Democratising Price Risk Management for Coffee Growers
Producing Coffee is a Risky Business

Global commodity markets often dictate what price-taking farmers receive.

99% of the world’s farmers do not have access to a simple and affordable tool to manage the risk of a price fall.

Current options are subprime:

- Inflexible/Restrictive forward contracts with traders
- Selling in $USD (Basis Risk)
- Complexity
Global demand for a solution is immediate and substantial. Volatility is front page news...

Brazil political uncertainty drives down coffee price
Financial Times - 6 hours ago
Your daily cup of coffee is becoming cheaper thanks to political uncertainty in Brazil. Coffee prices are languishing at 12-year lows, dragged ...

Coffee prices plunge as oversupply of beans flood the world market ...
This is Money - 22 Aug 2018
The price of coffee has hit its lowest level in decades as an oversupply of beans floods the world market. A recent good harvest means that the ...

Vietnam's coffee growers face profit squeeze from bumper crop
Financial Times - 21 Aug 2018
Vietnam's robusta coffee growers are anticipating a bumper crop this reason — good news ... “That's also putting pressure on the coffee price.”
Could a new risk management solution be created...one that’s designed for farmers, rather than financiers?

3 Simple Requirements:

1. Affordable
2. Simple to Use
3. Low Risk
Trading Price Risk vs Insuring Price Risk
<table>
<thead>
<tr>
<th>Derivative</th>
<th>Insurance</th>
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<tbody>
<tr>
<td>High Risk (Margin Calls)</td>
<td>Low risk (Max = Premium)</td>
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<td>Requires Liquidity</td>
<td>Global underwriters create the market</td>
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<td>Basis Risk i.e. (FOREX)</td>
<td>Local risk priced in local currency</td>
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<td>Minimum Size Farm (400ha)</td>
<td>Any size farm</td>
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<td>Steep Learning Curve</td>
<td>Simple and familiar</td>
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<tr>
<td>Regulation/Difficult for Sales Partners</td>
<td>More routes to market i.e. Co-Ops</td>
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Index Insurance

Stable uses local and independent indices around the world as a proxy, (with low Basis Risk: Geographic and Currency) to calculate the premium and the farmer claims.

This creates transparency in a coffee market (reduces opaque differentials)

Index Insurance reduces costs and automates the claims process.
Building a Index Insurance Solution

Stable worked for 3 years with Mathematicians, Data Scientists, Actuaries and Universities all over the world to overcome ‘systemic risk’ and build what was to become Stable.

This led to a formal collaboration with Liverpool University’s ‘Institute of Financial and Actuarial Mathematics’. (IFAM)
In 1929, the writer A.G. Street coined the phrase ‘Up Horn, Down Corn’ to describe the diversification benefits of traditional mixed farming (i.e. cattle and coffee).

If true, it might enable us to lower risk for insurers and make revenue insurance affordable for farmers.
1. Using a HPC, we mapped the risks and correlations between commodity prices in minute detail.

2. We then built pricing algorithms that can accurately forecast the risk of a price fall.

3. The portfolio algorithms then dynamically spread the risk capital across all farm commodities to diversify risk, just like a traditional mixed farmer.

4. Stable offers a ‘90%-50% Stop-Loss Insurance Contract’ to reduce the premiums for farmers and limit potential losses for underwriters. (shown in shaded green right)
A Simple User Experience
Stable’s Index Insurance makes it simple for farmers

The farmer is asked just 3 Questions

It takes just 2 minutes.

1. Quantity to be protected?
2. Contract Duration
3. Excess level

* From Q2 2019
Farmer selects the calendar month(s) they wish to protect

i.e. the average Coffee price for the 2nd half of 2019 (July-Dec)

or a single calendar month in the future
Farmer selects Excess by moving the Start Price.

Price Fall: 90% to 50%

The farmers income is then protected if the index price moves beyond the Start Price selected by farmer.
Farmer Pays Premium each month via the Co-Op

A certificate of insurance is issued

The contract is between the Co-Op/farmer and the Lloyd’s Underwriters (Stable is a broker ‘MGA’)

Confirmation of Insurance

This insurance policy will protect you from:
£3,228.00 potential of loss

The cost to insure your farm from volatility is just: £43.22 per month (including tax)

Total amount payable over the 3 months is: £129.66

Your farm will be protected until the end of: June 2018

Do you have a Volatility Voucher?
The Commercial Platform
The Current Team

- **Richard Counsell (Farming)**
  UK/US (Chicago) Tech Entrepreneur and Somerset Farmer. Former Barclays Bank Entrepreneur of the Year and Nuffield Scholar

- **Dr. Simon Wang (Quant)**
  PhD Actuarial Mathematics

- **Edward Wakefield (Corporate Finance)**
  Former Managing Director Greenhill (US Investment Bank)

- **Ruth Foxe Blader (Insurtech/VC)**
  Previously at PepsiCo and Allianz, Ruth is also a Director of Anthemis Group

- **Charles Norton-Smith (Insurance)**
  Oxford graduate with 20 years experience running international insurance companies
Stable acts as a global risk management platform.

Co-Ops, Industry Suppliers (seeds and chemicals) Banks and Merchants can aggregate (into one corporate policy) or sell to each individual farmer via chatbot.

The Stable Value Chain

- Risk Carrying
- Product & Pricing
- Underwriting & Operations
- IT Development
- Claims Management
- Sales & Distribution
Stable is currently working on farm indices in several international markets including:

UK, Australia, New Zealand, South Africa, Poland, Uruguay, Argentina, Sweden, Denmark, Ireland, Russia, Ukraine, Colombia & Brazil.

Corporates can also use our global platform to buy and manage their local risk in local currencies around the world.
The Future of Stable: a Risk Management Marketplace for Global Food and Farming

- 2019
  **Stable Finance** (inputs/agtech/machinery) repayments that moves in line with crop prices & costs.

- 2020
  **Stable IOT**: Remote Insurance connected to crop health.