

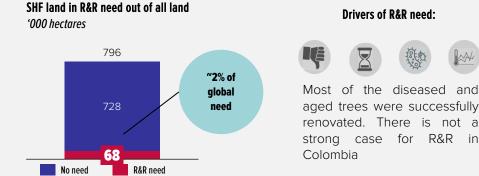




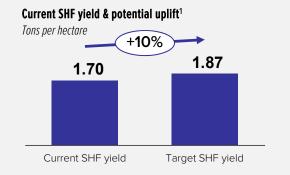
# R&R need in Colombia is low, since national replanting programs have already revitalized the tree stock, and current yields are high

# Production Production share Coffee land Varieties '000 tons Global & region '000 hectares Arabica-Robusta 728 3<sup>rd</sup> in world 2<sup>nd</sup> in LA O% R

#### R&R need: <10% of total land is in need of R&R



### Uplift potential: Low uplift potential given high current SHF yields



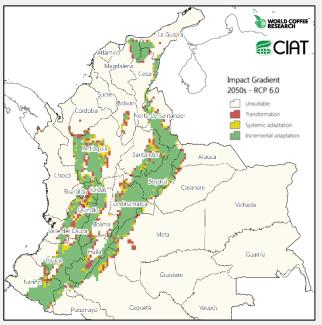
#### Potential increase in supply

**~0-1%** 

Total national supply could increase "0-0.5% if R&R and GAP is implemented on all SHF land in need of R&R2

### Viability: Relatively minor impact from climate change





- Climate change is forecast to have minor impact on Colombia
- Given its topography, there may be opportunities to move coffee plantations to higher altitudes if needed
- The lowest lying areas are the ones forecast to be hardest hit by climate change

## Other viability considerations

- Farmer share of export price is high at 85-90%
- Colombia coffee production performs at record levels not seen since the 1990's, creating overall confidence in the sector. This high level of production could be maintained given that 74% of production is planted with rust resistant varieties, compared to 35% in 2010
- The Colombian specialty coffee market is booming, increasing the value added for producers

Notes: (1) The current yield is calculated on the basis of SHF production divided by SHF land area, the potential yield uplift comes from the GCP, Study on Colombia: GCP, Economic Viability of Coffee farming, 2017 - The study estimates a potential 20% yield uplift reached through fertilization, pest and shade management and targeted rejuvenation. We use a 10% yield estimate for this study since we do not account for irrigation; (2) Rounded to the nearest 5%, estimate assumes that R&R and GAP increase yields with 10%, and the range reflects a 25-100% R&R success rate. Sources: FAO Statistics database; ICO statistics; GCP and Technoserve, Economic Viability of Coffee Farming, 2017; Root Capital, Learning Report: the CFIR, 2016; USDA, Annual Coffee Report, 2017; IHCAFE, Programa de Asistencia al Pequeno Productor, 2017; IHCAFE, El sector café de Honduras: avances, institucionalidades and desafios, 2017; Dalberg







# Colombia's successful renovation programs were supported by strong coffee institutions

## Farmer segmentation: Most SHFs are in tight and loose value chains



#### National production is dominated by SHFs

The majority of SHFs are either in tight or loose value chains. The national coffee federation (FNC) has strong linkages with SHFs

# SHFs '000  $535 - ^3\%$  of global SHFs<sup>1</sup>

SHF land '000 hectares

**676** (~85% of national land) – average farm size ~1-2 hectares

SHF production '000 tons

**503** (~70% of national production)

Assessment of SHF orgs.

The FNC has a network of 34 cooperatives that deliver TA to their members

Links to market

Many SHFs are linked to market through the FNC's network of 530 buying stations

# Enabling environment for R&R: Well organized sector and supportive policies











- Coffee share of GDP: N/A [Coffee share of exports: 7.2% (2015)]
- Coffee institutions (FNC, Coffee Fund) are strong and well organized
- Strong involvement of the Colombian government in renovation programs since the late 1990s. The Government and the FNC signed the "Coffee Prosperity Accord 2010-15" in 2009 and established an ambitious renovation program
- Cenicafe¹ leads research on varietal development, and has developed several rust-resistant varietals
- Since 2011, Cenicafe has been providing seeds at commercial volumes<sup>2</sup>. Cenicafe also established a network of private nurseries to ensure a sufficient supply
- SHFs have access to long term loans for R&R
- Public actors and local financial institutions such as the Colombian Ministry of Agriculture, Finagro, Banco de Bogotá, the National Coffee Fund (FoNC) provide finance to SHFs for renovation
- Coffee institutions provide extension services at national, regional and district level. However, these public extension services do not meet the demand and need of the SHFs
- Some cooperatives provide TA

# Examples of R&R programs: Past R&R programs successfully met most of the R&R need

• FNC and the Colombian Government – Competitiveness<sup>3</sup> and Permanency, Sustainability and Future (PSF) programs (late 1990s and 2009 – 2013): Through these two programs, more than 300,000 ha of land were renovated, both for SHFs and medium farmers.

Notes: (1) The Centre of Coffee Research was established in 1937 by the FNC, and has since remained under the management of the FNC; (2) Variety Castillo, rust resistant. (3) The Competitiveness Program (Competividad) targeted large and medium scale producers. Source: FAO Statistics database; ICO statistics, GCP and Technoserve, Economic Viability of Coffee Farming, 2017; USDA, Annual Coffee Report, 2017; FNC, Sostenabilidad en Accion, 2013; Santiago Silva Restrepo; Evaluacion de impacto de los progresos de renovacion de cafetales 2007-11, 2012; Risk and Finance in the Coffee Sector, The world Bank, February 2015; Dalberg Interview