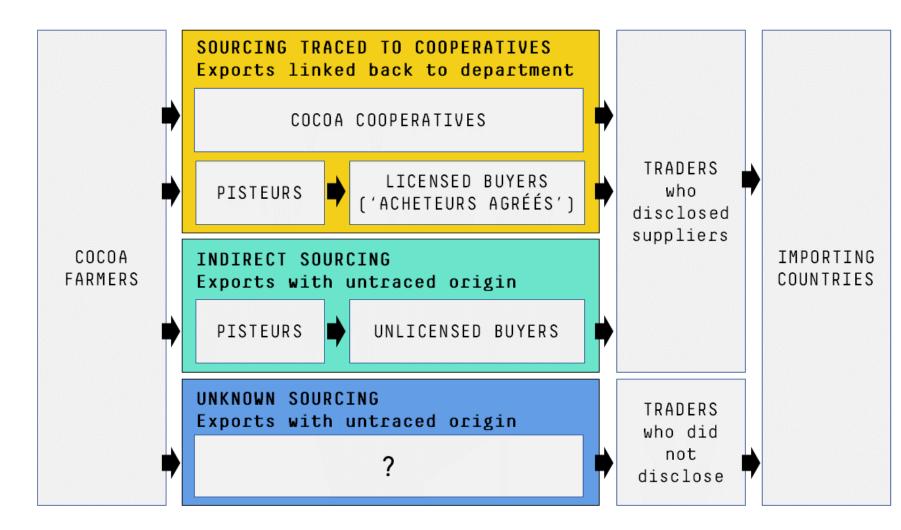
Low traceability, low transparency, high deforestation in the Ivorian cocoa supply chain



Côte d'Ivoire is **the world's largest producer of cocoa**, growing about 40% of cocoa bean supplies. Around two thirds of its cocoa is exported to the EU and the UK.

We pulled together several publicly-available datasets to link cocoa production, and its associated deforestation, to specific companies and markets.



Cécile Renier^{1*} Mathil Vandromme¹, Patrick Meyfroidt^{1,2}, Vivian Ribeiro³, Nikolai Kalischek⁴, Erasmus K. H. J. zu Ermgassen¹

1 Earth and Life Institute, UCLouvain, Belgium.
2 F. R. S.-FNRS, Belgium.
3 Stockholm Environment Institute, Sweden.
4 EcoVision Lab, ETH Zurich, Switzerland

*c.renier@uclouvain.be



Article preprint

Transparency, traceability and deforestation in the Ivorian cocoa supply chain, 2022.



1. The majority of cocoa (over 55%) is untraced

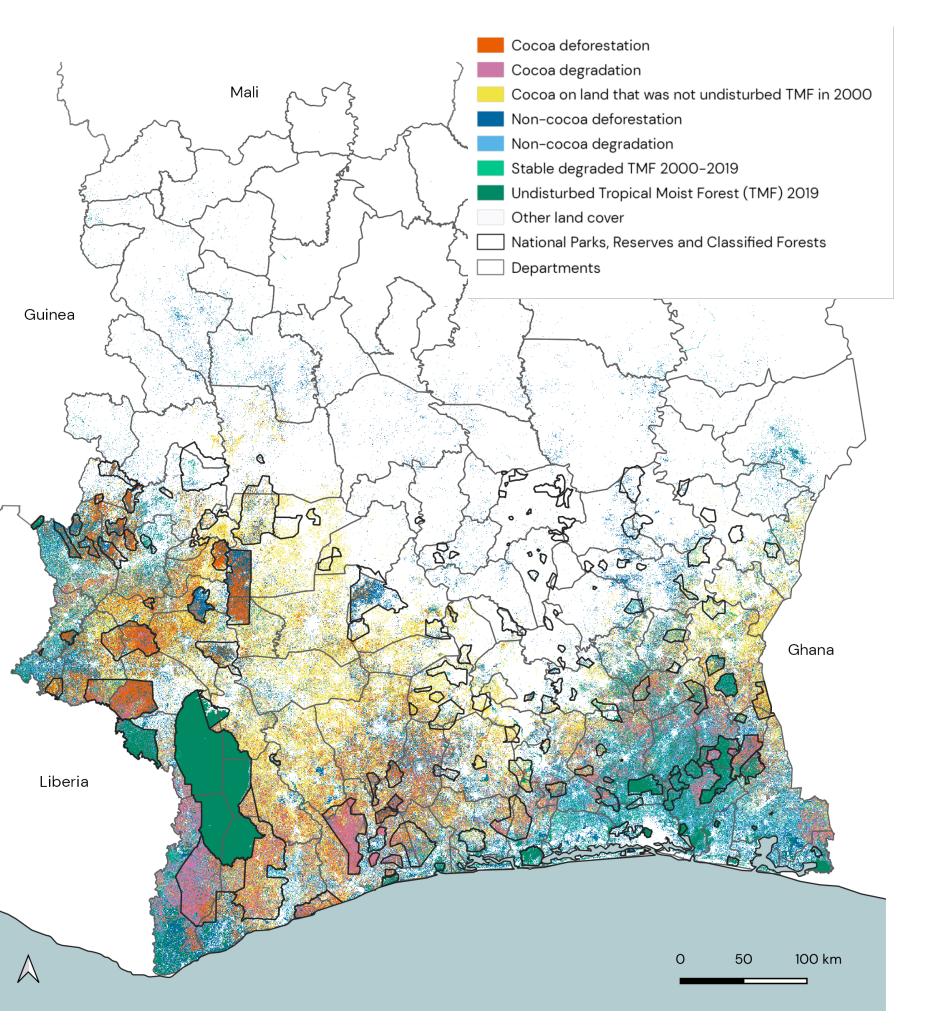
32% exported by untransparent

traders who disclose no information about their suppliers ('unknown' sourcing)

24% indirectly sourced from local intermediaries by major traders and is nearly impossible to trace (95% CI: 22.9 – 24.9%).

20 to 70% of the major traders' sourcing is indirect.

Traceability to farm lags behind Traders in the Cocoa and Forests Initiative mapped 40% of the farms supplying them, representing only 22% of all Ivorian cocoa exports in 2019. 2. Cocoa is a major driver of deforestation in Côte d'Ivoire



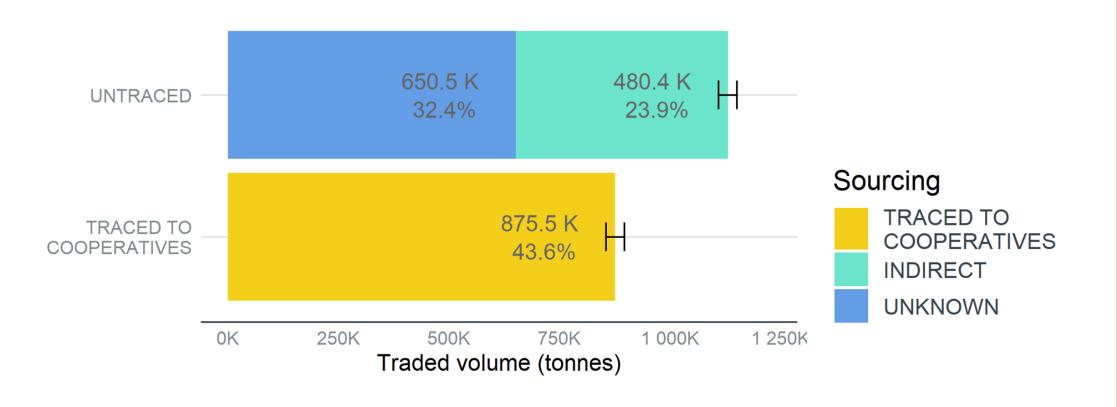
3. Cocoa deforestation exposure is embedded in all the supply chain but mostly in the untraced sourcing

58% of the total cocoa deforestation is attributed to untraced sourcing (25% to indirect and 33% to unknown sourcing)

Per tonne, untraced sourcing is slightly more exposed to deforestation than sourcing traced to cooperatives (48 vs 45 ha/kton.y–1).

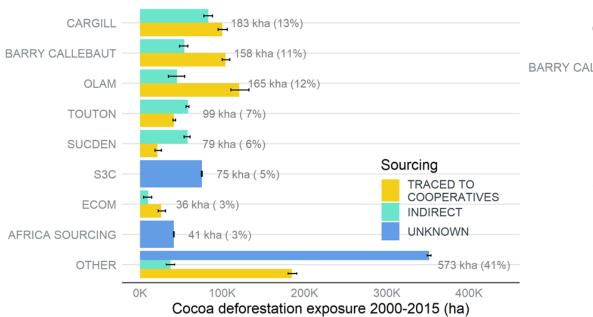
EU is exposed to 838,000 ha of

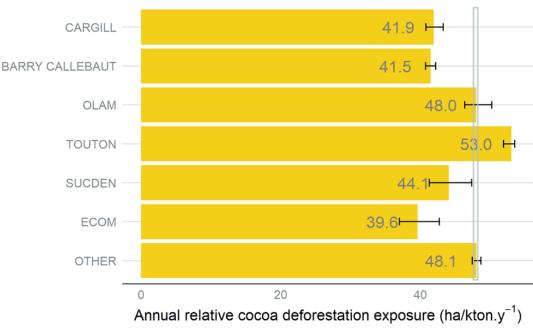
deforestation from Ivorian cocoa with 56% from untraced sources.

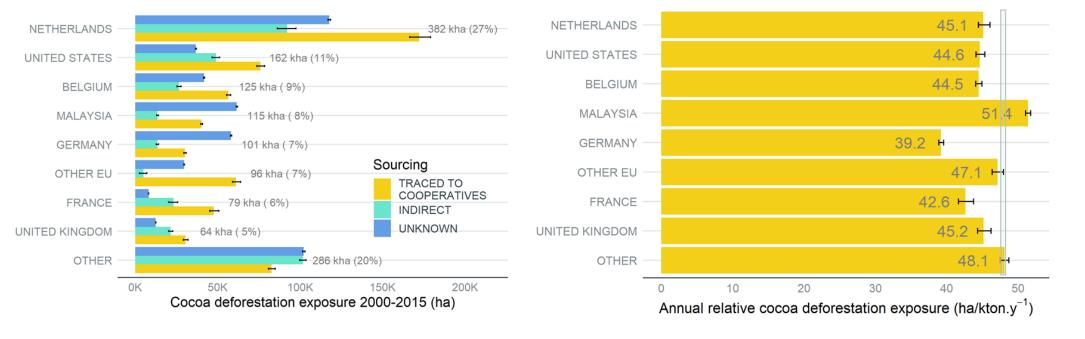


45% of the undisturbed tropical moist forest lost between 2000 and 2019 **converted into cocoa** (2.4 Mha).

In 2019, **25% of the cocoa area** was **located within protected areas** and classified forests in Côte d'Ivoire.







Conclusion

- The sector needs to work beyond individual
- Incorporating indirect sourcing in zero deforestation commitments
- Need for transparent, nationwide traceability systems also key for better traced payments to farmers coupled with a robust deforestation monitoring system
- Must be combined with land use policies, landscape initiatives, and increased means targeting remaining forests

supply chains

