

Carbon footprinting free range egg production

Eggbase^o

Unlock the power of data



www.eggbase.co.uk

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Eggbase is a software company that works exclusively in the egg & poultry sector

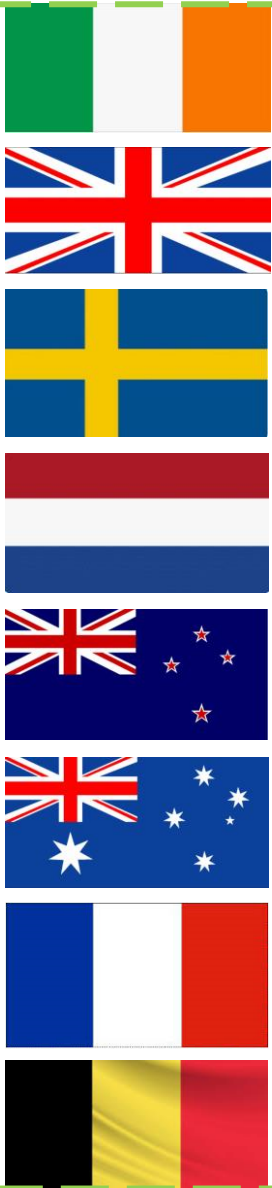
We help with:

- Traceability
- Efficiency
- Productivity
- Bird welfare
- Compliance
- Sustainability

We work for:

- Egg layers
- Pullet rearers
- Broiler growers
- Breeders
- Packers
- Feed suppliers
- Vets
- Assurance schemes
- Retailers
- Banks

In:



Our software:

- Eggsense
- Avisense
- EggbasePacker
- EggbaseAssure



100's

Why is carbon footprinting important to your farm?

1. The value chain have legal deadlines by which they must set emissions reduction targets:

- Supermarkets and restaurant chains (all large business with more than 500 employees)
- Packers and processors
- Banks



2. Your farm is part of their 'Purchased goods' emissions

3. So, they will ask you for carbon footprints of your flocks to meet their obligations



Also, beginning to see Codes of Practice including a requirement for carbon footprinting (eg British Lion Code ver 8.0)

There are benefits too

Emissions reductions will improve production efficiencies = increased profitability

+

Farm level decisions are crucial to sustainable agriculture = reduced emissions

+

Climate-friendly products = competitive advantage

+

Gain recognition for your hard work



Know your numbers

You are lucky in the egg and poultry industry – you record, you are audited
= you have data already



Carbon footprinting needs data – rather a lot of it



So, let's see what you need and how we can make the carbon footprinting process as easy as possible for you



Sustainability
Programme



Irish Organic Association
Organic Certification at its best



An Roinn
**Talmhaíochta,
Bia agus Mara**
Department of
**Agriculture,
Food and the Marine**



Not all footprint calculators are equal!

TCFD '7 principles for effective disclosure'

Disclosure should:

1. Represent relevant information
2. Be specific and complete
3. Be clear, balanced and understandable
4. Be consistent over time
5. Be comparable among companies within a sector
6. Be reliable, verifiable and objective
7. Be provided on a timely basis

Generic calculators that use average values do not conform to these principles so use the most egg and poultry-specific carbon footprinting tool you can

The Eggbase carbon footprinting tool



Calculations verified by:



- UK Centre for Industrial Sustainability, Institute for Manufacturing at The University of Cambridge, UK
- ClimatePartner GmbH



Compliant with:



- IPCC GHG Guidelines
- GHG Protocol PAS2050

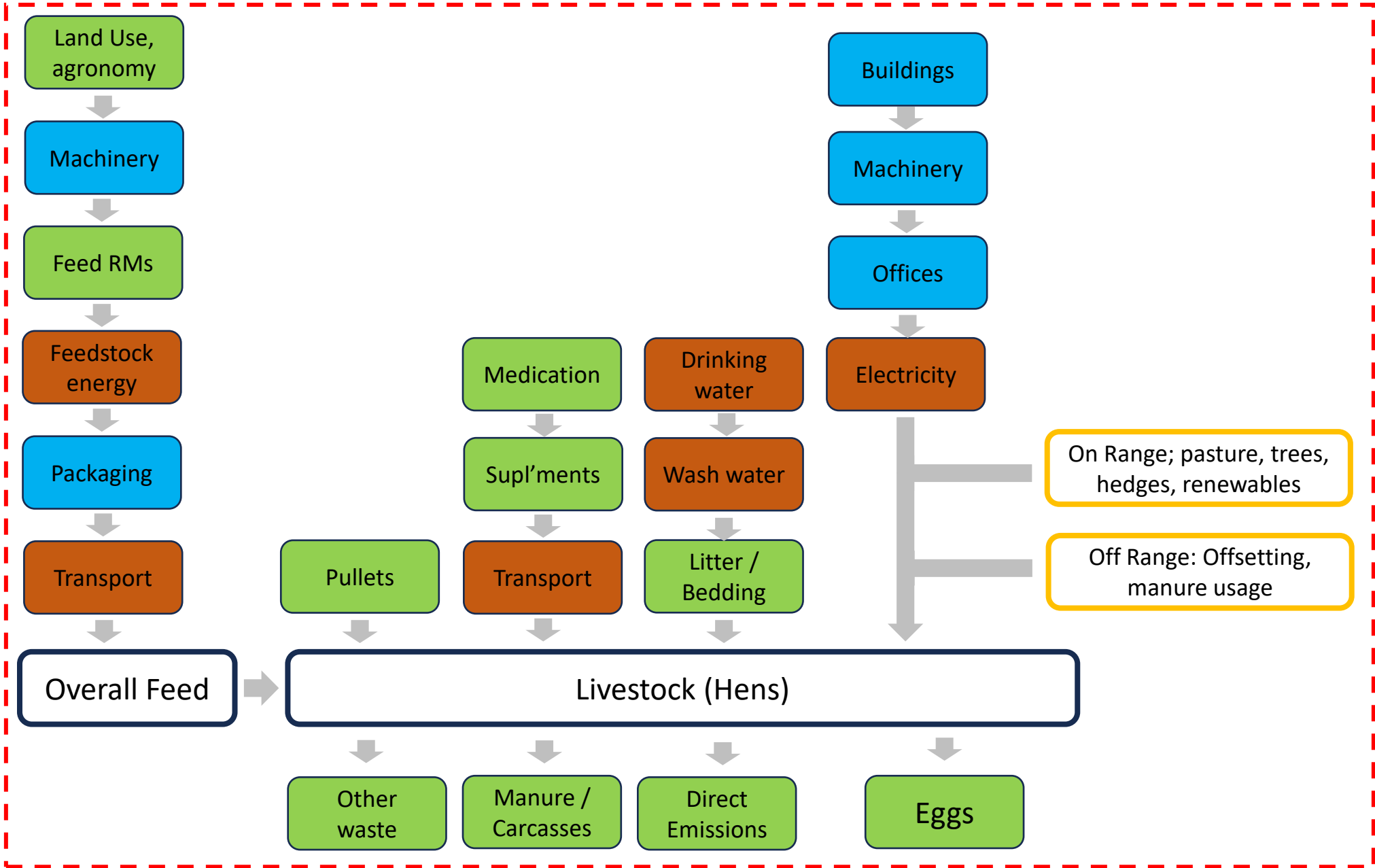


Assessed to:



- British Standards Institution PAS2060 carbon neutrality & certification standard

Boundaries – to be comparable among companies within a sector



- Inorganic materials
- Organic materials
- Utilities
- Location (no impact)
- Carbon sequestration

--- Boundary

On Range; pasture, trees, hedges, renewables

Off Range: Offsetting, manure usage

Eggbase either emails you a template to enter end of flock data
or
you enter end of flock data through an online form



Eggbase verifies your complete dataset & runs your flock footprint

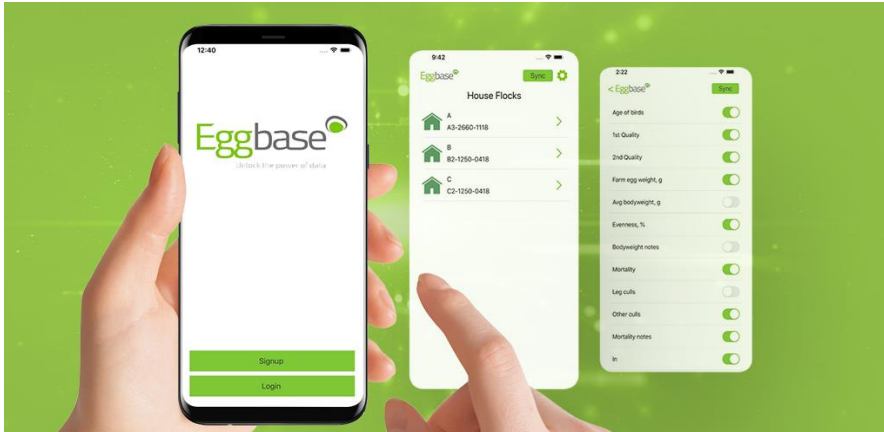


Eggbase returns your two-page carbon footprint report to hand to whoever asks you for it

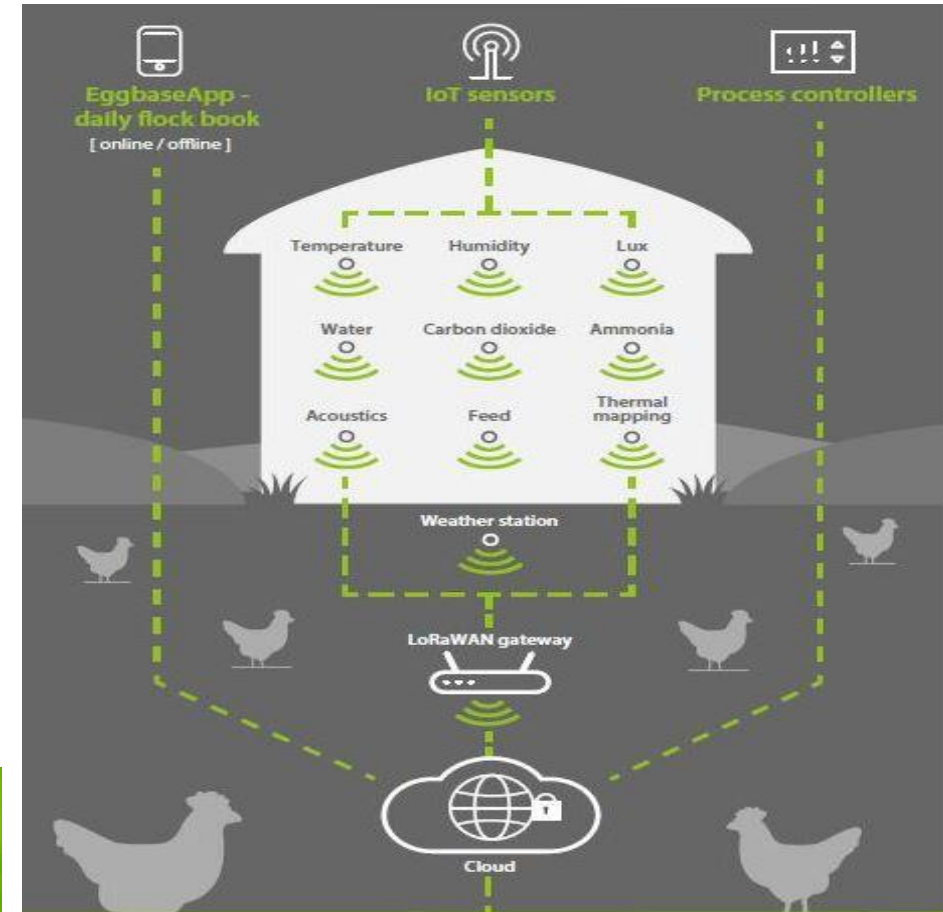


An action plan & recommendations are available

Collecting data to carbon footprint a flock – method 2 = Eggsense



Manual data entry or
iOS & android apps or
API integrations with
third party process
controllers & sensors



Data collected through flock lifecycle auto-populates carbon footprint tool



Eggbase verifies your complete dataset

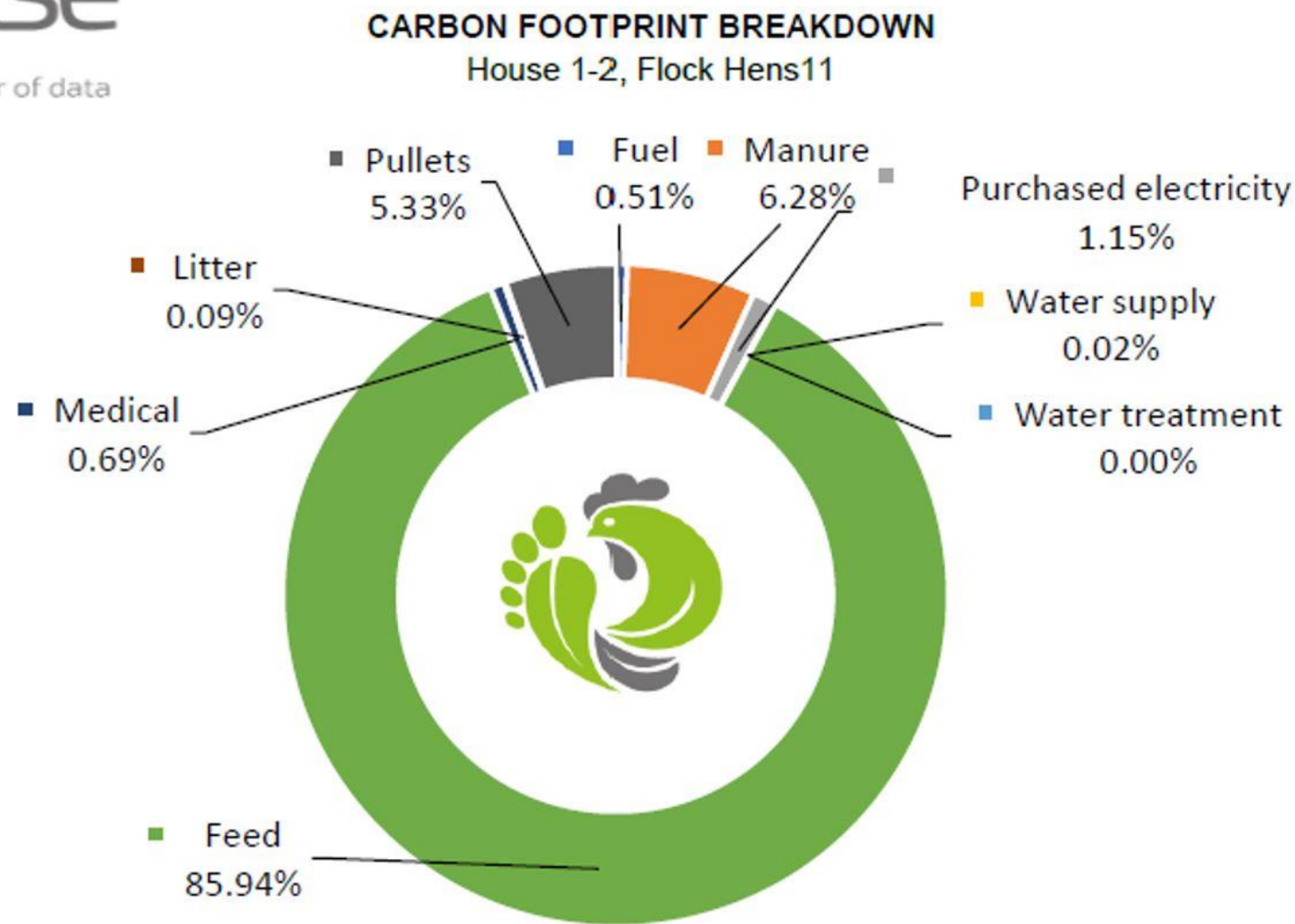


You run carbon footprint report in Eggsense

What data do I need for a carbon footprint?

- farm, house, flock, breed, lifecycle duration
- bodyweights, cumulative egg mass, mortality
- fuel type & quantity of each type used within range
- mains electricity purchased
- mains water used
- emission intensity of specific medicines & disinfectant product or economic spend
- emission intensity of specific litter products or economic spend
- feed - quantity of each ration, emissions intensity of each ration inc. home-grown cereals, insects or % raw materials & countries of origin, distance to feed supplier, no. feed deliveries
- full footprint of pullet rearing cycle or economic spend on pullets, distance to pullet supplier

Eggbase carbon footprint report - the visual



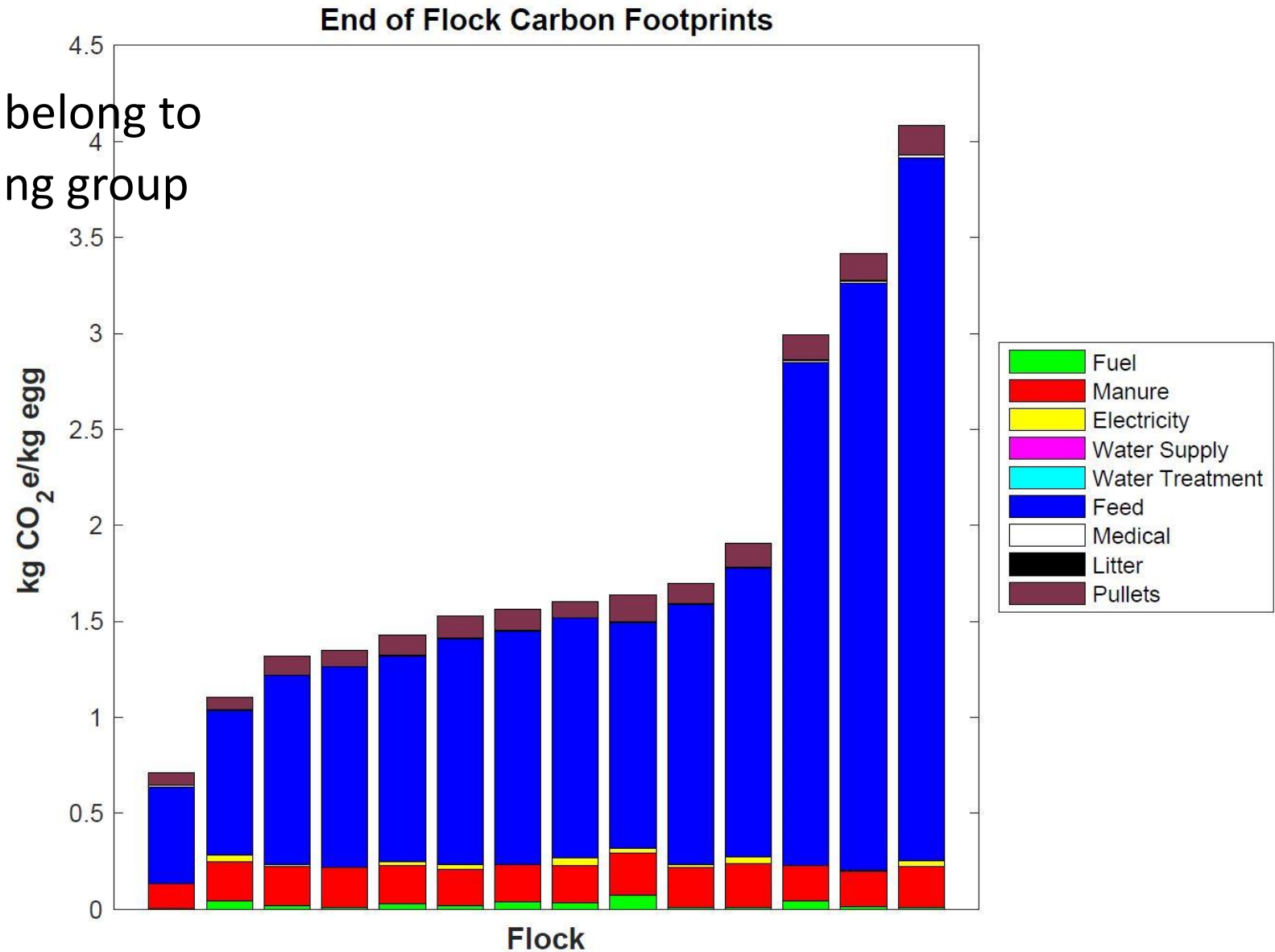
Eggbase carbon footprint report – the anonymous benchmarking

- at overall emissions level
- across any Eggsense group you belong to
- across the Eggbase benchmarking group



Eggbase carbon footprint report – the anonymous benchmarking

- at individual component level
- across any Eggsense group you belong to
- across the Eggbase benchmarking group



- you will be asked for a carbon footprint of your flock at the end of lay
- it is not difficult to do one
- use the most egg-specific carbon calculator you can
- know which data you need to know
- collect the necessary data from the start of the flock
- ask your pullet rearer for the embedded emissions in your pullets
- ask your feed supplier for the emissions intensity values of your rations
- feel free to ask me any questions – email anne@eggbase.co.uk