**Introduction**

Many agree that food systems transformation is crucial given the numerous challenges that exist with regard to food production, especially if negative trade-offs amongst SDGs are to be minimised. Launched as a concept that integrated Mitigation Adaptation and Food Security, Climate Smart Agriculture has been researched, demonstrated and implemented at many locations around the world. This sessions explore the opportunities and challenges of scaling up and scaling out adoption of CSA technologies and practices along the value chain in developing countries; in order to facilitate the transformation that food systems require.

During the session evidence will be provided on:

1. The mitigation and adaptation potential of CSA, and its contribution to food security (L. Wollenberg).
2. Barriers to scaling up (and evidence to cross them) climate Finance for CSA from the perspective of a climate innovation funding agency and the financial sector (Tom Bakkum, Corne Louw (Rabobank).
3. The barriers for small holder farmers and suppliers, discussed against the potential provided by SME’s in the scaling of activities, the sources and the availability of finance (Annemarie Groot and Mark Bots, ENZA seeds).

Finally the discussion will be summarized and answer to the above questions will de distilled under supervision of the climate ambassador of Indonesia (Rachmat Witoelar).

**Partners**

* Dr. L Wollenberg (University of Vermont/CCAFS)
* Tom Bakkum (Climate KIC) – Funding and scaling climate smart innovations
* Annemarie Groot (WUR) – Role of SMEs in the scaling of CSA
* Mark Bots (ENZA seeds) – Barriers and enabling factors in large scale adoption of climate smart seeds
* Dr. Corne Louw (Rabobank) – Barriers to scaling up and evidence to cross barriers climate Finance for CSA
* Dr. Rachmat Witoelar (Climate Ambassador of Indonasia)

**Key questions**

* What is the current evidence base for the effectiveness of climate-smart agriculture; with regard to adaptation and mitigation and increasing food security
* What financial barriers can exist in scaling of CSA, and what evidence exists on how to cross those barriers.
* How can farmer and supplier barriers be crossed using the potentials provided by SMEs
* What evidence in required to scale new, innovative CSA technologies?

**Co-hosting**

The session will be co-hosted by:

* University of Vermont/CCAFS
* Climate KIC
* Wageningen Environmental Research, WUR
* ENZA seeds
* Rabobank

**Designing a session of 90 minutes**

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| **Time** | **Subject** | **Responsible Actor** |
| 5 min | Introduction of the topic | Saskia Visser |
| 15 min | Filling out the silent wand on 3 main topics |  |
| 45 min | 3 pitches of panels on the 3 different topics,with room for questions and discussion |  |
| 15 min | Discussion with the whole panel and the audience |  |
| 10 min | Take-aways for the main conference (major breakthrough suggestions, challenges to collaborate on) | Rachmat Witoelar |

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