

# VMGD-MFI SC G01



# Progress report

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# 1. General Scope of the Project SC G01

The project SC G01 between Vanuatu Meteorology and Geo-Hazard Department (VMGD) and Meteo France International (MFI) consists in supplying, delivering and installing an Integrated Weather Forecasting System.

This phase of the project was focused on software installation, configuration and training of VMGD staff.

# 2. Project actions already carried out

This progress report is based on item 2.1 of the contract SC G01 "Scope of Work Needed for the Installation of Integrated Weather Forecasting System (IWFS) in Vanuatu".

1. Shipment/ handling/ packaging/ air freight must be handled by the supplier 100%

Shipment of hardware was made in October 2016 by sea freight.



Packing in Toulouse France before shipment





Arrival at VMGD Port-Vila Office

Crate opening before site installation

100%

Customize the operational applications and systems in accordance to the VMGD REQUIREMENTS through data flow and user needs:

2.

- Integrated end users requirements
- Intergrated software and configured hardware

This action was made in several phases.

### **⇒** Site survey

Mr Eric Gerardin, during his visit at VMGD office, has performed a site survey with the assistance of Yves Magliulo and Rémy Sironneau from Toulouse by skype.

Session N°1 on 17<sup>th</sup> November 2016

Presentation of the survey objectives and the expected information in order to customize the MeteoFactory® operational application

- Session N°2 on 24<sup>th</sup> November 2016
  First system demonstration and discussions about modifications requested by VMGD.
- Session N°3 on 29<sup>th</sup> November 2016
  Final debriefing of the survey and additional feedback from VMGD.



Skype session N°2 on 24th November



Site Survey by Mr Eric Gerardin



Thanks to this survey, VMGD and MFI agreed on the following outcomes, listed below by order of priority for the VMGD:

- Improve the quality of existing VMGD bulletins
- Implement a new warning map for Vanuatu
- Automate the message dissemination
- Automate the website update

#### > Factory engineering and remote validation by VMGD

Between December 2016 and February 2017, MFI has worked on system customization. Interface, forecast locations, warning parameters, dataflow and all others software parameters were tuned according to VMGD requirements.

In order to secure the incoming installation of MeteoFafctory® scheduled by end of February, 2 skype sessions has been organized with VMGD in order to allow the VMGD to give his final feedback before application deployment. MFI also gave access to the system prior site installation.

# Skype session N°1 on 17<sup>th</sup> January 2017

During this session MFI gave a demonstration of the first MeteoFactory® VMGD configuration. Based on that VMGD was allowed to provide additional feedback and request to MFI.

### Open access for VMGD staff to the MeteoFactory® on 3th February 2017

Thanks to this access VMGD was able to test more deeply the system and the customization done by MFI.

## Skype session N°2 on 13<sup>th</sup> February 2017

This last session before site installation and training was mainly focused on final requests and tuning.

#### Suppliers must:

3.

- Install, test and commission hardware and software
- Test/validate and assists the weather products according to VMGD standards
- System backup and installation report
- On job training

### > Install, test and commission hardware and software

### System backup and installation report

### On job training

Mr Eric Gerardin has performed all these actions during his mission at Port-Vila between 12<sup>th</sup> November 2016 and 01<sup>st</sup> December 2016.



100%

Hereby some pictures of the infrastructure installation:



Cabinet during the installation



Cabinet installed and ready for the site acceptance validation



One of the two MeteoFactory® Designer position



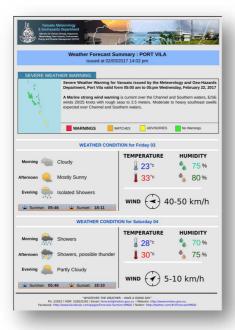
Synergie forecast system with link for opening MeteoFactory® interface

Following this technical installation, Mr Gerardin has performed training on system administration and backup from 22th November until  $28^{th}$  November 2016.

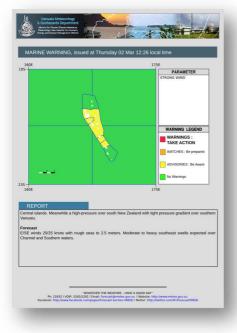
### Test/validate and assists the weather products according to VMGD standards

Mr Yves Magliulo has performed this action during his mission in Port Vila from 20<sup>th</sup> February to 2<sup>nd</sup> march 2017.

Following examples of weather products are the result of his work with VMGD Staff:



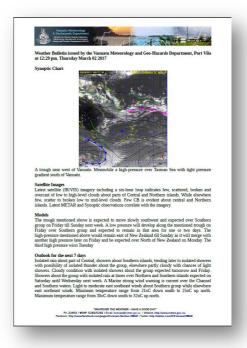
City Weather Forecast Summary (1 for each city)



Marine Warning



Weather Forecast Summary (1 for each marine area)



Bulletin High Seas et Forecast Policy



Onsite training of VMGD staff for operation and administration of IWFS. Training will include:

· All forecasters and

4.

ICT/Engineering staff

 Director/Manager Forecast to manage the operation and the ICT/Engineering to ensure that the normal operation of the IWFS must always be operational/function.

always be operational/function.

80%

Mr Gerardin has performed the technical part of this action during his training from 22th November until 28th November 2016.

Later on Mr Yves Magliulo performed more operational and organizational training during his mission in Port-Vila From 20<sup>th</sup> February until 2<sup>nd</sup> march 2017.

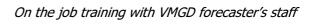
We also provide two days of workshop with a New Caledonia Meteo France forecaster : Mr Julien Leduc, who have a very good knowledge of local climate specificities.

These 3 missions allowed the project to cover a large range of topics both operational and technical matters.





Site acceptance test session





End of training ceremony



End of Mr Leduc Workshop



Final debriefing by Mr Gibson (VMGD DG)

All equipment to have full warranty for 12 months beginning on date of commissioning:

5.

 Any malfunction of the IWFS, Manager Forecast/Manager ICT/Engineering to provide report and submit to Director for any replacement within warranty period. 100%

# 3. Remaining actions till project completion

One forecaster training session remaining schedule around May or June.

The most relevant profile for performing this training is a Météo France forecaster from New Caledonia office. Actually, they have good skills on Synergie and MeteoFactory® software combine with a very good experience of regional climate specificities. However, due to the cyclone season which occurred at the beginning of this year, forecast from Meteo France New Caledonia are not available before May. That is why this session has been postponed around May or June.