

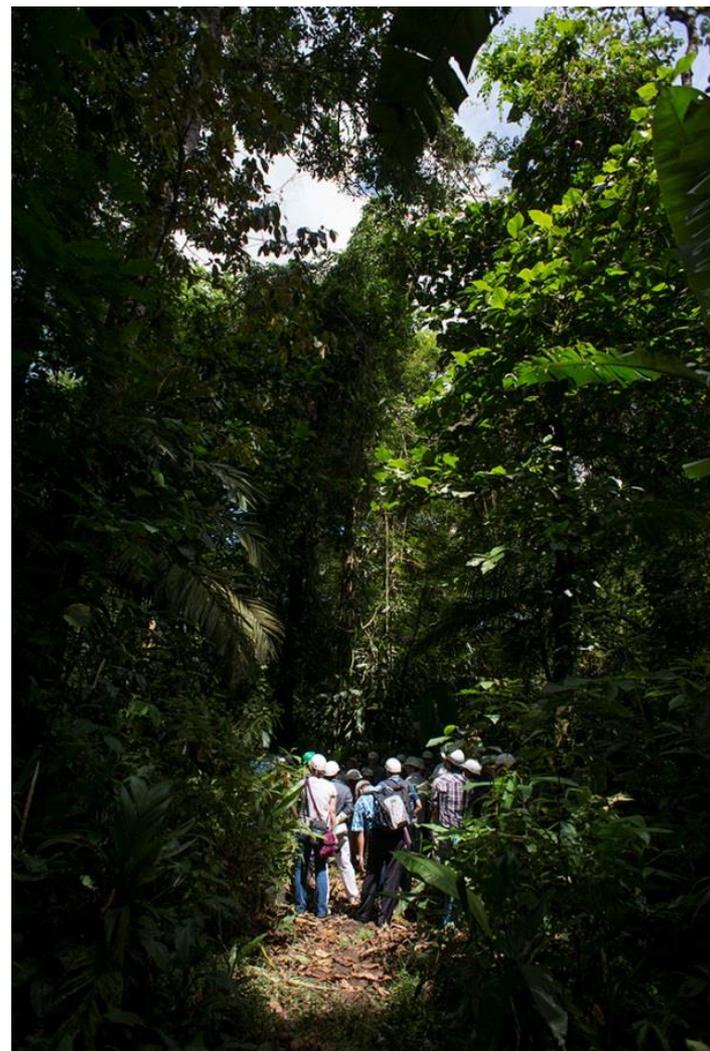


Forest Reference Levels and REDD+ results submitted to the UNFCCC; An overview

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FREL/FRL lead REDD+ FAO

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- ➔ Global overview
- ➔ Regional overview
- ➔ Looking into the FREL/FRLs
- ➔ How do the FRL and NDC relate

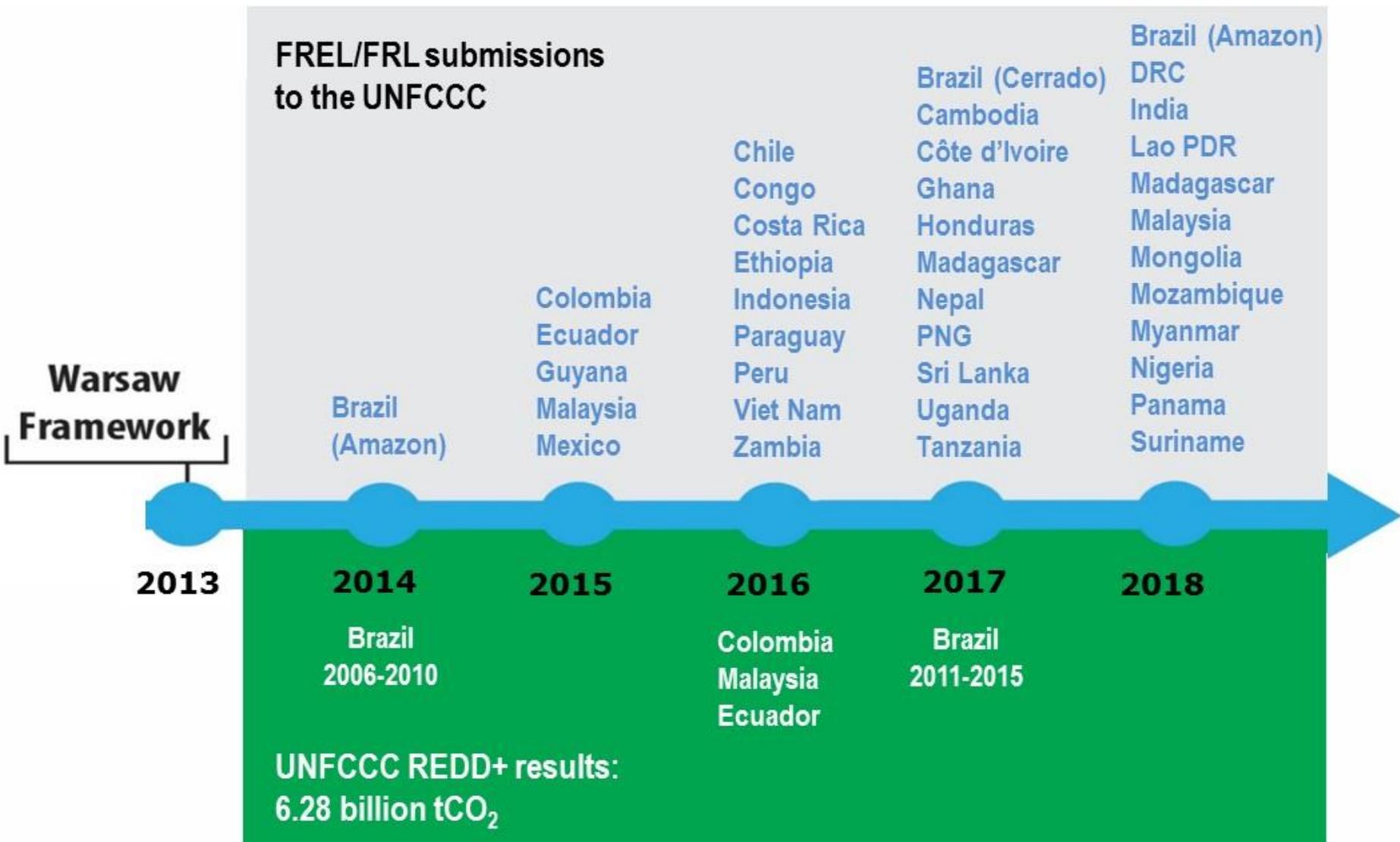


Global progress

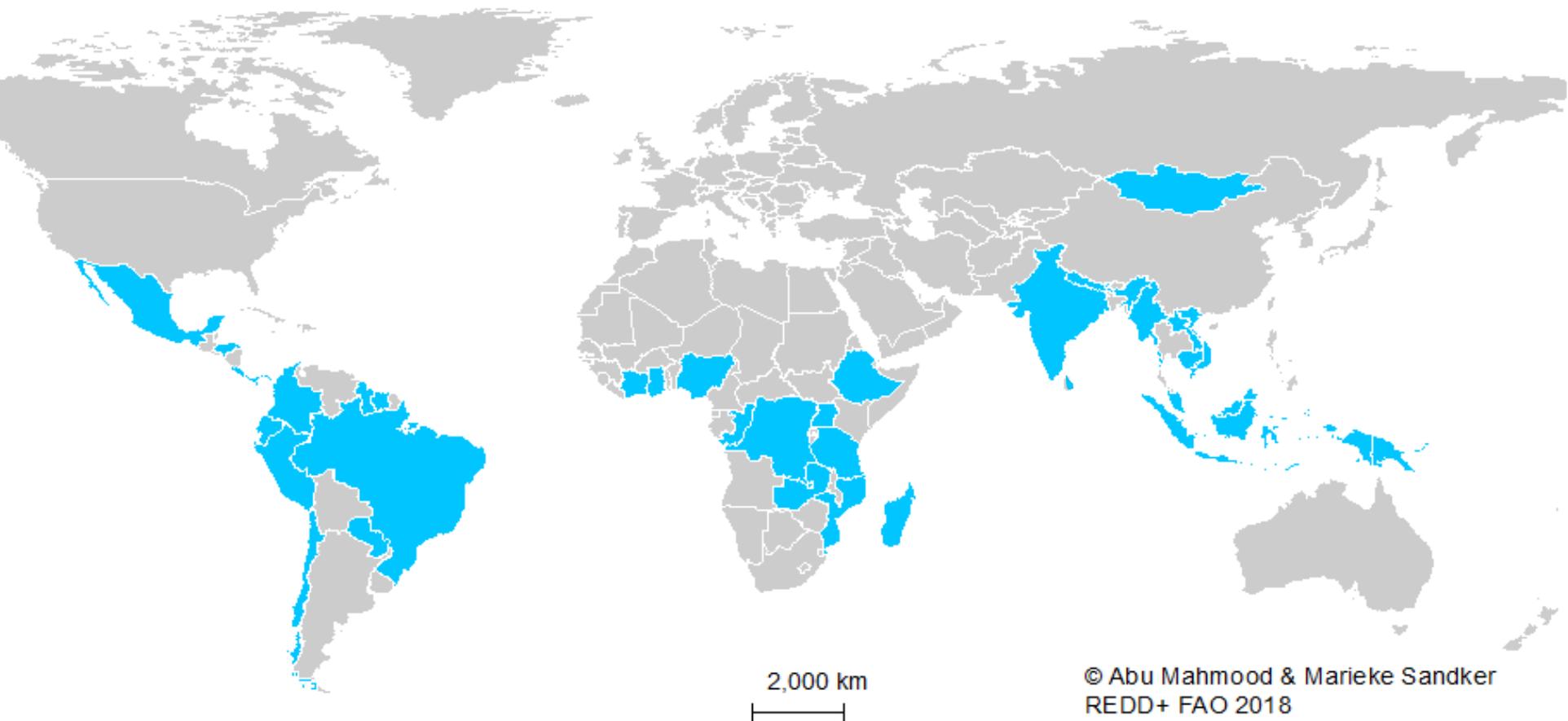


Warsaw framework is the starting point for FREL/FRL submissions to the UNFCCC

Global progress



Representing a forest area of **1.4 billion ha**



and **66% of worldwide deforestation**

Asia-Pacific regional progress

FREL/FRL submissions
to the UNFCCC

Warsaw
Framework

2013

2014

2015

2016

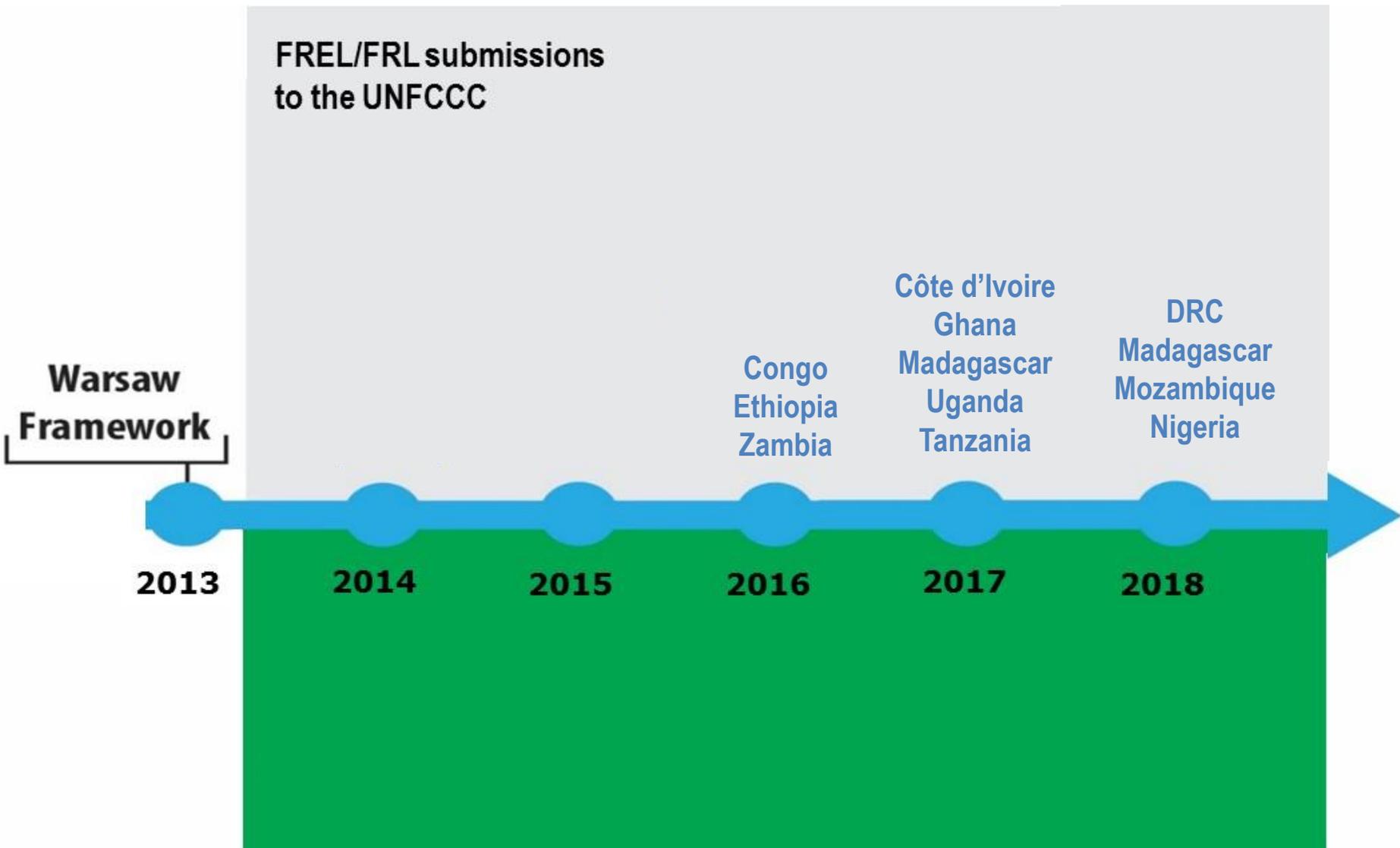
2017

2018

Congo
Ethiopia
Zambia

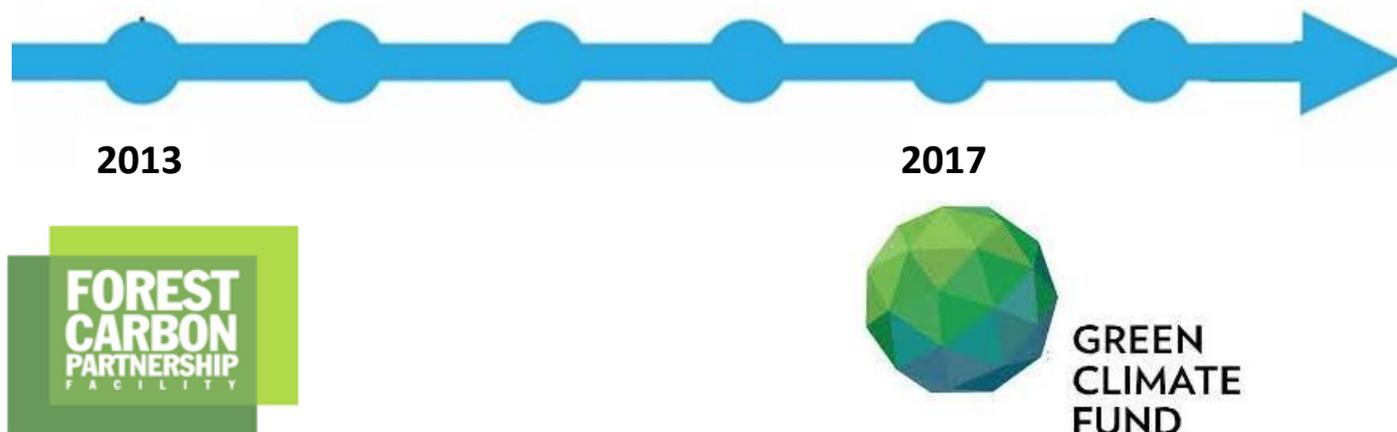
Côte d'Ivoire
Ghana
Madagascar
Uganda
Tanzania

DRC
Madagascar
Mozambique
Nigeria

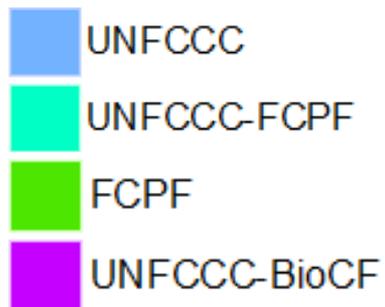
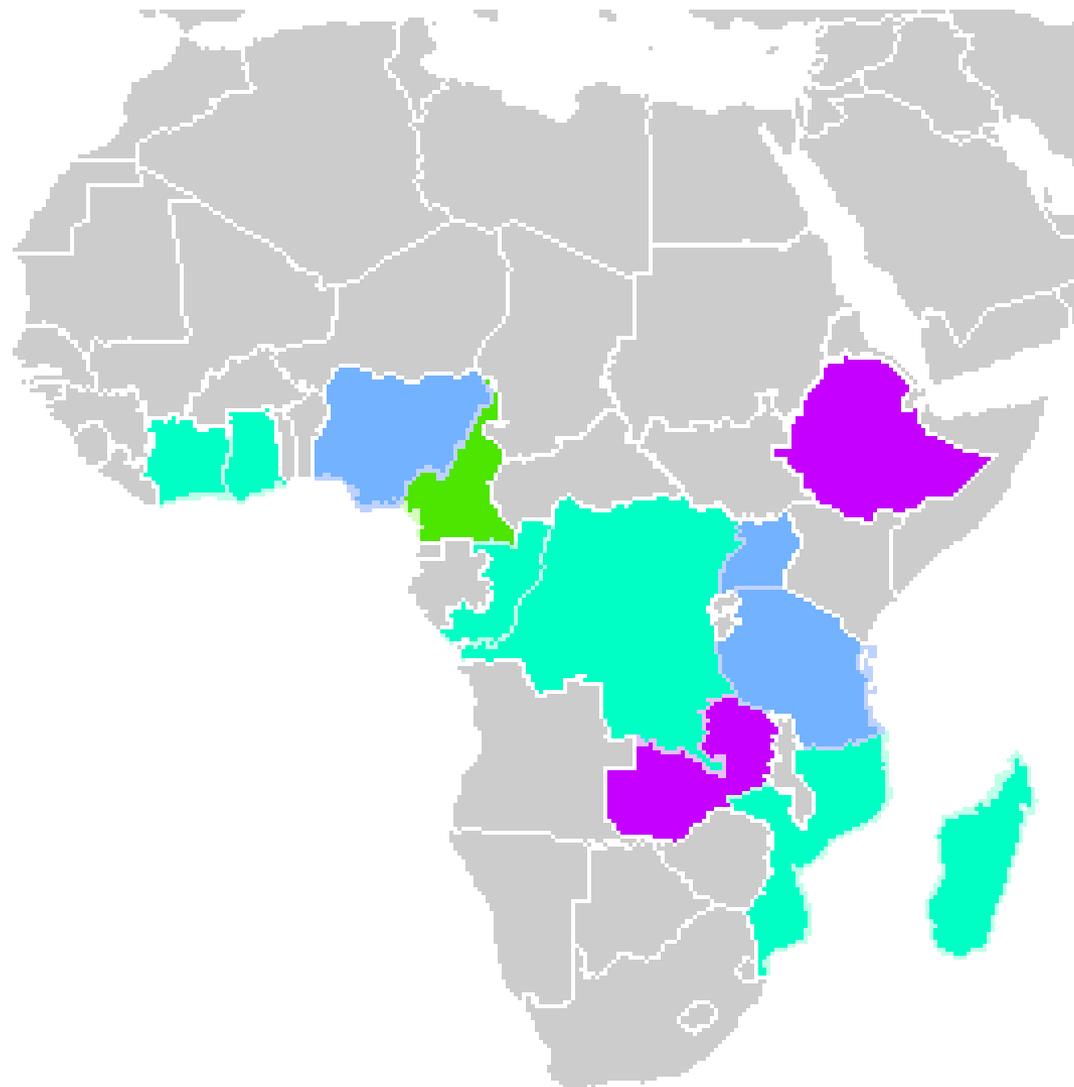


Objective FREL/FRL submission?

Several objectives but most countries
aspire results-based payments

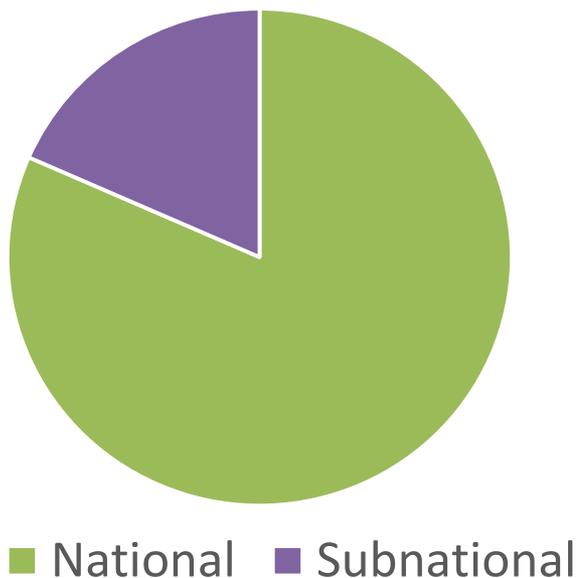


REDD+ participation Africa



Stock take of FRL submissions - scale

Global



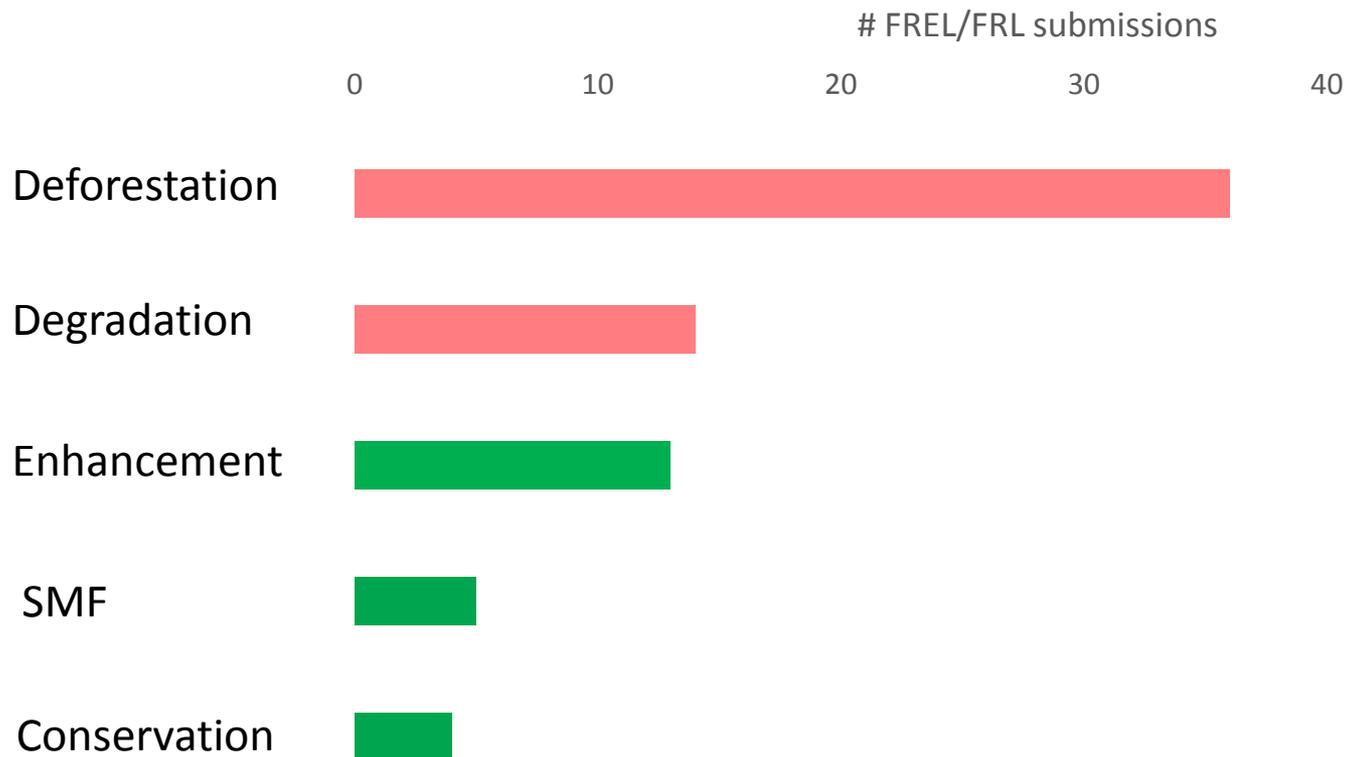
Africa

Only 1 country out of 11 submitted subnational

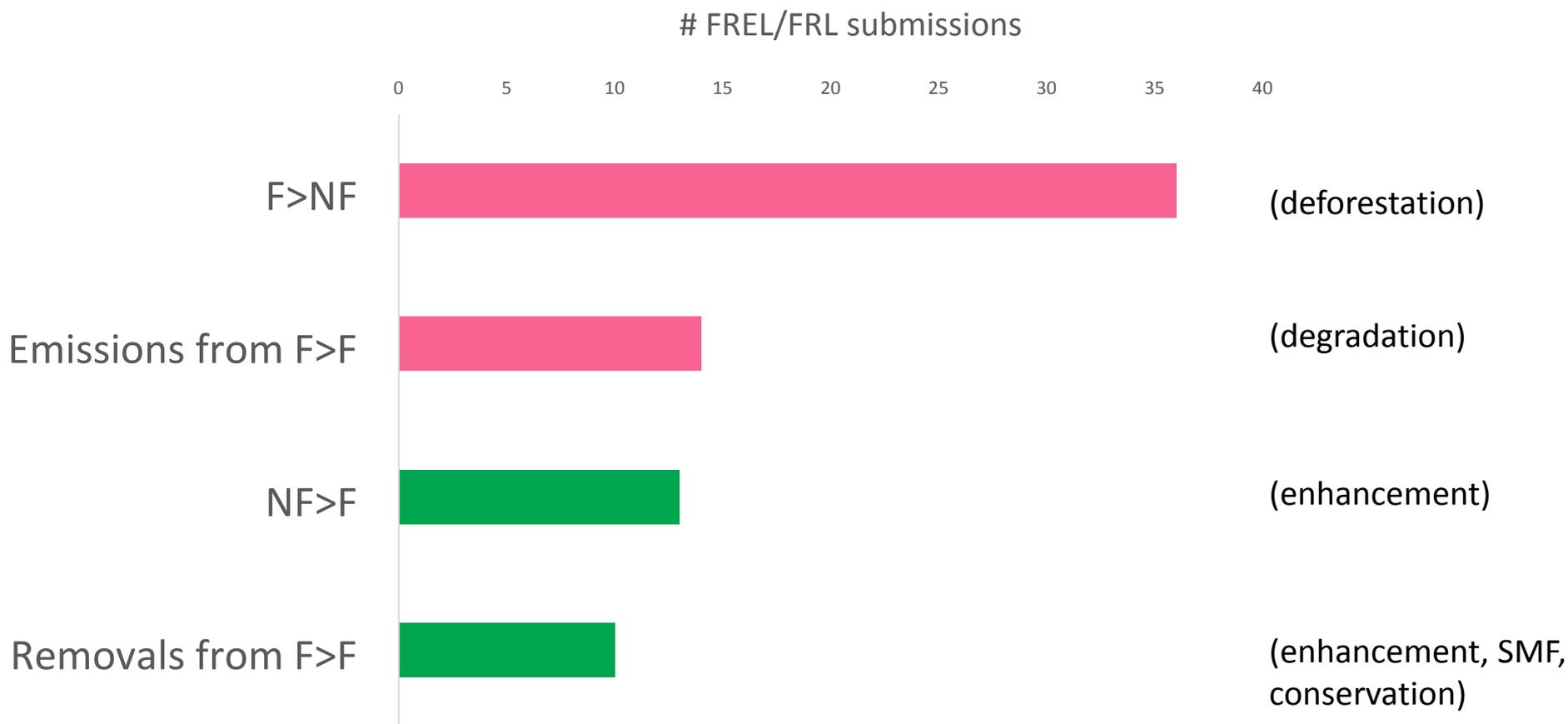
What activities are included? Global

REDD

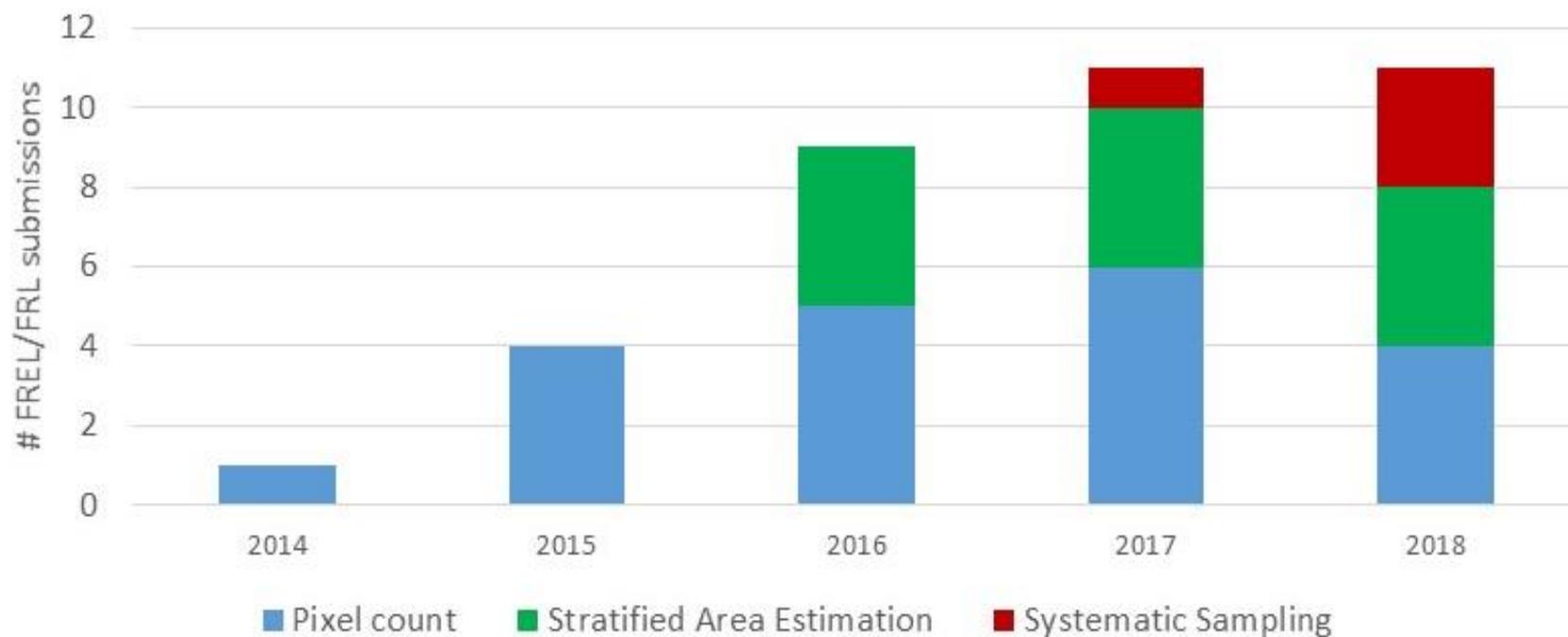
Plus



Translated into IPCC subcategories



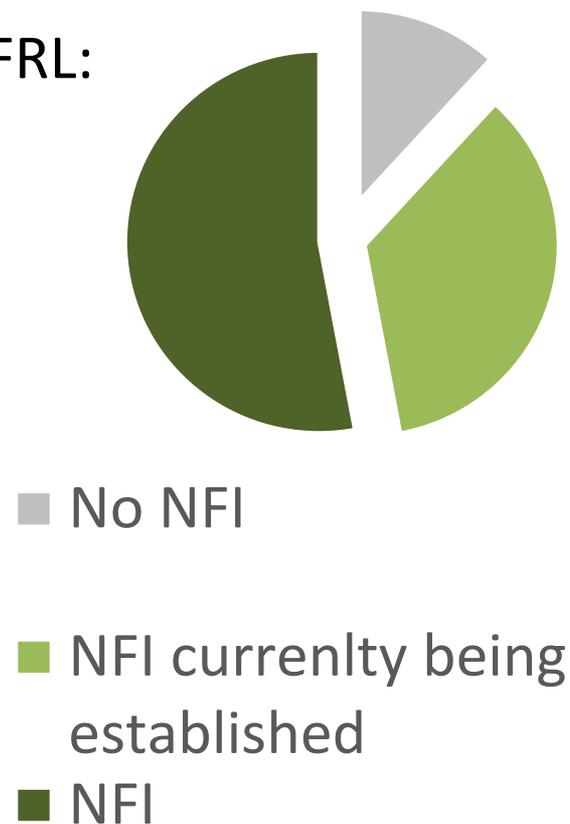
How was deforestation assessed?



How was associated EF assessed?

Of 34 countries which submitted a FREL/FRL:

- Most countries use NFI to assess EF
- 94% of countries use inventory data

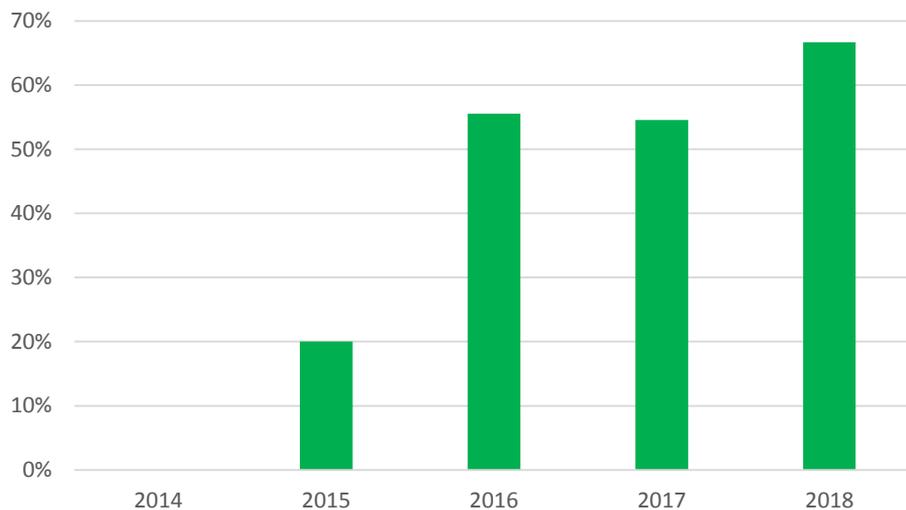


How was degradation assessed?

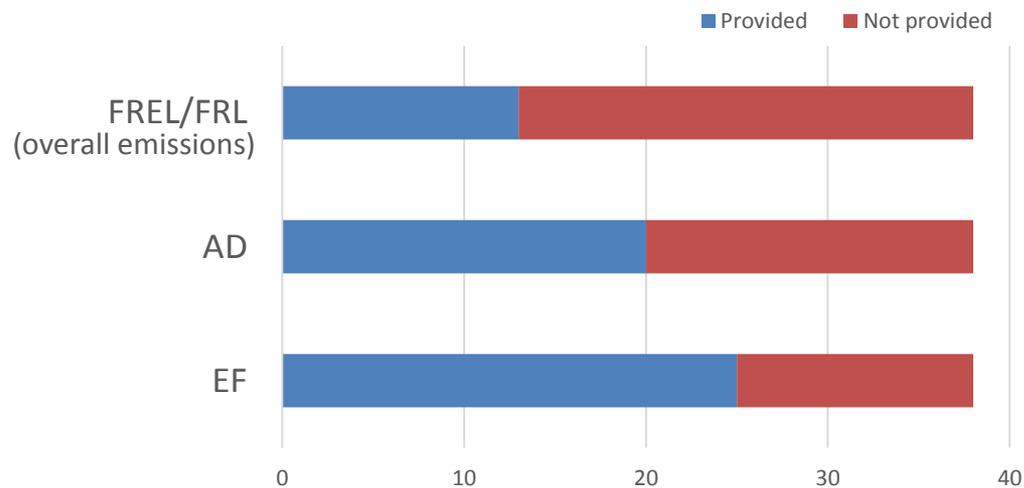
Methodology	Country
Combination of RS and ground inventories	Cambodia, Chile, Indonesia
Combination of RS and ground inventories + multiple NFI cycles	Viet Nam
Combination of RS and ground inventories + stump counts from NFI	Lao People's Democratic Republic*
Official timber extraction statistics	Congo, Ghana*, Guyana, Suriname*
Sample data interpretation of disturbance or changes in forest subdivisions and ground inventories	Mongolia*, Panama*, Papua New Guinea
Modelling supply–demand balance (WISDOM)	Ghana*, Nepal
Landscape fragmentation GUIDOS (with EF from NFI)	Nepal-ERPD
Proxy statistics (monitoring log truck numbers)	Ghana*
MODIS burned area and IPCC default values	Ghana*, Chile
Comparison of permanent sample plots	(Mexico – in annex, degradation was not included in FREL)

FRL Uncertainty reporting

Number of FRL submissions reporting AD uncertainties

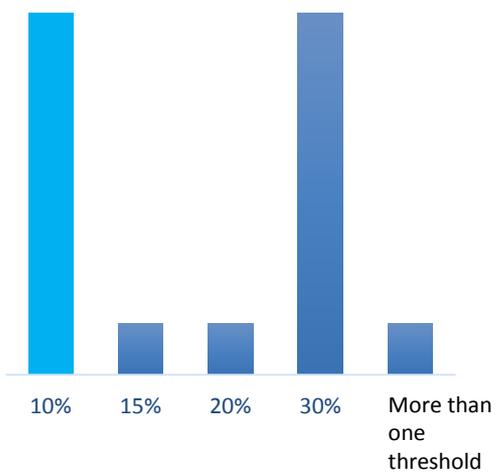


Uncertainty reported for...

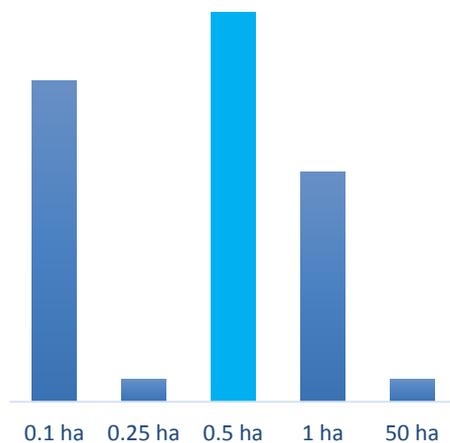


FRL Forest definition

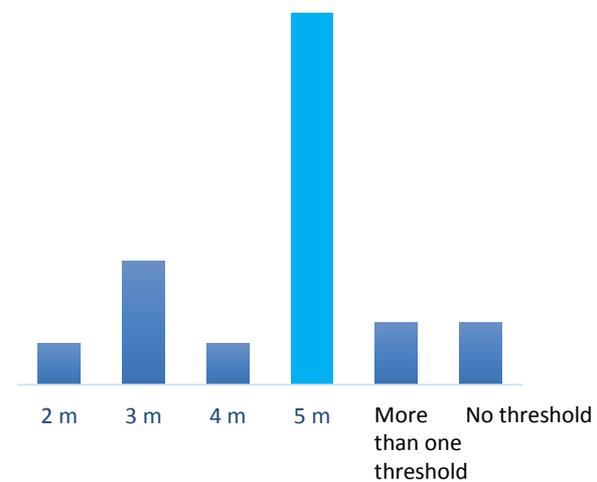
Cover threshold in forest definition



Minimum area threshold in forest definition



Height threshold in forest definition



FRL construction approaches

Simple historical average

- Brazil (3x)
- Cambodia
- Chile
- Costa Rica
- Côte d'Ivoire
- Ecuador
- Ethiopia
- Ghana
- Honduras
- India
- Indonesia
- Lao PDR
- Madagascar
- Malaysia
- Mexico
- Mongolia
- Mozambique
- Myanmar
- Nepal
- Nigeria
- Panama
- Paraguay
- Sri Lanka
- Tanzania
- Uganda
- Viet Nam
- Zambia

Linear proj.

- DRC
- Peru
- PNG
- Suriname

Adjustment

- Colombia
- Congo
- Guyana
- Viet Nam*

* for afforestation only

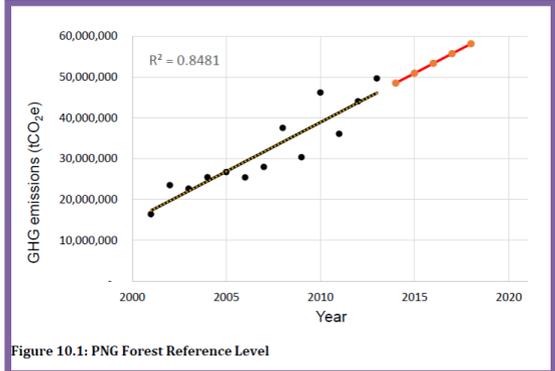
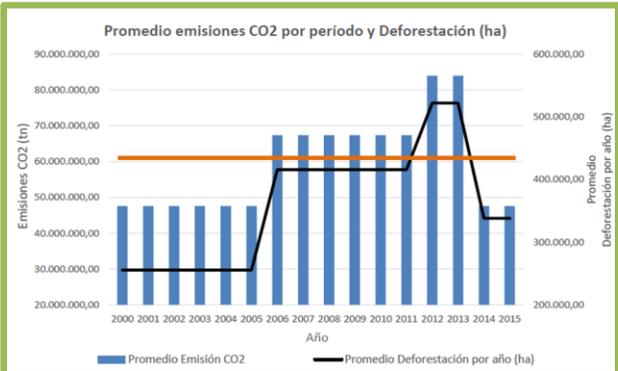
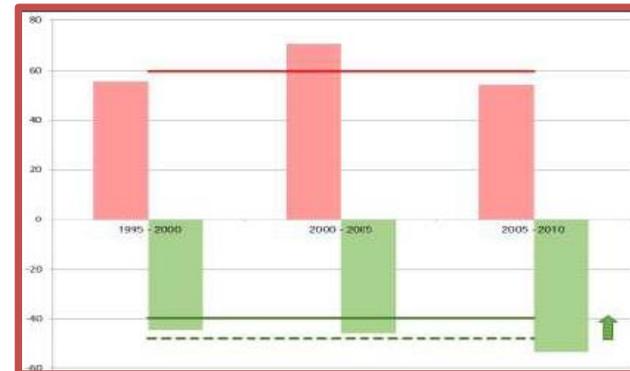
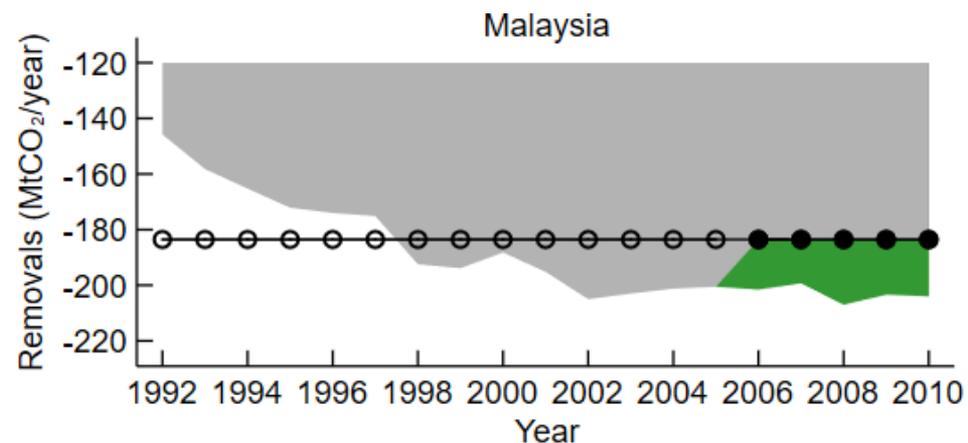
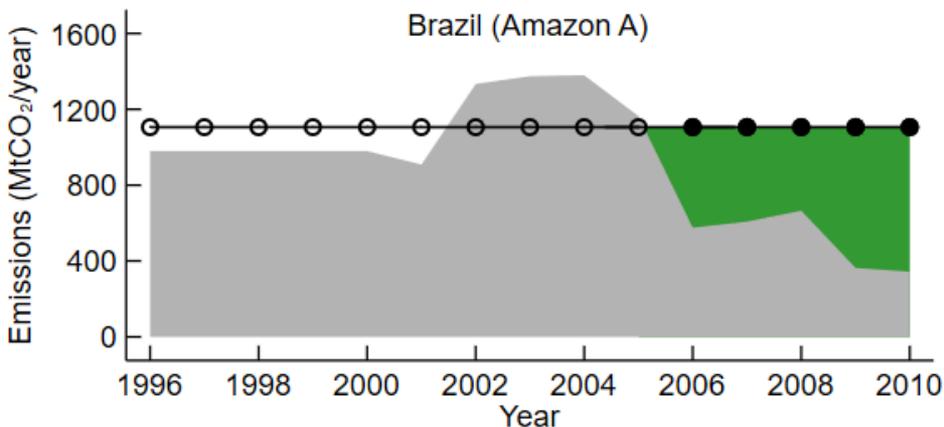


Figure 10.1: PNG Forest Reference Level



Stock take of REDD+ results

	Brazil (Amazon) A	Colombia	Ecuador	Malaysia I	Brazil (Amazon) B
Results period	2006–2010	2013-2014	2009–2014	2006-2010	2011–2015
Results (M tCO ₂)	2,971	28.9	29.0	97.5	3,155
Average annual results (M tCO ₂ /yr)	594	14.5	4.8	19.5	631



How do FRLs and NDCs relate?

	REDD+	NDC
Results/target expressed against:	Reference level (usually historical average)	<ul style="list-style-type: none"> ➤ Business-as-usual projection GHG inventory ➤ Base year ➤ Absolute targets e.g. “plant 1 million ha by 2030”
Results period	Usually next 5 years	Mostly the year 2030
	Mostly conditional	Conditional and unconditional

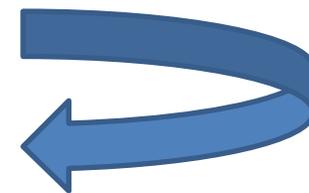
Key challenges

- Country data and the quality of submissions ***need to improve overtime*** to meet donor expectations for payment
- ***Further investment*** in REDD+ MRV readiness is necessary to improve country data, cover additional activities and facilitate broad country participation in REDD+
- The link between results reported and ***REDD+ implementation*** needs to be clear

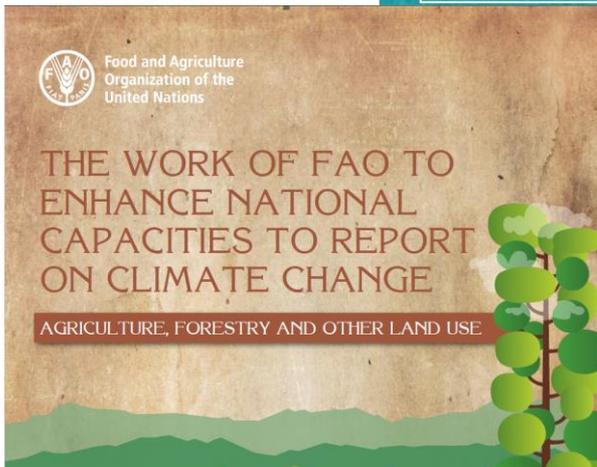


Key next step:

Maintain momentum, overcome barriers, scale up REDD+ action.



FAO resources



Forests and Climate Change Working Paper 15



From reference levels to results reporting: REDD+ under the UNFCCC

openforis

- Collect
- Collect Mobile
- Collect Earth
- Calc
- Geospatial Toolkit