
 - Protected Spring
 Below the question is a warning message: "40-What is the **main** source of water for the site? is required." with an "Ok" button.
- Middle Window (WAP SURVEY 2018 Inbox):** Shows a list of survey entries with a search bar and sort options.

Name	SI ID	Modified
Ahmad Hammoud	SI 51125-01-201	Modified 10/22/2018 2:53 PM
Fayez Hanna	SI 51281-01-065	Modified 10/22/2018 2:19 PM
Ahmad Hammoud	SI 51125-01-203	Modified 10/22/2018 2:19 PM
Fayez Hanna	SI 51281-01-082	Modified 10/22/2018 2:19 PM
Fayez Hanna	SI 51281-01-033	Modified 10/22/2018 2:19 PM
Fayez Hanna	SI 51281-01-040	Modified 10/22/2018 2:19 PM
Fayez Hanna	SI 51281-01-037	Modified 10/22/2018 2:19 PM
Ahmad Hammoud	SI 51383-01-017	Modified 10/22/2018 2:19 PM
Ahmad Hammoud	SI 51383-01-010	Modified 10/22/2018 2:19 PM
Fouad Salhab	SI 51125-01-125	
- Right Window (WAP SURVEY 2018):** Shows a table of contents with yellow buttons for each section:
 - INTRODUCTION
 - LOCATION
 - SOCIAL SECTION
 - WATER SECTION
 - SANITATION SECTION
 - SOLID WASTE SECTION



4. WAP tool – (Error detecting, constrains and logics)

- Errors detected including logics has been solved in survey 123 form using constrains and regex.
- Error detecting script to double-check the errors in arcgis online.

Example:

Do you have water Quality tests ? Yes, No

If yes, please enter the figures.

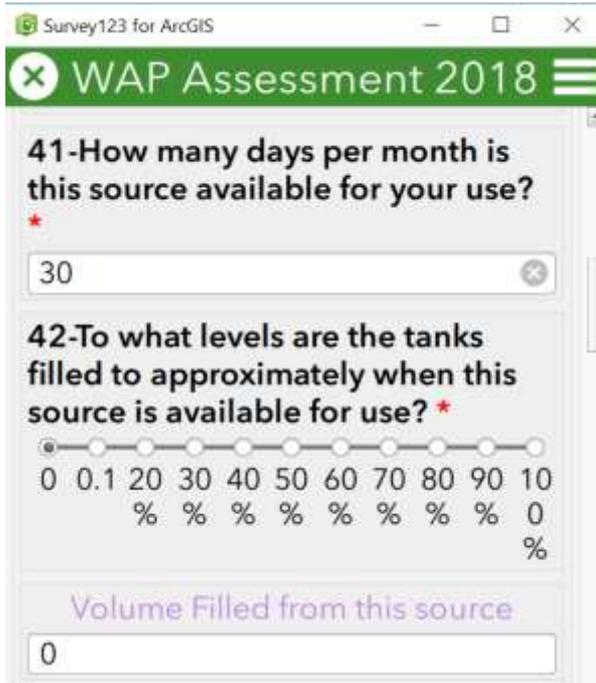
☺ Validated using Survey 123

☹ Not Validated if changed on the server



4. WAP tool – (Scoring script)

- “scoring script” including mathematical error detecting and recalculation of Fields



Survey123 for ArcGIS

WAP Assessment 2018

41-How many days per month is this source available for your use? *

30

42-To what levels are the tanks filled to approximately when this source is available for use? *

0 0.1 20 30 40 50 60 70 80 90 100

% % % % % % % % % %

Volume Filled from this source

0

- Volume Filled from this source
- To what level * Total Volume
- Change from 0 to 50%
- No need to change the result (Volume filled...)
- ✓ Recalculated by the script
- Total Volume Solid Bins
- $\text{How_many_1200L_bins} * 1200 + 1000L * 1000 + \text{etc...}$
- Distributing additional bins for the site
- No need to change the result (Total Bins)
- ✓ Recalculated by the script



1. WAP tool – (external data)

- Survey 123 now is related to external files
 - ✓ IAMP file
 - ✓ 3W file
 - ✓ HCMT

	A	B	C	D	E	G	H	I	J	K
1	Pcode	Pcode_Name	Governorate	District	Cadaster	Agency	Donor	Funded_until		
2	10650-01-001	Achrafieh foncière 001	Beirut	Beirut	Achrafieh foncière	BLANK	BLANK	BLANK		
3	21133-01-001	Furn Ech-Chebbak 001	Mount Lebanon	Baabda	Furn Ech-Chebbak	BLANK	BLANK	BLANK		
4	21133-01-002	Furn Ech-Chebbak 002	Mount Lebanon	Baabda	Furn Ech-Chebbak	BLANK	BLANK	BLANK		
5	21211-01-001	Baabda 001	Mount Lebanon	Baabda	Baabda	BLANK	BLANK	BLANK		
6	21394-01-001	Salima Baabda 001	Mount Lebanon	Baabda	Salima Baabda	BLANK	BLANK	BLANK		
7	22111-01-001	Bourj Hammoud 001	Mount Lebanon	El Metn	Bourj Hammoud	BLANK	BLANK	BLANK		
8	22111-01-002	Bourj Hammoud 002	Mount Lebanon	El Metn	Bourj Hammoud	BLANK	BLANK	BLANK		
9	22155-01-001	Sinn El-Fil 001	Mount Lebanon	El Metn	Sinn El-Fil	BLANK	BLANK	BLANK		
10	22335-01-001	Naqqach 001	Mount Lebanon	El Metn	Naqqach	BLANK	BLANK	BLANK		
11	22335-01-002	Naqqach 002	Mount Lebanon	El Metn	Naqqach	BLANK	BLANK	BLANK		
12	22423-01-001	Aain Saadé 001	Mount Lebanon	El Metn	Aain Saadé	BLANK	BLANK	BLANK		

4. WAP tool – (monitoring and evaluation)

- MEWAP team (Monitoring and Evaluation)
- MEWAP team were given advanced
- Each member representing an agency
- Each Agency is being monitored by t













MEWAP Field Reports
Weekly report

Date/time	10.Oct.2018
Governorate	South, Baalbeck-Hermel, North, Bekaa, Akkar
Monitored Agencies	DPNA, GVC, Leb-Relief, LRC, Medair, NRC, Oxfam, SI

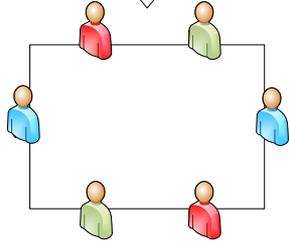
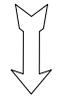
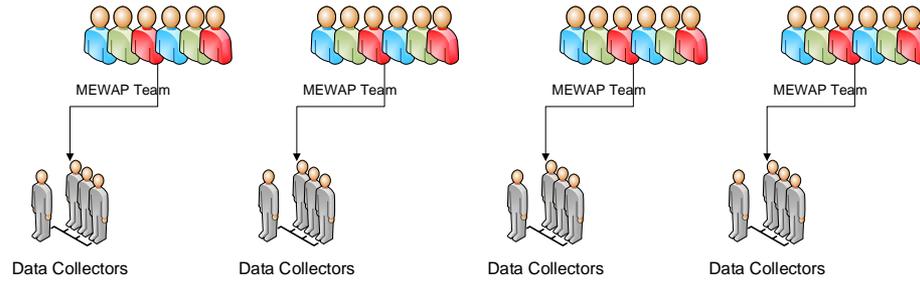
1. Survey 123: Numerators are filling the form in correct manner

Agency	Yes	No, Small mistakes, corrected directly
DPNA	X	
GVC	X	
Leb-Relief		X
LRC	X	
Medair	X	
NRC	X	
Oxfam	X	
SI	X	
MC	X	
WVI		X

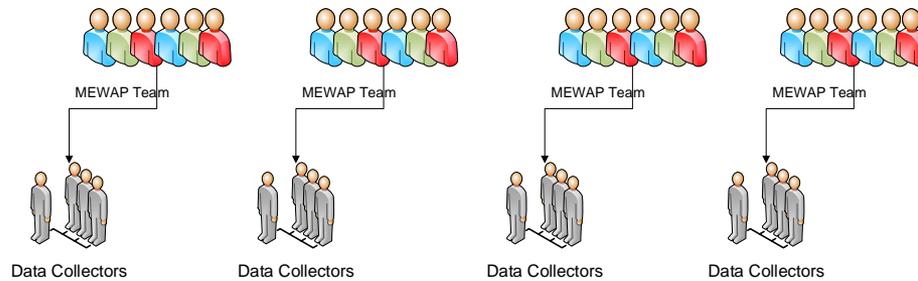
If No. Type of mistakes:

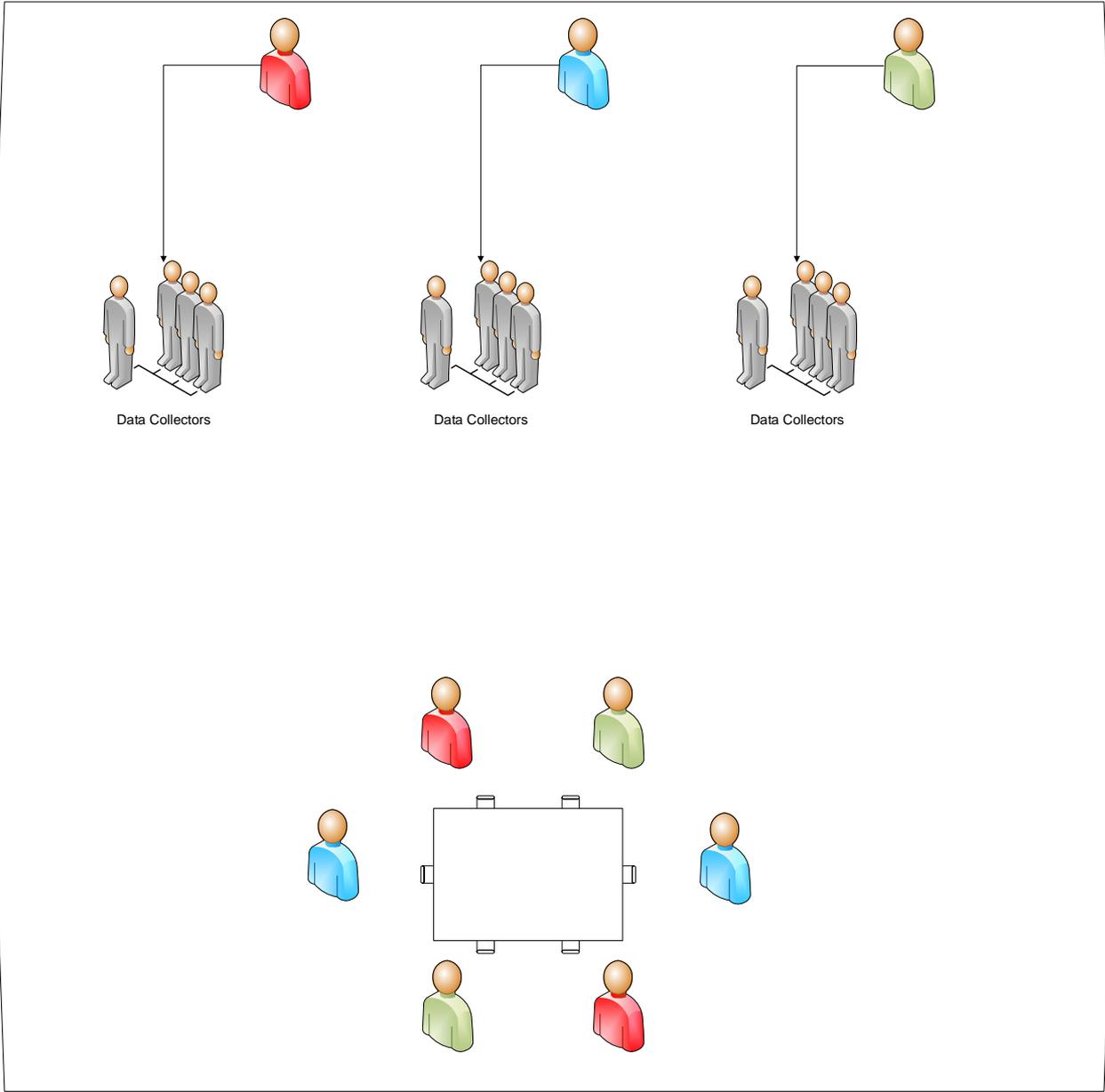
Agency	Mistakes
DPNA	
GVC	
Leb-Relief	- Some sites were not visually observed. - The enumerator didn't know how to check for the grey water system - Regarding "How many Children" the enumerator didn't specify (be...) - Poor knowledge concerning type of Black water system (SI uses Sc... tanks system)
LRC	
Medair	
NRC	
Oxfam	
SI	
MC	
WVI	- In Talia 009: In question # 58 "when desludging trucks cannot acc...

1st Visit: Monitor and validate the numerator's work



2nd Visit: re-assess some sites







4. WAP tool – (Dashboards)

Partners

- [Partners Dashboard](#) (WaSH, IM, GIS)
- [Gaps finder Dashboard](#) (WAP focal points)
- Error Detecting Dashboard (pending..) (MEWAP and WAP focal points)
- MEWAP Dashboard (temporary) (MEWAP focal points)

IAMP

- [IAMP reporting Dashboard](#) (pending..) (IAMP team) – [Status.xls](#)

Public

- [WAP Public Dashboard](#)
- Trends Dashboard (pending..)



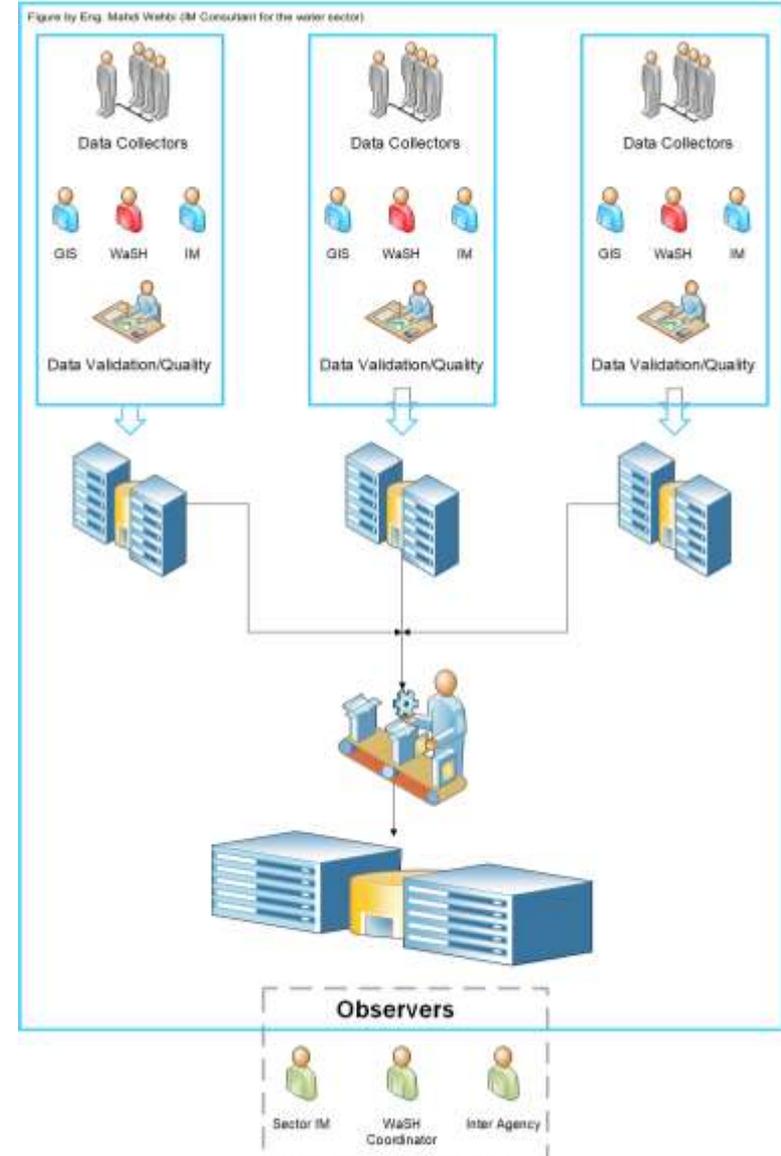
4. WAP tool – (Handover sites)

- Simple tool in [Partners Dashboard](#)
- Validated by partners through 3W file
- Validated by Water Sector IM
- DONE !



4. WAP tool – (assessment)

- ❑ Summary of WAP process starting from data collection.
- ❑ Parties involved and the process of assessment.
- ❑ 2nd assessment starts on 17 of September and will end on 12 of December.
- ❑ Updating should be done on activity-basis. (Deadline for updating data and extraction - 6month)





4. WAP tool – (workplan)

2018



SEPTEMBER						
S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

OCTOBER						
S	M	T	W	T	F	S
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

NOVEMBER						
S	M	T	W	T	F	S
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

DECEMBER						
S	M	T	W	T	F	S
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Legend	
	WAP Assessment 2018
	MEWAP Field Visit
	MEWAP Reporting
	WAP Analysis
	Data Review
	MEWAP Coordination meeting
	1st WAP Extraction
	2nd WAP Extraction

2019

JANUARY						
S	M	T	W	T	F	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

FEBRUARY						
S	M	T	W	T	F	S
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	1	2
3	4	5	6	7	8	9

MARCH						
S	M	T	W	T	F	S
24	25	26	27	28	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

APRIL						
S	M	T	W	T	F	S
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Holidays and Observances	
1-Jan	New Year
9-Feb	St Maron's Day
9-Mar	Teachers' Day
21-Mar	Mother's Day
25-Mar	Feast of the Annunciation
19-Apr	Good Friday
21-Apr	Easter Sunday
22-Apr	Easter Monday
26-Apr	Orthodox Good Friday
28-Apr	Orthodox Easter Day
1-May	Worker's Day
6-May	Martyr's Day
25-May	Liberation and Resistance Day
30-May	Ascension Day
12-Aug	Eid al-Adha
15-Aug	Feast of the Assumption
1-Sep	Muharram
8-Sep	Nativity of Mary
9-Sep	First Day of Ashura
1-Nov	All Saints' Day
10-Nov	The Prophet's Birthday
22-Nov	Independence Day
25-Dec	Christmas Day

MAY						
S	M	T	W	T	F	S
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

JUNE						
S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

JULY						
S	M	T	W	T	F	S
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

AUGUST						
S	M	T	W	T	F	S
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

SEPTEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

OCTOBER						
S	M	T	W	T	F	S
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

NOVEMBER						
S	M	T	W	T	F	S
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

DECEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Dates are subject to change



Inter-Agency
Coordination
Lebanon



THANK YOU! Q&A

“The value of information management is never for its own sake, but to provide insight and make a leap of innovation.”

Pearl Zhu

“Water is the driving force of all nature”

Leonardo da Vinci

