**USING SPATIAL INFORMATION TO SUPPORT DECISIONS ON SAFEGUARDS AND MULTIPLE BENEFITS FOR REDD+**



**DRAFT: Step-by-step tutorial:**

Installing and running the framework tool



The UN-REDD Programme is the United Nations Collaborative initiative on Reducing Emissions from Deforestation and forest Degradation (REDD) in developing countries. The Programme was launched in September 2008 to assist developing countries prepare and implement national REDD+ strategies, and builds on the convening power and expertise of the Food and Agriculture Organization of the United Nations (FAO), the United Nations Development Programme (UNDP) and the United Nations Environment Programme (UNEP).

The United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC) is the specialist biodiversity assessment centre of the United Nations Environment Programme (UNEP), the world’s foremost intergovernmental environmental organisation.  The Centre has been in operation for over 30 years, combining scientific research with practical policy advice.

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These training materials have been produced to aid the production of multiple benefits maps to inform REDD+ planning and safeguards policies using open source GIS software.

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Contents

[1. Introduction 1](#_Toc417632310)

[2. Installing and Running the Global Tool 1](#_Toc417632311)

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# 1. Introduction

REDD+ has the potential to deliver multiple benefits beyond carbon. For example, it can promote biodiversity conservation and secure ecosystem services from forests such as water regulation, erosion control and non-timber forest products. Some of the potential benefits from REDD+, such as biodiversity conservation, can be enhanced through identifying areas where REDD+ actions might have the greatest impact using spatial analysis.

Open Source GIS software can be used to undertake spatial analysis of datasets of relevance to multiple benefits and environmental safeguards for REDD+. Open-source software is released under a license that allow software to be freely used, modified, and shared (<http://opensource.org/licenses>). Therefore, using open source software has great potential in building sustainable capacity and critical mass of experts with limited financial resources.

This tutorial guides you through installing the first version of the framework tool for spatial analysis of the costs and benefits of individual REDD+ options.

# 2. Installing and Running the Global Tool

1. Open QGIS 2.8
2. Click on **plugins>>manage and install plugins**
3. Search for **processing workflows**



1. Click on theplugin **Processing Workflows** plugin **in the left hand panel** and then on the **install plugin button**
2. **Search for Group S**



1. Click on theplugin **Group Stats** plugin **in the left hand panel** and then on the **install plugin button**
2. **Close QGIS 2.8**
3. From the P-drive P:\programs\PROJECTS\2600s\2650G UN-REDD 2014\Work in progress\8 0 generic GIS materials\GlobalGISTool
* copy **GlobalToolDevelopment\_150310 folder** to C:\Users\corinnar\.qgis2\processing\models
	+ if you have an old version delete the old version e.g. C:\Users\corinnar\.qgis2\processing\models\GlobalToolDevelopment\_141112\_bkup
* copy **UNREDD\_workflows\_for\_spatialplanning\_150310.workflow** to C:\Users\corinnar\.qgis2\python\plugins\processing\_workflow\workflows
	+ delete the old version if you have it e.g.C:\Users\corinnar\.qgis2\python\plugins\processing\_workflow\workflows\UN-REDD\_workflow1.workflow
1. Delete old copies of the following and replace with the new versions:-
	* copy the **Example\_Square\_DummyInputs** folder to a chosen folder on your computer
	* copy the **GlobalToolOutputStyles** folder to the same folder on your computer
	* copy the UN-REDDWorkflowsForREDD+SpatialPlanningDocumentation\_150310 HTML to the same folder on your computer



1. Open **QGIS 2.8**
2. Click on **Project>>open** to open theQGIS project called **GlobalToolDevelopmentDummy Example\_150327**
3. Click open
4. If you can’t see the processing toolbox (it will be a right hand panel) click **Processing>>Toolbox**



1. If it says **Simple interface** click here to change to **Advanced**
2. To activate the processing workflows plugin click on **Processing>>>options**
3. Click on the + to expand Providers and the + to expand Workflow. Click to put a x in the Activate box
4. Click on **Workflows** and **expand UN-REDD tools**
5. Double click on **UN-REDD workflows for REDD+ Spatial planning** to run the tool.
6. Follow the instructions on each screen to run the workflows