fodjan is much more
smart feeding.

2014

The dairy farmers tool to calculate rations easier

2023

An international multi-device multi-species and multi-users platform

- Feed stock & ration calculation
  - database
  - feed model algorithms
- user management
  - advisors
  - feeder
  - herd manager
- interfaces
  - laboratories
  - feed mixing technology
  - CMS
  - Milk quality
  - Milk report
  - documentation
- analytics
  - Milk
  - Feed controlling
  - animals
- App
  - iOS
  - Android
  - Push Notifi-cations
- ...

fodjan

contacts to fodjan
smart feeding.

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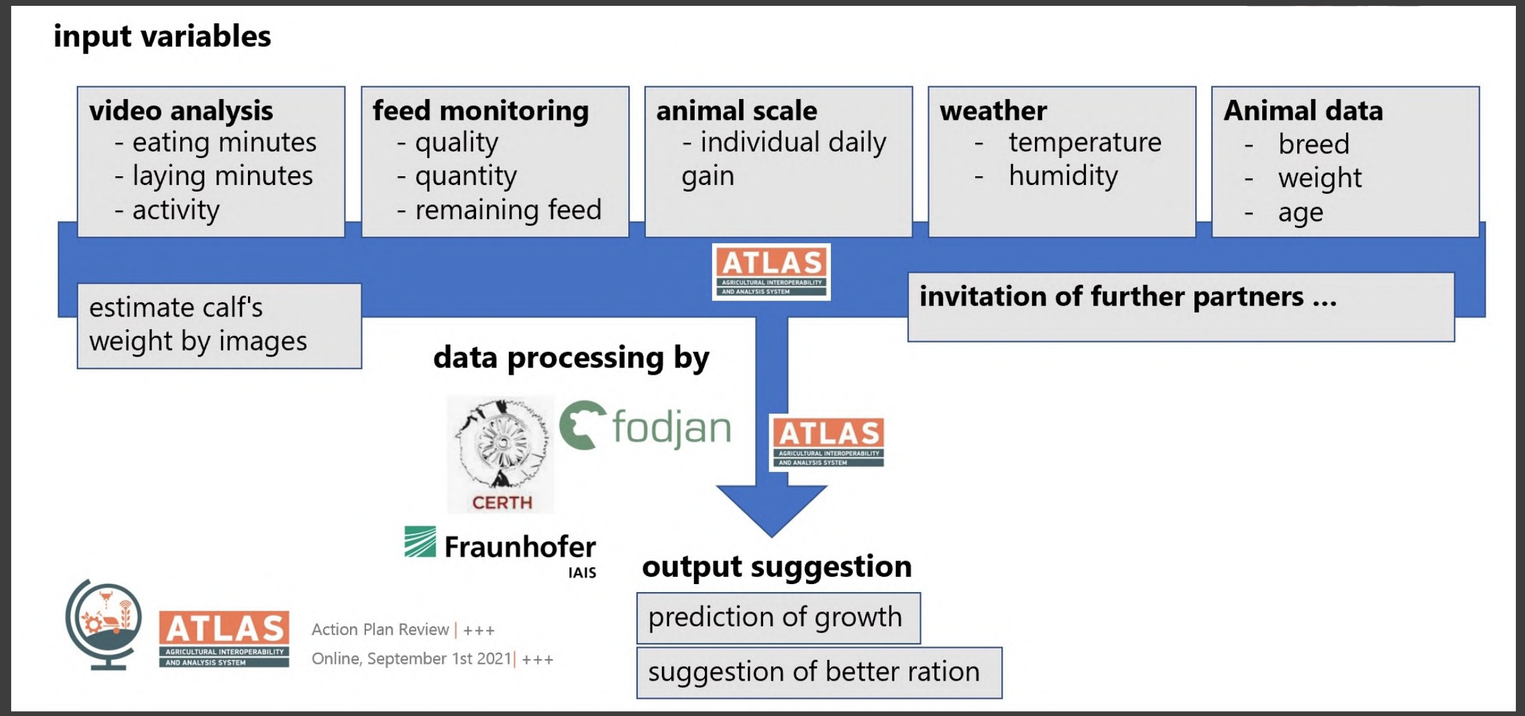
fodjan

Usecase Herdmanagement & Beef Model



data sharing with service templates

creating a digital barn twin

sustainability dashboard

supportive feature for growing animals

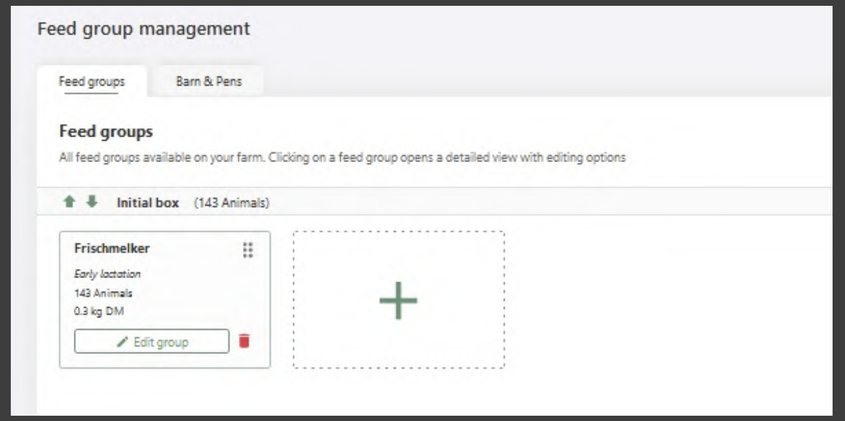
fodjan as an example for a digital barn twin

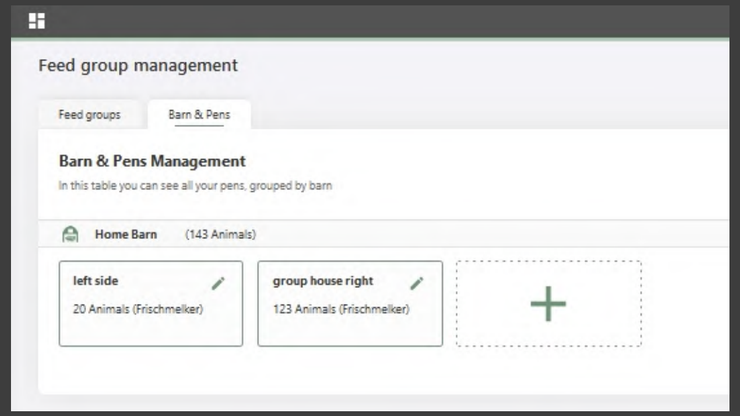
farmer can copy the strutcture of farm in a digital tool

bring it down from barn to animalgroup to pens

focus on easy usage and

integration of animal_data service template

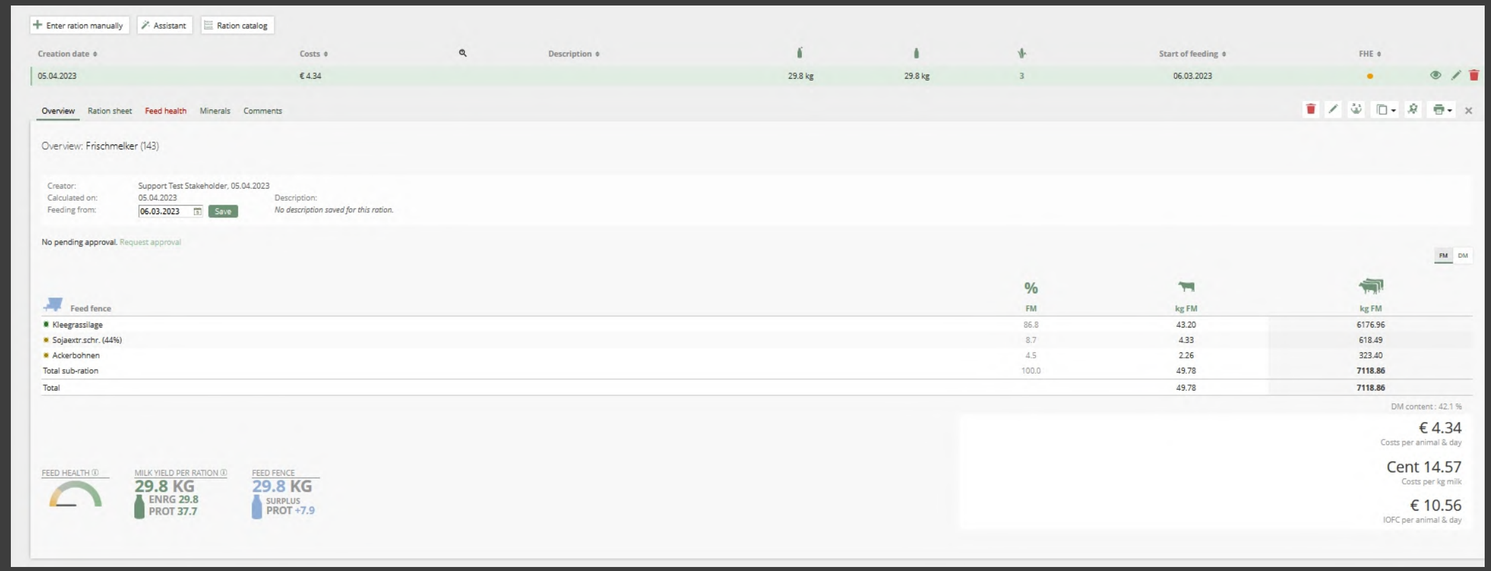




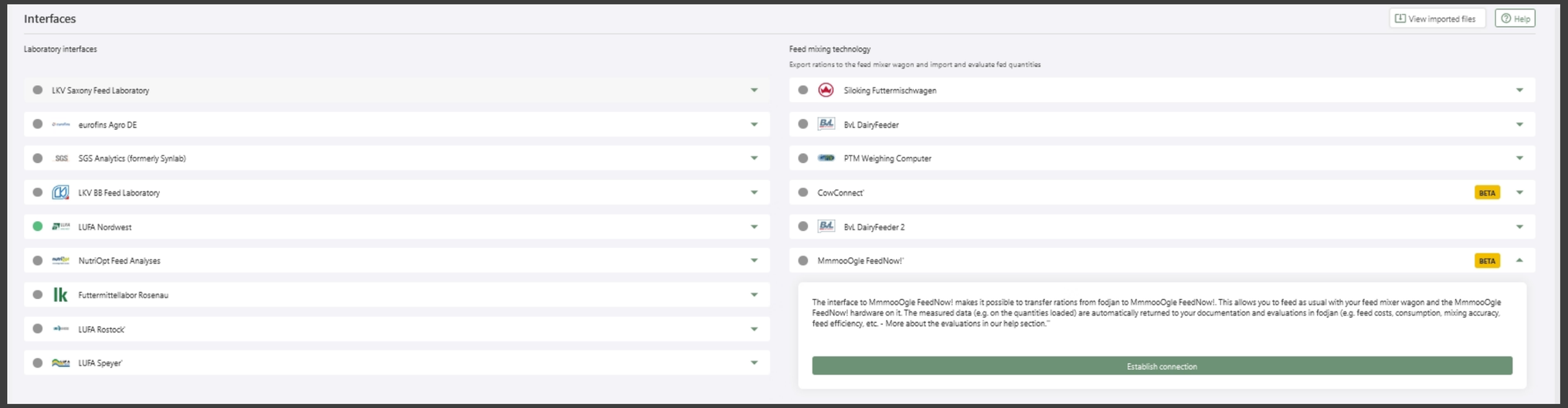
fodjan optimizes co working of feed consultant and farmer

manage feedstuff on the platform

plan and optimize rations



ration data can be sended by standardized interfaces



MmmooOgle FeedNowBox as an on-Farm-feeding tool

planned ration is exported with pen-information

fodjan wants to update
all interfaces to standards

ATLAS AGRICULTURAL INTEROPERABILITY AND ANALYSIS SYSTEM
fodjan

feeding data is imported after feeding

MmmooOgle FeedNowBox as an on-Farm-feeding tool (also ATLAS partner)

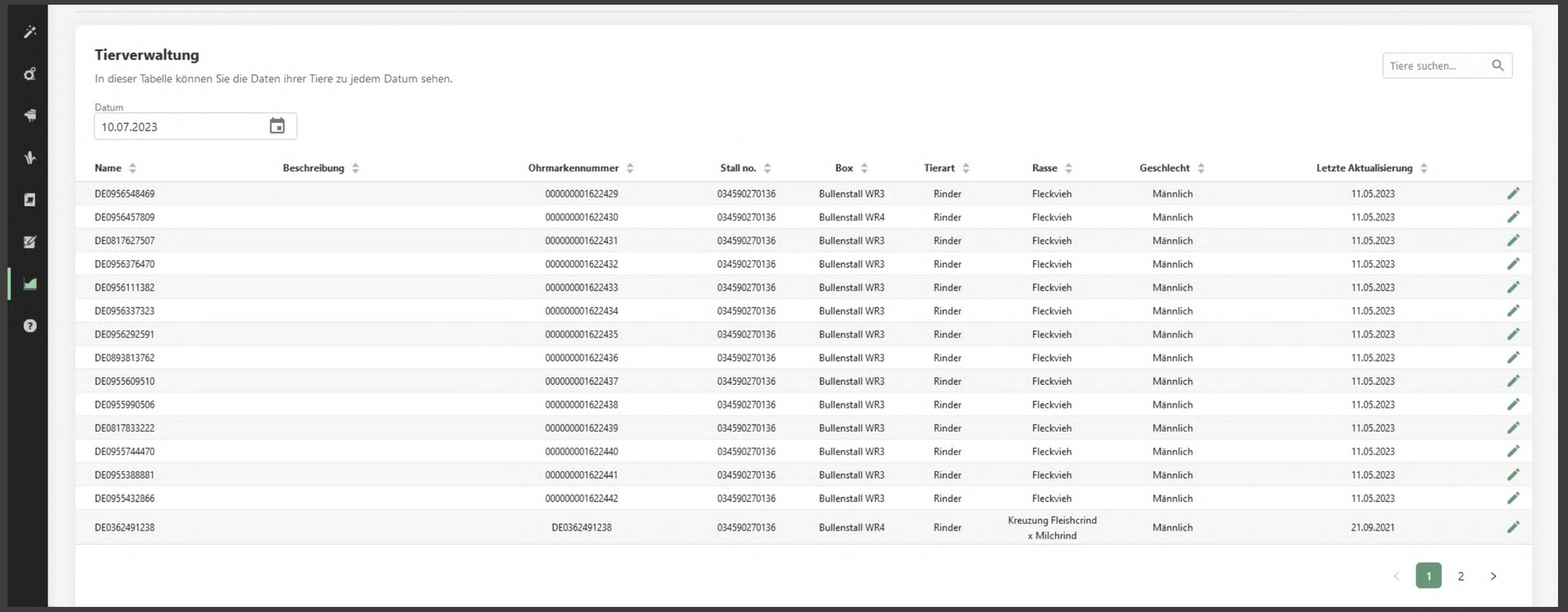
MmmooOgle FeedNowBox can be combined with nearly every feeding technology

integration of feeding_data template for closing the loop of feeding data

feeding report is imported with amounts and pen information

import from other templates

import of animal data througout other service templates p.e. Hencol , activity tracking



Tierverwaltung

In dieser Tabelle können Sie die Daten ihrer Tiere zu jedem Datum sehen.

Tiere suchen...

Datum

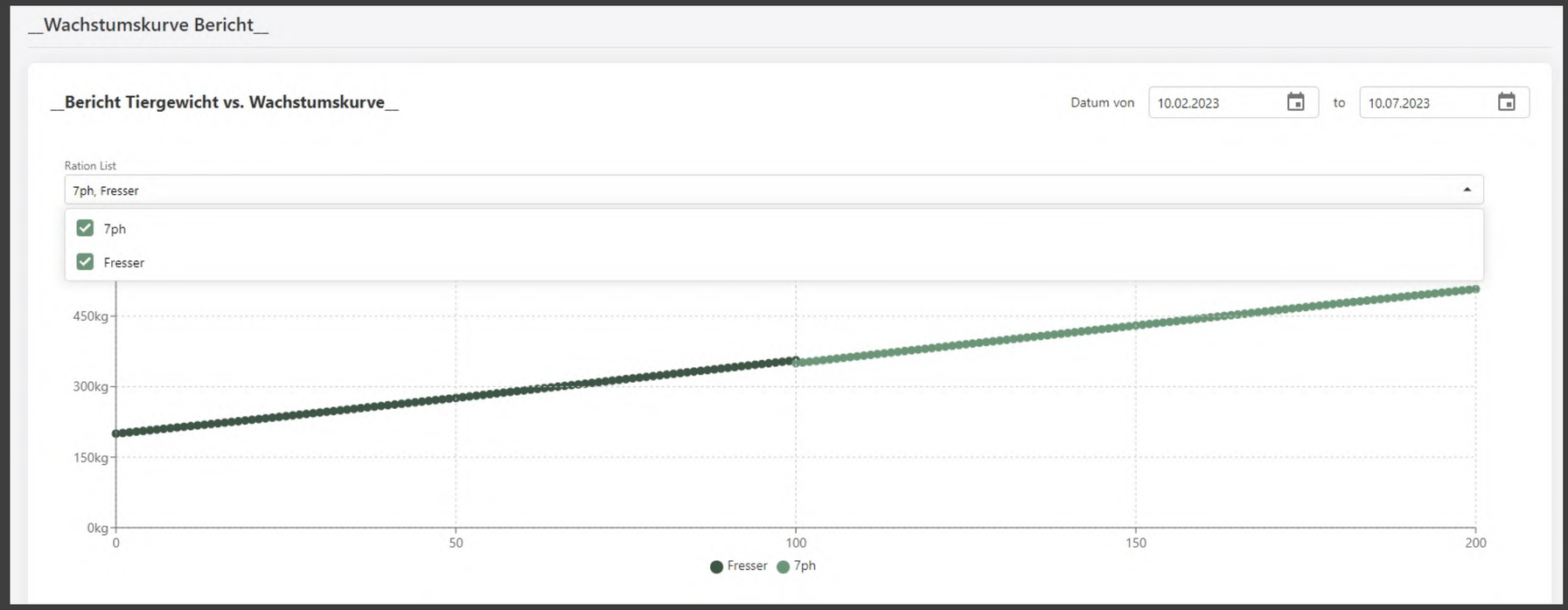
10.07.2023

Name	Beschreibung	Ohrmarkennummer	Stall no.	Box	Tierart	Rasse	Geschlecht	Letzte Aktualisierung
DE0956548469		000000001622429	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0956457809		000000001622430	034590270136	Bullenstall WR4	Rinder	Fleckvieh	Männlich	11.05.2023
DE0817627507		000000001622431	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0956376470		000000001622432	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0956111382		000000001622433	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0956337323		000000001622434	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0956292591		000000001622435	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0893813762		000000001622436	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0955609510		000000001622437	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0955990506		000000001622438	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0817833222		000000001622439	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0955744470		000000001622440	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0955388881		000000001622441	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0955432866		000000001622442	034590270136	Bullenstall WR3	Rinder	Fleckvieh	Männlich	11.05.2023
DE0362491238	DE0362491238		034590270136	Bullenstall WR4	Rinder	Kreuzung Fleishcrind x Milchrind	Männlich	21.09.2021

1 2

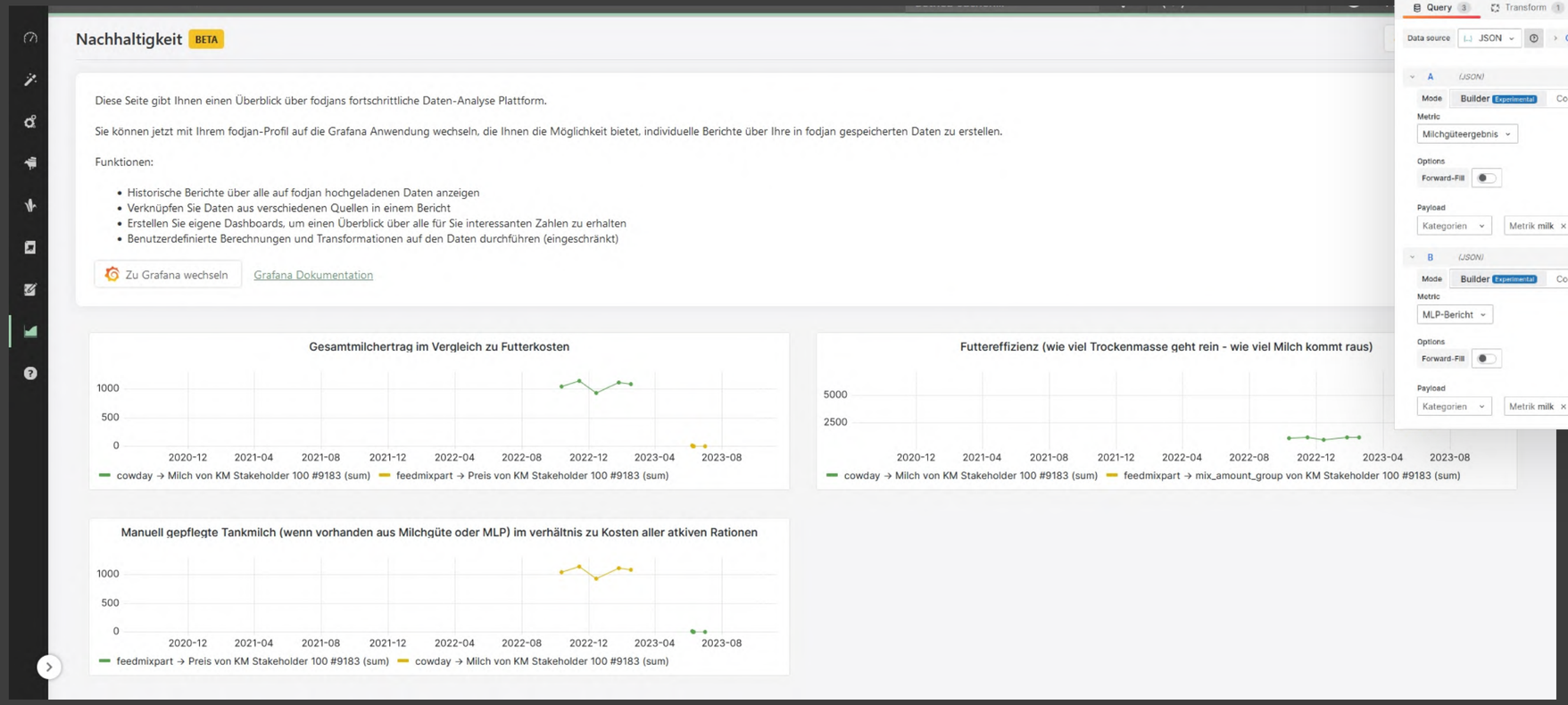
using data for growth curves

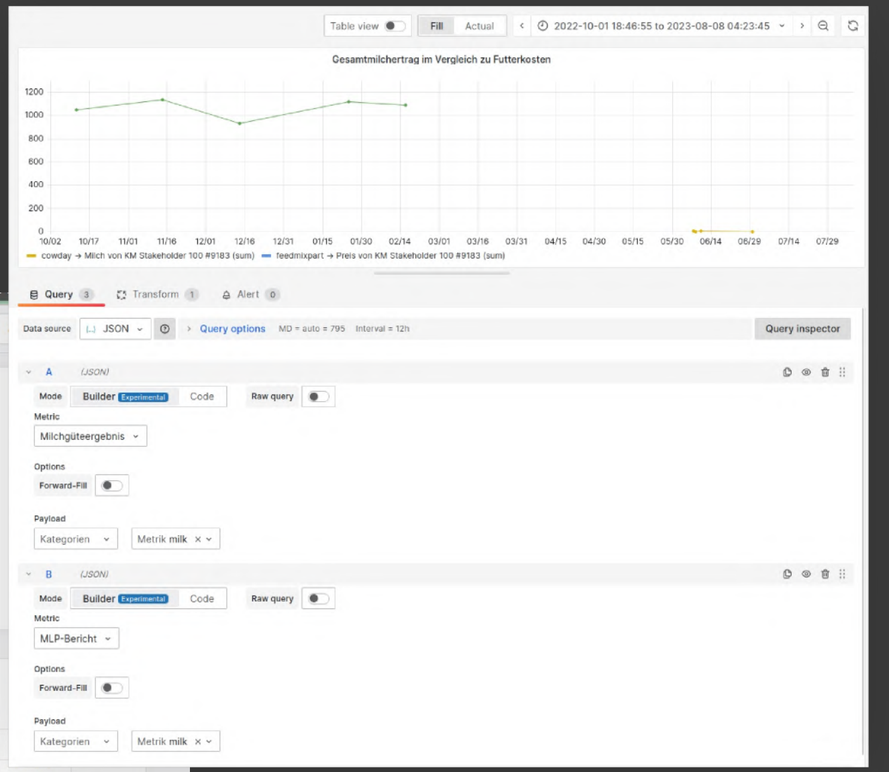
import of animal data througout other service templates p.e. Hencol , activity tracking



making data accessible

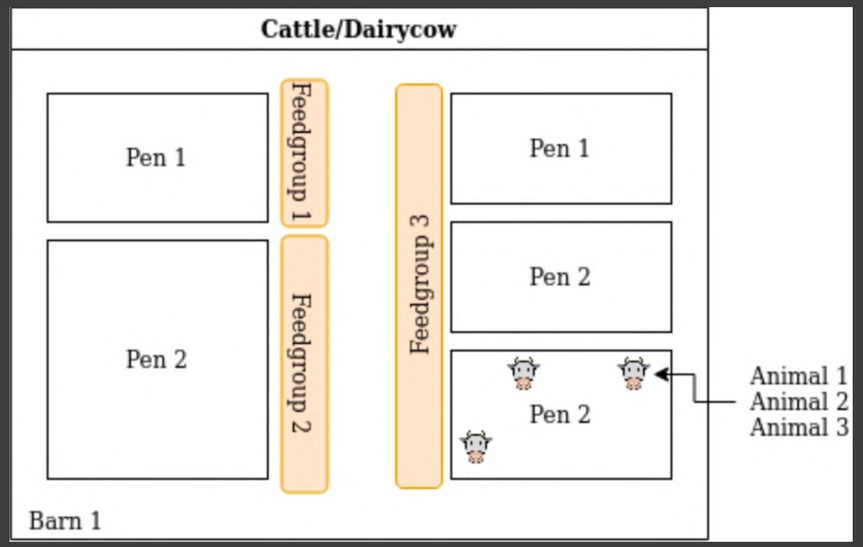
data access with Grafana for sustainability analysis and individual dashboards

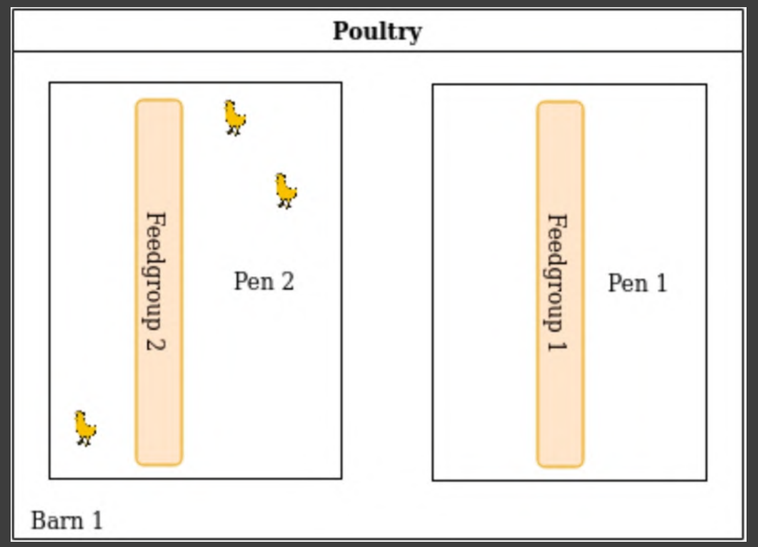


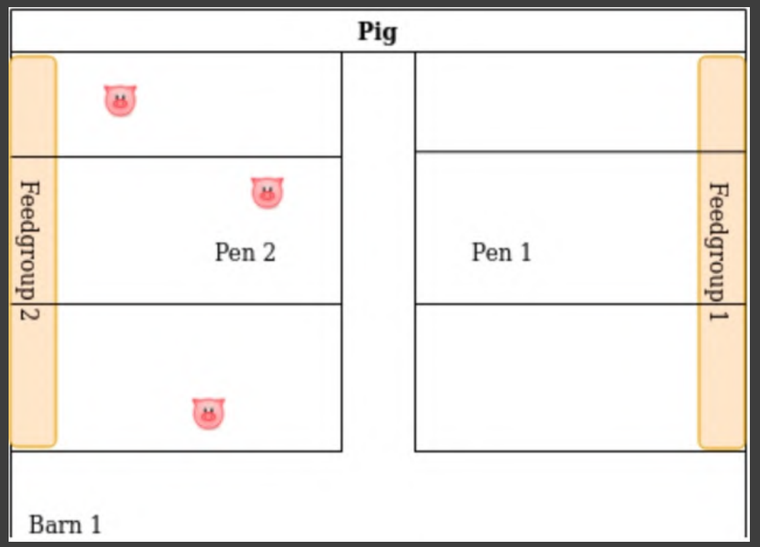


Animal Data - digital barn twin

Animal Data - digital barn twin







Animal Data - digital barn twin

Animal Data - digital barn twin

Server

Implemented by Hencol

- farm-structure
- animals
- daily animal weights as events

Implemented by fodjan

- farm-structure
- animals
- milking reports as events

Client

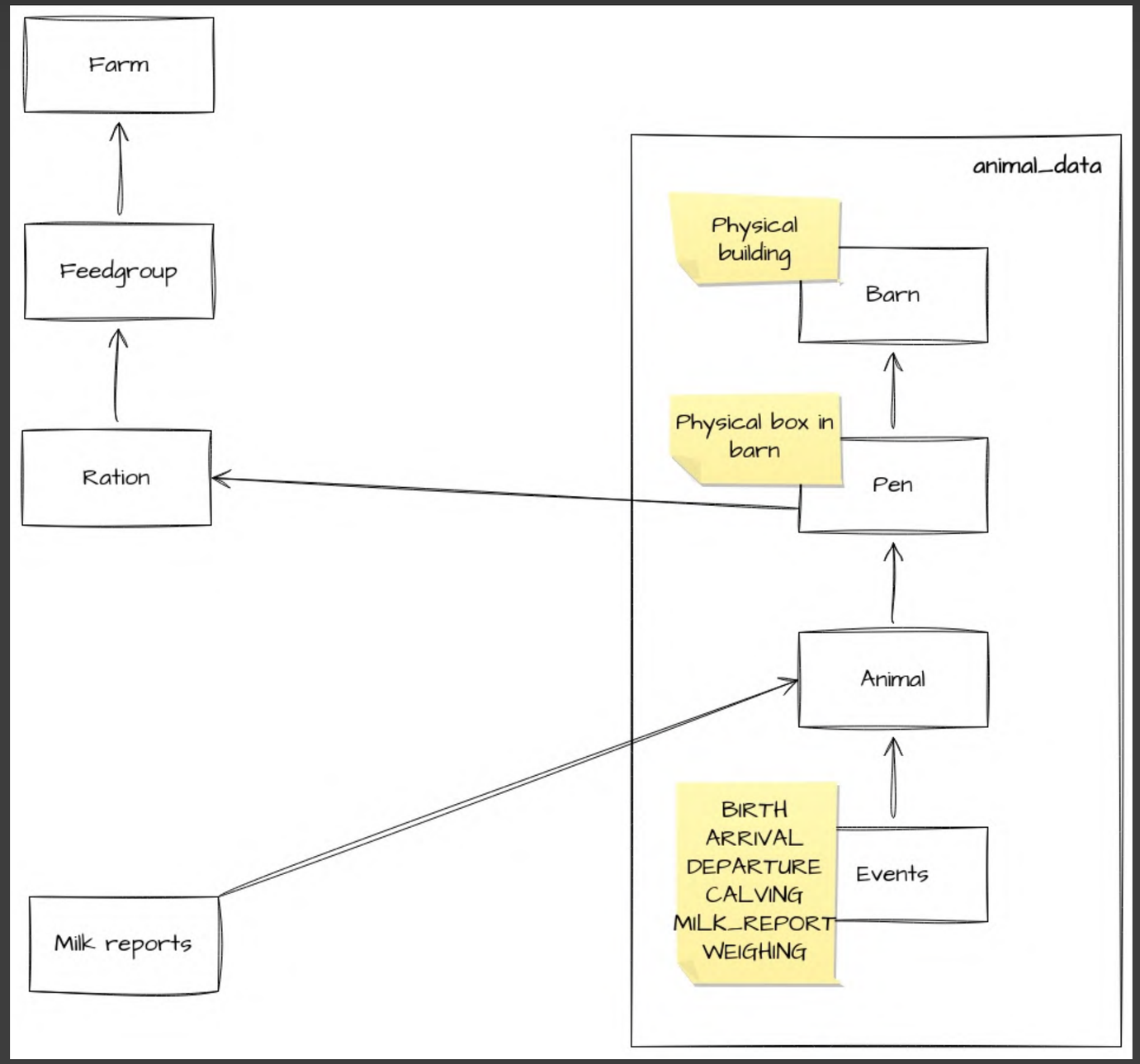
fodjan

- structure + weighings from Hencol

Frauenhofer IAIS

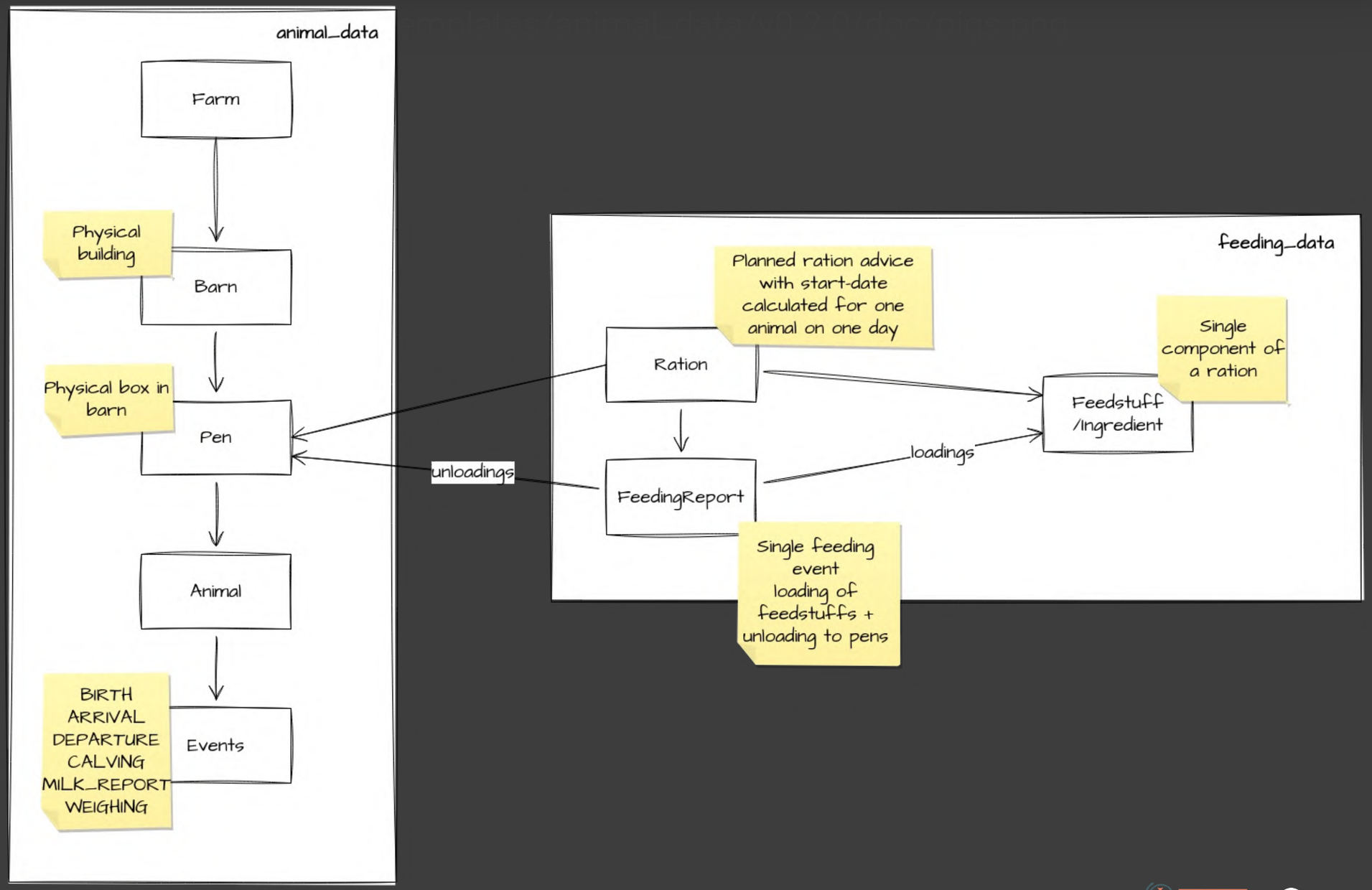
- use pens to assign video-streams to it

Animal Data

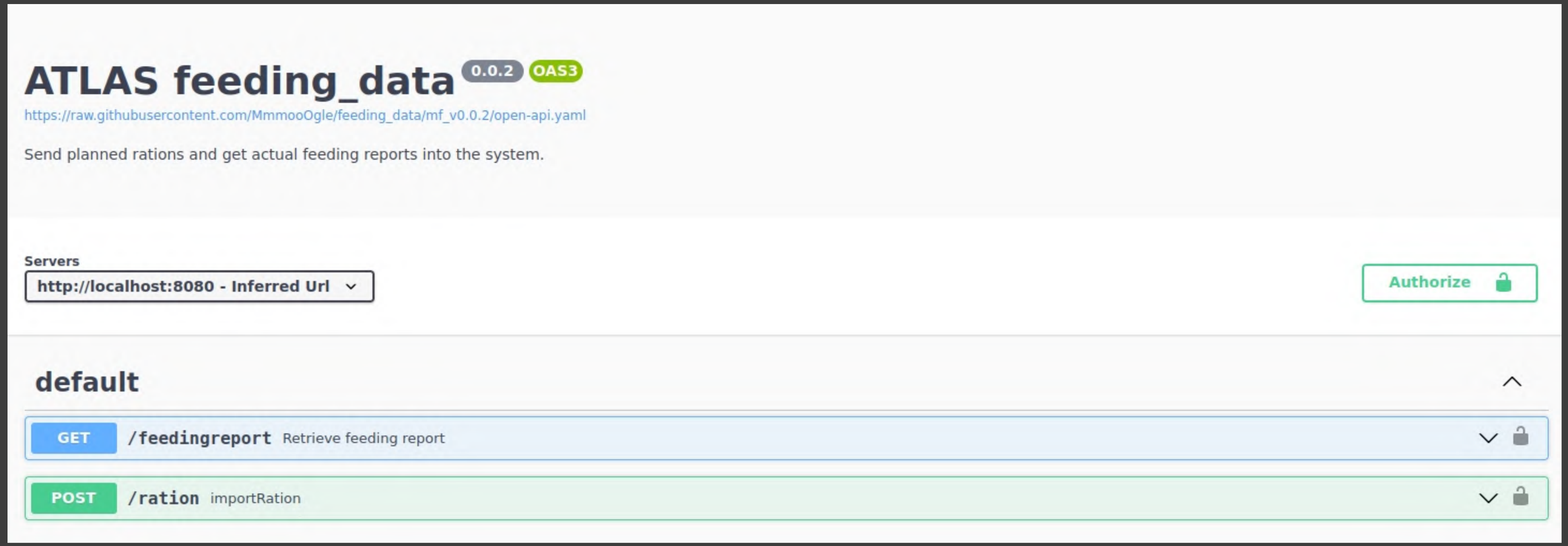

Farm
Feedgroup
Ration
Milk reports
animal_data
Physical building
Barn
Physical box in barn
Pen
Animal
BIRTH
ARRIVAL
DEPARTURE
CALVING
MILK_REPORT
WEIGHING
Events

Feeding data

Feeding data



Feeding data



Feeding data - POST /ration


```
{
  "ration_ref": "62559890-acfb-11ed-afa1-0242ac120002",
  "feedstuffs": [
    {
      "amount_freshmatter": 12.5,
      "cost_kg_freshmatter": 0.4125,
      "drymatter_percentage": 87,
      "feedstuff_id": "49c78036-acfb-11ed-afa1-0242ac120002",
      "name": "Sojabohnen (gesch., Bioprofin)",
      "type": "dry_forage"
    }
  ],
  "pen_allocations": [
    {
      "feed_intake_per_animal": 31.5,
      "urn": "urn:de.fodjan.animal_data:69d4a4ec-e8a4-4768-a299-14a7a9acd1b1"
    }
  ],
  "name": "Ration Test 1",
  "start_date": "2023-07-11"
}
```

https://raw.githubusercontent.com/atlas-ld2020/templates/animal_data_v0.2.0/data/mmoogle.ttl

Feeding data

Server

Implemented by MmmooOgle

- Programm scale with rations
- Getting fed rations as feedingreport

Further vendors are interested…

Client

fodjan

- Sending calculated rations to MmmooOgle
- Build accuracy report out of feedingreport

https://raw.githubusercontent.com/atlas-2020/templates/animal-data-v0.2.0/data/animal.csv

Building Interfaces with ATLAS principles

+ Better discussions about data-flow
+ Significantly better documentation
+ Integration approach between services in their design avoids conflicting data-redundancy
+ Basic technologies OAuth2 + OpenAPI improves security and developer experience