Overview of WOCAT and CBP

4 per 1000

Monitoring climate benefits of sustainable land management with a focus on Soil Organic Carbon

27th April 2021

Carbon Benefits Project

WOCAT
World Overview of Conservation Approaches and Technologies

LandPKS

Aim of the event:

Learn about linked tools to:

- Choose carbon friendly sustainable land management (SLM) practices - **WOCAT**

- Estimate the climate change/SOC impact of your SLM activities

- Collect compatible data on a mobile phone

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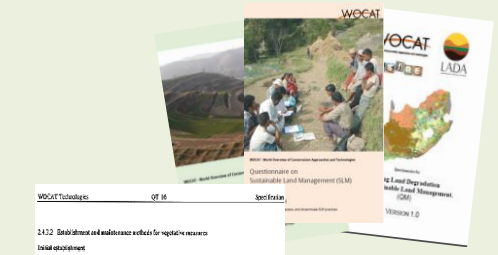
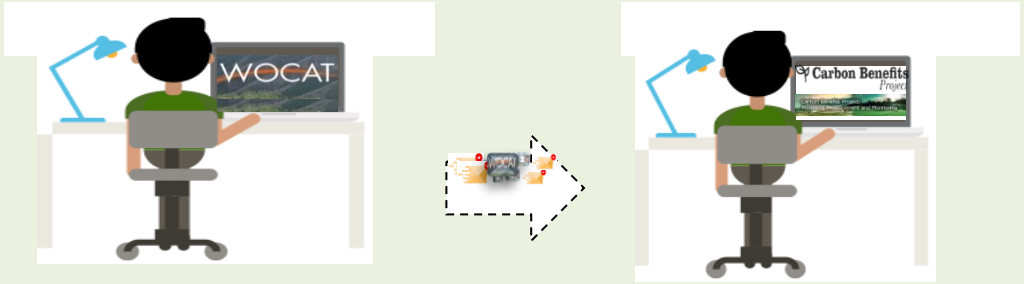
WOCAT – global database of SLM, recommended by UNCCD



www.wocat.net

Linking WOCAT and the CBP Tools

- **Step 1 –** Document SLM Technology with WOCAT
- **Step 2 –** Import WOCAT data to CBP Tools
- **Step 3 –** Carry out a GHG estimation with CBP
- **Step 4 –** Upload CBP summary to the WOCAT SLM Database



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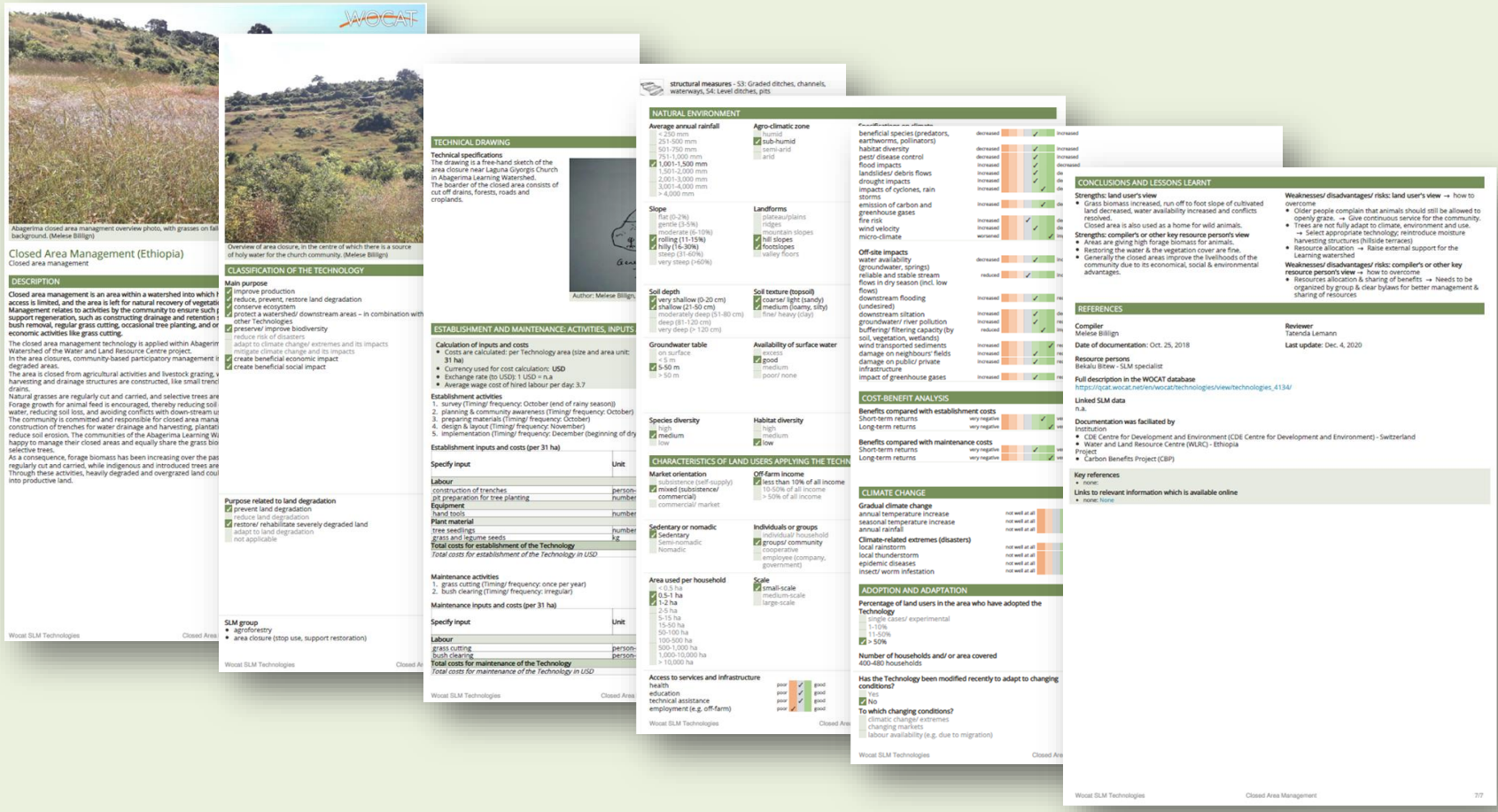
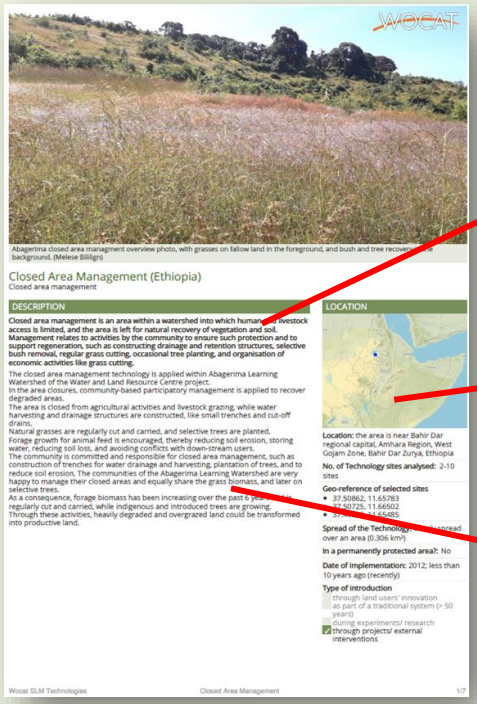
Linking WOCAT and the CBP Tools

Step 1 – Document SLM Technology with WOCAT



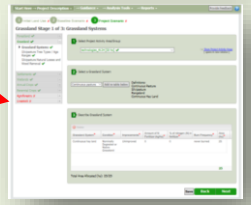
Linking WOCAT and the CBP Tools

Step 2 – Import WOCAT data to CBP Tools



General

Spatial



Land use and management

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Learn about linked tools to:

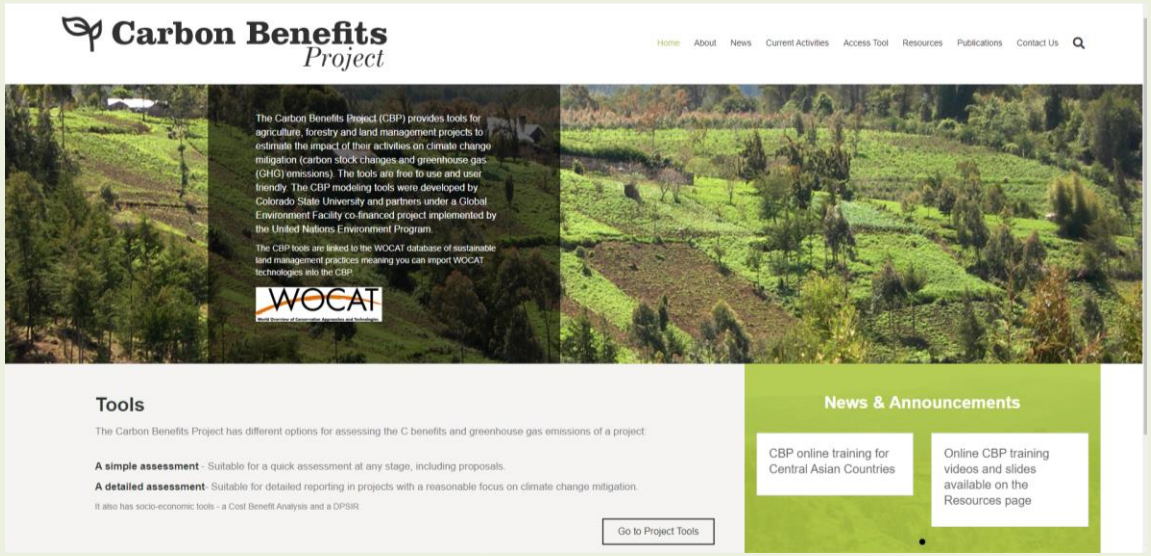
- Choose carbon friendly sustainable land management (SLM) practices - **WOCAT**

- Estimate the climate change/SOC impact of SLM activities – **Carbon Benefits Project**

- Collect compatible data on a mobile phone

The Carbon Benefits Project (CBP)

www.carbonbenefitsproject.org



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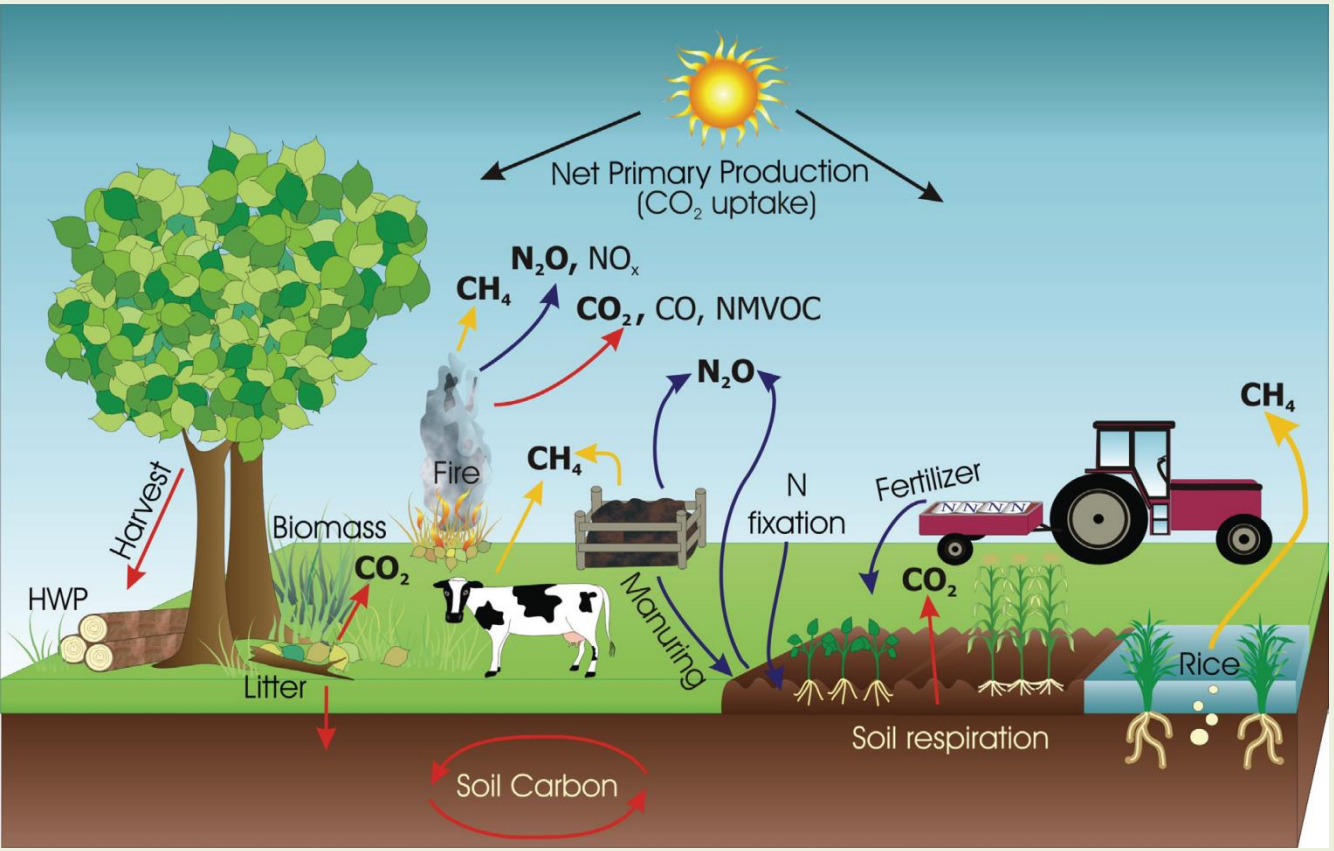
Biomass C Stock Changes

Non-CO_2 GHG Emissions from Burning



From 2006 IPCC Guidelines

Enteric Methane

CH_4 and N_2O from Manure

Soil N_2O Emissions

<u>Soil C Stock Changes</u>

Rice Methane

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Welcome Eleanor Milne (Sign out)
21 April 2021

View/Update Profile

Provide Feedback | Help

Create New Project

1 Please enter basic project information

Project Name*

Project Activities*

Project ID Code*

Project Status*
Proposal

Project Start Date*
Month: mm Year: yyyy

Project Duration*
Years

Project Country (Countries)*
Hold CTRL, then click to select multiple countries
Afghanistan
Aksai Chin
Albania
Algeria
American Samoa
Amur Ussuri confluence Islands

2 Is this a GEF co-funded project?

Yes No

Import project from WOCAT

Select a WOCAT entry from the list to import as a CBP project.

Number	Name
Technology 1699	Grassland preservation
Technology 669	Establishment of improved orchards and vineyards
Technology 672	Rehabilitation of degraded pastures with alfalfa
Technology 939	Reduced contour tillage of cereals in semi-arid environments
Technology 1323	Conservation Agriculture
Technology 945	No-till with controlled traffic
Technology 940	Small-scale conservation tillage

Select

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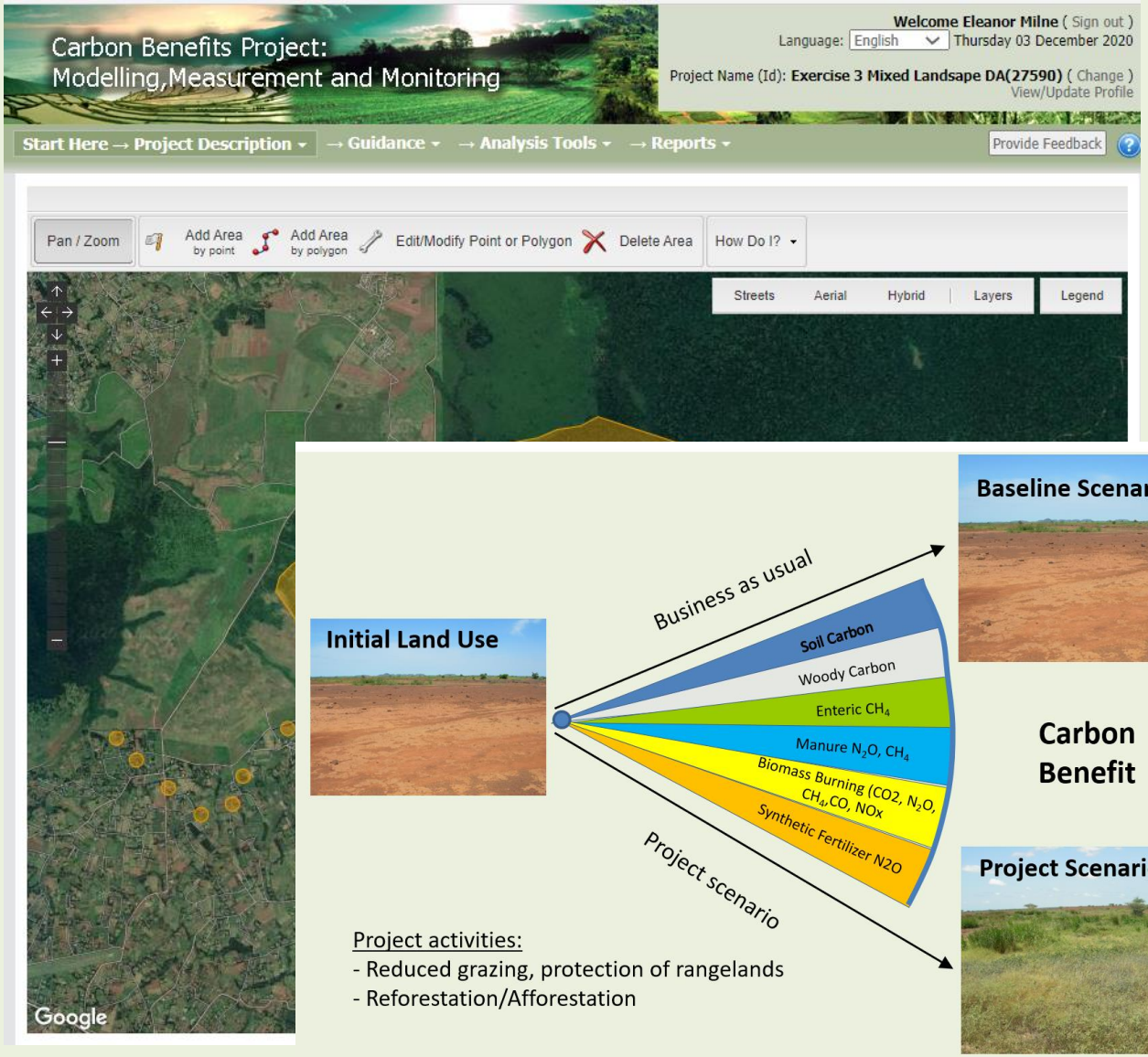
User enters:
Spatial areas where the project is working



Step 3 – Carry out a GHG estimation with CBP

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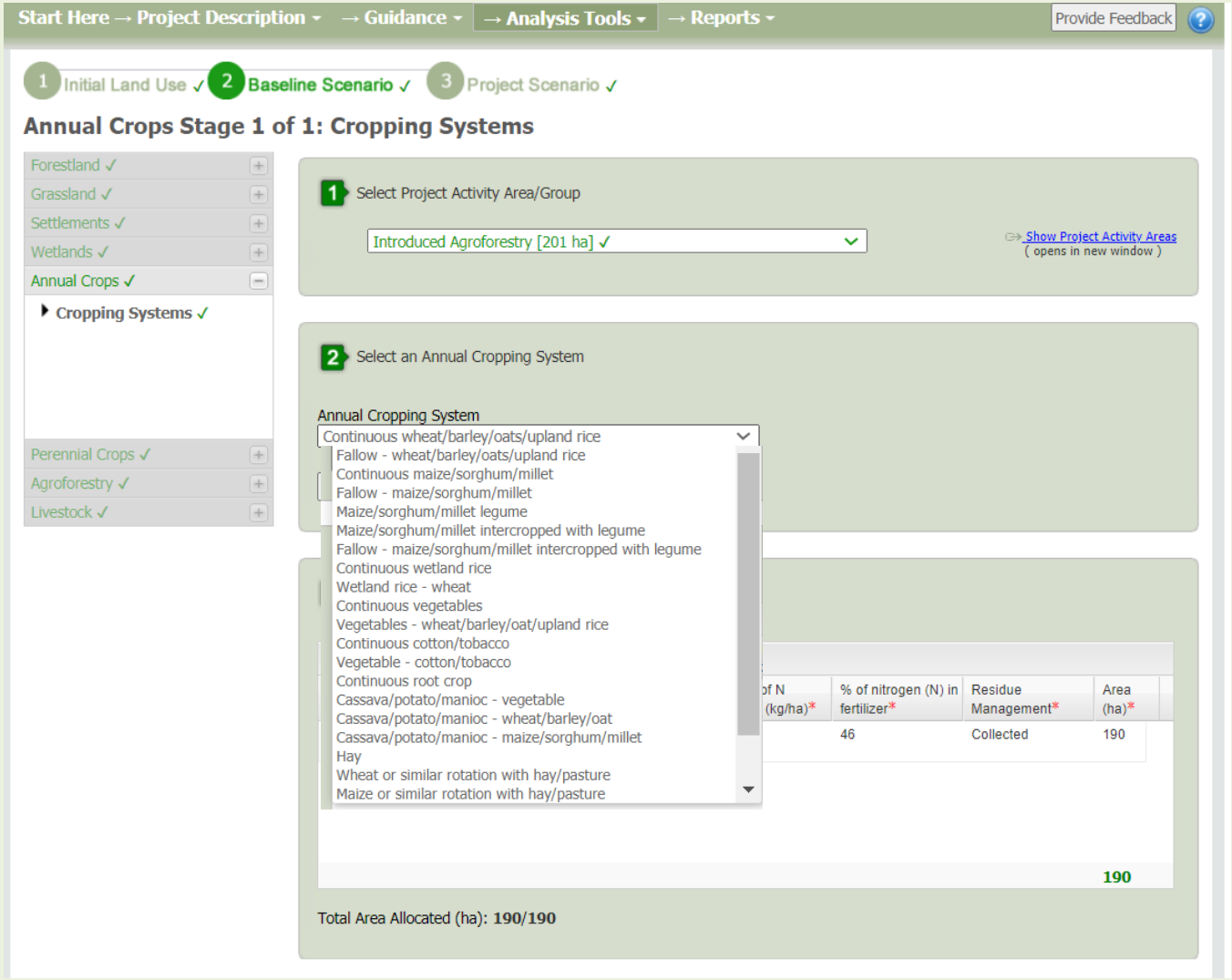

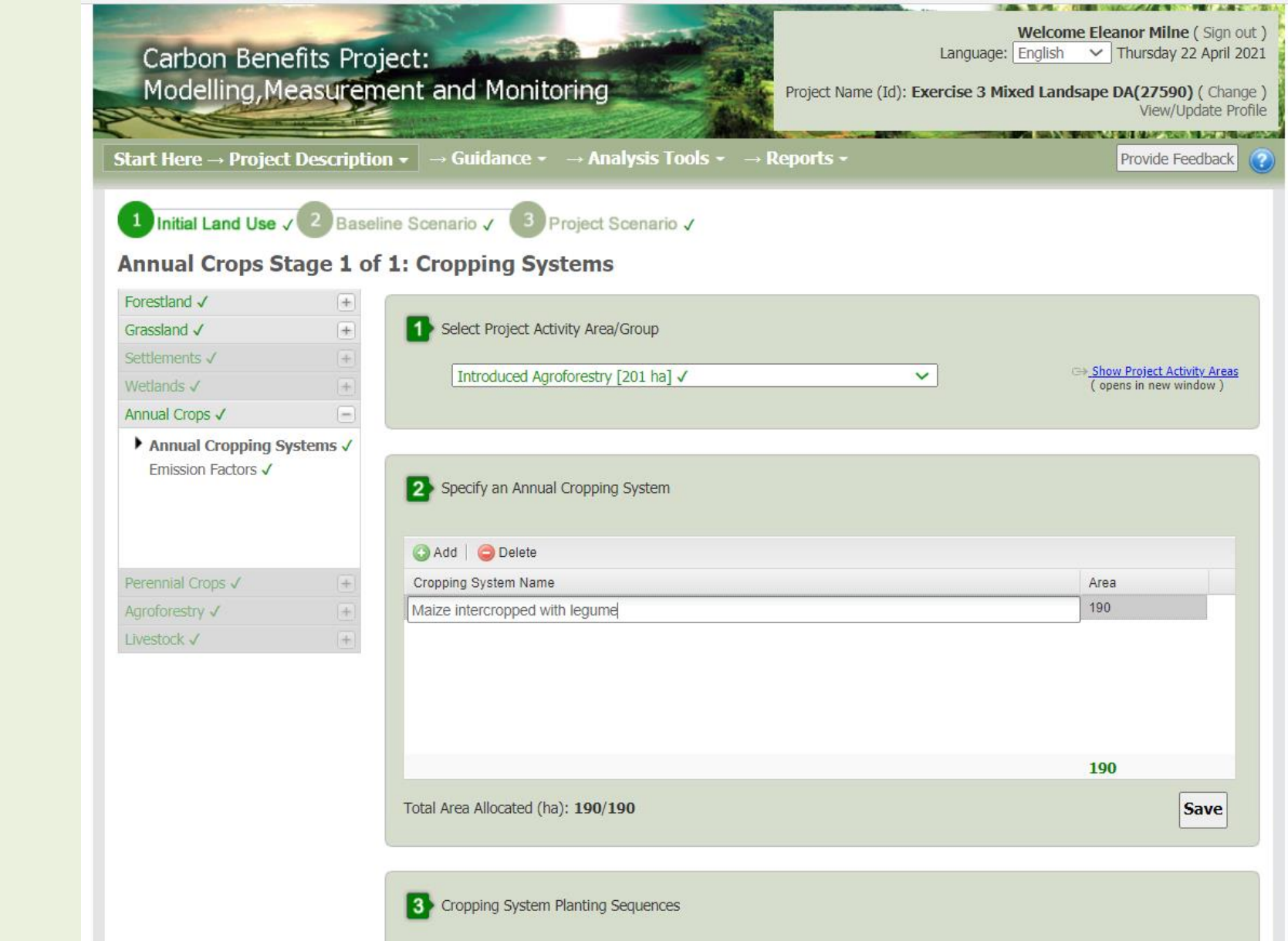
Carbon Benefits Project:
Modelling,Measurement and Monitoring
Welcome Eleanor Milne (Sign out)
Language: English Thursday 22 April 2021
Project Name (Id): Exercise 3 Mixed Landsape DA(27590) (Change)
View/Update Profile
Start Here → Project Description
→ Guidance
→ Analysis Tools
→ Reports
Provide Feedback
1 Initial Land Use ✓
2 Baseline Scenario ✓
3 Project Scenario ✓
Annual Crops Stage 1 of 1: Cropping Systems
Forestland ✓
Grassland ✓
Settlements ✓
Wetlands ✓
Annual Crops ✓
Annual Cropping Systems ✓
Emission Factors ✓
Perennial Crops ✓
Agroforestry ✓
Livestock ✓
1 Select Project Activity Area/Group
Introduced Agroforestry [201 ha] ✓
Show Project Activity Areas
(opens in new window)
2 Specify an Annual Cropping System
Add
Delete
Cropping System Name
Area
Maize intercropped with legume
190
190
Total Area Allocated (ha): 190/190
Save
3 Cropping System Planting Sequences

3 Cropping System Planting Sequences

Add | Delete

Year	Crop 1 (required)	Crop 2 (optional)	Crop 3 (optional)
1	maize, dry	legumes and pulses, fresh	

4 Crop Management Details

Year	Planting Sequence	Crop Name	Residue Management*	Tillage System*	Fert	Amount of N Fertilizer (kg/ha)*	% of nitrogen (N) in fertilizer*
1	1	maize, dry	Collected	Full	☑	5	46
1	2	legumes and pulses, fresh	Collected	Full	☐	0	0

Save | Back | Next

Carbon Benefits Project

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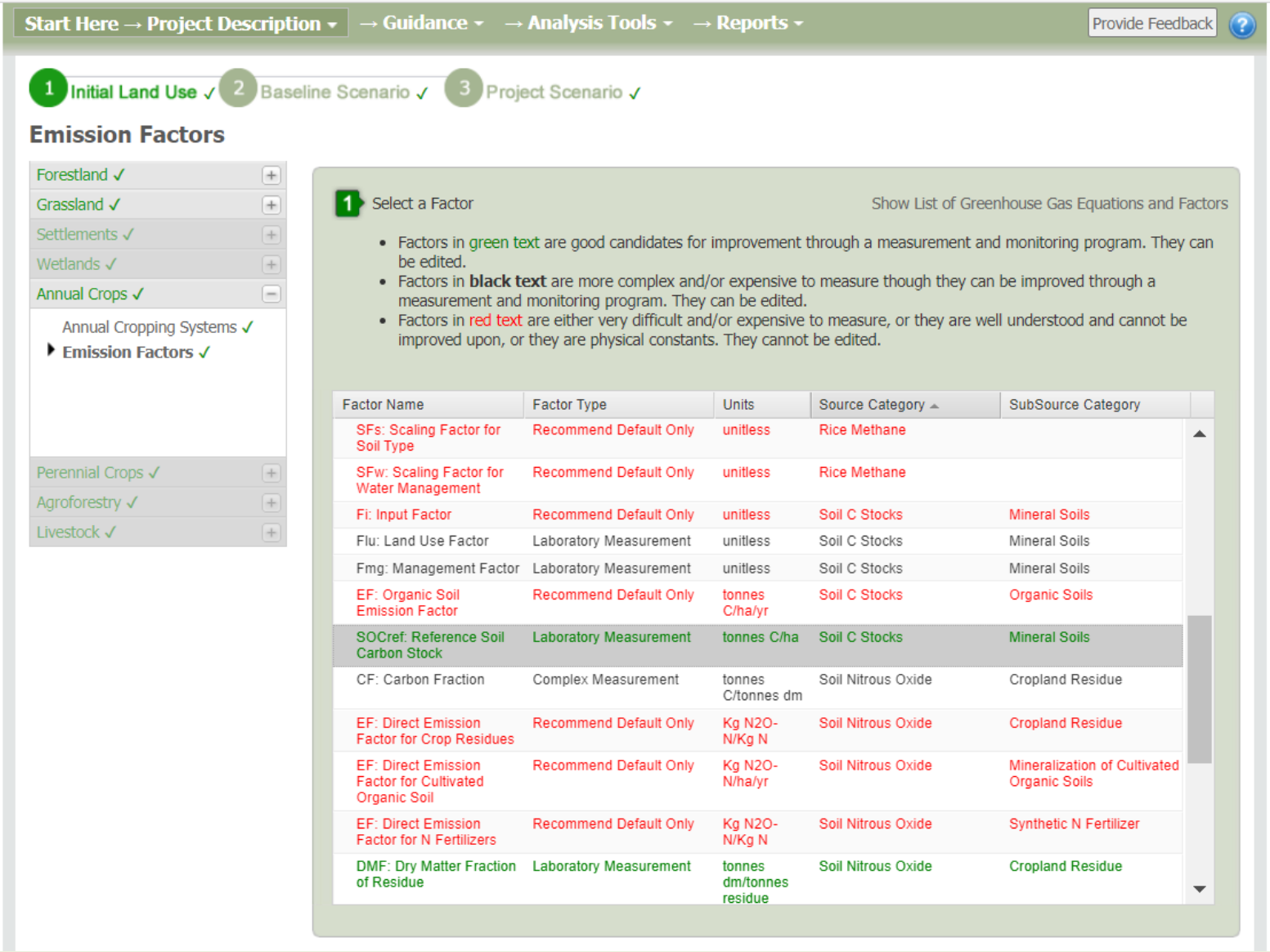

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Please Select One of the Following to Create a Report

Rerun Calculations

1 Summary Report Options

Create Summary Report for Review | View Graphs

A1 | Mineral Soils C Stocks

	A	B	C	D	E	F	G
26	Fmg	Uncertainty in Fmg	Percent	Factor Uncertainty			
27	Fmg	Management Factor	unitless	Factor Value			
28	InputSoilCls	Input Soil Class		Stratum			
29	LUSoilCls	Land Use Soil Class		Stratum			
30	MgmtSoilCls	Management Soil Class		Stratum			
31	Project Activity Area	Project Activity Area Group		Stratum			
32	SOC	Mineral Soils C Stocks	tonnes C	Equation Result			
33	SOCref	Uncertainty in SOCref	Percent	Factor Uncertainty			
34	SOCref	Reference Soil Carbon Stoc	tonnes C/ha	Factor Value			
35	Soil	Soil		Stratum			
36	SubCategory	Activity Data Subcategory		Stratum			
37	Uncertainty (%)	Uncertainty in Equation Re	Percent	Result Uncertainty			
38	**Results:**						
39	**Project Activity Area**	**Climate**	**Soil**	**Category**	**SubCategory**	**MgmtSoilCls**	**InputSoilCls**	**LUSoilCls**
40	Introduced Agroforestry	Tropical Montane	Low Activity Clay Mineral	Agroforestry	Avacado and Banana with c	Reduced Tillage	Medium	Long Term
41	Reforestation Area 1	Tropical Montane	Low Activity Clay Mineral	Forestland	Kakamega Native	N/A	N/A	Permaner
42	Reforestation Area 1	Tropical Montane	Low Activity Clay Mineral	Forestland	Tropical mountain systems	N/A	N/A	Permaner
43	Reforestation Area 1	Tropical Montane	Low Activity Clay Mineral	Forestland	Tropical mountain systems	N/A	N/A	Permaner
44	Avoided Deforestataion Ar	Tropical Montane	Low Activity Clay Mineral	Forestland	Tropical mountain systems	N/A	N/A	Permaner
45	**Total**							

Signs for uptake are (-) and for emissions (+).
Other GHGs include NOx, CO, VOC, SO2.
Values not identified as 'stocks' are emissions.
A. Forest and other Woody Biomass includes biomass growth and losses from timber harvest and fuelwood gathering.
B. Forest and Grassland Conversion includes emissions from deforestation and shifting cultivation.

net reduction in emissions.

Highcharts.com

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- Choosing SLM technologies with the WOCAT database
- Estimating climate change impacts with the CBP tools and linking back to WOCAT
- Collating supporting data in the field with LandPKS