



Bridging the gap between evidence and policy: Report from GIS workshop for St Helena Government, 18 January 2022

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FROM CASE STUDIES TO ANCHOR PROJECTS - SETTING THE GROUND TO ADVANCE MAES IN EUROPE'S OVERSEAS.

Summary

This report was prepared as part of the MOVE-ON South Atlantic Anchor Project for all stakeholders and interested parties on St Helena Island and overseas. The report summarises the context, activities, and results from a workshop conducted on 18 January 2022 titled "How can GIS help you?" aimed at St Helena Government employees across all portfolios.

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1 Introduction

“Ecosystem services” is a term used to describe any benefits that human receive from ecosystems. These can be services that regulate the environment to humans' benefit (for example, a tree root systems decreasing the risk of flooding), provide substances necessary to humans' survival (for example, food), or form important parts of human culture (for example, through providing recreational areas or places of cultural significance). Because of the way both ecological conditions and human activities are linked together in the ecosystem services framework, it is seen as a valuable concept for advocating for the protection of nature and has been enshrined in the UN Aichi Targets and the EU Biodiversity Strategy for 2020 and 2030 (Maes, et al., 2012).

To reach these targets, a methodology for Mapping and Assessment of Ecosystems and their Services (MAES) has been developed and contributed to the EU Biodiversity Strategy for 2020. However, Europe's Outermost Regions (ORs) and Overseas Countries and Territories (OCTs) have often not been included in these assessments or had a large uptake of the concept of ecosystem services, despite hosting a large amount of significant biodiversity that may be especially vulnerable to the impacts of climate change (Sieber, Borges, & Burkhard, 2018). The MOVE-ON project seeks to address this gap through several methods, including implementing a series of Anchor Projects. These Anchor Projects are intended to integrate various MAES methodologies according to the specific context of each Anchor Project region.

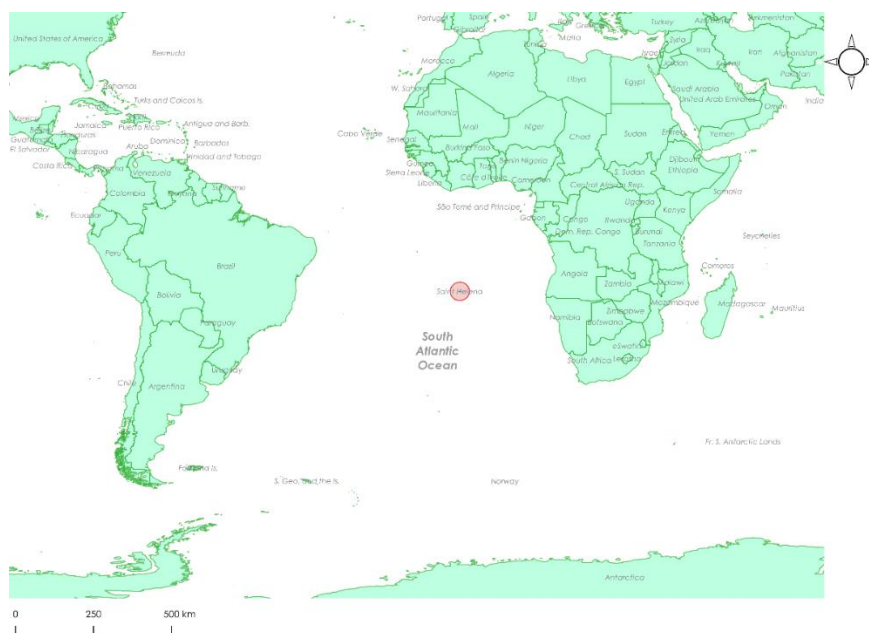


Figure 1: World map showing 200km buffer around St Helena Island in red.

St Helena represents an interesting case study as it is biodiverse with very high rates of endemism, but much of this biodiversity is extremely vulnerable due to large-scale habitat loss on the island since its discovery in the 1500s. Added to this is the fact that as a populated volcanic island with very few areas of flat land, there are often conflicting priorities for land use between residential, commercial, archaeological, and environmental considerations. However, thanks to previous projects St Helena is also in an advanced stage of its implementation of MAES with a large variety of spatial data on ecosystems and their services kept in a standardised format by the St Helena Government (SHG) Geographic Information Systems (GIS) Office. The gap that now needs to be addressed is the bridge between evidence and decision-making, and this was the area of investigation for the South Atlantic Anchor Project.

The research question the South Atlantic Anchor Project aimed to investigate was: "How can the gap between evidence and policy on small islands be bridged?" This question was investigated through trialling the use a role dedicated specifically to communicating to decision-makers about evidence that could be used to support their decisions and analysing it in real-time. This role was embedded in the SHG GIS Office, working with the GIS team there to promote their services and develop their ability to support decision-making.

As part of the activities of this role in engaging with a wide variety of stakeholders across government, an event was held in collaboration with the SHG GIS Office on 18 January titled "How can GIS help you?" The goal of this event was to reach stakeholders across SHG that had not been yet engaged with as part of the project, many of them in roles that did not traditionally intersect with environmental topics, to present uses of GIS and the evidence available and receive feedback on what would be most useful to them in terms of mapping activities and GIS training.

2 Workshop organization and participants

The workshop was held in Jamestown, St Helena, on 18 January 2022. The overall aim of the workshop was to reach stakeholders that had been placed in the “Inform” category of the stakeholder engagement method used in the MOVE-ON South Atlantic Anchor Project (see Figure 2). In addition, stakeholders from other categories who had not previously been reached by Anchor Project activities were invited to the workshop. More details about the stakeholder mapping carried out can be found in the intermedium report “Report from stakeholder mapping exercise on St Helena”.



Figure 2: Influence-interest matrix used for the MOVE-ON South Atlantic Anchor Project, as presented in the BiodivERsA stakeholder engagement handbook (Durham, Baker, Smith, Moore, & Morgan, 2014, p. 41). This method suggests that stakeholders be assigned to a category according to likely contribution to and interest in the project. The text in the boxes describes different suggestions about the levels of engagement.

The workshops were mostly organised and facilitated by Azra Gordy and Tara Pelembe of SFL and Devlin Yon of the SHG GIS Office, with assistance from Jack Ingledew of SAERI and the rest of the SHG GIS Office team. 12 employees working across various sections of St Helena Government gathered at Anne's Place, a restaurant located in the centre of Jamestown near St Helena's main government buildings. In addition, Tara Pelembe and Jack Ingledew attended the workshop virtually through a Microsoft Teams connection.

The workshop schedule followed the agenda attached in Annex 1. Guests arrived and were provided with breakfast, tea, and coffee. A short welcome with fire safety information

and icebreaking activity asking participants to use sticky notes to mark out their favourite location on St Helena and why on an island map.

This introduction was followed by a 45-minute presentation by Devlin Yon and Azra Gordy consisting of an introduction of the MOVE-ON South Atlantic Anchor Project and SHG GIS Office and showcases of existing GIS data and spatial analyses techniques used previously, followed by a time for questions. After a short 15-minute break, three guest speakers (Martina Leo of the Farm Support Office, Neil Fantom of the Statistics Office, and Shane Williams of the Planning and Building Control Office) presented the way that they made use of GIS in each of their sections. After this, participants were divided into groups of approximately 4-5 people for a brainstorm session and presented with the following questions:

- After seeing these presentations, what are the top 3 methods presented that you think could be helpful to your/your section's work?
 - What data would you need to use those methods?
 - Does this data already exist?
- After seeing these presentations, are there any methods that you would like training in for yourself/your section?

A final discussion consisted of summaries of the results of each group's brainstorm, a roundtable discussion of all participants, and time set aside to finish filling out the workshop questionnaire and feedback form which can be viewed in Annex 2. The event concluded with a complementary lunch.

3 Context of St Helena Island for GIS use in decision-making

St Helena Government founded a GIS unit in 2005 as a way to bring together various ongoing activities at the time that had been making use of GIS software to determine freshwater borehole replacement, build a cadastre for the island, and monitor conservation interventions such as invasive species clearance and endemic reintroductions (Mills, 2009). Originally placed within the Legal and Lands Department and focused on desk-based work using GIS software, the GIS Office was eventually merged with the Land Registry Office and moved to the Treasury, Infrastructure, and Sustainable Development Directorate in April 2021. This means that the workload of the St Helena Government GIS Office is now divided between desk-based GIS mapping and field surveying work for updating and confirming land registry parcel boundaries. Connect St Helena, the island's utility company, also has a GIS office with focus on surveying and maintaining a CAD database of Connect assets.

Due to the small area of St Helena and high demand for land, the land registry surveying portion of GIS Office's role must be done to high standards of accuracy and precision and therefore consumes a majority of the Office's time and resources. Due to both this and the public-facing nature of land registry work, that is the primary association that much of the public and other SHG employees have with GIS Office's role. However, over time the desk-based GIS capabilities of the office have been increasing as many projects such as Darwin Plus projects and the island's Natural Capital Assessment set aside resources for training of GIS staff and hand data to GIS Office at project completion. GIS Office staff have been trained in a variety of topics including spatial data management and storage, constraints mapping and remote sensing techniques. Data on the servers of GIS Office span a wide range of topics including the environment, society, infrastructure, and ecosystem services data. A searchable catalogue of this data is published online as the St Helena Data Portal, and the GIS Office maintains a data management cycle as shown in Figure 3. As a result, the situation of the St Helena Government GIS Office before commencement of the South Atlantic Anchor Project was that while they were well positioned and equipped to provide data and analysis services to make evidence-backed decisions, this aspect of their role and skills was not necessarily widely recognised within government.

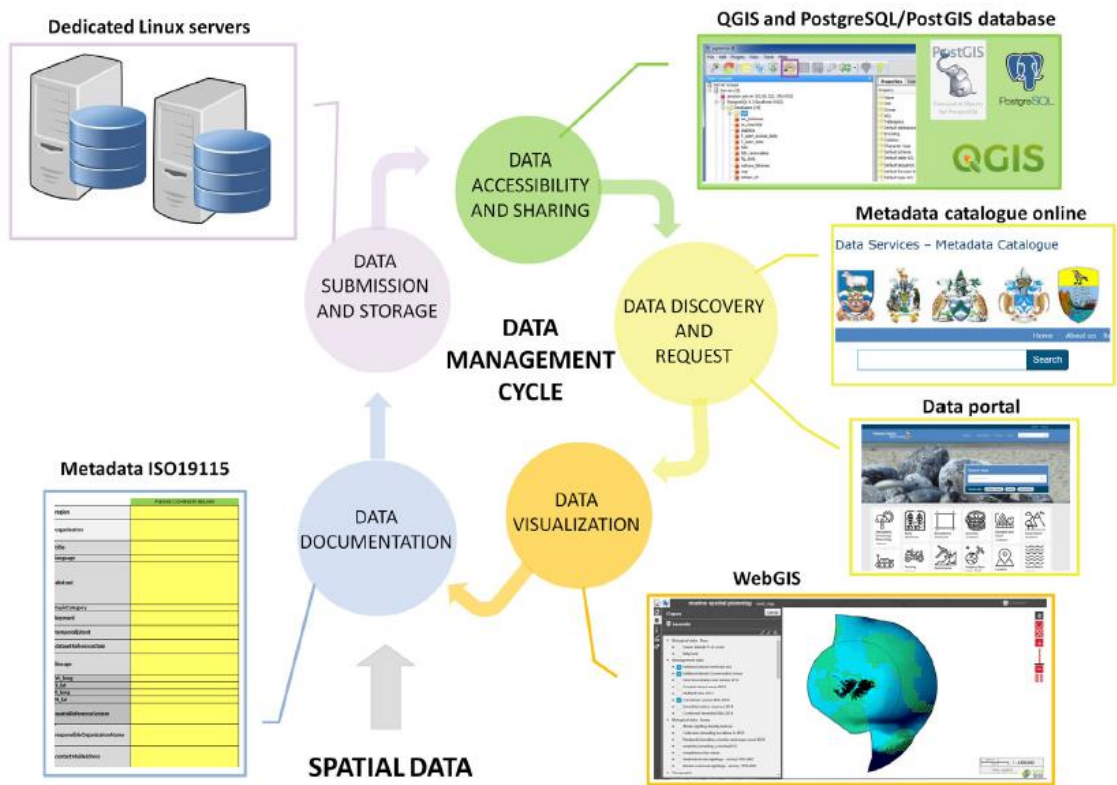


Figure 3: System architecture of the GIS Office of St Helena, which follows the standards used by SAERI's Information Management System-GIS Data Centre for the South Atlantic. Image: (Marengo, et al., 2020)

4 Identified mapping and training priorities

Annex 3 shows the full anonymised results of the workshop questionnaire. It is worth noting that guest speakers also filled out the questionnaire.

4.1 Questionnaire answers: spatial analysis methods

Table 1: Questionnaire answers relating to identified priorities for mapping and spatial analysis.

4. After the presentations and brainstorm discussion, what are the top three methods presented that you think could be helpful to you or your section's work?	5a. Out of the three methods above, which one would be your priority to use and for what purpose?	5b. What data would you need to carry out this analysis?	5c. Does this data already exist?	6. On a scale of 1 to 10, how much of a priority would it be to you to carry out the analysis above? Please circle:
Viewing existing data on the webGIS and data portal, Multi-criteria decision analysis	Creating maps, cordons crime patterns	N/A	N/A	N/A
Viewing existing data on the webGIS and data portal, Multi-criteria decision analysis, show relationships between multiple datasets, hotspots analysis, further analysis of existing data, monitoring change over time, line graph over time	showing relationships between multiple datasets - inform policy, budget and service provision. Hotspot analysis - to inform response and plan services early help/ intervention. Line graph over time - to inform services/ planning & prioritisation.	Full assessment of vulnerability	No	8
Further analysis of existing data, multi-criteria decision analysis	Further analysis - Census analysis	None - Have census	Yes	6
time lapse, monitoring change over time	Monitoring - social change	various socio - economic, services, Pop, HH	Not mapped	5
show relationships between multiple datasets, hotspots analysis, georeferencing	Constraints mapping - Identifying suitable land for developments	land ownerships, land uses, slope analysis, flatland	Yes	5
viewing existing data on the webGIS and data portal, show relationships between multiple datasets, hotspot analysis	Viewing Data - Emergency planning/ response. Relationships - problem profiling. Hotspots - patrol planing	population data (by residence), incident records, crime records	Yes	8
hotspot analysis, georeferencing, monitoring change over time, time lapse, viewshed analysis	viewshed - to be able to identify land more accurately	already have data, just need training	yes	4
Further analysis of existing data, monitoring change over time, constraints mapping,	N/A	N/A	N/A	N/A
viewing existing data on the webGIS and data portal, further analysis of existing data, time lapse	viewing existing & updated data - to define the ownership of where are road edge meet private land or forest land. Use for roads and vegetation purposes	QGIS roads & boundaries	yes	7
show relationships between multiple datasets, further	show relationship between multiple datasets - show all	building footprints, parcels, sewage, water & electricity, building surveyors survey	yes	7

analysis of existing data, constraints mapping	data in relation to government buildings			
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4.2 Questionnaire answers: training priorities

Table 2: Questionnaire answers relating to priorities for GIS training.

7. After the presentations and brainstorm discussion, are there any methods that you would like training in for yourself or your section? Please tick any that apply:	8. On a scale of 1 to 10, how much of a priority is it to get this training for yourself/your section?
Law enforcement	7
Viewing existing data on the webGIS and data portal, show relationships between multiple datasets, hotspots analysis, further analysis of existing data, participatory GIS, monitoring change over time, line graph over time, constraints mapping, viewshed analysis, multi-criteria decision analysis	9/10
Show relationships between multiple datasets, georeferencing,	6
viewing existing data on the webGIS, multi-criteria decision analysis	7
georeferencing	3
Viewing existing data on the webGIS and data portal, show relationships between multiple datasets, hotspots analysis, multi-criteria decision analysis, how to share data.	8
hotspot analysis	N/A
N/A	N/A
viewing existing data on the webGIS and data portal, participatory GIS	7
viewing existing data on the webGIS and data portal, show relationships between multiple datasets	7

5 Workshop feedback

Table 3: Feedback questionnaire answers.

10. On a scale 1 to 10, how useful did you find this workshop?	11. Do you have any other comments you would like to add about the workshop?
8	The workshop was well presented and from this I would like to take some of these ideas forward
9	This workshop was beneficial to me as GIS helps me define areas of what we are responsible for
10	N/A
9	Practice!
8	Very useful introduction
8	N/A
7	Good introduction
8	N/A
10	Really informative and now realise some of the data and data collation already in place
8	its good to hear everyones views and how everyone like to use it
9	Very informative, gained a lot of perspective of the various demands for GIS

6 Conclusion

The workshop was considered highly successful, with an overall feedback score of 9 out of 10 and various mapping activities and engagement with GIS Office initiated from workshop activities. The identified training priorities were used to inform the activities of SAERI's visit to St Helena in March and April 2022, where stakeholder engagement for the MOVE-ON project and training for the Darwin Plus Project "DPLUS154: Sustainable management planning for St Helena's National Conservation Areas" was delivered.

7 Acknowledgments

We would like to thank all workshop participants Christine Connor (Police Service), Tracy Poole-Nandy (Health & Social Care), Ann Muir (Central Support Service), David Price (Police Service), Frederick Green (ANRD), Darren L Francis (Roads Section), Glynis Fowler (Property Division), and Tracey Williams (Project Management Unit), and our guest speakers Martina Leo (ANRD), Neil Fantom (Statistics), and Shane Williams (Planning and Building Control). Thanks to Jane Sim and the staff at Anne's Place and to the SHG GIS team Ryan Benjamin, Jamie Phillips, and Matthias Young.

8 References

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9 Annex 1

1. Welcome, breakfast and icebreakers (30 min)

2. MOVE-ON introduction and mapping highlights (45 min)

Presentations by Devlin Yon & Azra Gordy

- Introduction to MOVE-ON South Atlantic Anchor Project and GIS Office
- Presentation of mapping uses and techniques including:
 - Viewing existing data on the St Helena WebGIS and Data Portal
 - Georeferencing paper/non-spatial map files
 - Public engagement and information gathering using GIS
 - Monitoring change over time
 - Constraints mapping/Multi-Criteria Decision Analysis
- Questions

3. Break (15 min)

4. Guest presentations (30 min)

- Showcase of use of GIS across sections
- Questions

5. Group discussion (30 min)

6. Final discussions and complementary lunch (15 min+)

10 Annex 2

Questionnaire: How can GIS help you?

SECTION 1: PERSONAL INFORMATION

Name: _____

Job title: _____

Section: _____

Portfolio (please tick):

- Health & Social Care
- Education, Skills & Employment
- Environment, Natural Resources & Planning
- Safety, Security & Home Affairs
- Treasury, Infrastructure & Sustainable Development
- Central Support Service

SECTION 2: PREVIOUS GIS USE

1. Have you used GIS services before for your section/department's work?

- Yes
- No
- Don't know/don't remember

2. If so, about how often do you estimate you have used it in the last three years?

- Once a week
- Once a month
- Once a year
- Less than once a year

3. What purposes have you used GIS for? Please tick any that apply:

- To view/access spatial data
- To record my own data
- To support my day-to-day work
- To make a map based on one dataset

- To show two or more types of data on the same map
- To analyse the relationships between two or more types of data
- To analyse changes over time
- To make a decision about land use
- To make a decision about policy
- Other use (please state): _____

SECTION 3: GIS GOALS

4. After the presentations and brainstorm discussion, what are the top three methods presented that you think could be helpful to you or your section's work? Please tick three:

- Viewing existing data on the WebGIS and Data Portal
- Show relationships between multiple datasets
- Hotspots analysis
- Further analysis of existing data
- Georeferencing
- Participatory GIS
- Monitoring change over time
- Time lapse
- Line graph over time
- Constraints mapping
- Viewshed analysis
- Multi-Criteria Decision Analysis
- Other (please state): _____

5. Out of the three methods above, which one would be your priority to use and for what purpose?

Method	Purpose



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6. On a scale of 1 to 10, how much of a priority would it be to you to carry out the analysis above? Please circle:

1 2 3 4 5 6 7 8 9 10

7. After the presentations and brainstorm discussion, are there any methods that you would like training in for yourself or your section? Please tick any that apply:

[methods checkboxes]

8. On a scale of 1 to 10, how much of a priority is it to get this training for yourself/your section?

1 2 3 4 5 6 7 8 9 10

9. Do you have any other comments on how you think GIS can support your work?

WORKSHOP FEEDBACK (provided on a separate sheet for anonymisation)

10. On a scale of 1 to 10, how useful did you find this workshop?

1 2 3 4 5 6 7 8 9 10

11. Do you have any other comments you would like to add about the workshop?



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Table 4: Results of workshop questionnaire.

Job Title	Section	Portfolio	1. Have you used GIS services before for your section/department's work?	2. If so, about how often do you estimate you have used it in the last three years?	3. What purposes have you used GIS for? Please tick any that apply:	4. After the presentations and brainstorm discussion, what are the top three methods presented that you think could be helpful to you or your section's work?	5a. Out of the three methods above, which one would be your priority to use and for what purpose?	5b. What data would you need to carry out this analysis?	5c. Does this data already exist?	6. On a scale of 1 to 10, how much of a priority would it be to you to carry out the analysis above? Please circle:	7. After the presentations and brainstorm discussion, are there any methods that you would like training in for yourself or your section? Please tick any that apply:	8. On a scale of 1 to 10, how much of a priority is it to get this training for yourself/your section?	9. Do you have any comments on how you think GIS can support your work?	10. On a scale of 1 to 10, how useful did you find this workshop?	11. Do you have any other comments you would like to add about the workshop?	
Police control supervisor	Police	Safety, security & home affairs	No	N/A	Law enforcement	Viewing existing data on the webGIS and data portal. Multi-criteria decision analysis	Creating maps, cordons crime patterns	N/A	N/A	N/A	Law enforcement	7	N/A			



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Director of social care	Health & Social care	Health & Social care	No	N/A	To record my own data, to support my day-to-work, make a map based on the dataset, show two or more types of data on the same map, analyse the relationships between two or more types of data, analyse changes over time, make a decision about policy	Viewing existing data on the webGIS and data portal, Multi-criteria decision analysis, show relationships between multiple datasets, hotspots analysis, further analysis of existing data, monitoring change over time, line graph over time	showing relationships between multiple datasets - inform policy, budget and service provision. Hotspot analysis - to inform response and plan services early help/intervention. Line graph over time - to inform services/planning & prioritisation.	Full assessment of vulnerability	No	8	Viewing existing data on the webGIS and data portal, show relationships between multiple datasets, hotspots analysis, further analysis of existing data, participatory GIS, monitoring change over time, line graph over time, constraints mapping, viewshed analysis, multi-criteria decision analysis	9/10	N/A		
Statistics	Statistics	Central support service	Yes	Everyday for 6 months	view/access spatial data, record my own data, support my day to day work, make a map based on one dataset, show two or more types of data on	Further analysis of existing data, multi-criteria decision analysis	Further analysis - Census analysis	None - Have census	Yes	6	Show relationships between multiple datasets, georeferencing,	6	Dataset to be accessible, especially QGIS layers/shapefiles to be downloadable		



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					the same map, analyse the relationship between two or more types of data, analyse changes over time.										
SSPC	CSS	Central support service	Yes	once a year	view / access spatial data, analyse changes over time, make a decision about policy	time lapse, monitoring change over time	Monitoring - social change	various socio - economic, services, Pop, HH	Not mapped	5	viewing existing data on the webGIS, multi-criteria decision analysis	7	N/A		
Acting Head of planning & building control	Planning and building control	ENRP	Yes	once a week	view/access spatial data, record my own data, support my day to day work, make a map based on one dataset, show two or more types of data on the same map, analyse the relationship between two or more types of data, analyse changes	show relationships between multiple datasets, hotspots analysis, georeferencing	Constraints mapping - Identifying suitable land for developments	land ownerships, land uses, slope analysis, flatland	Yes	5	georeferencing	3	N/A		



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					over time, make decision about land use, make a decision about ploicy										
Director of Police	St. Helena Police Service	Safety, security & home affairs	yes	once a week	support my day to day work, law enforcement	viewing existing data on the webGIS and data portal, show relationships between multiple datasets, hotspot analysis	Viewing Data - Emergency planning/response. Relationships - problem profiling. Hotspots - patrol planing	population data (by residence), incident records, crime records	Yes	8	Viewing existing data on the webGIS and data portal, show relationships between multiple datasets, hotspots analysis, multi-criteria decision analysis, how to share data.	8	Single platform to integrate GPS & GIS applications would be a significant benefit		
Farmers support assistant	ANRD	ENRP	yes	once a week	view/access spatial data, record my own data, support my day to day work, make a map based on one dataset.	hotspot analysis, georeferencing, monitoring change over time, time lapse, viewshed analysis	viewshed - to be able to identify land more accurately	already have data, just need training	yes	4	hotspot analysis	N/A	N/A		
Farmers support assistant	ANRD	ENRP	yes	once a week	support my day to day work, make a map based on one dataset, show two or more types of data on	Further analysis of existing data, monitoring change over time, constraints mapping,	N/A	N/A	N/A	N/A	N/A	N/A	N/A		



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					the same map, analyse changes over time										
Roads inspector	Roads section	TI&SD	yes	once a month	support my day to day work, make decision about policy	viewing existing data on the webGIS and data portal, further analysis of existing data, time lapse	viewing existing & updated data - to define the ownership of where are road edge meet private land or forest land. Use for roads and vegetation purposes	QGIS roads & boundaries	yes	7	viewing existing data on the webGIS and data portal, participatory GIS	7	N/A		
Buildings Manager	Property Division	TI&SD	no	N/A	view/ access spatial data, support my day to day work, analyse the relationship between two or more types of data	show relationships between multiple datasets, further analysis of existing data, constraints mapping	show relationship between multiple datasets - show all data in relation to government buildings	building footprints, parcels, sewage, water & electricity, building surveyors survey	yes	7	viewing existing data on the webGIS and data portal, show relationships between multiple datasets	7	It would be a good idea if GIS could do a presentation to the team to show what benefits we could get from GIS.		



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