



The role of business in cocoa sustainability



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A global and dynamic business

3,400

colleagues
worldwide



35

locations in all
major consumer
and origin markets



30%

3rd party certified
sustainable
cocoa



49

years in the
cocoa and
chocolate space



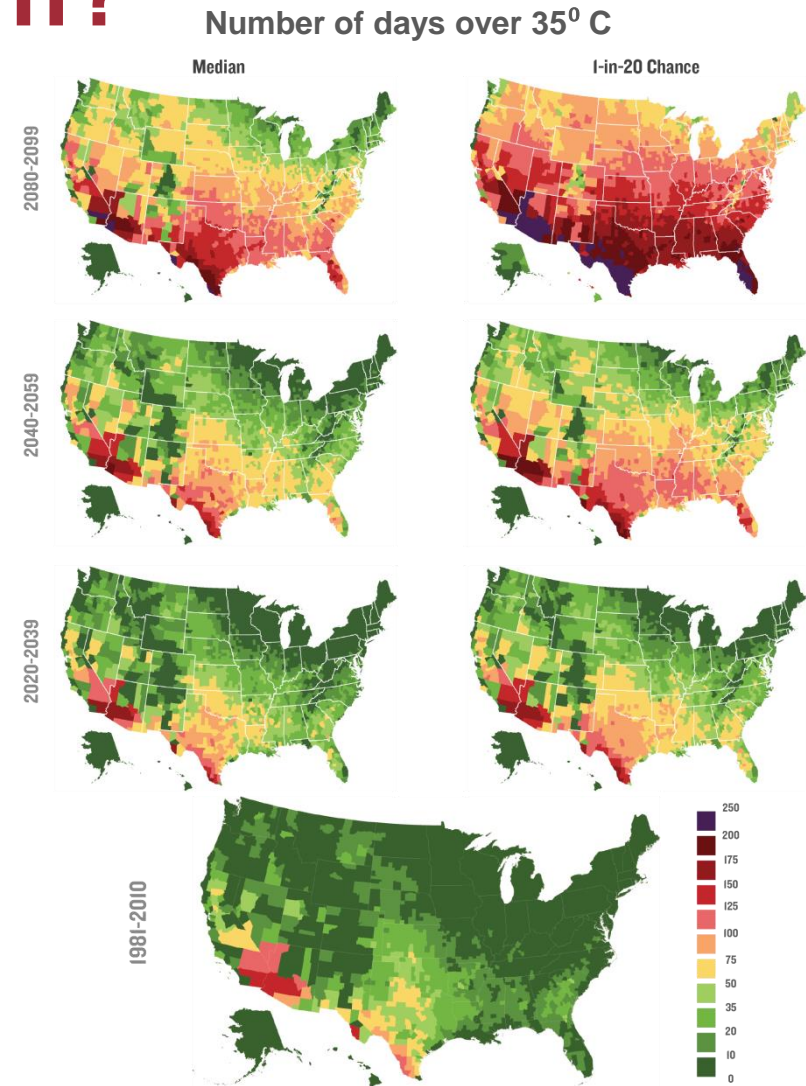
Managing the Risk of Climate Change

- Launched in October 2013
- Focused on quantifying and publicizing the economic risks from the impacts of a changing climate.
- Cargill worked closely with the group to assess the impact to US agriculture - though the methodology can apply globally
- Like any uncertain event that can impact our business, Cargill seeks to understand the risks of climate change and how to mitigate and adapt to them

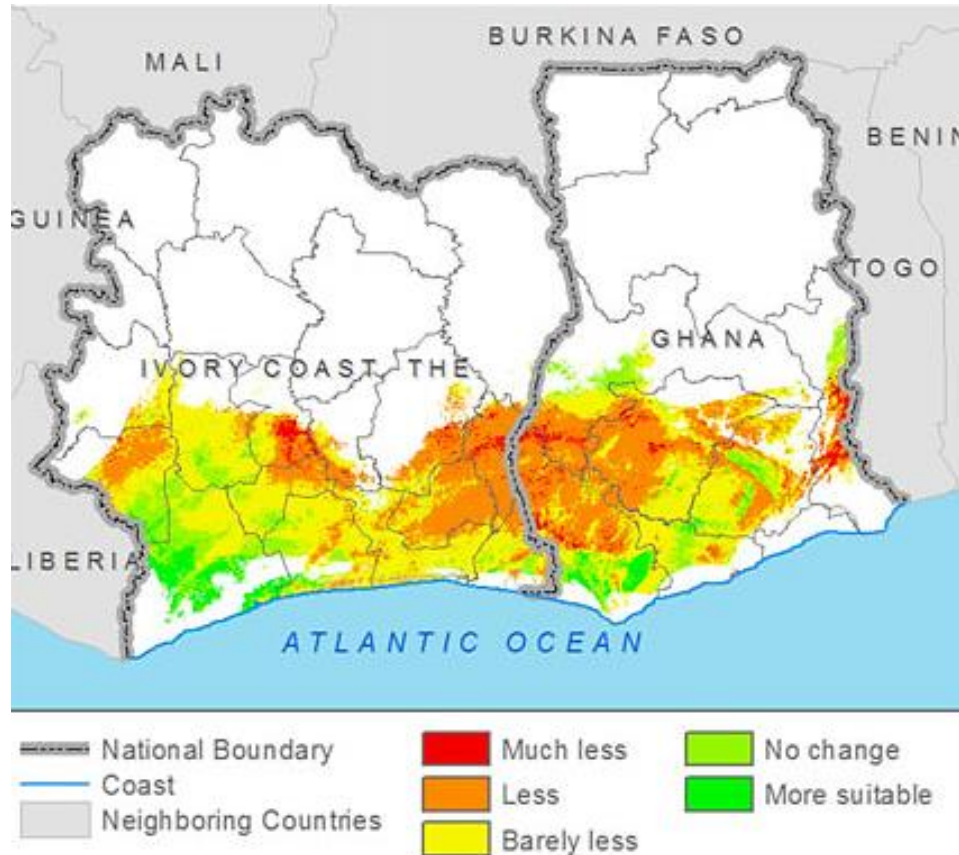


What did Cargill learn?

- If we assume the IPCC median scenario, then agriculture, on net, will suffer
- Lower crop yields due to high temperatures
- Increased frequency of extreme weather events (drought, flood)
- Therefore, agriculture must adapt
 - Additional double/triple cropping
 - Expansion of Northern growing areas and length of season
 - Address weather issues with better management and genetics



Changing suitability for cocoa production in West Africa (by 2030/2050)



Most impacts for 2050 will be realized by 2030; followed by a leveling off at the 'new normal'

- ↓ Suitability in lowland areas
- ↑ Suitability in high altitude areas
- ↓ Cocoa productivity
- ↑ Prevalence of pest and disease
- ↓ Cocoa quality
- ↓ Number of cocoa harvests

Läderach et al. (2013) Predicting the future climatic suitability for cocoa farming of the world's leading producer countries, Ghana and Côte d'Ivoire" Climatic Change.

Source: World Cocoa Foundation

Business insights

Open trade & functioning markets

Transporting food from areas of surplus to areas of need. Allowing price to provide a clear market signal.



Increased productivity

Investing in technology, innovation, farmer training and facilities to increase productivity.



Adaptation to climate change

Advancing solutions that build resilience across the global food system and in local communities.

Our strength is bringing together expertise around the world



