

Blockchain at the Border

An Exploration



**We are surrounded by the
drumbeat of disruption, but has
Reality caught up with the Hype?**

Blockchain pilot aimed at SMEs and entrepreneurs

- Can Blockchain simplify the business environment for export?
- Can Blockchain increase access to finance?



The project

Vietnam

Coffee
supply chain

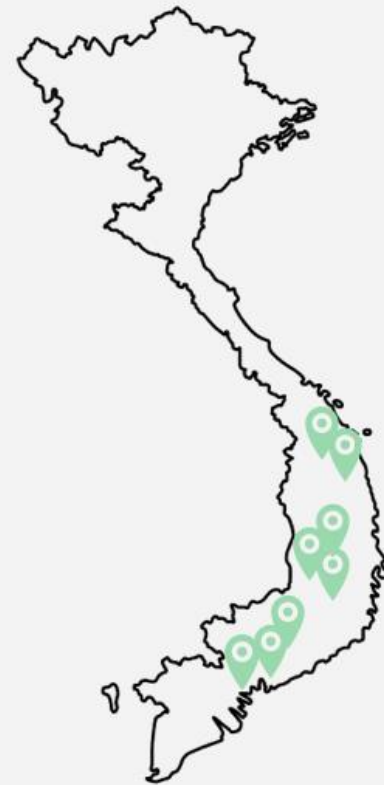
Customs and
other
government
agencies

Private sector
counterparts

Cross-
disciplinary
WBG team +
Provenance

Batch ID EUR.201.315.18

☰ List view



All locations confirmed within Vietnam

Workshop in Ho Chi Minh City

175+ participants

Key themes – blockchain, gender,
entrepreneurship, disruption

Interactive, hands-on



Prototype

Customs verification of product origin

New smart contract at customs

CUSTOMS DECLARATION NUMBER 301708309730

[View associated documents](#)

Entering the EU Market at ZERO rate, as established under the EU-VIETNAM FTA, Chapter II (National Treatment and Market Access for Goods), Annex II c I (Tariff Schedule of the EU) http://trade.ec.europa.eu/doclib/docs/2016/february/tradoc_154200.pdf

In compliance with Chapter IV (Protocol Concerning the Definition of the Concept of "Originating Products" and Methods of Administrative Cooperation, articles 19, 20, 25, 26) and Annex VII (declaration by the exporter) http://trade.ec.europa.eu/doclib/docs/2016/february/tradoc_154205.%20institutional%20-%20for%20publication.pdf

Additional information can be retrieved from the Vietnam Trade Portal <http://www.vietnamtradeportal.gov.vn/>

Declaration of Origin

10231078

EXPORTER

KCN BIEN HOA 2, PHUONG LONG
BINH, THANH PHO BIEN HOA,
TINH DONG NAI, VIET NAM

CONSIGNEE

N/A

CERTIFICATE USED IN PREFERENTIAL TRADE BETWEEN

Vietnam
AND
European Union

COUNTRY, GROUP OF COUNTRIES OR TERRITORY IN WHICH THE PRODUCTS ARE CONSIDERED AS ORIGINATING

Vietnam

@prasannalaldas

Batch ID EUR.201.315.18

 Map view

LOCATIONS

DATE

Robusta coffee beans HS Code 090111

13.889518 108.110288

11 February 2018

Robusta coffee beans HS Code 090111

14.210496 108.362100

11 February 2018

Robusta coffee beans HS Code 090111

14.276518 108.235310

11 February 2018

Robusta coffee beans HS Code 090111

13.943164 108.309874

16 February 2018

Robusta coffee beans HS Code 090111

14.801986 108.210954

20 February 2018

Roast and ground coffee HS Code 090121

13.889518 108.110288

22 February 2018

Roast and ground coffee HS Code 090121

14.210496 108.362100

23 February 2018

Product journey

Supplier profiles

PROVENANCE



Viet Coffee Grower

Viet Coffee Grower is a G.C. certified, women-owned farm producing high-quality Robusta coffee on Langbiang Mountain, Dalat Vietnam.

BATCHES: 3
SINCE: 27 July 2015
TOTAL VOLUME OF COFFEE SOLD: 17,900 KG
TOTAL VALUE OF COFFEE SOLD: 810,660,000 VND
FINAL OWNERS: Nestlé Vietnam, Vinacafé

BATCHES RECORDED

24 May 2018
PRODUCT: Dried parchment bean HS Code 090111
REGISTERED BY: Viet Coffee Grower
FINAL OWNER: Nestlé Vietnam
Hu Chi Minh City, Vietnam

VOLUME OF COFFEE SOLD: 5,990 KG
VALUE OF COFFEE SOLD: 267,406,000 VND
CERTIFICATIONS: 4C
[View complete supply chain](#)

14 May 2018
PRODUCT: Dried parchment bean HS Code 090111
REGISTERED BY: Viet Coffee Grower
FINAL OWNER: Vinacafé
Dong Nai, Vietnam

VOLUME OF COFFEE SOLD: 6,110 KG
VALUE OF COFFEE SOLD: 277,394,000 VND
CERTIFICATIONS: 4C
[View complete supply chain](#)

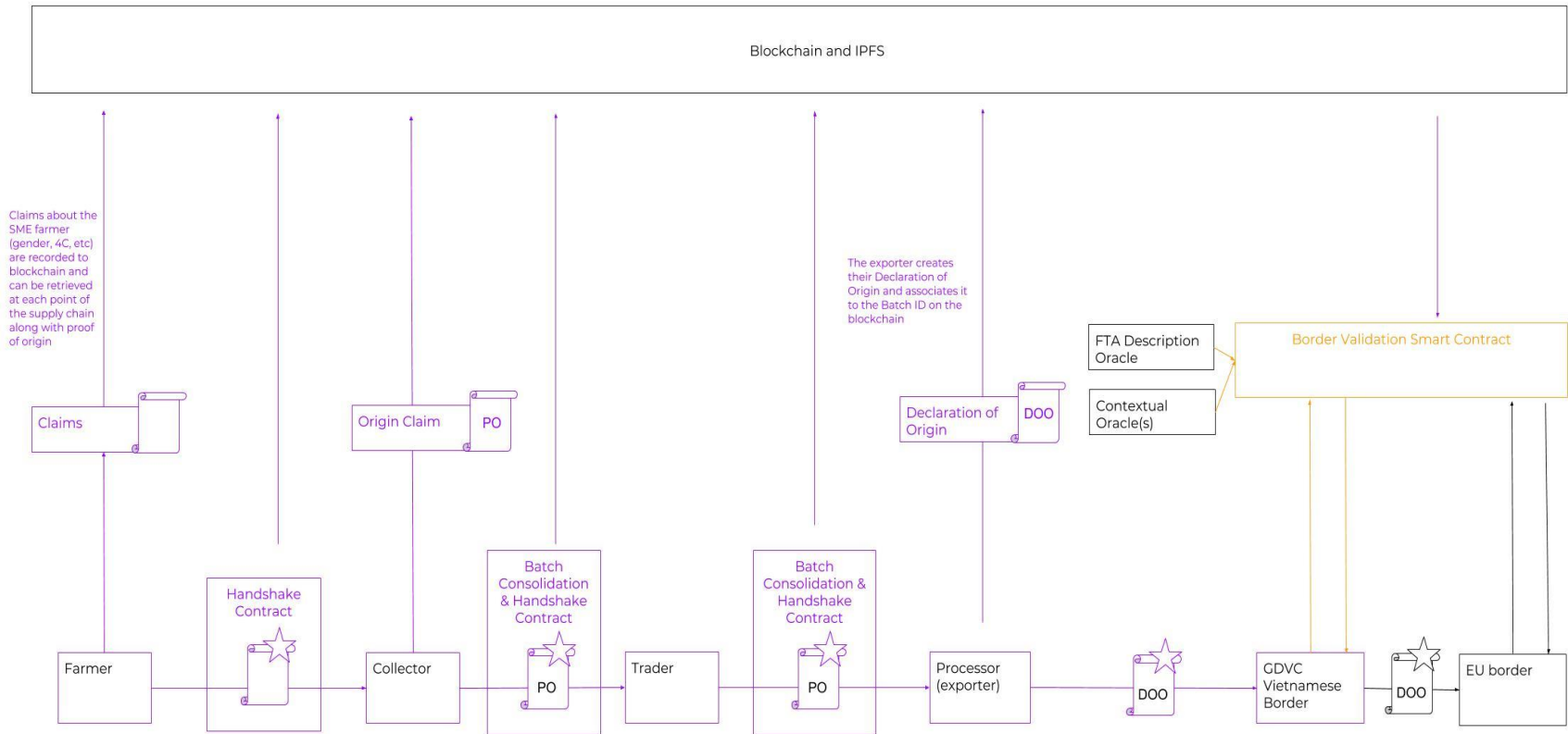
23 June 2017
PRODUCT: Dried parchment bean HS Code 090111
REGISTERED BY: Viet Coffee Grower
FINAL OWNER: Nestlé Vietnam
Hu Chi Minh City, Vietnam

VOLUME OF COFFEE SOLD: 5,900 KG
VALUE OF COFFEE SOLD: 267,860,000 VND
CERTIFICATIONS: 4C
[View complete supply chain](#)



THE WORLD BANK
BIRD • IDA • WORLD BANK GROUP

Orange: A process being built for the PoC
 Purple: A process that will be in the PoC simulation -- Provenance IP



All actors (i.e. farmer, collector, trader, processor/exporter, GDVC) will have a user ID on the provenance system that records and tracks their supply chain activity on the blockchain.

Claims and Proof of Origin are preserved when batches are consolidated, transformed and transferred by actors

Report – under development

Results of the
prototype – 2 main
lessons

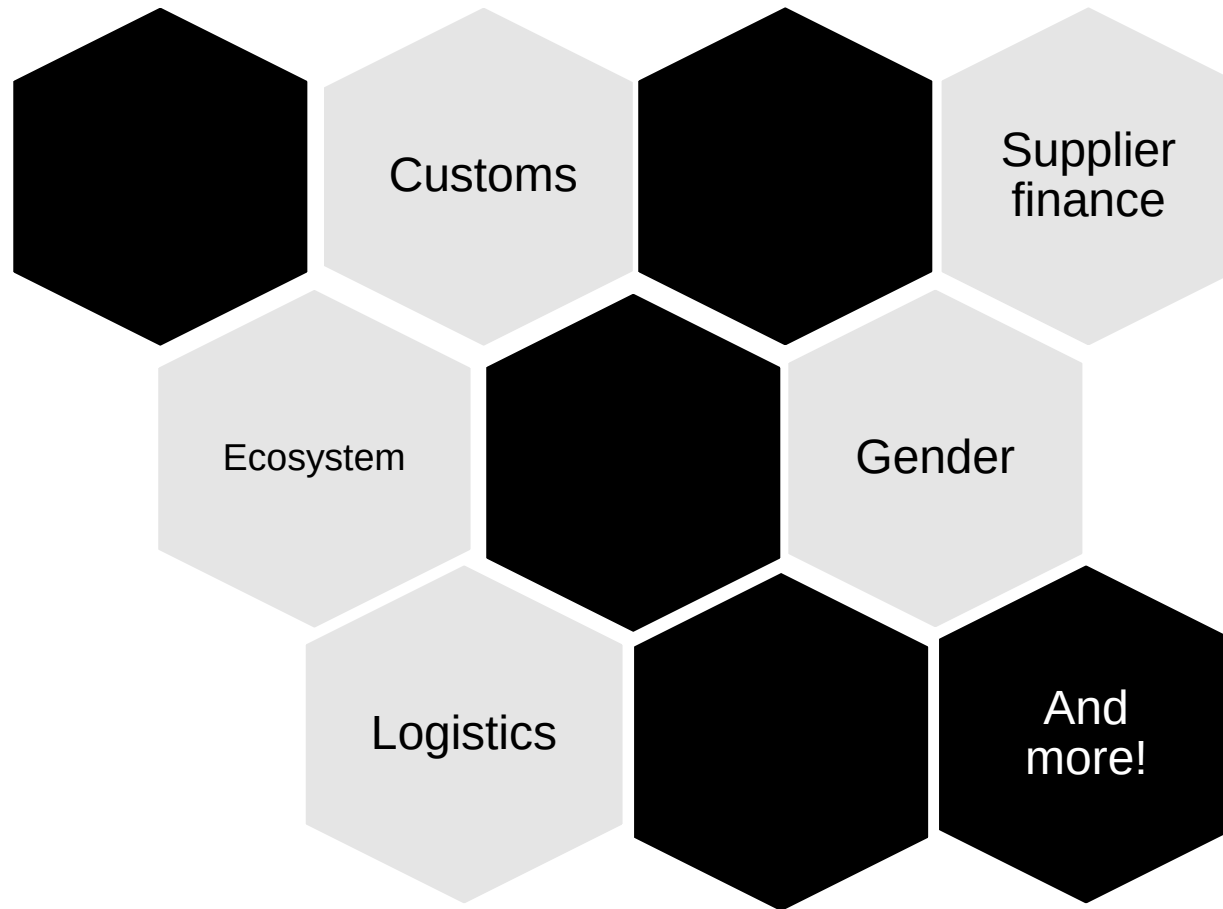
Lessons learned
from other cases

Cost benefit of
blockchain in our
scenario and
beyond

Policy/ regulatory
environment

Scope for
intervention

Looking ahead



For more information

Prasanna Lal Das - plaldas@Worldbank.org

Nevin Turk - nturk@ifc.org