



GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

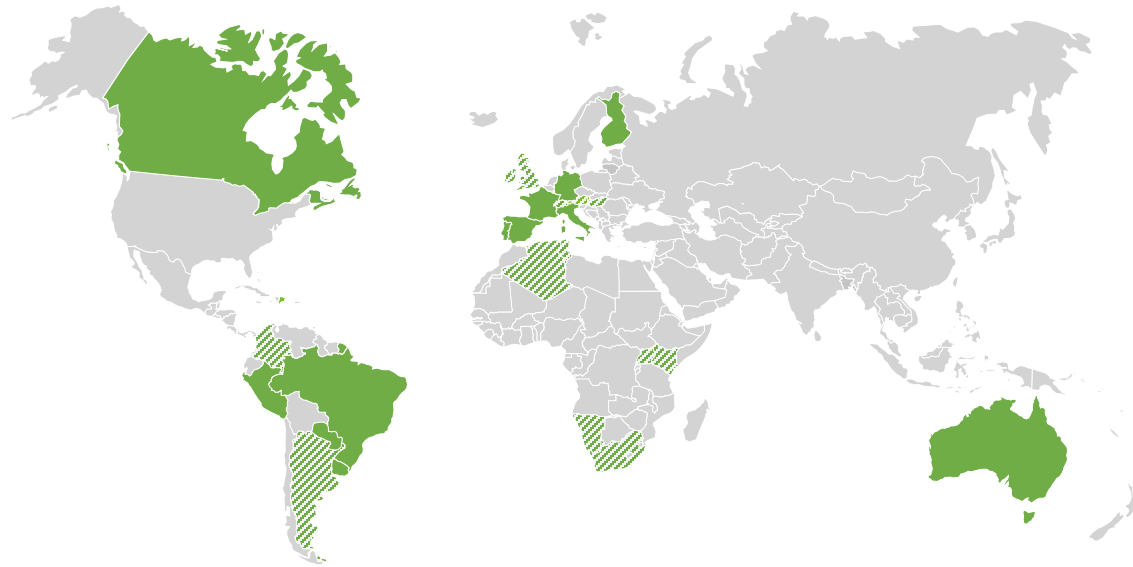
Claus Deblitz, Katrin Agethen / Thuenen Institute of Farm Economics

**Economics of GHG mitigation at farm level
in global cattle production systems“ (EMiFa)
- Flagship update -**

Activities/Results To Date

- Hosting CLIFF-GRADS student Reagan Lewis --> including dataset for Kenya and first analysis
- Presentation of results at Tropentag 2023; publication of 4-pagers:
<https://www.tropentag.de/2023/abstracts/full/396.pdf>;
<https://www.tropentag.de/2023/abstracts/full/449.pdf>
- GHG Baseline for selected countries in the agri benchmark Beef Network (details see next pages)
- Results are under revision and will be published in a paper
- Next steps: identifying, specifying and quantifying mitigation measures and calculate their emission and economic impact

Participating countries in the GHG Baseline



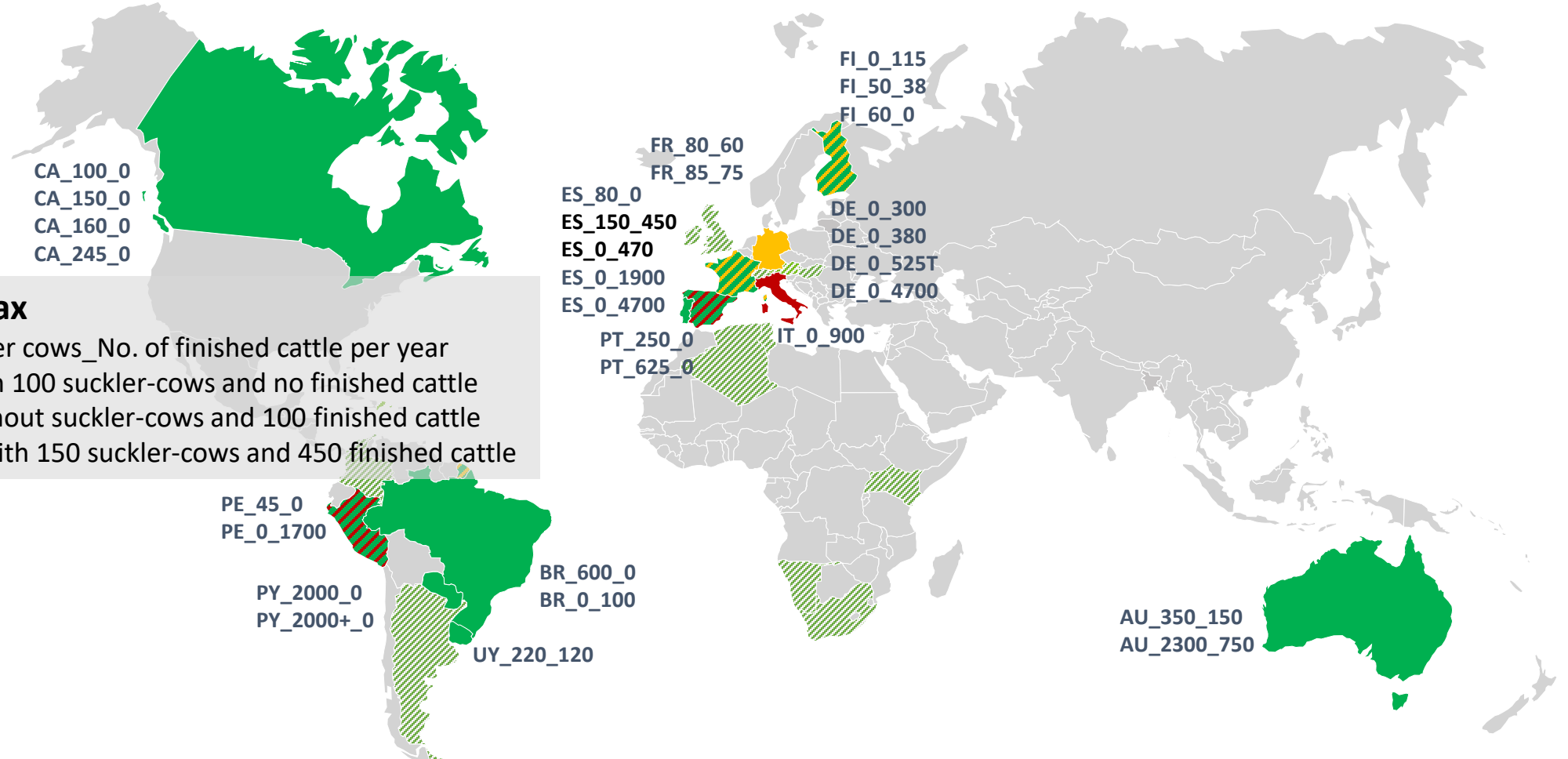
■ ab BS partners – GHG emission benchmark 2024
▨ potential expansion (short-term)

**12 countries, 30 typical farms
(19 cow-calf & 18 finishing systems)**

Farm gate to farm gate life cycle assessment
incl. animals' emissions, manure, feed, bedding,
(fertilizer, energy and transport)
Cradle to farm gate for whole production cycle
(CC+Fin)

- Provide „Typical farm“-based beef footprints
- Expand networks capabilities to streamline GHG emission analysis
- Extend background data „library“ for forage qualities, milk production, bedding, fertilizer, energy footprints

Typical farms in the GHG Baseline



Farm name syntax

Country_No. of suckler cows_No. of finished cattle per year

CA_100_0: Farm with 100 suckler-cows and no finished cattle

BR_0_100: Farm without suckler-cows and 100 finished cattle

ES_150_450: Farm with 150 suckler-cows and 450 finished cattle

Opportunities to get involved

- Contact claus.deblitz@thuenen.de if you wish to get involved
- Preconditions are that you have
 - a) access to farm data in your country / region,
 - b) a good knowledge about production systems of cow-calf and / or beef finishing and their economics / emissions and
 - c) basic knowledge about emission analysis