

Climate Forestation Projects

October 2010

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Chairman of the Technical Board
at the CarbonFix Standard





Introduction

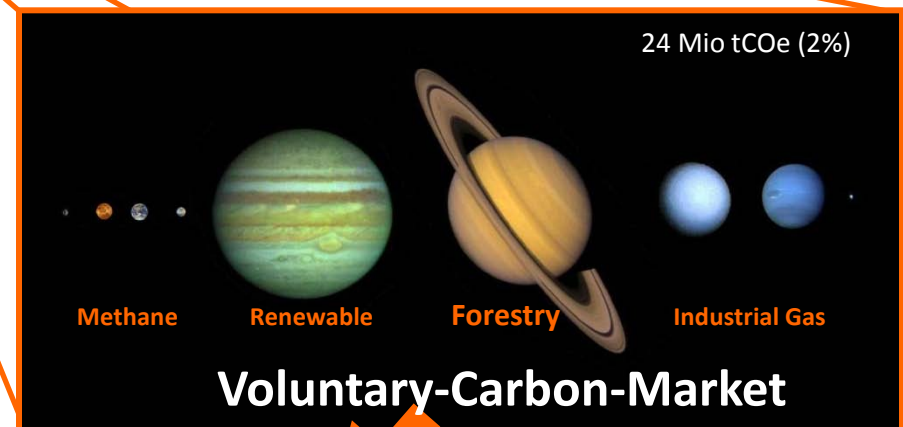
Market Overview



2010 Source: State of the Voluntary Carbon Market



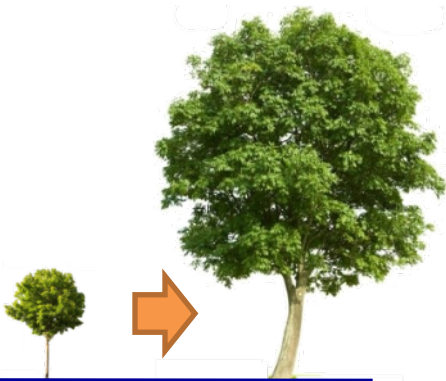
- 2 000 registered projects
- 16 are forestry (0,1%)



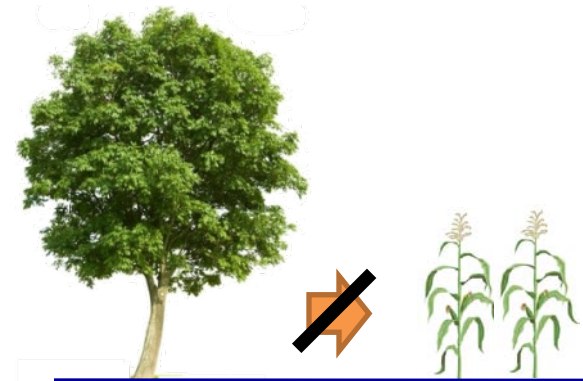
- 24% are forestry (~25 projects)



Type of Projects

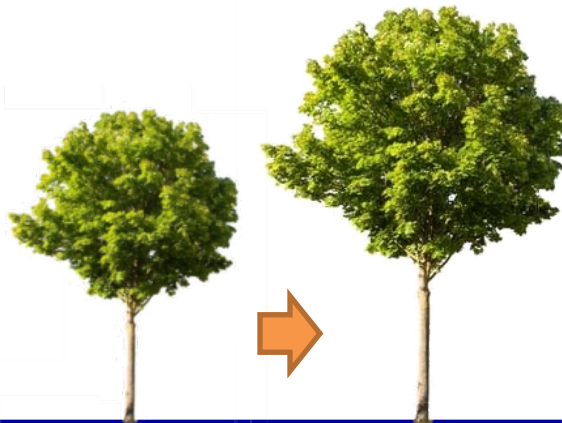


Afforestation / Reforestation (A/R)



Avoided Deforestation (REDD)

Reducing Emissions from Deforestation and Degradation

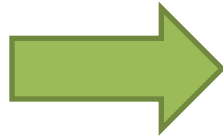


Improved Forest Management (IFM)

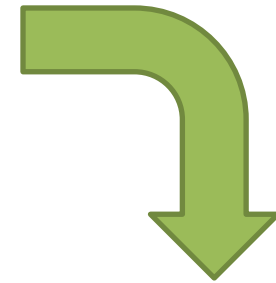
Process to get Carbon Credits



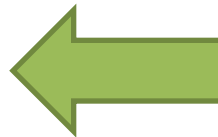
Project development



**Documentation
according to Standard**



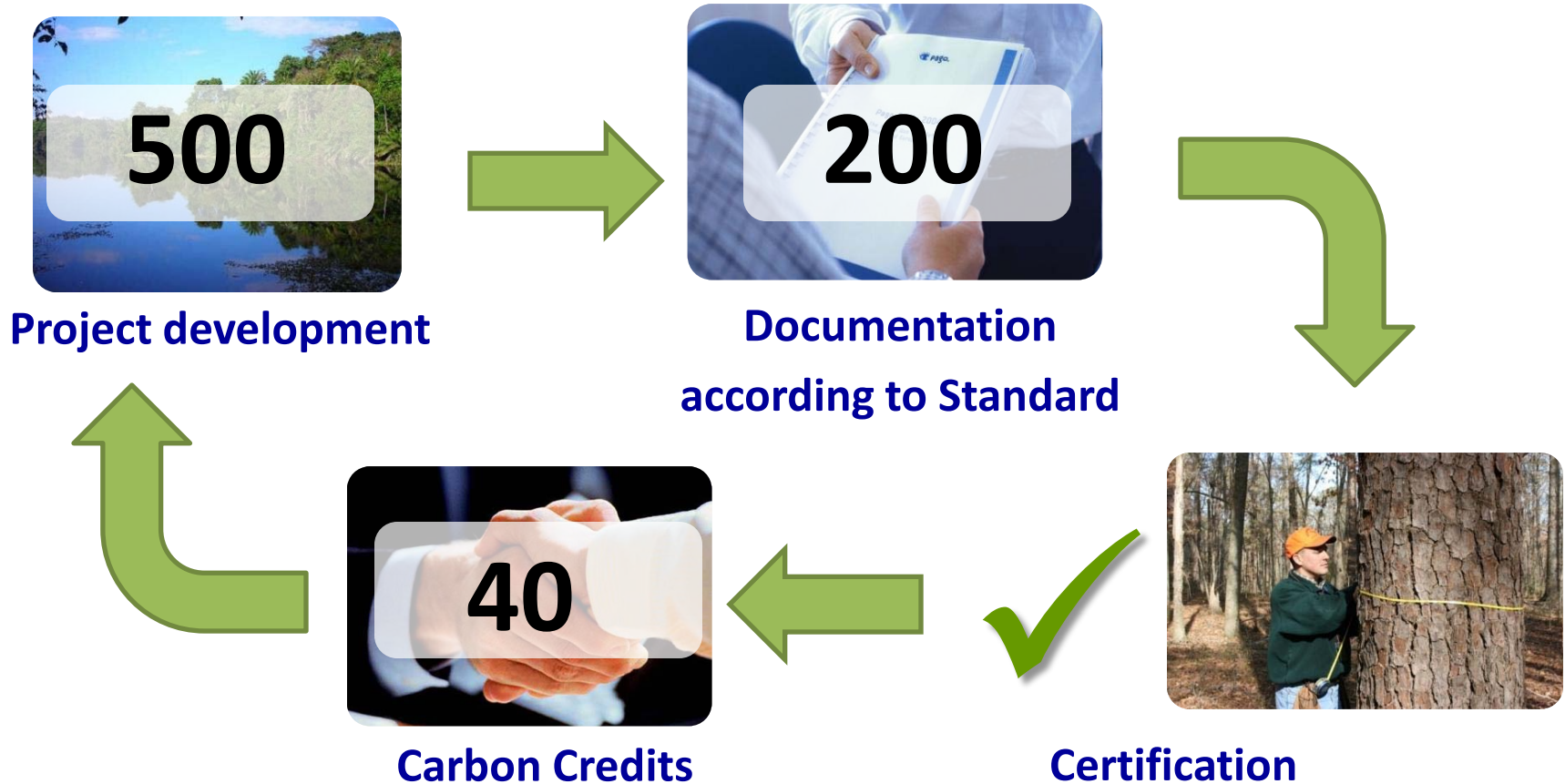
Certification



Carbon Credits



A/R Projects on the Market



A low-angle, upward-looking photograph of a dense forest. The image captures the intricate network of tree trunks and branches reaching towards a thick canopy of vibrant green leaves. Sunlight filters through the foliage, creating a bright, glowing effect in the center-right area, with rays of light visible. The overall atmosphere is one of natural beauty and growth.

CarbonFix Standard

CarbonFix is ...



... non-profit organisation registered in Stuttgart, Germany

... founded in 1999 to follow the UN process + advocate for A/R

... admitted by  

... financed by donations & fees

... neither developing or certifying projects, nor buying or selling CO₂



A/R Projects on the Market



7 registered (3 certified, 4 pre-validated)
25 pipeline *



16 registered
56 pipeline (many inactive)



1 registered - U.S.



1 registered
30 - 40 pipeline *



~10 registered - U.S.

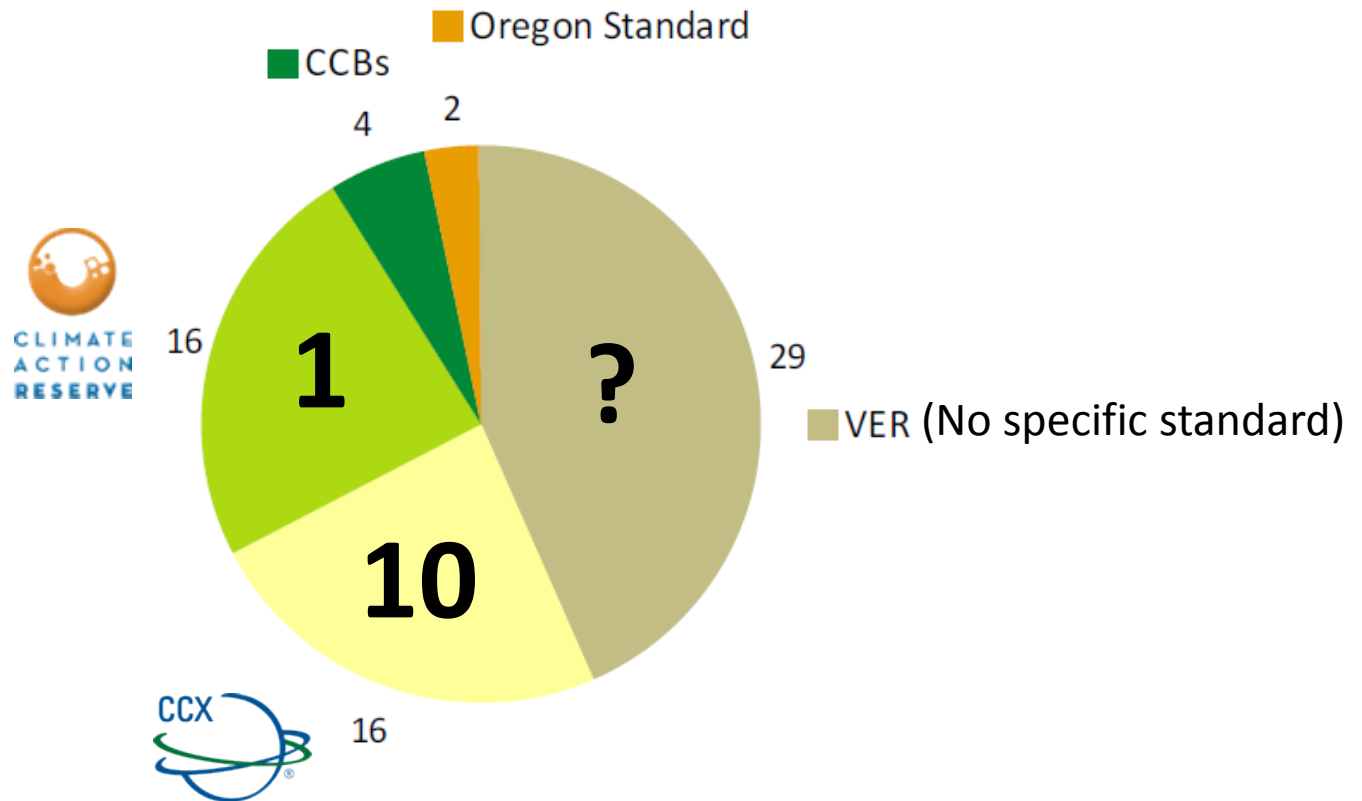
* own statement (not public)



U.S. Forestry Projects by Standards



A/R



September 2010 Source: Project Database ONF



Applied by over 30 Projects



BaumInvest
RENDITE MIT VERANTWORTUNG

World Vision

AGRIGEORGIA
აგრიგეორგია

gtz

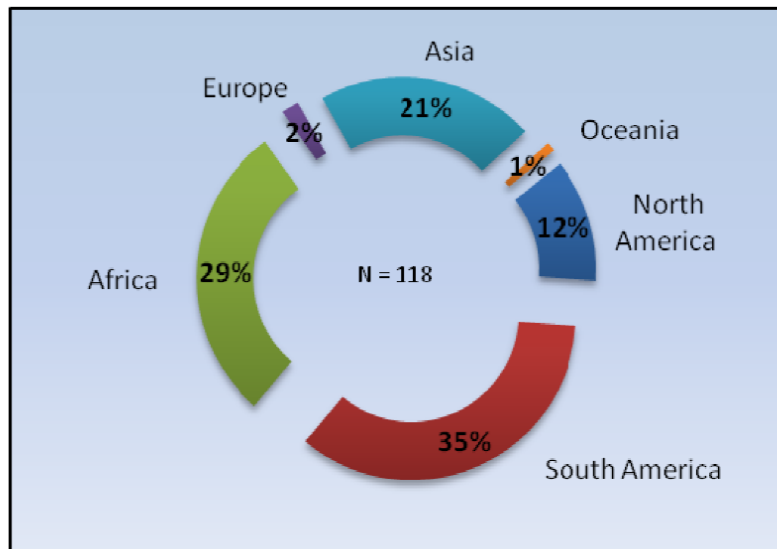
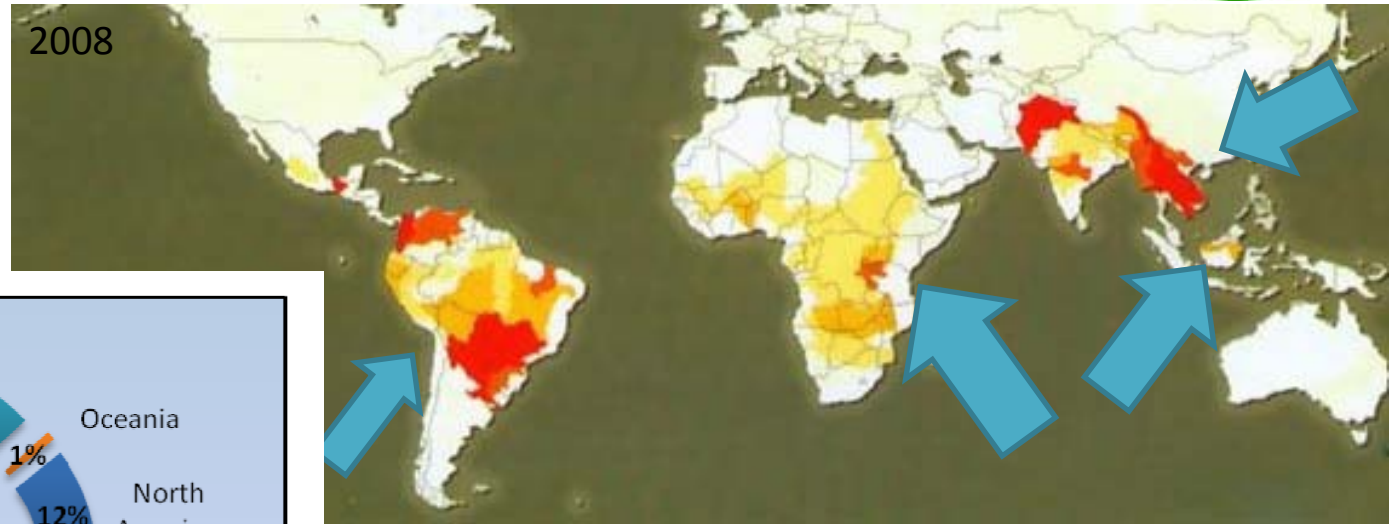
global-woods
international AG

CO₂OL
www.co2ol.de

**CARBON FREE
CONSULTING**



Where are A/R projects ?



~ 40 projects

Figure 2: Location of A/R projects

August 2010 CarbonPositive Market report



Type of Standards



Kyoto



Voluntary



CLIMATE
ACTION
RESERVE



No credits !

Add-On



No credits !



Cap&Trade in North America



	<i>California Assembly Bill 32</i>	<i>RGGI</i>	<i>WCI</i>	<i>MGGRA</i>	<i>ACESA (H.R. 2454)</i>	<i>CEJAPA (S.1733)</i>	<i>APA</i>
<i>Afforestation/ Reforestation</i>				: yet defined			
<i>Conservation/ Preservation</i>							
<i>Improved Forest Management</i>							

Which Standards: still uncertain

September 2010 Source: ONF, US Carbon Markets



CarbonFix Standard



... launched CarbonFix Standard v1.0 in December 2007

... to simplify UN standard



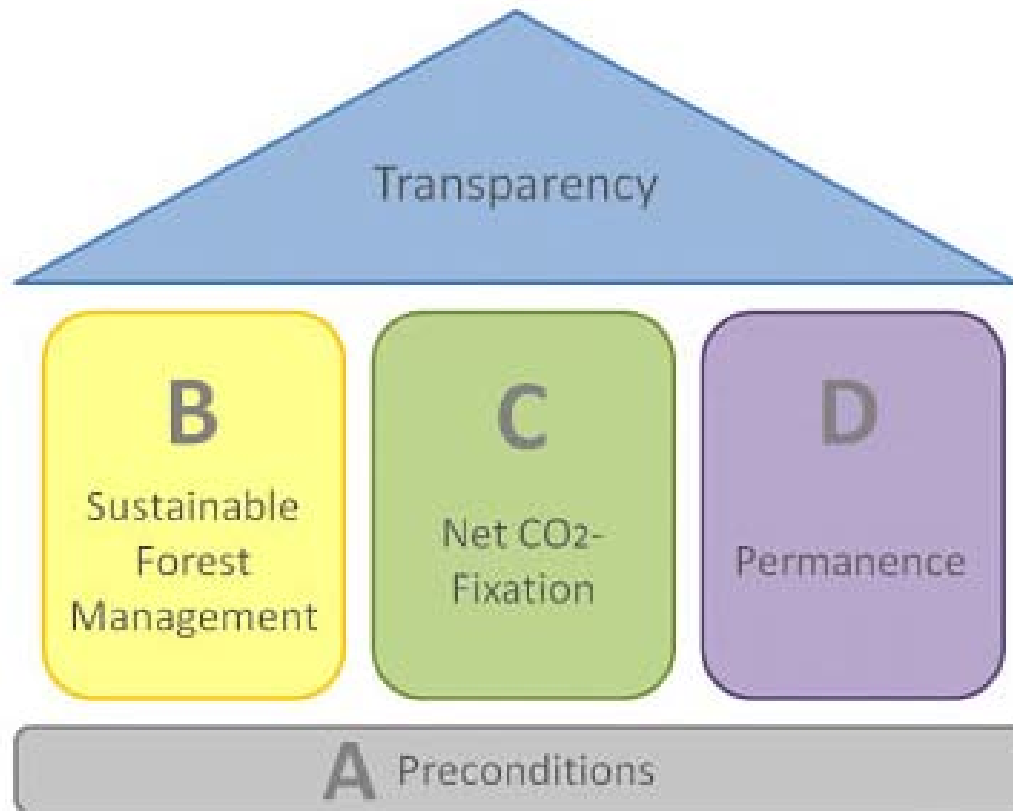
- lower development cost & time
- ➡ simplified methodology
- ➡ easy understandable criteria
- ➡ clear structure
- ➡ 400 vs 40 pages

... 3 public reviews - Now Version 3.1

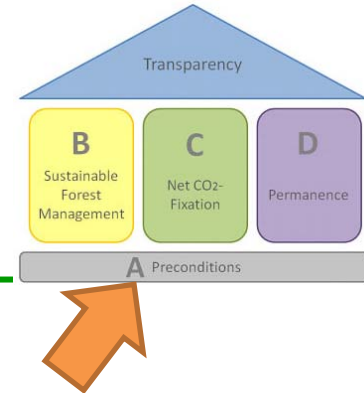
... developed & supported by over 60 organisations



Structure of the CarbonFix Standard



A. Preconditions



Eligibility land

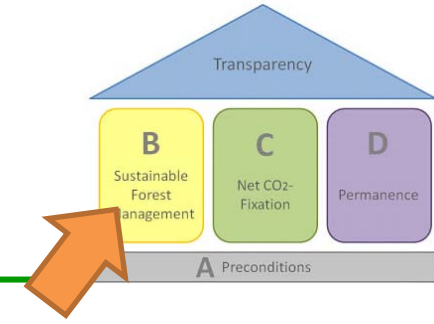
- ✓ 10 years 'no forest' OR Evidence on 'no relation'
- ✓ No wetlands
- ✓ No land endangering food security

Additionality

- ✓ Projects can only be implemented due to the additional money earned from the sale of credits



B. Sustainable Forest Management

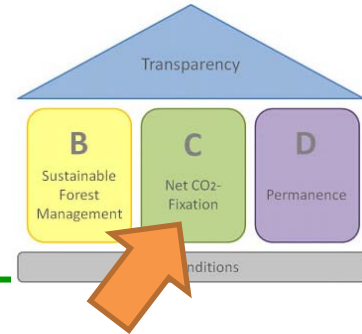


Ecological & Social Co-benefits

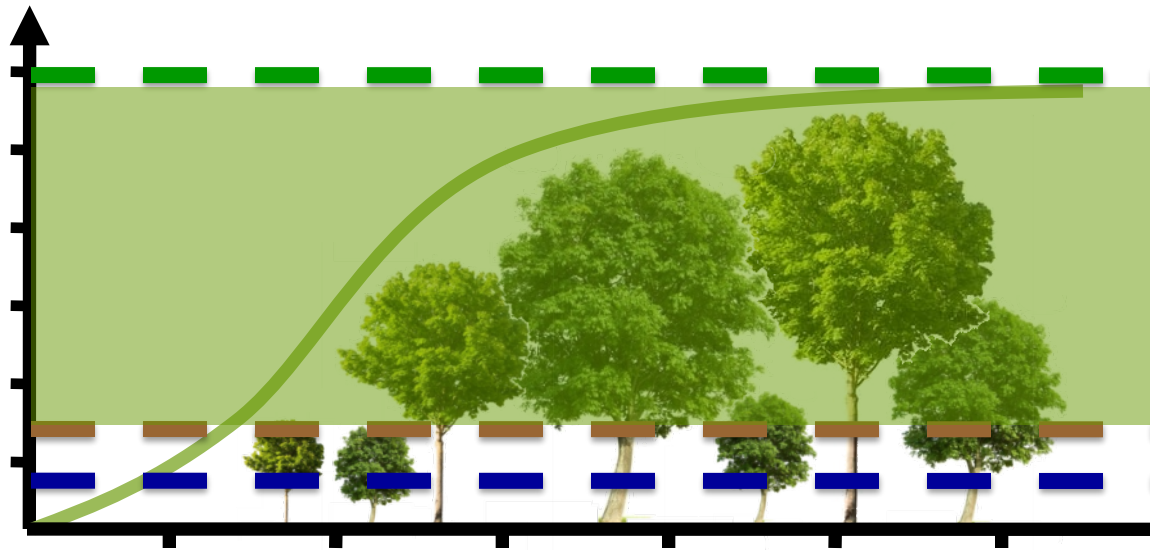
- ✓ Protection of rare species
- ✓ Habitat connectivity
- ✓ Minimized use of chemicals
- ✓ Stakeholder involvement
- ✓ Employment contracts
- ✓ No child-labor



C. Net CO₂-Fixation



tCO₂



CO₂ storage

- 30% Buffer

Leakage
Baseline
Years



C. Net CO₂-Fixation



Simplified Methodology?



Emissions from burning the biomass of the Baseline =



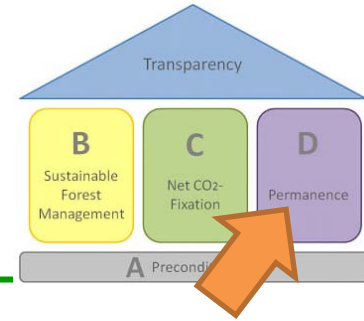
$$E_{BiomassBurn,t} = A_S * B_{AB,shrub} (1 - f_{BL,Shrub}) * CF_{shrub} * \frac{16}{12} * ER_{CH_4} * GWP_{CH_4}$$



Emissions of Baseline burned = Baseline * 10%



D. Permanence



Minimize Risks

- Animals (insects, animals, ...)
- Fire (human made, natural)
- Diseases (bacteria, viruses ...)
- Encroachment of people
- Land tenure
- Mismanagement

Tree species, Protection

Prevention, Protection

Mixed tree species

Stakeholder involvement

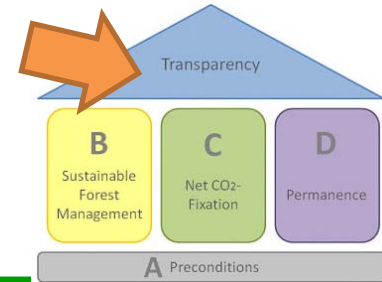
Clear long-term agreements

Management Plan, Certifications

+ Buffer (Insurance)



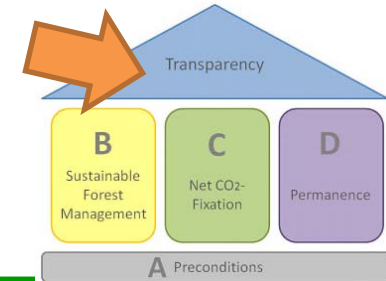
Transparency



The screenshot shows the Climate Projects website. The header includes the logo, navigation links (Contact, Legal Information, About us, FAQ), and a 'Login' button. The main content area features a 'Welcome to ClimateProjects' section with four key points: 'Free and open-source', 'Save costs', 'Continuous development', and 'Tell your story'. Below this, there are three project cards: 'Afforestation in Georgia', 'COSTA RICA, Bauninvest', and 'The Bom Jesus Fuel-Switching project'. At the bottom, there are three more project cards: 'CO2OL Biodiversity', 'CO2OL Tropical Mix', and 'Kikonda Forest Reserve'. A 'Feedback' button is visible on the right side of the page.

- free of charge
- open for all standards
- highest level of transparency
- efficient workflow

Transparency



BaumInvest Reforestation



Infobox



CO₂ Certificates



Project Developer



COSTA RICA. BaumInvest has established a remarkable ecologically and socially sound reforestation project with tropical precious woods in Central America. The aim of the project is to reforest pasture land previously used for extensive cattle ranching in northern Costa Rica using mixed stands of various indigenous tree species as well as teak.

The project area covers 216 ha within the biosphere reserve 'Agua y Paz' recognized under UNESCO's Man and the Biosphere programme. It constitutes part of the habitat of the magnificent Great Green Macaw and other endangered species.

The project will provide secure, long-term employment and fair working conditions for the local population in this rural area of northern Costa Rica. Smallholders may also have access to the project area in order to practise small-scale agro forestry between the trees. This provides them with an additional means of securing their livelihoods. The smallholders can obtain advice from BaumInvest as well as support in the form of micro credits and in respect of marketing their produce. About 30 percent of the project area have been set aside exclusively for nature conservation. In these parts, remaining natural forest and wetlands will come under permanent protection and they will be connected with each other by means of biological corridors for wild animal and plant species.



Documentation



Project brochure



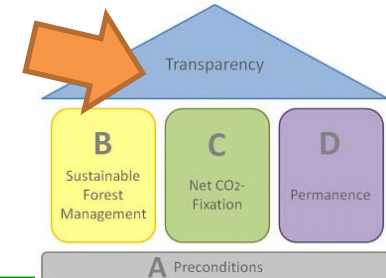
Validation certified by TÜV SÜD
Industrie Service according to
CarbonFix Standard



Efficient Workflow



Efficient Workflow



The aim is to firewood, the lower part of increase tree native and ex

The Sierra Pl century. Defi climate chan farmers.

Project name: Reforestation Sierra Piura

Project ID: PE-RSP

Country: Peru

Certification type: Pre-Validation

Standard: CarbonFix Standard

Version: 3.0

Date of submission: 13 Sep 2010 02:42

Date of certification: Not yet certified

Valid: 1 year

Certification type: Pre-Validation

Upload

Please select a document type

Browse...

Notify Developer

This will notify the project developer that there are news on the rating process.

Cancel Certification

The project developer will be informed by email.

Successfull Certification

This will close the rating process and archive the documentation as new version. *** The date of this

Rating Of Documents

	Created	Delete/ Replace	Rating
			✓ ⓘ ✗
PDD_RSP_CFS [4,0 MB]	21 Sep 2010 ⓘ		
Eligibility_RSP_CFS [1,9 MB]	13 Sep 2010		⊙ ⊙ ⊙
Additionality_RSP_CFS [154 kb]	13 Sep 2010		⊙ ⊙ ⊙
Forest_Management_RSP_CFS [666 kb]	13 Sep 2010		⊙ ⊙ ⊙
Environmental_Aspects_RSP_CFS [515 kb]	13 Sep 2010		⊙ ⊙ ⊙
Socioeconomic_Aspects_RSP_CFS [415 kb]	13 Sep 2010		⊙ ⊙ ⊙
CO2_Fixation_RSP_CFS [193 kb]	13 Sep 2010		⊙ ⊙ ⊙
Baseline_RSP_CFS [122 kb]	14 Sep 2010		⊙ ⊙ ⊙
Leakage_RSP_CFS [134 kb]	13 Sep 2010		⊙ ⊙ ⊙
Capacities_RSP_CFS [407 kb]	13 Sep 2010		⊙ ⊙ ⊙
Land & CO2_Tenure_RSP_CFS [125 kb]	21 Sep 2010 ⓘ		⊙ ⊙ ⊙
Supporting_Doc_RSP_CFS [124,2 MB]	14 Sep 2010		
Eligibility_RSP_CFS [5,7 MB]	13 Sep 2010		⊙ ⊙ ⊙
Additionality_RSP_CFS [8,10 MB]	13 Sep 2010		⊙ ⊙ ⊙
Forest_Management_RSP_CFS [18,7 MB]	13 Sep 2010		⊙ ⊙ ⊙
Environmental_Aspects_RSP_CFS [25,7 MB]	13 Sep 2010		⊙ ⊙ ⊙
Socioeconomic_Aspects_RSP_CFS [20,5 MB]	13 Sep 2010		⊙ ⊙ ⊙

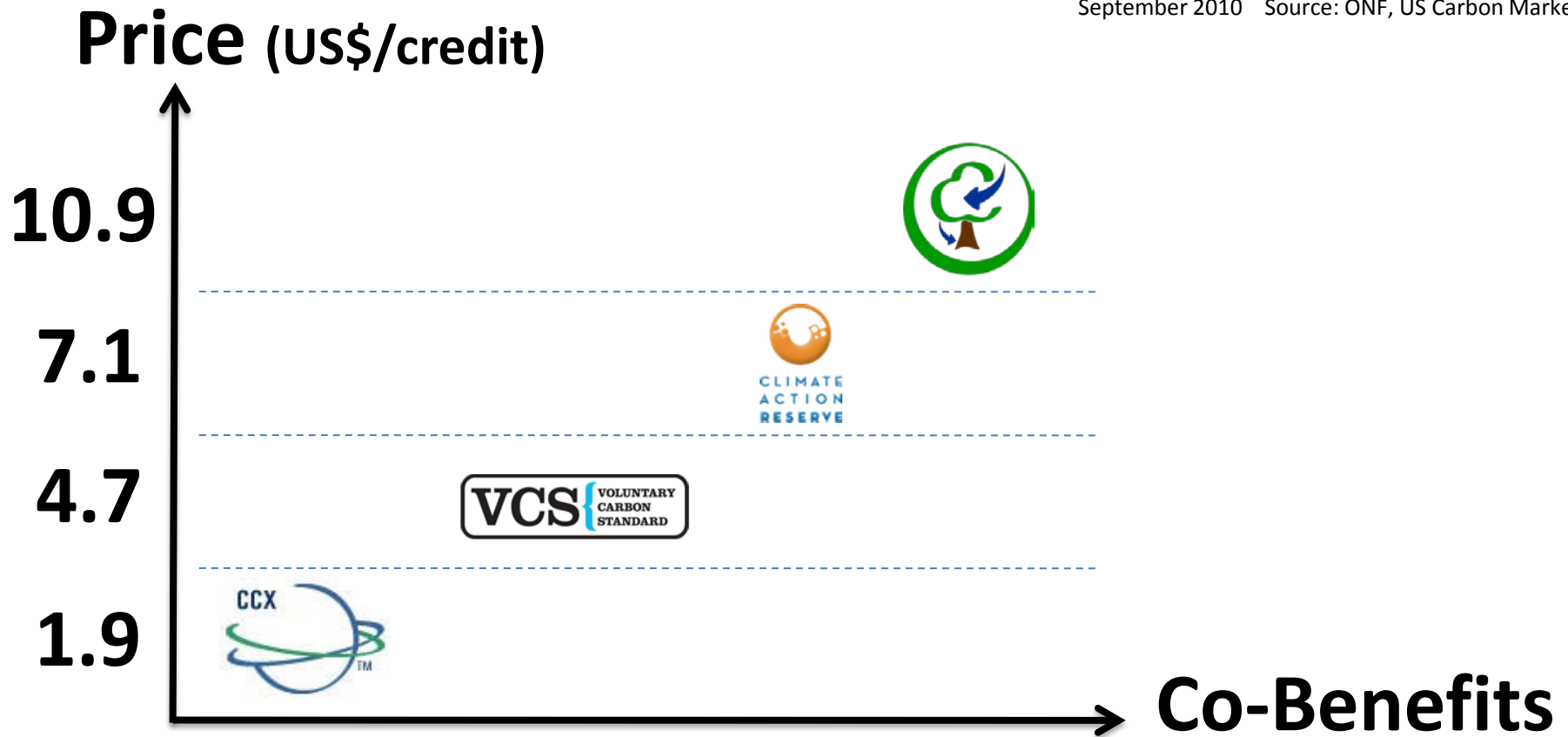


Price of Credits

Co-Benefits drive Prices



2010 Source: State of the Voluntary Carbon Market
September 2010 Source: ONF, US Carbon Markets



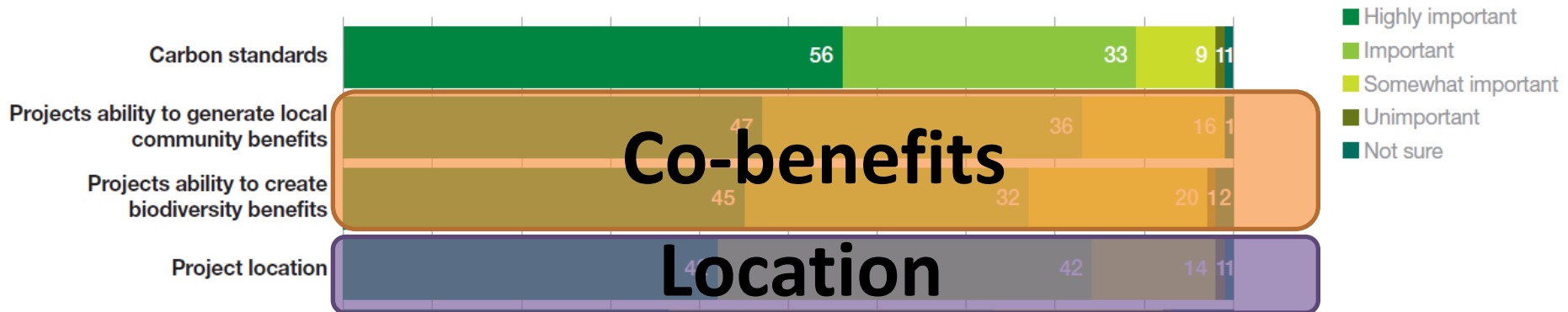
Tell the Project's Story



What U.S. buyers like



73% of corporates find A/R credits positive/very positive

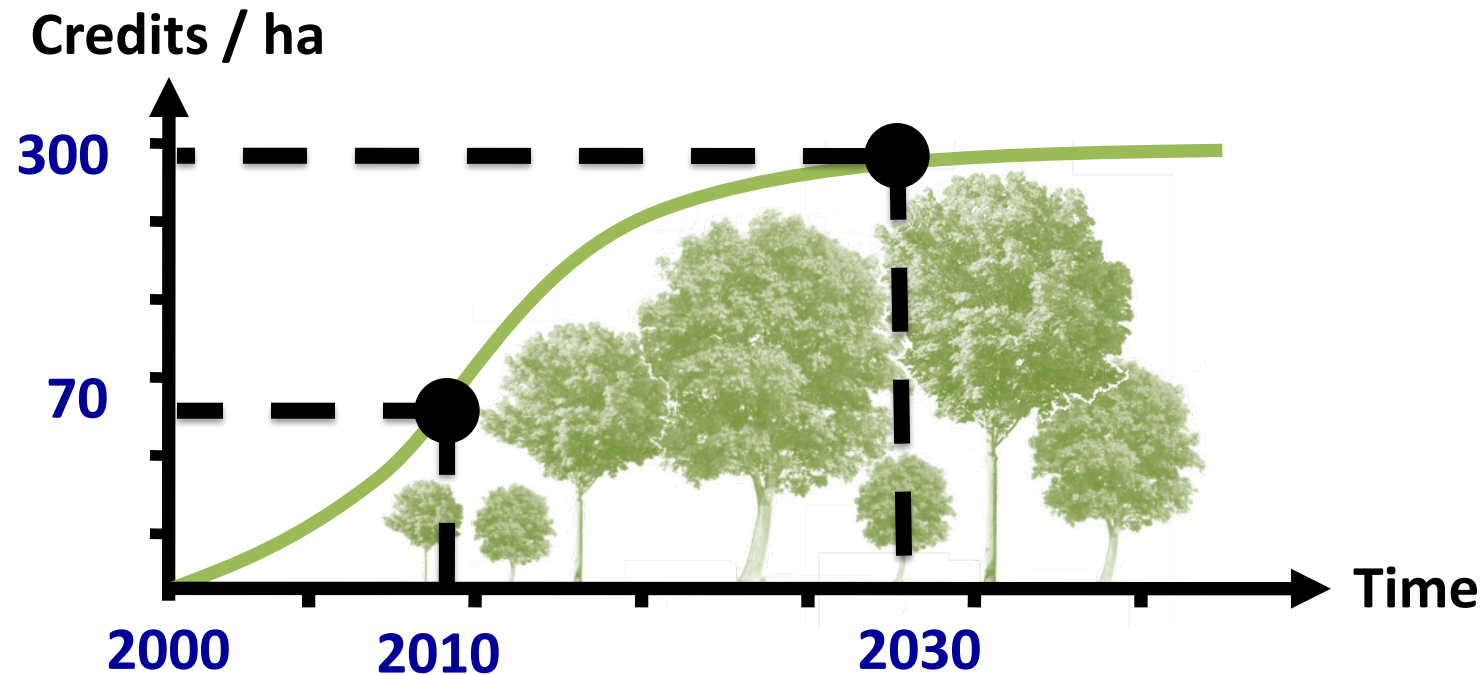


79% desire close location of the project

2010 Source: Forest Carbon Offsetting Report
September 2010 Source: ONF, US Carbon Markets



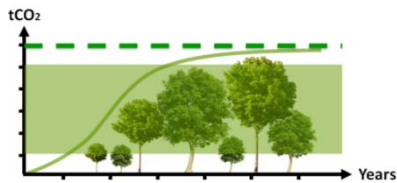
Ex-post vs Ex-ante



- Slower growing tree species
- Mixed stands



How much is Carbon worth?



300 credits/ha

150 credits/ha

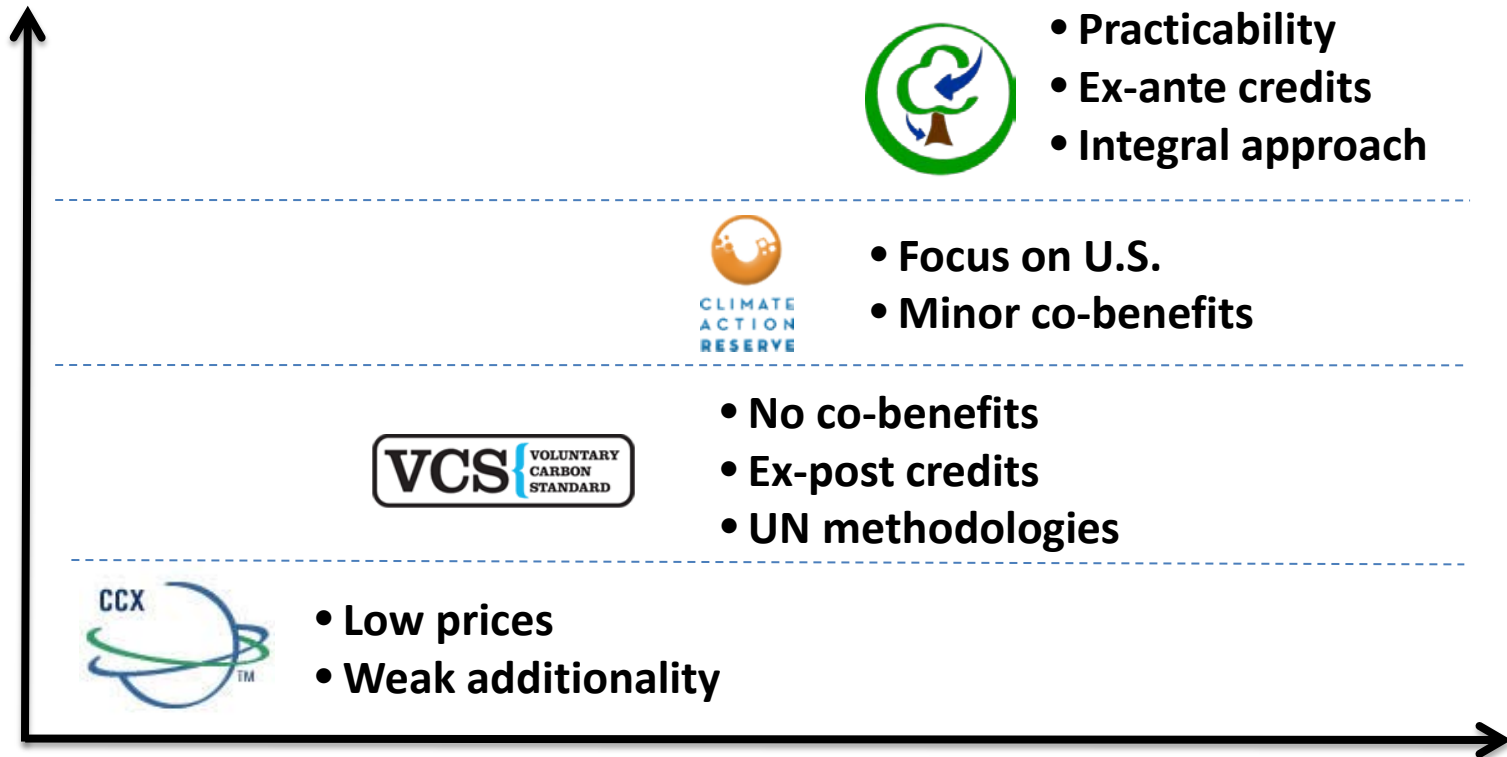
x 10US\$ ≈ 1500 US\$/ha



x 2US\$ ≈ 300 US\$/ha



Differences of Standards





Go Carbon Neutral

Carbon Footprint



32 kgCO₂

1 Night

2.5 kgCO₂

10 Rolls



4 kgCO₂

1 Plate

250 gCO₂

2 Tabs



CarbonNeutral costs

@ 10 US\$ per credit



32 US\$ cent

1 Night

2.5 US\$ cent

10 Rolls



4 US\$ cent

1 Plate

0.25 US\$ cent

2 Tabs



CarbonNeutral costs

@ 10 US\$ per credit

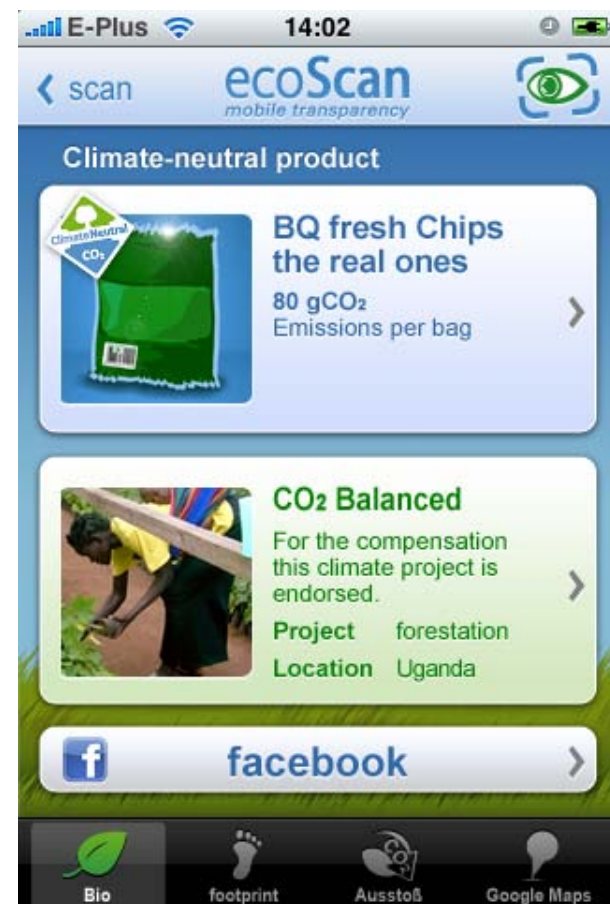


+ 1%



Innovation in the Carbon Market







Forestry & Carbon



Information



In the back of this room

www.CarbonFix.info





Thanks

m.vohrer@carbonfix.info