# Sustell™ service enables accurate footprint measurement to make animal protein value chain more sustainable



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### A full eco-system approach is required involving all stakeholders of animal protein food value chain...

#### From a siloed industry approach

Many product-driven approaches focused purely on single steps of the **ecosystem** looking at it from a supplier perspective

Animal feed

including crop /

raw material

impacts

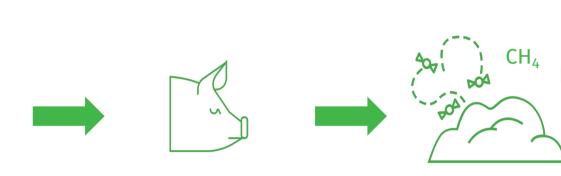


Outputs such

as manure

management

Need to use a full ecosystem approach to show and measure the full environmental footprint of animal protein production and improve it to science-based target



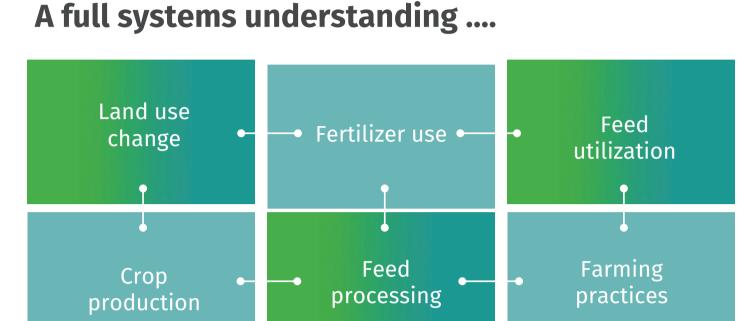
Live production

including

animal health

Food processing

Full ecosystem emissions & environmental footprint



Feed

composition

- methods, databases and calculation tools to determine climate impact
- at farm level
- Enabling tangible and measurable reductions with different interventions - nutritional, manure & housing, energy resources, etc.











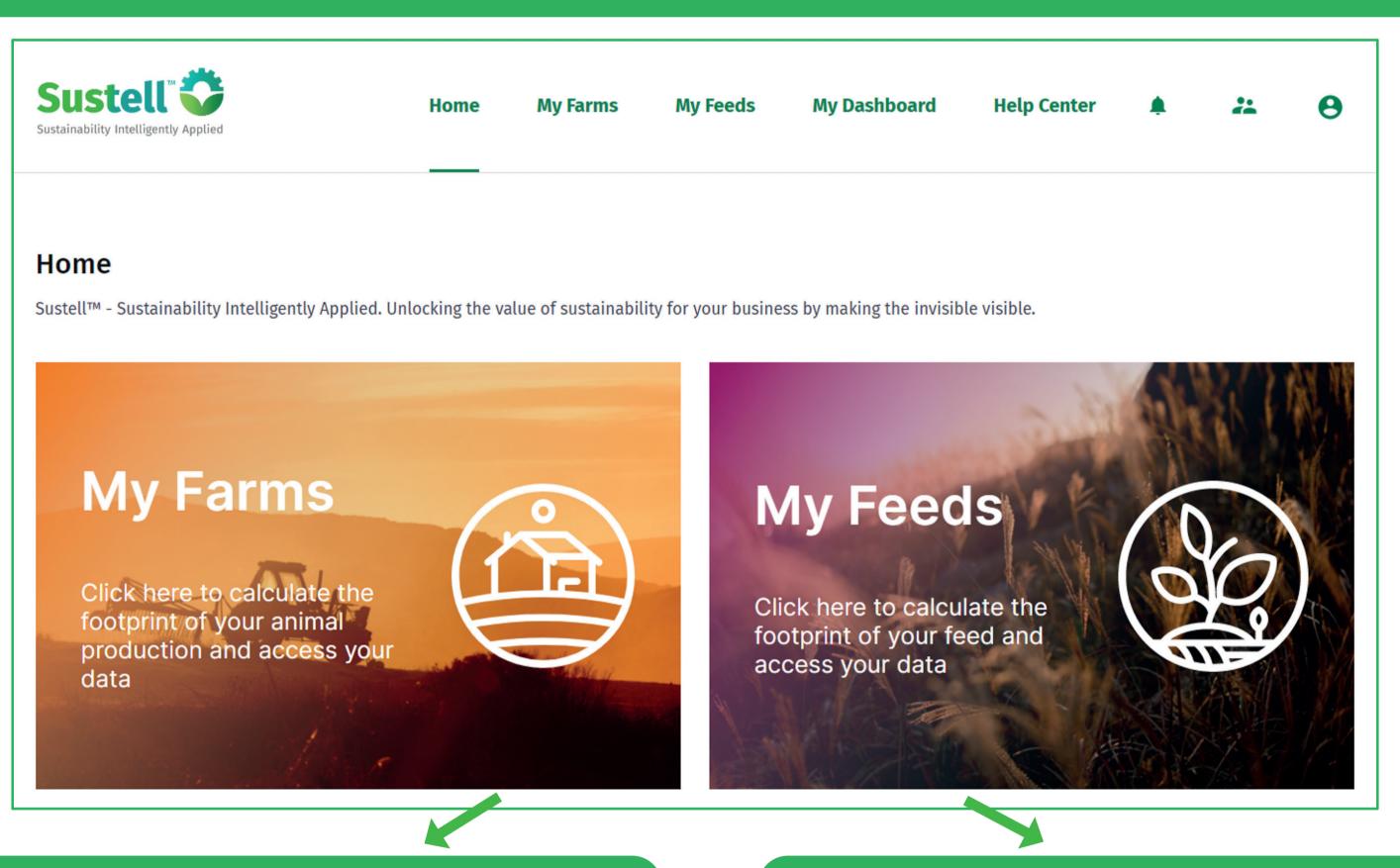
## Sustell™ – An Intelligent Sustainability Service

### Blonk

The Sustell Intelligence Platform is powered by the state-of-the-art APS-footprint tool

### **Credible:**

ISO assured results from verified data input, LCA calculation and scenario analyses certified to ISO 14040/44



#### **Precise:**

use of primary farm & feed data (LCA databases, Agri-Footprint and GFLI) & customer specific compliant LCI data



Part of the full Life Cycle Assessments for "ecolabelling" food & drink brands under the Foundation Earth method

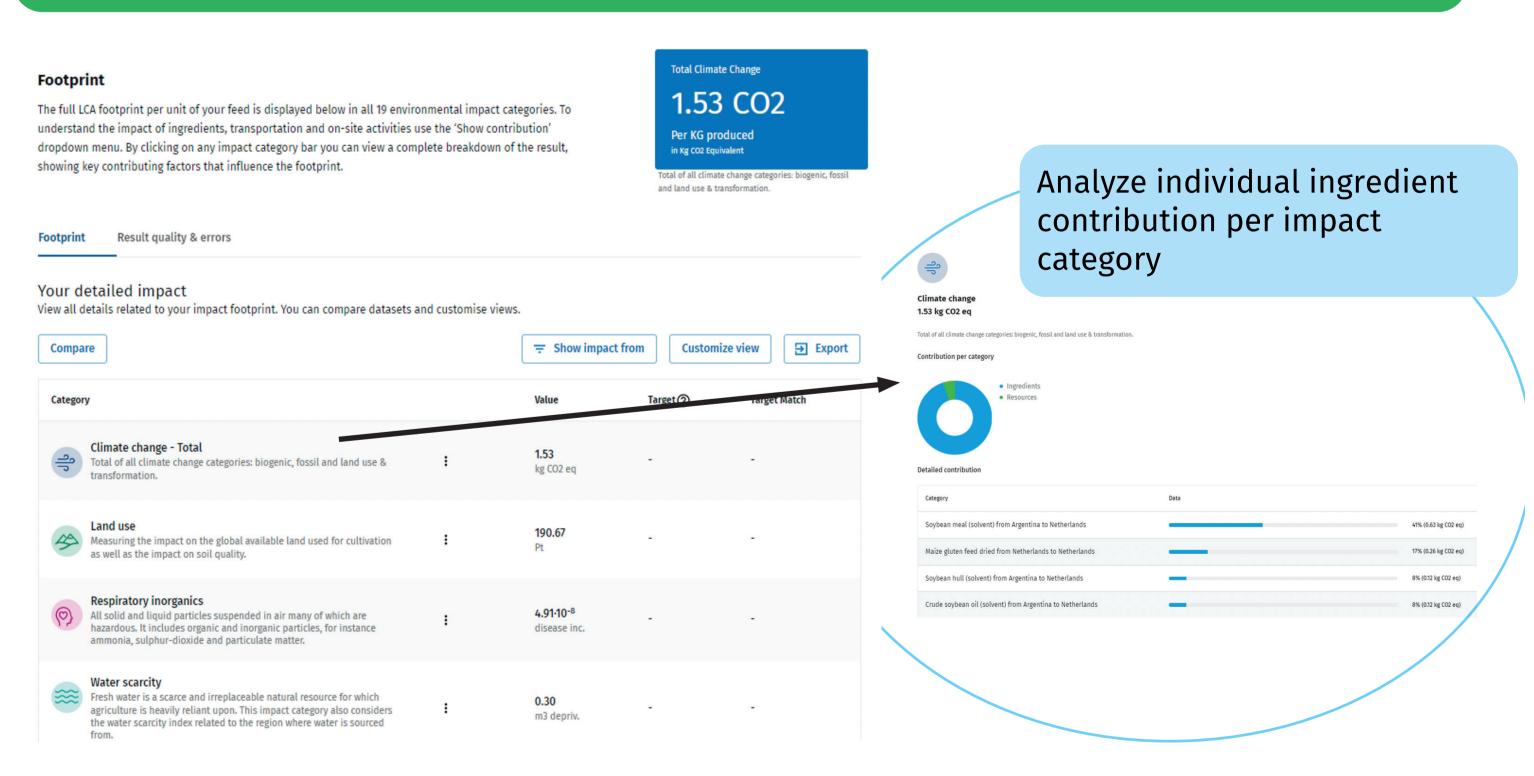
### Full environmental footprint (19 impact categories)/kg milk/meat/eggs

#### Total Climate Change Footprint 1.37 CO2 The full LCA footprint per unit of your animal product is displayed below in all 19 environmental impact categories. To understand the impact of purchased animals, ration, farm operations and resources use the Per KG produced 'Show contribution' dropdown menu. By clicking on any impact category bar you can view a complete in Kg CO2 Equivalent breakdown of the result, showing key contributing factors that influence the footprint. Total of all climate change categories: biogenic, fossil and land use & transformation Result quality & errors 1 Your detailed impact View all details related to your impact footprint. You can compare datasets and customise views. Compare → Export Climate change - Total 53% Over Total of all climate change categories: biogenic, fossil and land use & kg CO2 eq Eutrophication is the enrichment of a water or terrestrial body with nutrients, usually an excess amount of nutrients that induces growth of plants and algae to the biomass load. The extreme growth may result in oxygen depletion and other forms of over-competition that might cause species loss. Respiratory inorganics All solid and liquid particles suspended in air many of which are hazardous. It includes organic and inorganic particles, for instance ammonia, sulphur-dioxide and particulate matter. Water scarcity Fresh water is a scarce and irreplaceable natural resource for which agriculture is heavily reliant upon. This impact category also considers the water scarcity index related to the region where water is sourced Climate change Total of all climate change categories: biogenic, fossil and land use & transformation "What if scenarios" comparisons Contribution per category

LEAP Road Test - Baseline - 1.37 kg CO2 eq

LEAP Road Test - Combination of Feed Additives - 1.14 kg CO2 eq

### Full environmental footprint (19 impact categories)/kg feed



Land Use and Land Use Change (LULUC) • Purchased animals • Farm • Resources • Ration - Personal Target Business insight dashboard: Target setting per category Multi-farm footprint analyses

analyses of contribution sources per

impact category