

INFORMATION MANAGEMENT

Advocacy & PR Officer

Molu Bulu



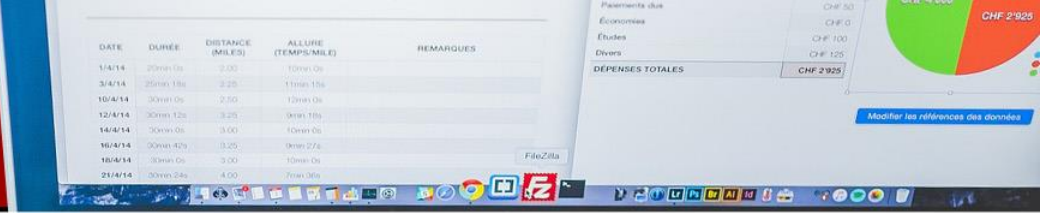
Overview of Presentation



The Presentation includes the following:

1. The Role of Information Management
2. What System Facilitates this roles:
 - I. Part A – Data Collection
 - II. Part B - Data Storage and Monitoring (database)
 - III. Part C – Analysis & Reporting (dashboards/ websites)
 - IV. Part D - Taking Action for Results
3. Information System Overview
4. Summary

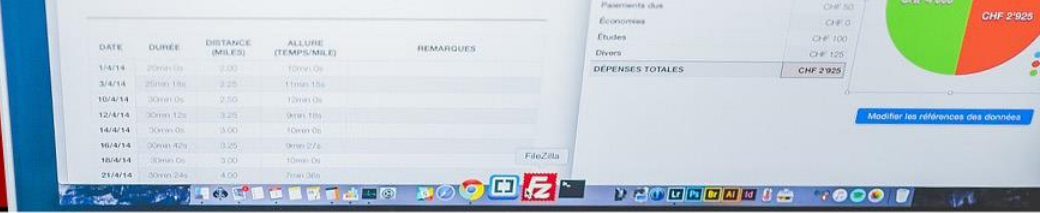
The Role of Information Management



- Ensure all Department of Water **database is functioning**
- Check **quality of data** submitted and edit where necessary
- Ensure all **websites / dashboards** up to date and **accessible**
- Create **back-ups** and **archives** of all database and work files
- Create ready to be used data into **awareness materials**

What System Facilitates these Roles?

Part A – Data Collection (Web Forms)



Drinking Water Quality Data Submission
Please enter data for drinking water quality tests conducted in Vanuatu
If you do not have information for any of the boxes, please just leave it blank

General Information

Sample ID

Sample Site ID
(Institutional Supply 01 - Port Vila)

Sample Site Name
Maximum of 50 characters. Currently used: 0 characters.

Area Council

Island

Province

Date
DD MM YYYY

LOCATION


Latitude of sample site (Please use Decimal Degrees DD)

Longitude of sample site (Please use Decimal Degrees DD)

Elevation of sample site (m)

[Show some of sources for available data/min](#)

Community Drinking Water Safety & Security Plan (DWSSP) Participant's Guide



Community Details

Village Name	
Area Council / Island	
No of Households	
Village Population	
Village Contact Person	
Revision No:	Date:

Record New Project
Record new project information information below and submit.

1. GENERAL/WHEN

Project Code

Project Description

Start Date

Status

Project Proposal No file chosen

Water Committee Registration Form Vanuatu
Please use this form to complete water committee registration for a community in Vanuatu

General Information

System Name (Community/School)

Area Council

Island

Province

Date of Submission
MM DD YYYY

By registering as a water committee, this will allow you to request assistance from the government in improving your water supply. This requires creating a Drinking Water Safety and Security Plan (DWSSP) for your community. Would you like to request some assistance in creating a DWSSP for your community supply? (Please answer YES if you would like some assistance)
☐ Yes ☒ No

If you have answered YES above, please write the name of the committee member below who we should contact to organise this assistance

Please click the check box to indicate you have permission to share personal details of committee members. If you need more information on this please contact the department of water.
☐ I have checked and agree

Representation on committee
Please list below the amount of men and women that are on your water committee
IMPORTANT: To receive support from government women must make up at least 40% of the water committee.

Water Resource Information & Location

Submission Date 01/01/2012 Submitter Name lency moli

Province

Area Council

Population

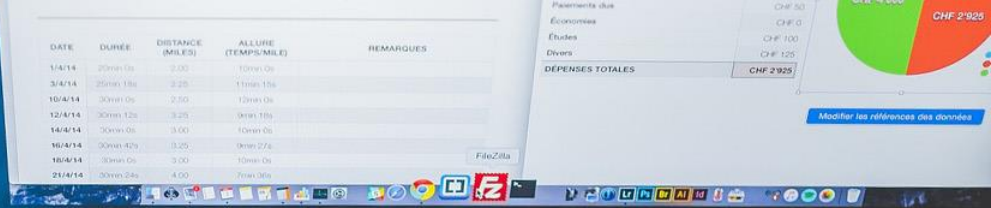
Latitude

[Refresh Coordinates on Map / Edit](#)

What roles are associated with this?

- Data collection
- Assist community

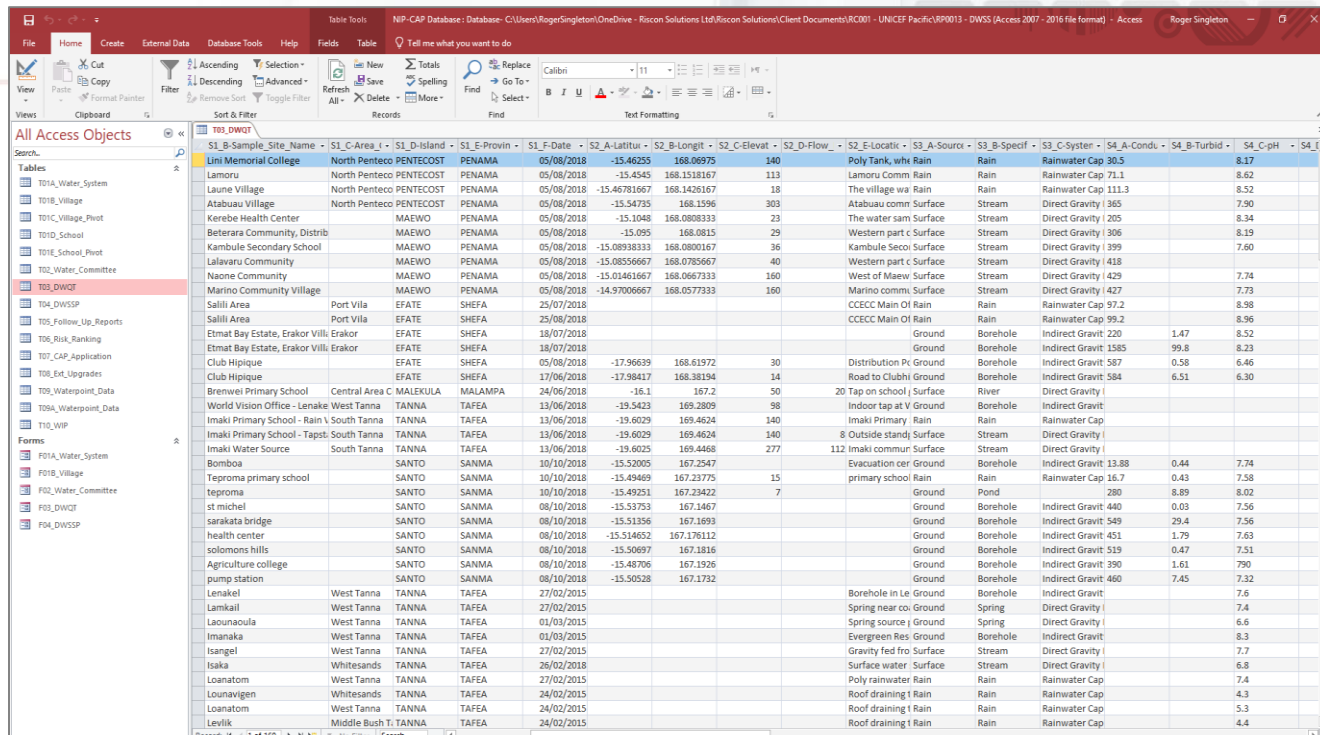
Data Collection (Forms)



Form Name	Physical Document	Description
<u>01.</u> Water System Registration	Not yet written	Registration of community water system based on the WRI (<u>Water Resources Inventory</u>)
<u>02.</u> Water Committee Registration	N/A	<u>Currently LIVE FORM (Click to view)</u> Registration of community water committee
<u>03.</u> Drinking Water Quality Submission	N/A	<u>(Currently LIVE FORM (Click to view))</u> Registration of drinking water quality data
<u>04.</u> Drinking Water Safety and Security Plan (DWSSP)	DWSSP Word Template	<p>The completed plan from a Drinking Water Safety and Security Planning (DWSSP) training</p> <p>At present this form is submitted via (<u>Fastfield forms (Click to view)</u>) with information sent to SQL server and an EDITABLE word copy to Google Drive.</p> <p>Action Required: To identify how contractors can update submitted DWSSPs after submission, possibly via Google Drive.</p>

What System Facilitates these Roles?

Part B – Data Storage & Monitoring (Database)



SI_S-Sample_Site_Name	SI_C-Area_1	SI_D-Island	SI_E-Province	SI_F-Date	SI_G-A_Latitue	SI_H-Longit	SI_I-Elevat	SI_J-Flow	SI_K-Locatit	SI_L-Source	SI_M-Specif	SI_N-System	SI_O-Condu	SI_P-Turbid	SI_Q-pH	SI_R
Uni Memorial College	North Pentecost	PENTECOST	PENAMA	05/08/2018	-15.46255	168.0975	140		Poly Tank wth Rain	Rain	Rainwater Cap	30.5				8.17
Lamoru	North Pentecost	PENTECOST	PENAMA	05/08/2018	-15.4545	168.1318167	113		Lamoru Comm Rain	Rain	Rainwater Cap	71.1				8.62
Laune Village	North Pentecost	PENTECOST	PENAMA	05/08/2018	-15.46781667	168.1426167	18		The village wa Rain	Rain	Rainwater Cap	111.3				8.52
Atabau Village	North Pentecost	PENTECOST	PENAMA	05/08/2018	-15.54735	168.1596	303		Atabau comm Surface	Stream	Direct Gravity	365				7.90
Kerebe Health Center	MAEWO	PENAMA	05/08/2018	-15.1048	168.0803333	23			The water sam Surface	Stream	Direct Gravity	1205				8.34
Beterara Community, Distrib	MAEWO	PENAMA	05/08/2018	-15.095	168.0815	29			Western part c Surface	Stream	Direct Gravity	1306				8.19
Kambule Secondary School	MAEWO	PENAMA	05/08/2018	-15.08938333	168.0800167	36			Kambule Secoi Surface	Stream	Direct Gravity	1399				7.60
Lalavaru Community	MAEWO	PENAMA	05/08/2018	-15.0856667	168.0785667	40			Western part c Surface	Stream	Direct Gravity	1418				
Naone Community	MAEWO	PENAMA	05/08/2018	-15.01461667	168.0667333	160			West of Maeww Surface	Stream	Direct Gravity	1429				7.74
Marino Community Village	MAEWO	PENAMA	05/08/2018	-14.97066667	168.0577333	160			Marino comm Surface	Stream	Direct Gravity	1427				7.73
Salili Area	Port Vila	EFATE	SHEFA	25/07/2018					CECEC Main Of Rain	Rain	Rainwater Cap	97.2				8.58
Salili Area	Port Vila	EFATE	SHEFA	25/08/2018					CECEC Main Of Rain	Rain	Rainwater Cap	99.2				8.56
Etmat Bay Estate, Erakor Vill, Erakor	EFATE	SHEFA	18/07/2018							Ground	Borehole	Indirect Gravit	220			1.47
Etmat Bay Estate, Erakor Vill, Erakor	EFATE	SHEFA	18/07/2018							Ground	Borehole	Indirect Gravit	1585			99.8
Club Hipique	EFATE	SHEFA	05/08/2018	-17.96639	168.61972	30			Distribution Pc Ground	Borehole	Indirect Gravit	587				0.58
Club Hipique	EFATE	SHEFA	17/06/2018	-17.98417	168.38194	14			Road to Clubbi Ground	Borehole	Indirect Gravit	584				6.51
Brenwei Primary School	Central Area	MALEKULA	MALAMPA	24/06/2018	-16.1	167.2	50		20 Tap on school i Surface	River	Direct Gravity					
World Vision Office - Lenake West Tanna	TANNA	TAFEA	13/06/2018	-19.5423	169.2809	98			Indoor tap at V Ground	Borehole	Indirect Gravit					
Imaki Primary School - Rain V South Tanna	TANNA	TAFEA	13/06/2018	-19.6029	169.4624	140			Imaki Primary Rain	Rain	Rainwater Cap					
Imaki Primary School - Tapst: South Tanna	TANNA	TAFEA	13/06/2018	-19.6029	169.4624	140			8 Outside standi Surface	Stream	Direct Gravity					
Imaki Water Source	South Tanna	TANNA	TAFEA	13/06/2018	-19.6025	169.4468	277		112 Imaki commun Surface	Stream	Direct Gravity					
Bombola	SANTO	SANMA	10/10/2018	-15.52005	167.2547				Evacuation cer Ground	Borehole	Indirect Gravit	13.88				0.44
Teproma primary school	SANTO	SANMA	10/10/2018	-15.49469	167.33775				primary school Rain	Rain	Rainwater Cap	16.7				7.58
teproma	SANTO	SANMA	10/10/2018	-15.49251	167.23422	7				Ground	Pond		280			8.89
st michel	SANTO	SANMA	08/10/2018	-15.53753	167.1467					Ground	Borehole	Indirect Gravit	440			0.03
sarakata bridge	SANTO	SANMA	08/10/2018	-15.51356	167.1893					Ground	Borehole	Indirect Gravit	549			29.4
health center	SANTO	SANMA	08/10/2018	-15.514652	167.176112					Ground	Borehole	Indirect Gravit	451			1.79
soloimons hills	SANTO	SANMA	08/10/2018	-15.50697	167.1816					Ground	Borehole	Indirect Gravit	519			0.47
Agriculture college pump station	SANTO	SANMA	08/10/2018	-15.48706	167.1526					Ground	Borehole	Indirect Gravit	390			1.61
Lenakel	West Tanna	TANNA	TAFEA	27/02/2015	-15.50528	167.1732				Ground	Borehole	Indirect Gravit	460			7.45
Lamkail	West Tanna	TANNA	TAFEA	27/02/2015					Borehole in Le Ground	Borehole	Indirect Gravit					7.6
Louaoula	West Tanna	TANNA	TAFEA	01/01/2015					Spring near co Ground	Spring	Direct Gravity					7.4
Imanakai	West Tanna	TANNA	TAFEA	01/03/2015					Spring source i Ground	Spring	Direct Gravity					6.6
Isangel	West Tanna	TANNA	TAFEA	27/02/2015					Evergreen Ras Ground	Borehole	Indirect Gravit					8.3
Isaka	Whitesands	TANNA	TAFEA	26/02/2018					Gravity fed fro Surface	Stream	Direct Gravity					7.7
Loanatom	West Tanna	TANNA	TAFEA	27/02/2015					Surface water Surface	Stream	Direct Gravity					6.8
Lounavigen	Whitesands	TANNA	TAFEA	24/02/2015					Poly rainwater Rain	Rain	Rainwater Cap					7.4
Loanatom	West Tanna	TANNA	TAFEA	24/02/2015					Roof draining i Rain	Rain	Rainwater Cap					4.3
Levlik	Middle Bush T. TANNA	TANNA	TAFEA	24/02/2015					Roof draining i Rain	Rain	Rainwater Cap					5.3
									Roof draining i Rain	Rain	Rainwater Cap					4.4

What roles are associated with this?

- Database functioning
- Data quality
- Community risk ranking
- Maintain accessibility

Data Storage (Database)

NIP-CAP Database : Databases Currently presenting GIVE CONTROL

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Sort & Filter Ascending Descending Remove Sort Advanced Toggle Filter Refresh All Delete Records Find Replace Go To Select Find Text Formatting

All Access Obj... << F01A_Water_System

Search...

Forms

- X_T2_Water_Committee
- X_T3_DWSSP
- X_T4_DWQT
- X_T6_Risk_Ranking
- F01A_Water_System
- F01A_Water_System(Edit)
- F01A_Water_System(New)
- F01B_Village
- F02_Water_Committee
- F03_DWQT
- F04_DWSSP
- F05_Follow-Up
- T01A_DWQT_Water_System...
- T01A_DWSSP_Water_Syste...
- T02_Water_Committee subfo...

Modules

- Class1
- Module1

Form 01 Water System

System Name: WS_Avoliui Water Resource Type: [Dropdown]

System Identifier: 6 Water System Type: [Dropdown]

Area Council: North Pentecost Improved: [Dropdown]

Island: PENTECOST Functionality: [Dropdown]

Province: PENAMA Number of Users: 0

System Latitude: -15.566632 Year of Installation: 0

System Longitude: 168.157688

Elevation: [Dropdown]

Search

New Record

Edit Record

Next

Previous

Refresh

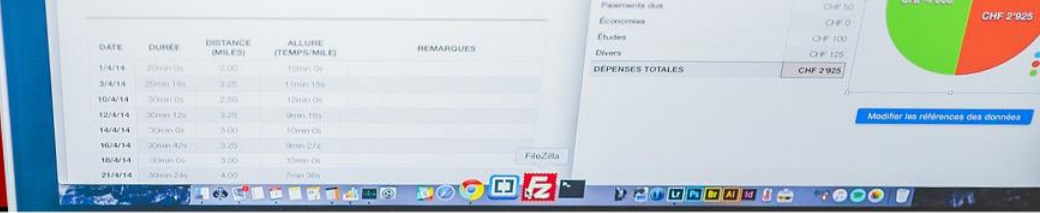
WP_ID	Waterpoint_Name	Water_Resource	Water_System_Typ	Latitude	Longitude	Elevation	Source
1	Avoliui - Spring - Leonard Gogorai	Spring	Unprotected Spring	-15.568823	168.154005	214.1	https://akvoflow-39.s3

Record: 14 of 9 No Filter Search

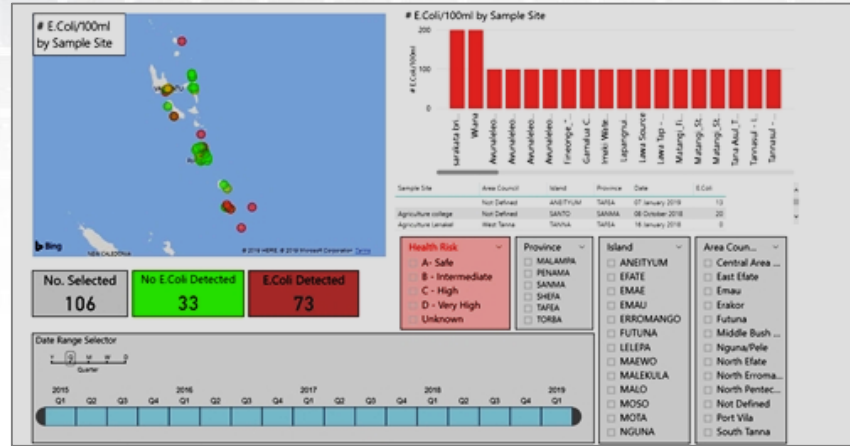
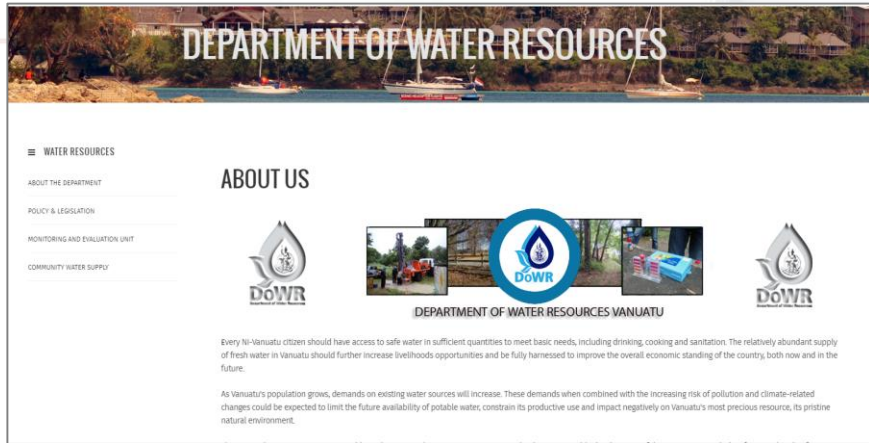
Form View

Num Lock

What System Facilitates these Roles?



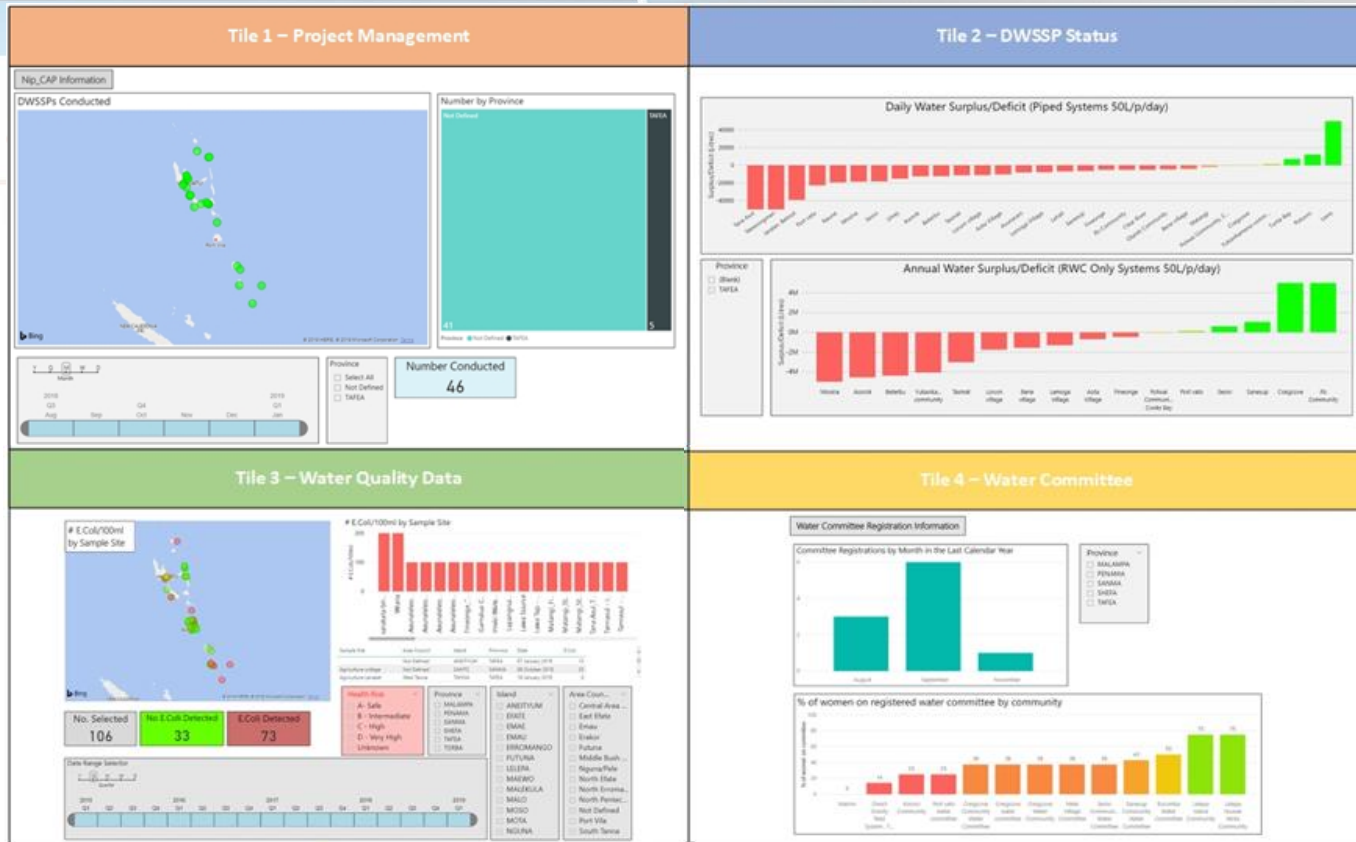
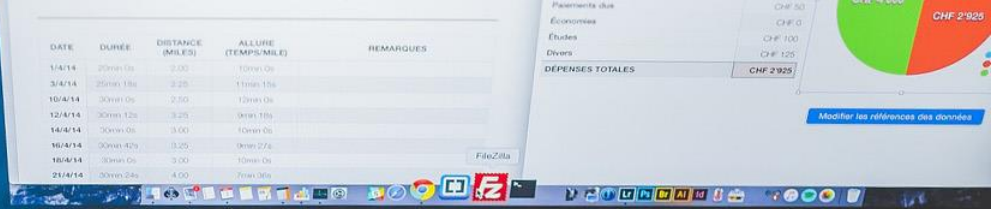
Part C – Analysis and Reporting (Dashboard / Website)



What roles are associated with this?

- Make decisions
- Check information
- Allocate resource

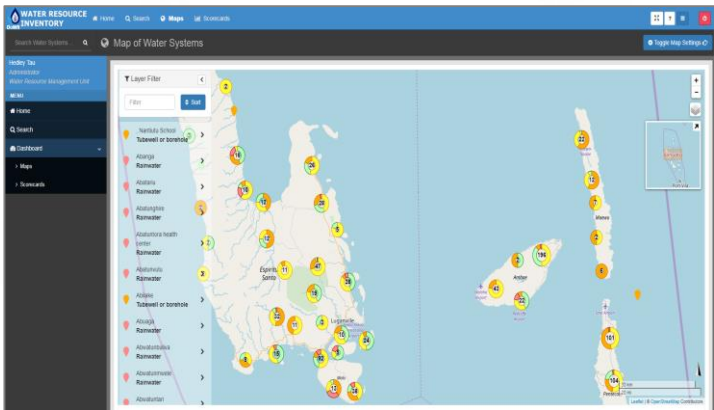
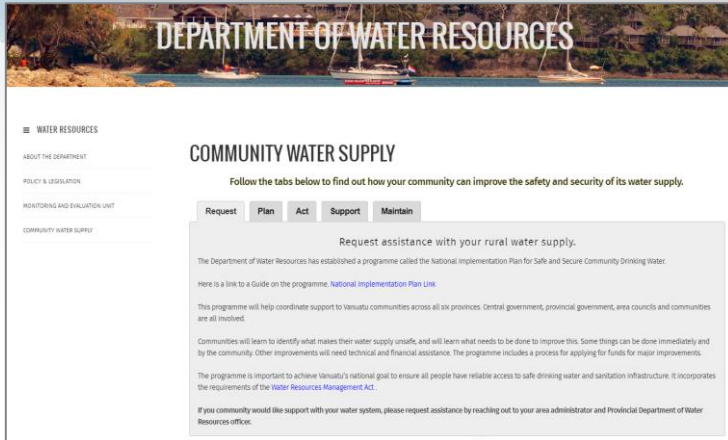
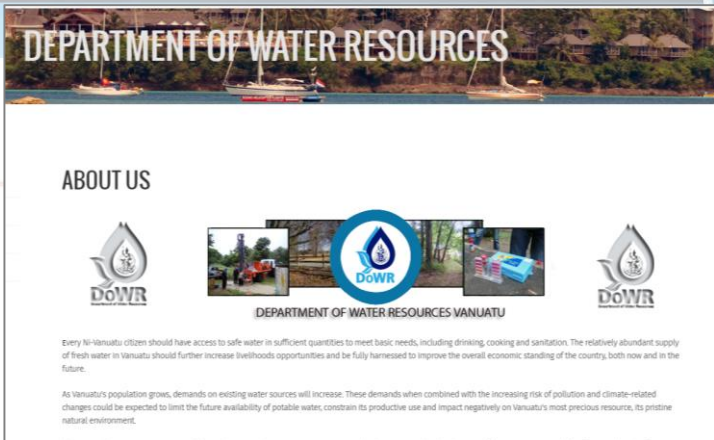
Analysis and Reporting (Dashboard)



Analysis and Reporting (Website)

The screenshot shows a web application interface. On the left is a sidebar with navigation links: 'Accueil', 'Tableau de bord', 'Gestion des utilisateurs', 'Gestion des voyages', 'Gestion des dépenses', 'Gestion des factures', 'Gestion des documents', 'Gestion des paramètres', and 'Gestion des logs'. The main content area displays a table with the following columns: DATE, DURÉE, DISTANCE (MILES), ALLURE (TEMPS/MILE), and REMARQUES. The table contains 8 rows of data. To the right of the table is a sidebar with a list of 'Paiements dus' (CHF 50), 'Economies' (CHF 0), 'Etudes' (CHF 100), and 'Divers' (CHF 125). Below this is a 'Dépenses Totales' section showing 'CHF 2'925'. On the far right is a pie chart with a green segment (CHF 2'925) and a red segment (CHF 0). A button labeled 'Modifier les références des données' is located below the pie chart. At the bottom of the screen is a Windows taskbar with various application icons.

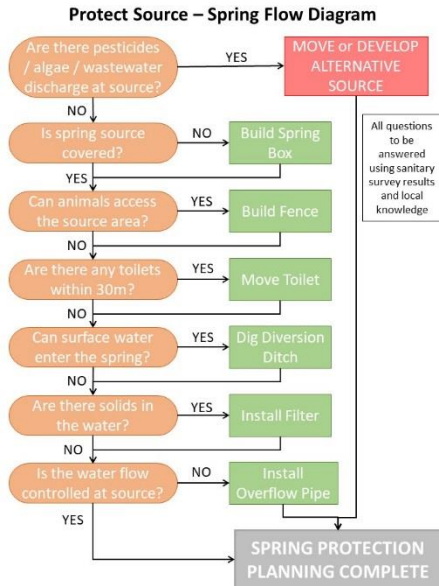
DATE	DURÉE	DISTANCE (MILES)	ALLURE (TEMPS/MILE)	REMARQUES
1/4/14	25min 0s	2.00	10min 0s	
3/4/14	25min 18s	2.25	11min 15s	
10/4/14	30min 0s	2.50	12min 0s	
12/4/14	30min 12s	3.25	9min 15s	
14/4/14	30min 0s	3.00	10min 0s	
16/4/14	30min 42s	3.25	9min 27s	
18/4/14	30min 0s	3.00	10min 0s	
21/4/14	30min 24s	4.00	7min 30s	



What System Facilitates these Roles?



Part D – Taking Action for Results



Parameter	Why outside the limit?	What action to take?
E.Coli	There is contamination from faecal matter somewhere in the system	Conduct a sanitary survey, part of a water safety plan to see if a cause can be found. If cause cannot be found, recommend boiling water as household treatment, or using a less contaminated source for drinking
Total Coliform	Contamination from any bacteria somewhere in the system	
Turbidity	Lots of suspended particles from source, or other sediment in system	If higher than 5 NTU chlorine use may be affected. Recommend storing water to let sediment settle, or choosing alternative inlet for water source.
pH	Low pH indicates acid contamination with high pH from alkaline	pH < 8 for effective chlorination, low pH causes corrosion in pipes, if contaminated look for a cause via a sanitary survey. Generally this is caused by contamination from industry or settlements.
Electrical Conductivity	Closely linked. EC increases with salt water content, TDS goes up with general contaminants in water	For groundwater, aim to monitor over time as it probably indicates saltwater intrusion. If this is the case, need to reduce the amount of water being pumped from the groundwater source.
Total Dissolved Solids		
Res Chlorine	Not enough chlorine in system	Check pH and turbidity. If ok, then increase amount of chlorine in treatment
Fluoride	Naturally occurring in ground rock formations	If above 1.5mg/L report to public health office and track over time. Depending on level and amount source is used, another water source may need to be used.

What roles are associated with this?

- Conduct actions
- Assist and supervise
- Fund Projects

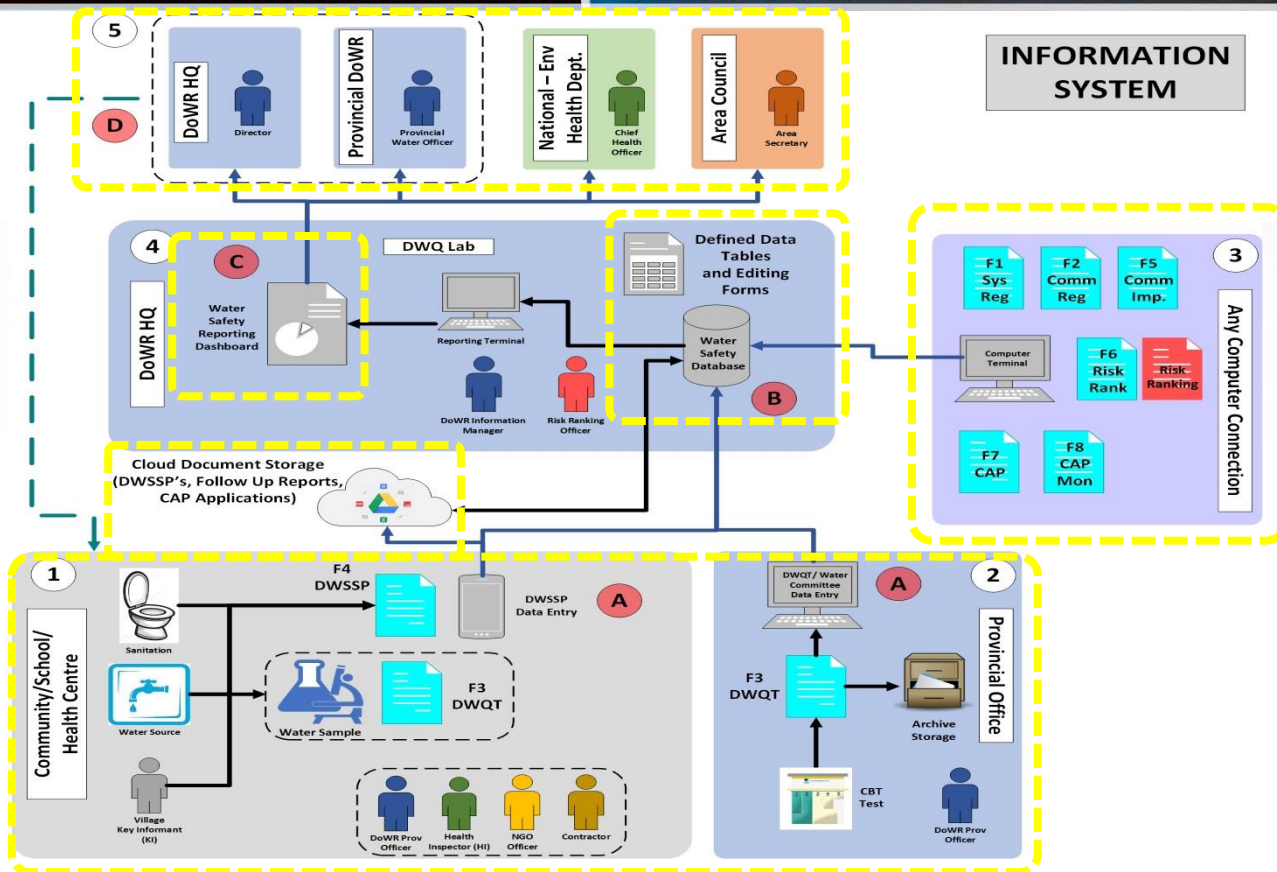
The screenshot shows a web-based application interface. On the left is a sidebar menu with icons for various functions. The main area contains a table with the following data:

DATE	DURÉE	DISTANCE (MILES)	ALLURE (TEMPS/MILE)	REMARQUES
1/1/14	30min 0s	3.25	10min 0s	
3/1/14	30min 15s	3.25	11min 15s	
10/1/14	30min 0s	2.50	12min 0s	
12/1/14	30min 12s	3.25	9min 18s	
14/1/14	30min 0s	3.00	10min 0s	
16/1/14	30min 42s	3.25	9min 27s	
18/1/14	30min 0s	3.00	10min 0s	
21/1/14	30min 24s	4.00	7min 36s	

Below the table is a 'FileZilla' button. To the right of the table, there is a sidebar menu with the following items:

- Paiements dus CHF 0
- Economies CHF 0
- Études CHF 100
- Divers CHF 125
- DÉPENSES TOTALES CHF 2'925**

At the bottom right, there is a button labeled 'Modifier les références des données'. A pie chart is partially visible on the far right, showing a green segment and a red segment labeled 'CHF 2'925'.



In Summary



In summary:

1. Information Management help show when we reach our goals
2. The main parts of an information system include:
 - Data Collection
 - Data Storage
 - Data Analysis and Reporting
 - Actions from Data

Thank you for your Time

