UN-REDD PROGRAMME

# Making a spatial REDD+ action layer

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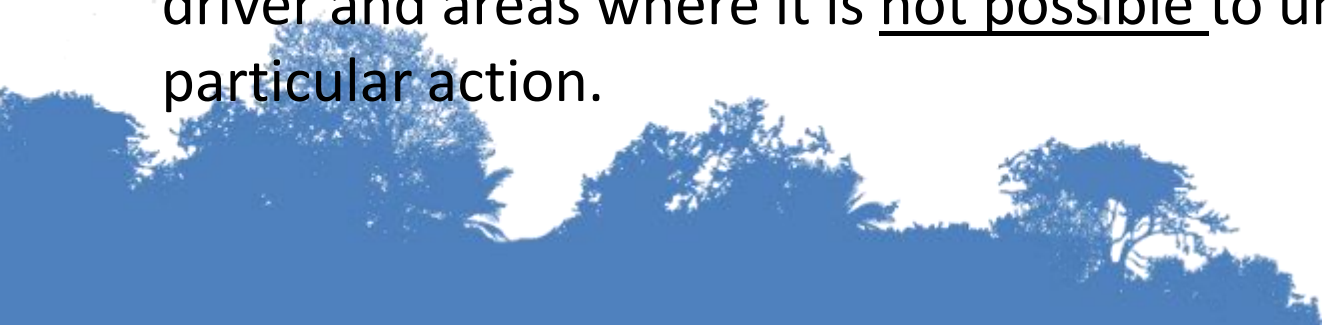
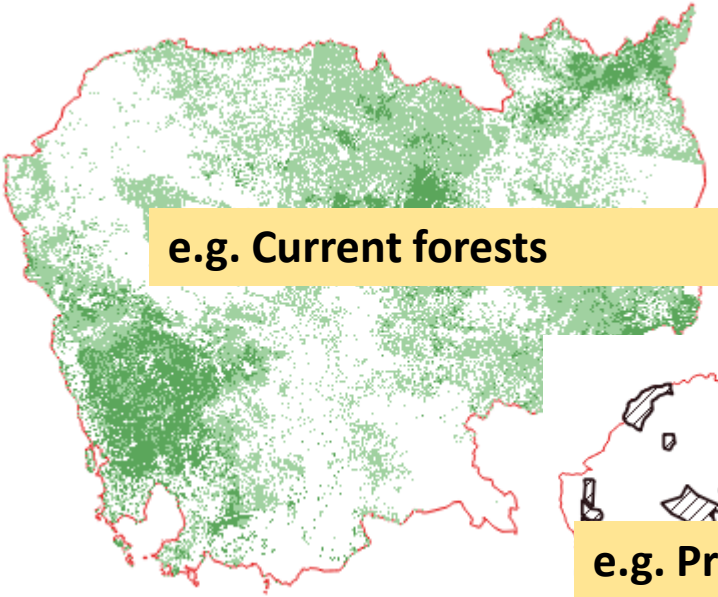
# REDD+ actions and the GIS tool

To develop the REDD+ action layer for **community-based sustainable forestry** being used to address the **driver small-scale use: rice**, you may consider:

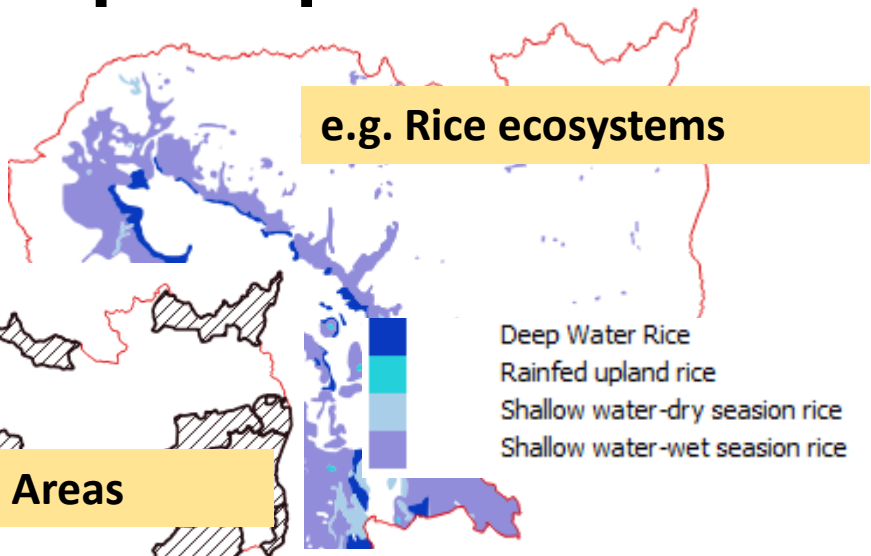
- Where are the areas at risk from small-scale rice expansion? (This will also be used in the generation of the opportunity cost layers and BAU layer for that driver)
- Where can community-based sustainable forestry occur?
- Which forest area designations should be included?
  - Natural forest and planted forest?
  - Existing community forestry areas or broader?
- The GIS analysis would then exclude areas not at risk from the driver and areas where it is not possible to undertake that particular action.



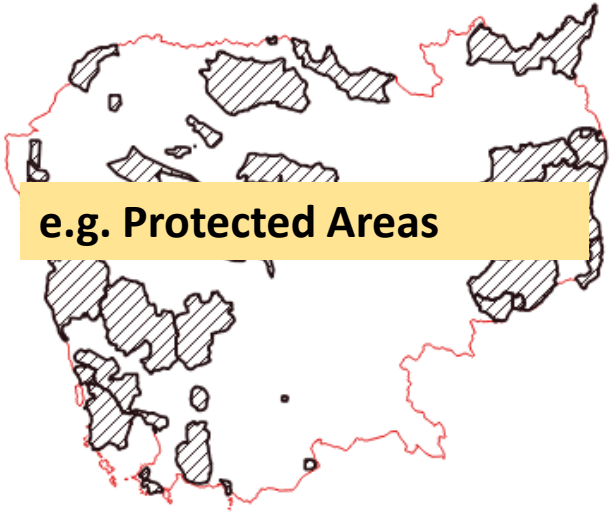
# Example Inputs



e.g. Current forests

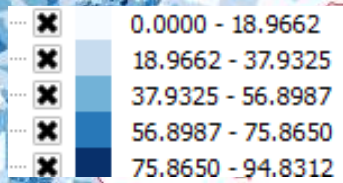


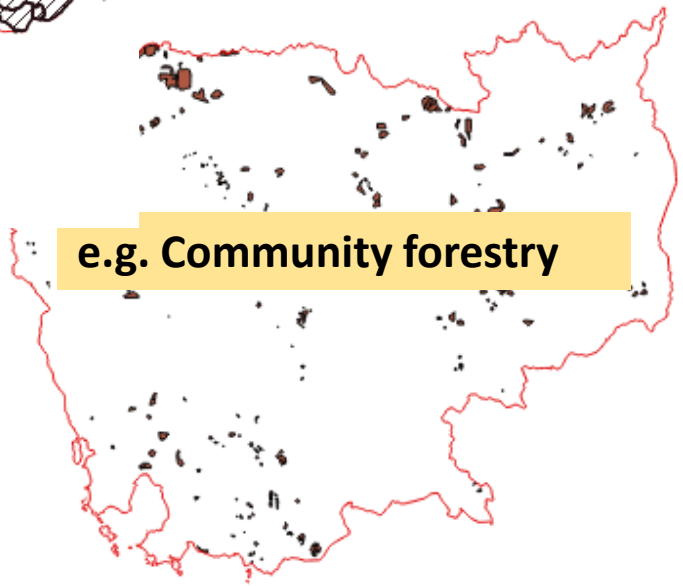

e.g. Rice ecosystems



e.g. Protected Areas

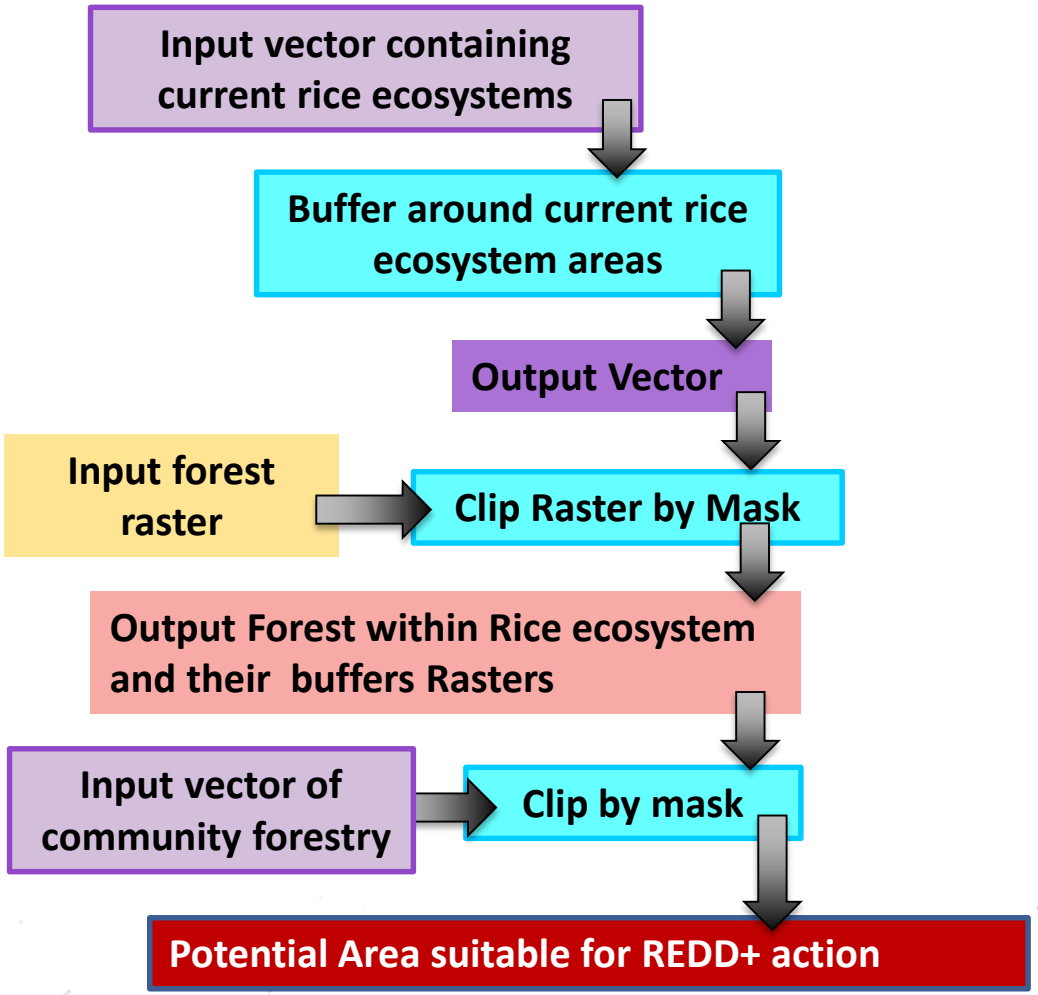
e.g. Familes with less than 1ha of rice land



e.g. Community forestry

# Breaking down the steps: A more simple visualisation




Input Values

Input Vectors

Output Vector

Input Rasters

Output Rasters

Geoprocessing

FINAL REDD+ ACTION RASTER OUTPUT

**What should the actual workflow be?**

- What should be modified?
- What is missing?
- What data are require/available?

# Activity 1: Creating a basic REDD+ action layer community-based sustainable forestry being used to address the driver small-scale use: rice

## In your groups: for this REDD+ action.

1) Examine the steps in the example workflow
2) Using colour papers/cards marker pens using different colours to represent the different types of input, modify the this basic workflows

**What should the actual workflow be?**

- What should be modified?
- What is missing?
- What data are require/available?

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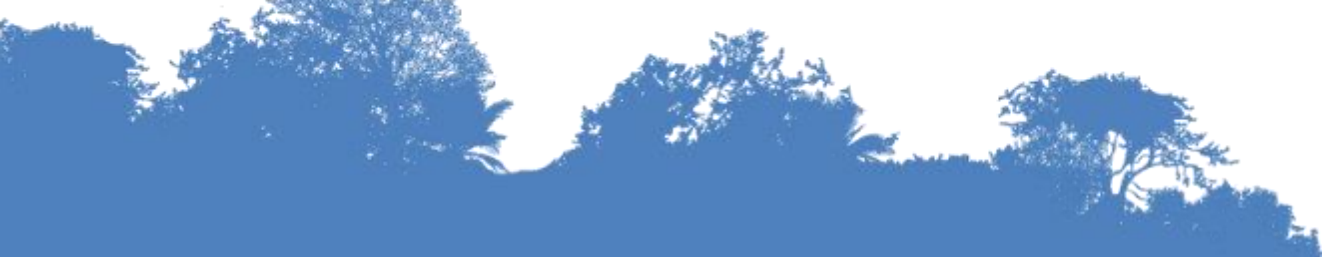
# **Activity 1: Creating a basic REDD+ action layer X** being used to address the **driver Y**

## In your groups for a <u>new</u> REDD+ action/driver combination: Define the basic workflows for that specified REDD+ actions to address a particular drivers.

- **Choose a driver:-**
  - You will need to have data that will enable you to create a spatial layer to show the potential areas at risk from that driver?
  - What additional workflows are required to generate the drivers dataset?
- **For the chosen REDD+ action to address the driver:-**
  - Where can't the REDD+ action be undertaken?

  *i.e. exclude areas where that REDD+ action would not be possible.* ***List the reasons why you are excluding certain areas***
  - what data you will use to make those exclusions?
    - Spatial layer of ……
    - tabular data showing…….that can be attached to administrative boundaries?
  - What geoprocessing steps might I take in QGIS?



# Activity 3: Generating a simple REDD+ carbon scenario from the REDD+ action layer

## 1) In the spreadsheet tool a % figure is used estimate the effectiveness of the REDD+ option compared with forest

- i.e. it is used to inform the REDD+ carbon scenario by applying a % to adjust the expected carbon content (over 25 year period) within the areas where the REDD+ action may take place
- Should the spatial tool take the same approach?
- What information informed the % figures for the different REDD+ actions?

## 4) What other approaches could be taken to generate REDD+ carbon layer for each action in response to a particular driver?

- i.e. your own thoughts and ideas

# Thank you!

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