

Poultry ventilation FARMTEC

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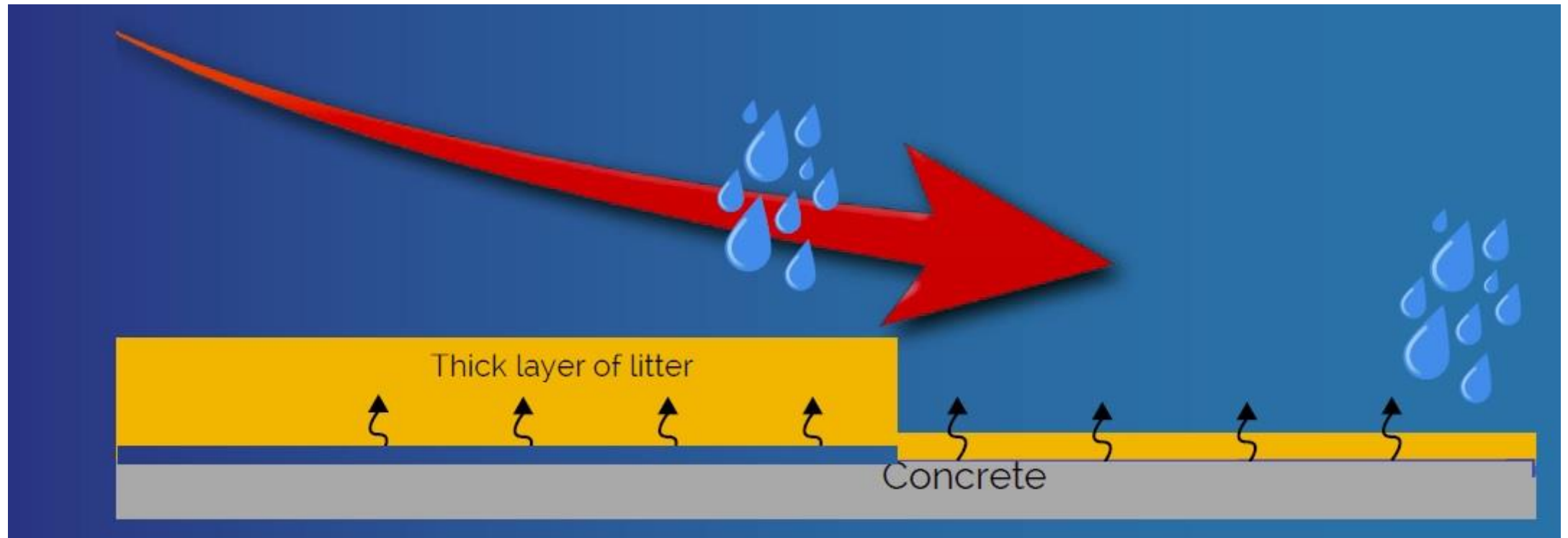
- Litter management
- Dimensioning and pitfall
 - House layout when converting cage to Aviary
 - Air distribution with Heat Exchanger

Management points

- Preheat the floor (Condensation sneak in at 12-18 days, and destroy litter)
 - Use a small amount of litter (That help avoid condensation)
 - Use a good litter material that can absorb moist and compost)
 - Keep the birds well distributed (no birds in an area = cold floor)
 - Manage your drinker system (Water spillage is the biggest killer of litter)
 - Feed quality can make wet litter (salty fee make birds drink more)
 - Disease can make wet litter (we all drink more when we are sick)
-
- Ventilation can help, but not cure big mistakes in above

Condensation and drying, thick and thin layer of litter

- If the litter debt is too much, the floor will be cold
- The humidity in the air will then create condensation on the floor



Example of condensation on floor



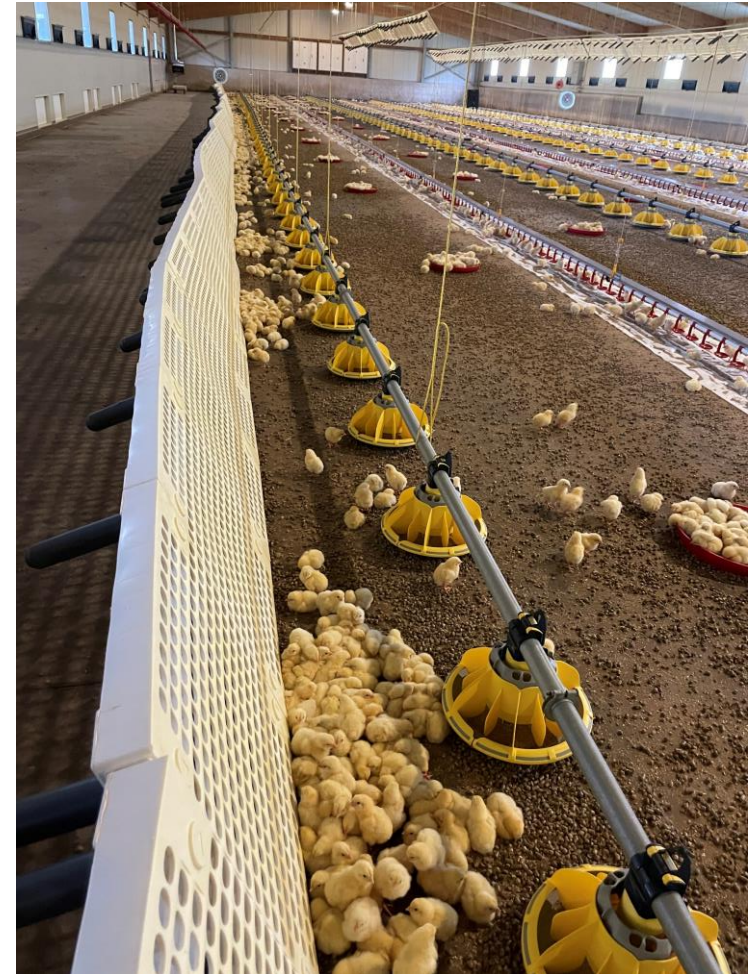
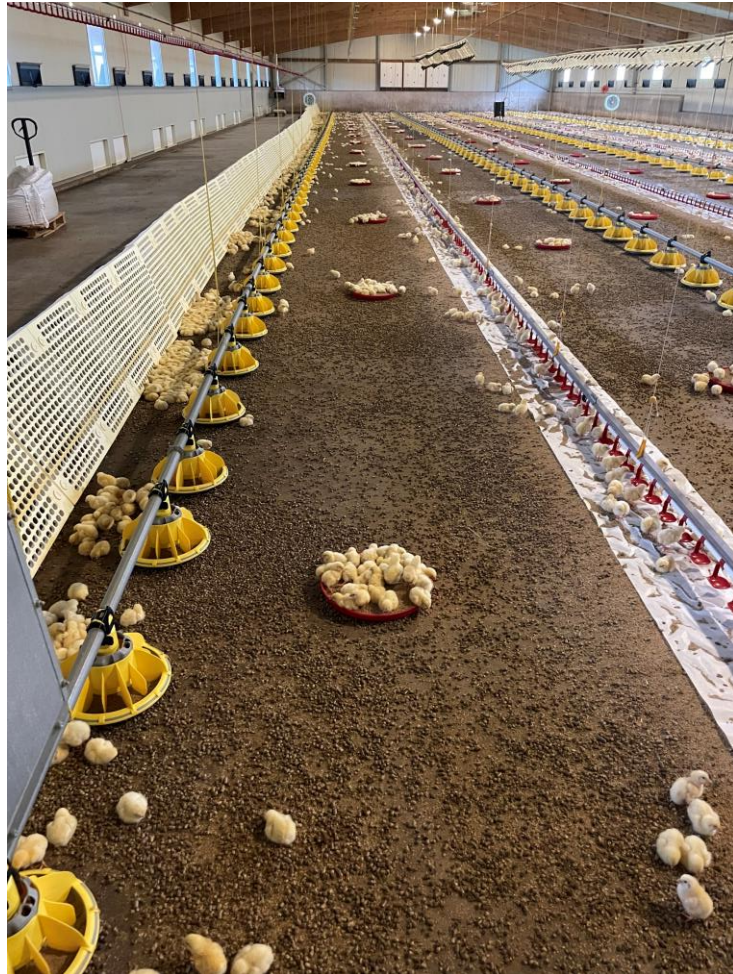
Bad wet, Bedding



Top 2 cm dry
Wet underneath

Too much litter anyway

Birds huddling



Floor temperature

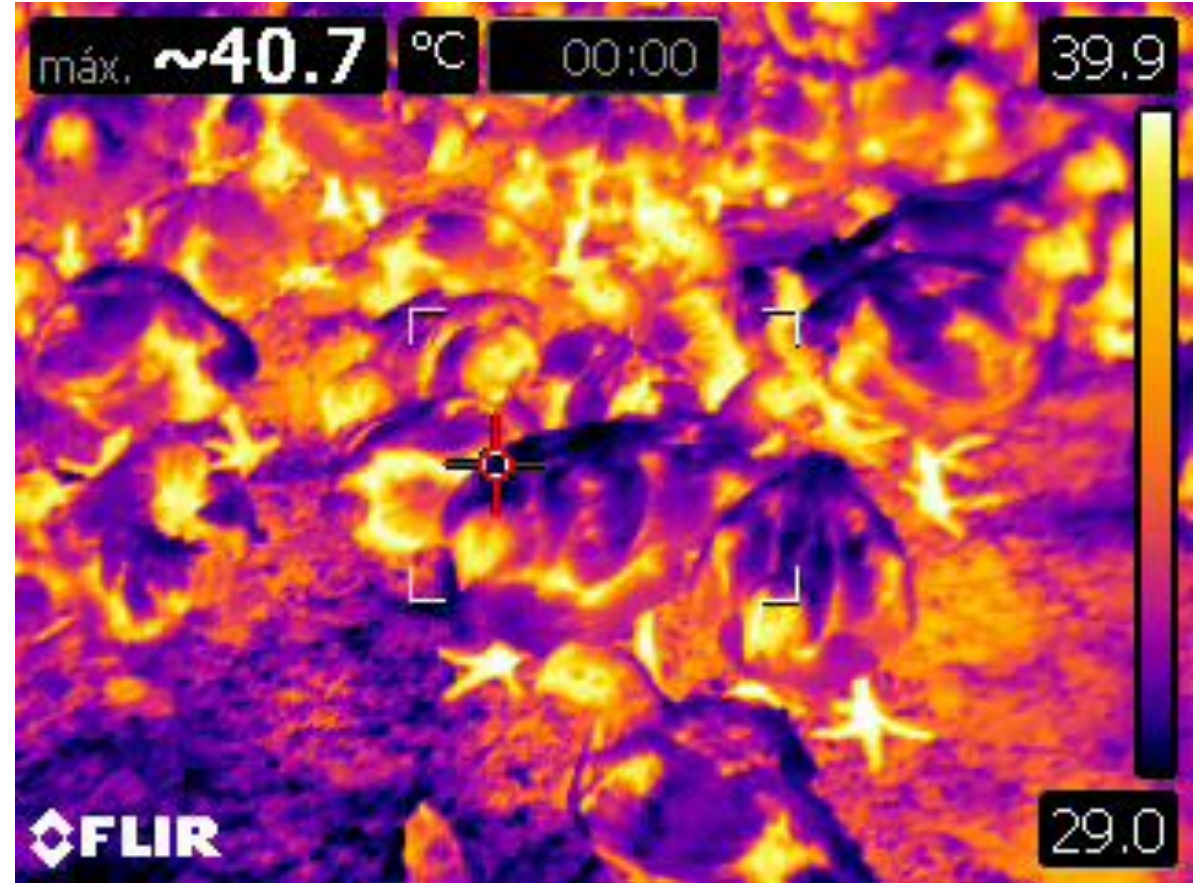


Feed tray is more comfortable

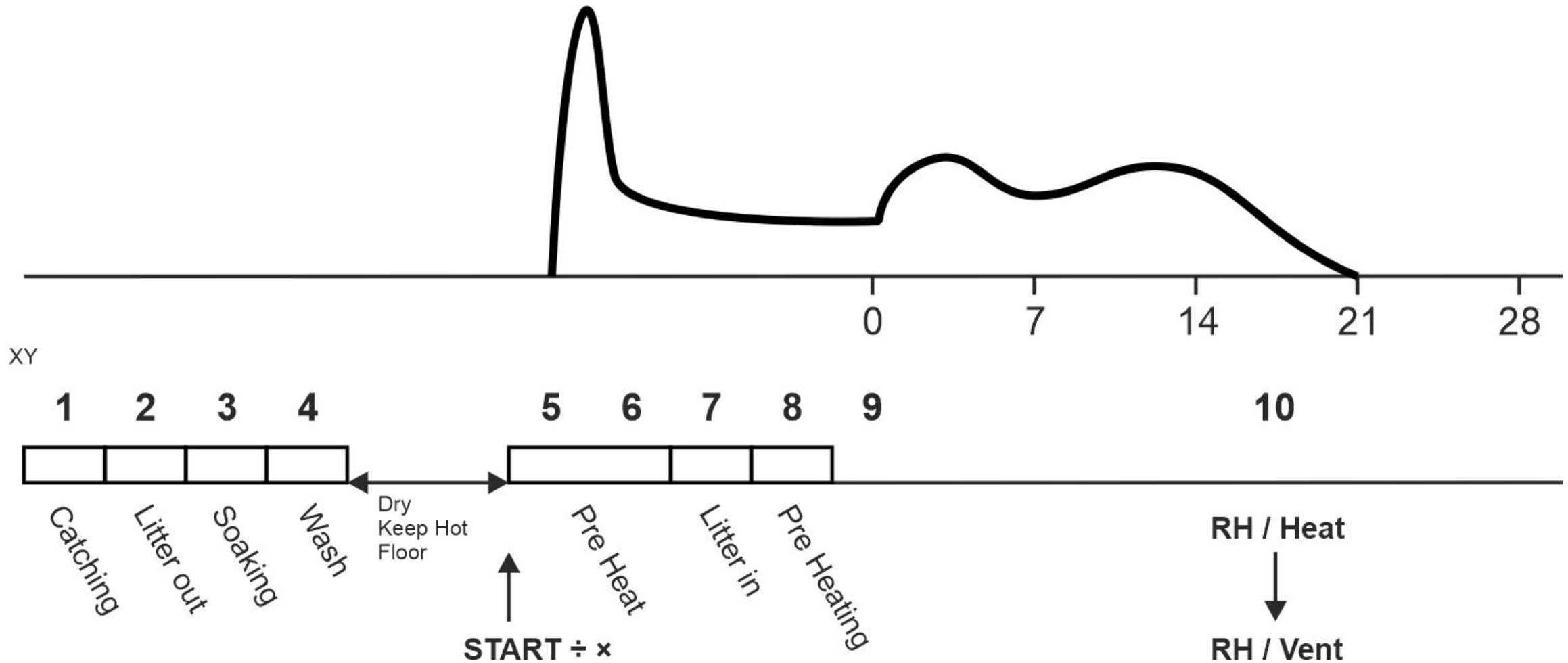


The birds keep the litter hot

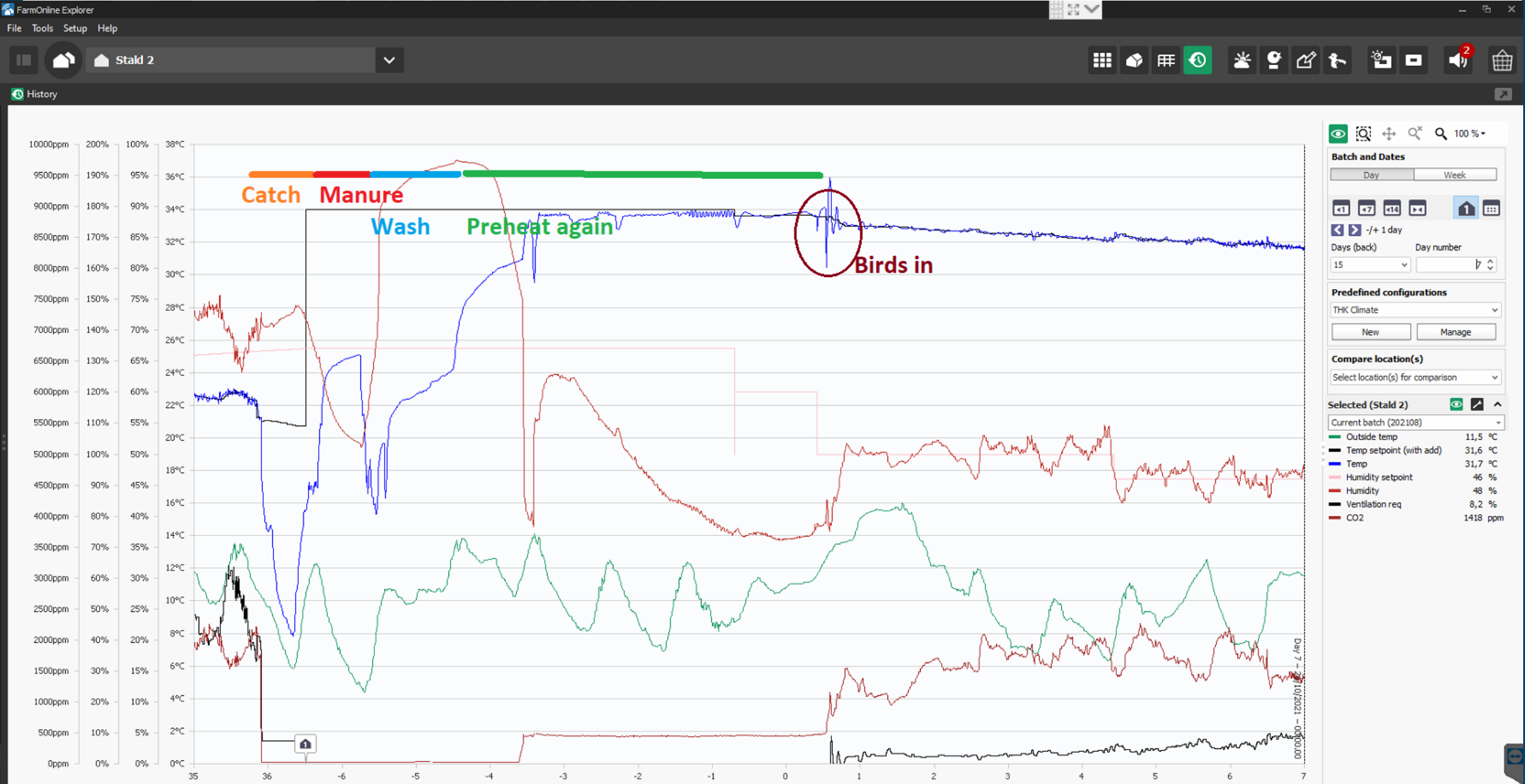
- The body heat of the birds make the litter warm
- When the birds walk away the heat evaporate the moist.
- This keep the litter dry
- Uniformity bird distribution Is key



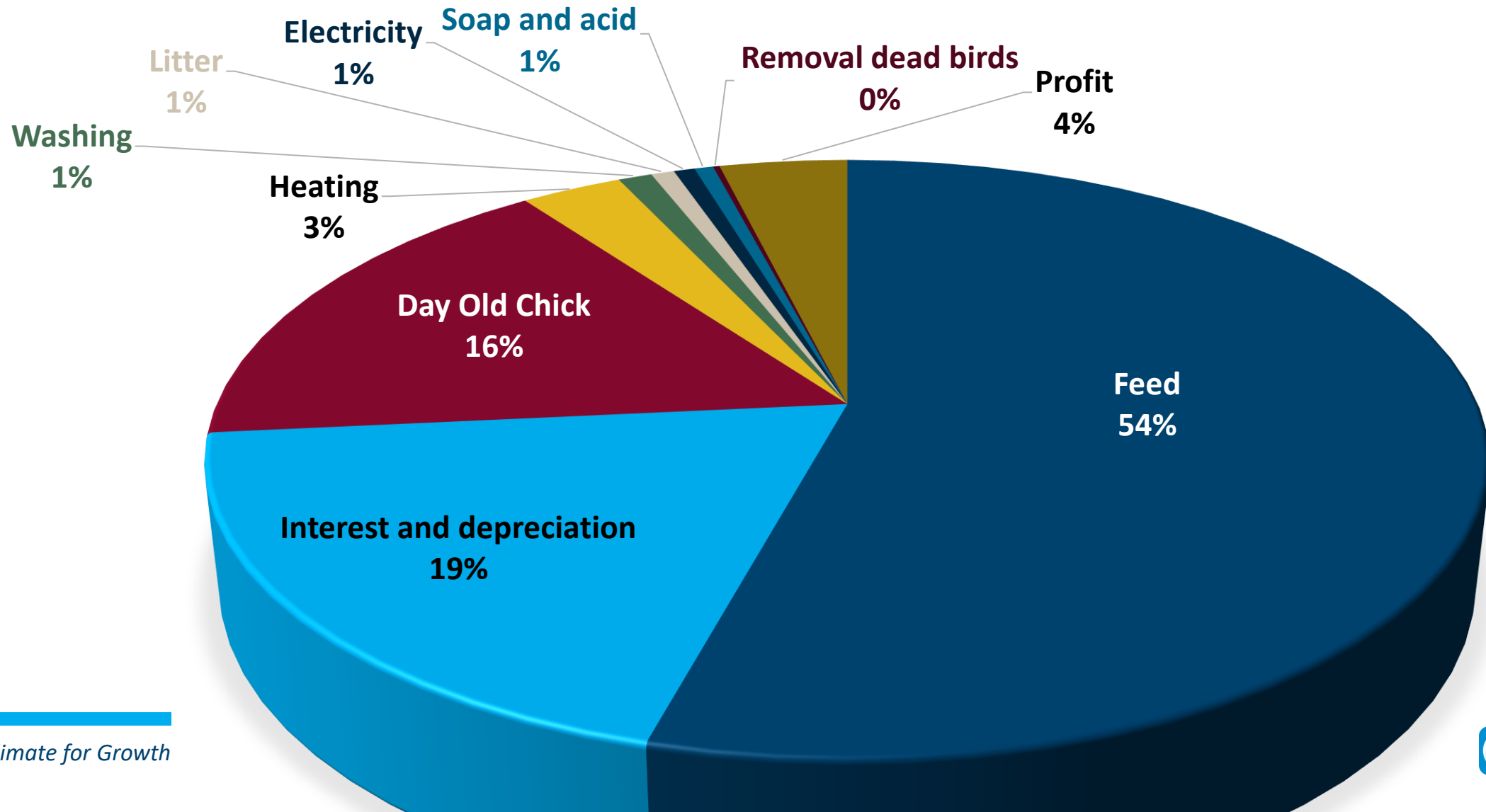
Batch "events" Good preheating, low heat consumption



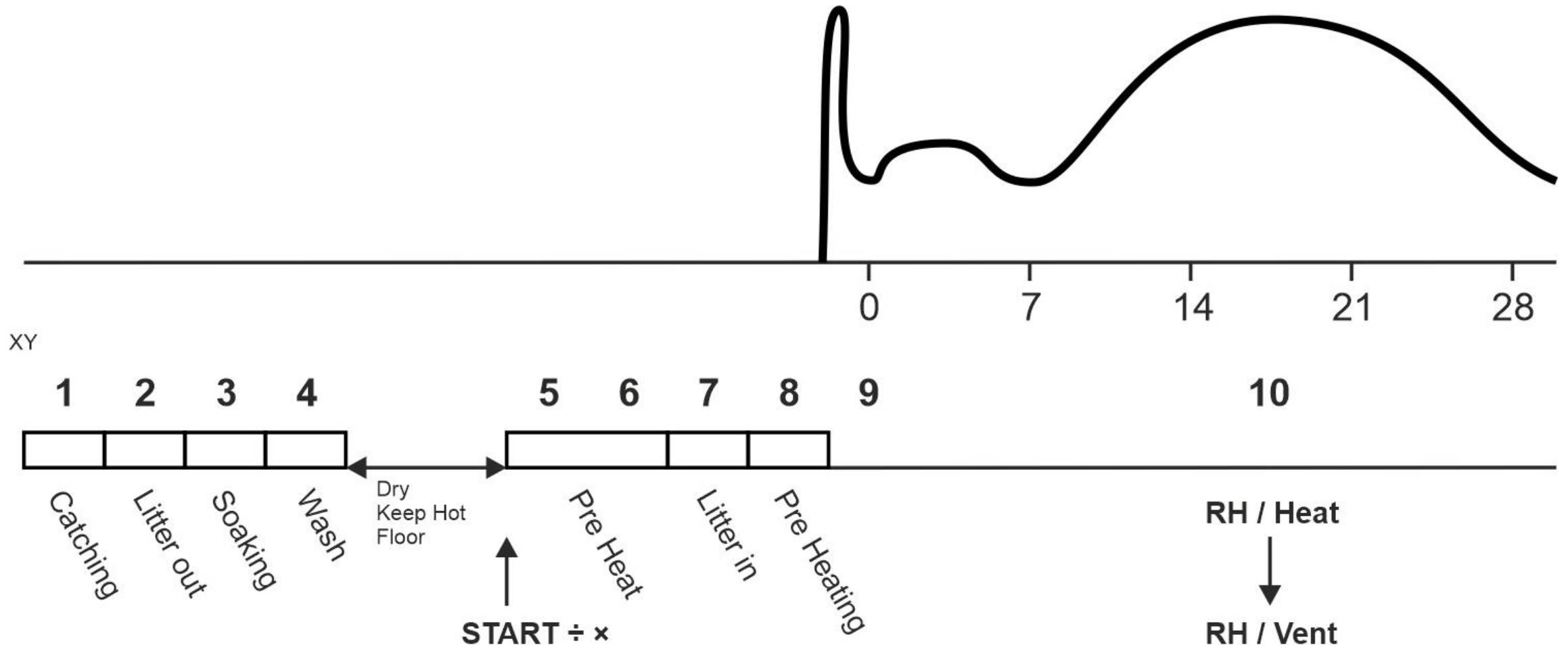
The way to do it, 48 hours after catch, start new preheat



Heat is cheap 😊

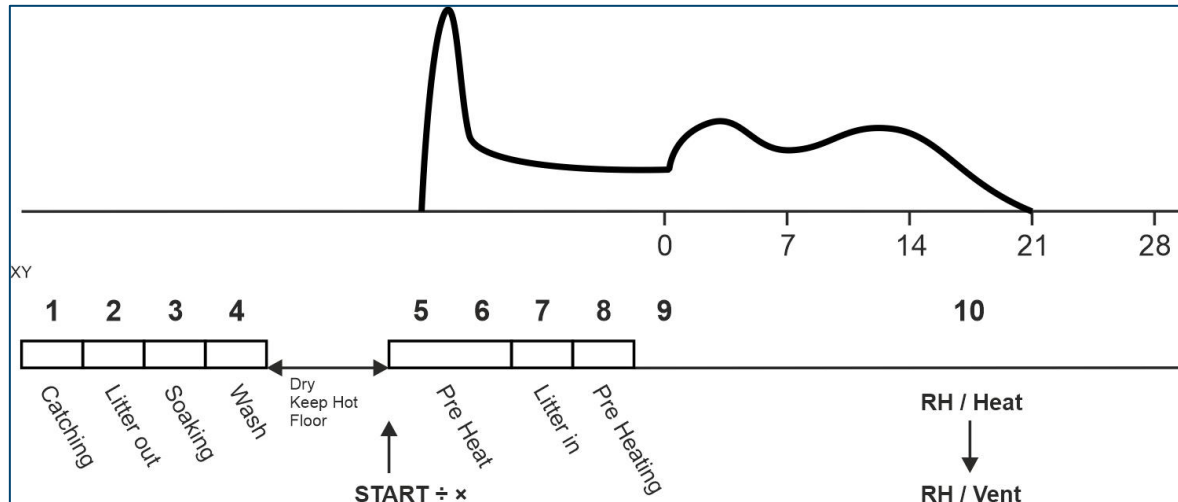


Batch “events” limited preheating, **high heat consumption**

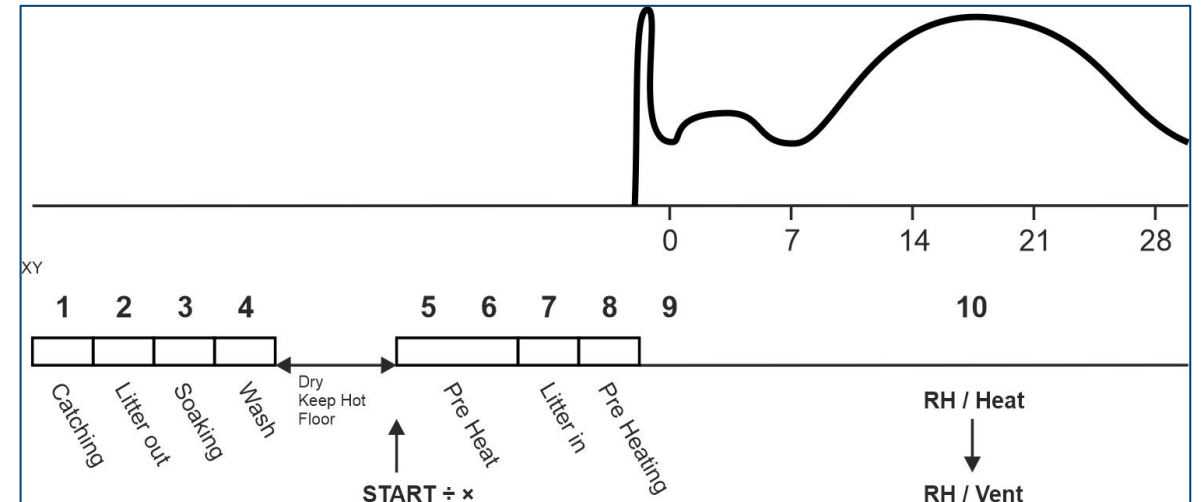


Batch no preheat and high set RH start of batch

- Correct preheat, **low heat usage**



- No preheating, **later high heat consumption**



Manage your drinker system



Too Dry



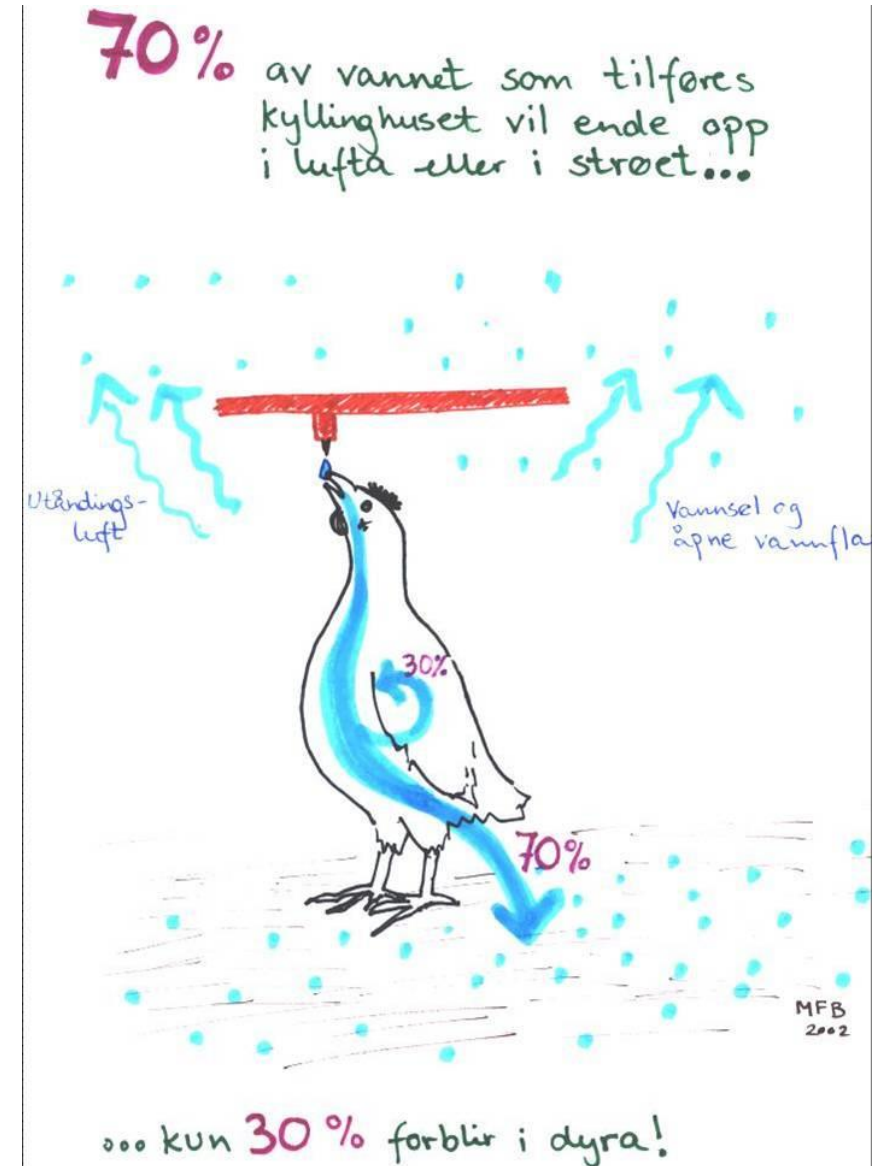
Too Wet



OK

Water leakage

- Water in cup
- Birds wet on neck
- Water spillage (? l/day)



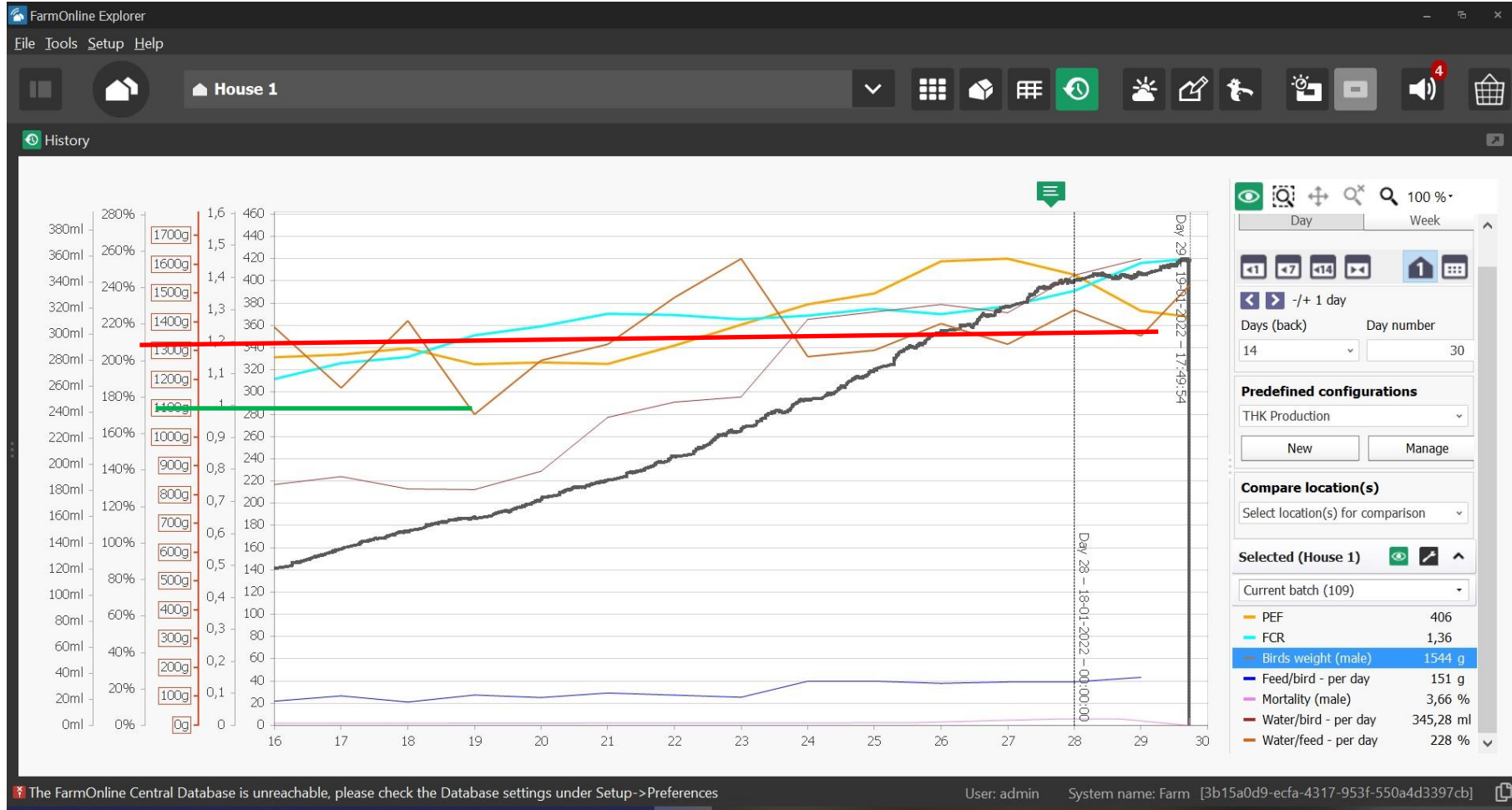
Wet litter



Birds have to get water down into the beak



Water / Feed 249 % (ref 170)



Water to feed ratio counts

Water/ Feed ratio	Broilers	Bird Age	Ave Wt.	FCR	Total Water- L
1.7	30,000	40	2.5 Kgs	1.7	216,750
1.9	30,000	40	2.5 Kgs	1.7	242,250

25.500 l / 40 days = 637,5 liter per day

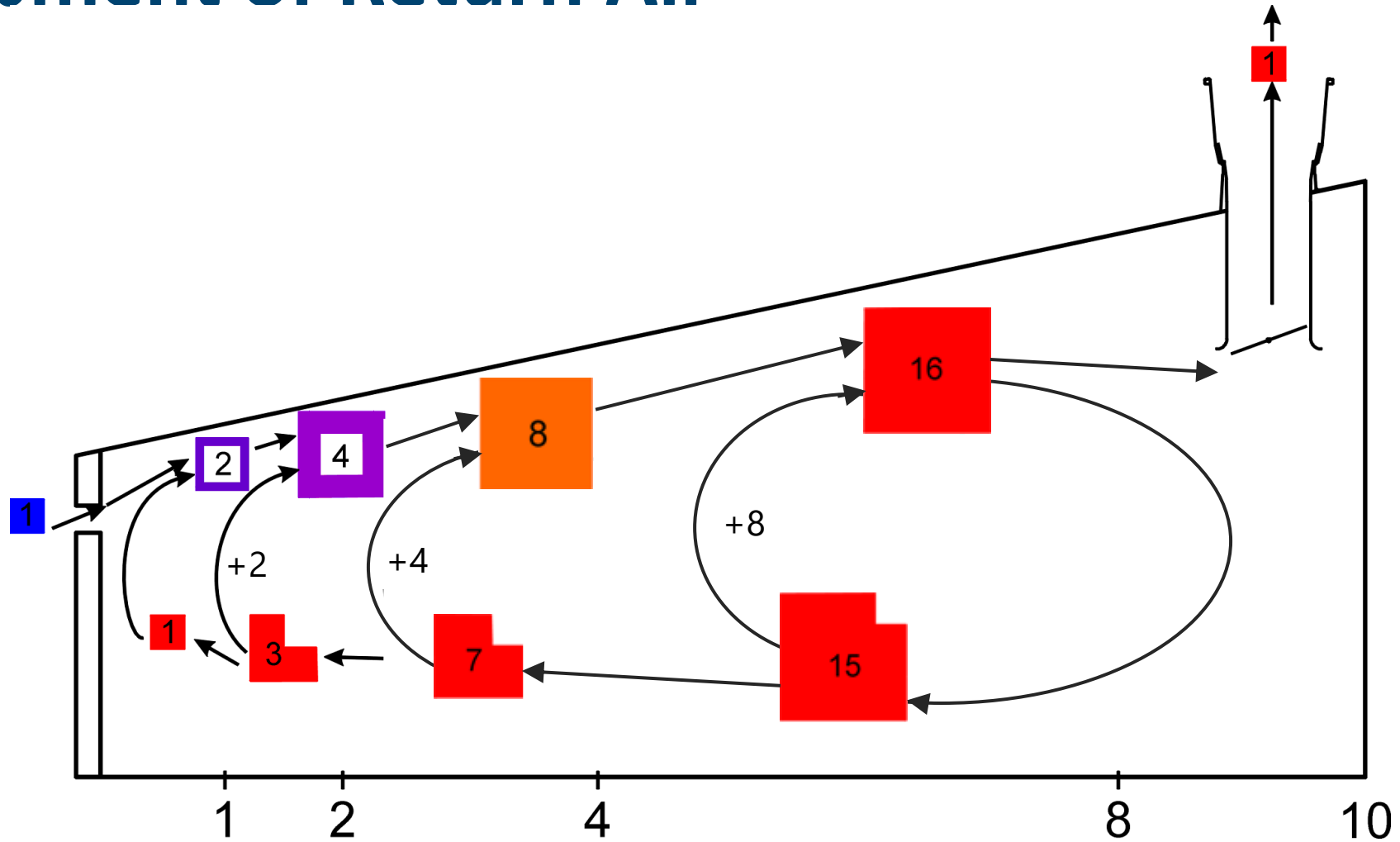
An extra **25,500 L** for the batch



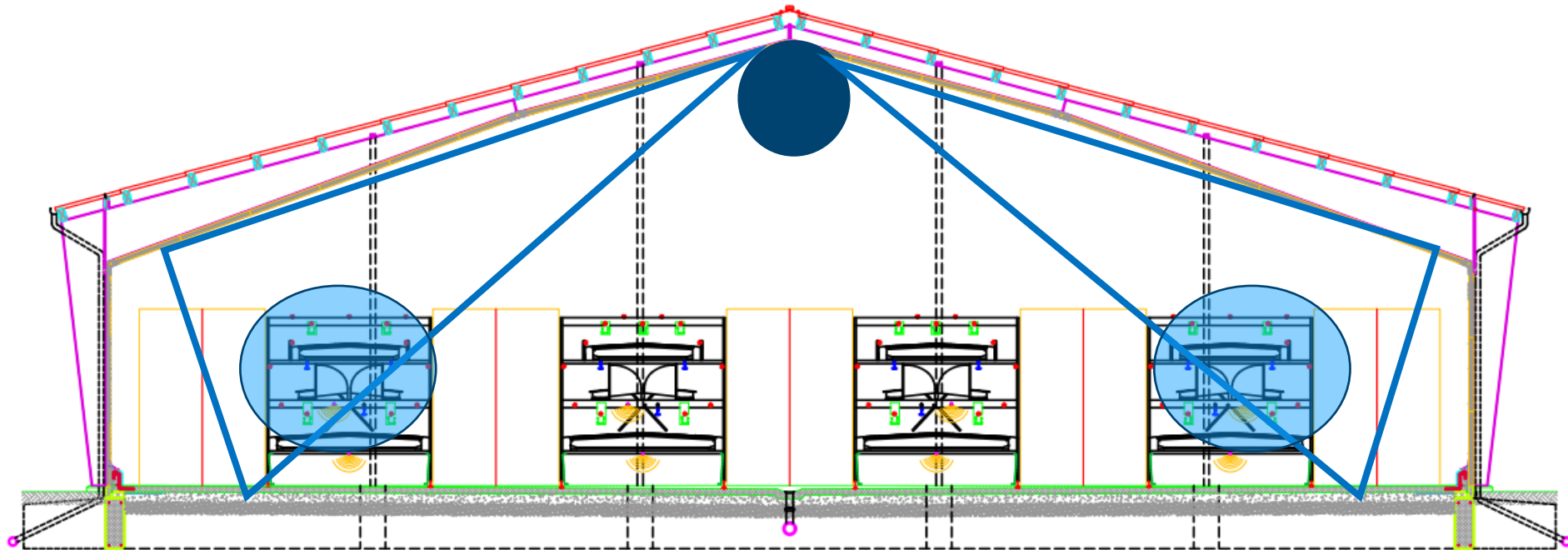
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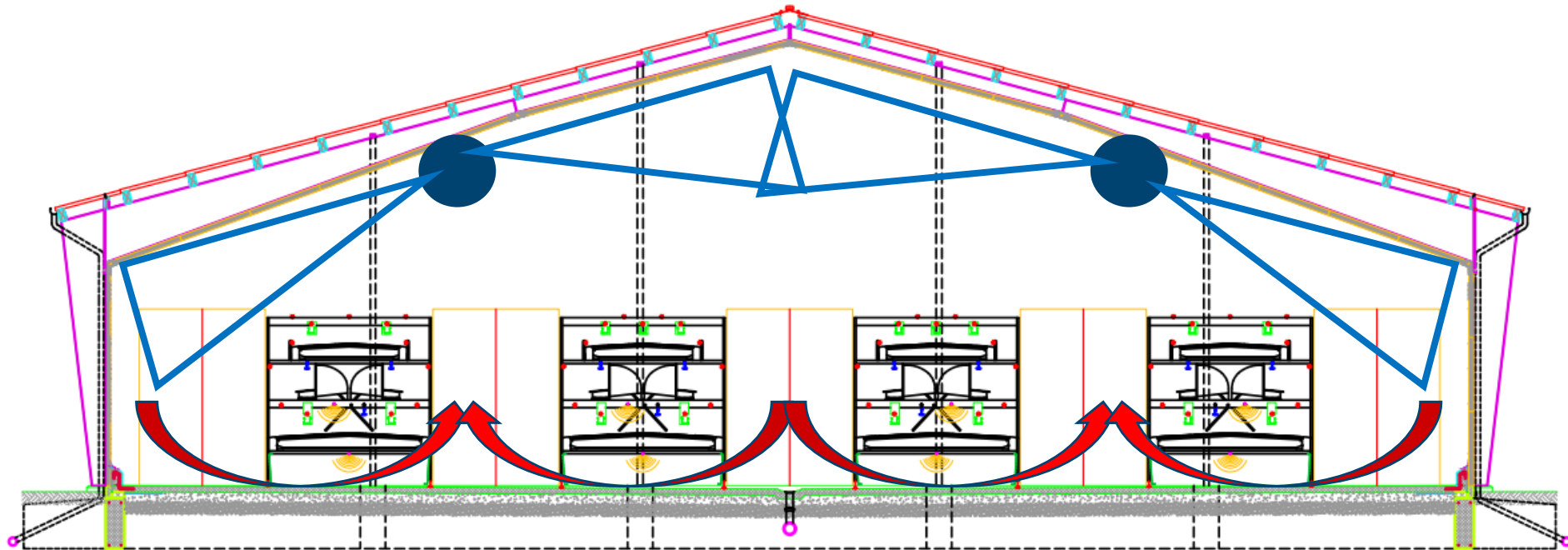
Development of Return Air



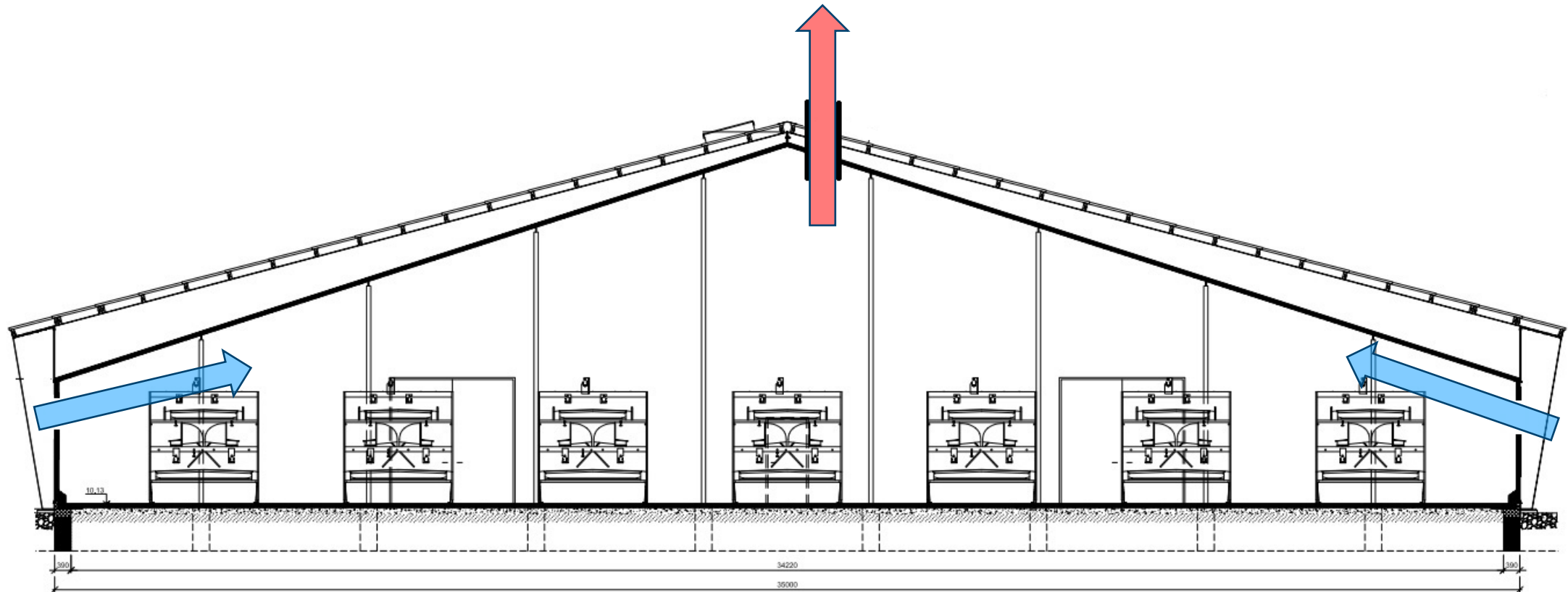
Ventilated from 1 pipe, bad air distribution



Ventilated from 2 pipe ok solution



With wall inlets and chimney, natural ventilation



At ventilation failure, birds die of suffocation

A small air exchange keep them alive long time

Distrebution and activity



Dyr der vågner op



Making ready for sleep



Questions?



Engage with us

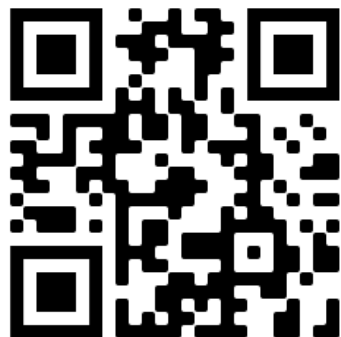
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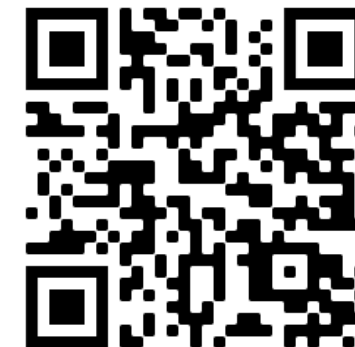
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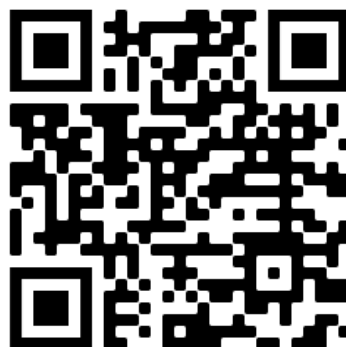
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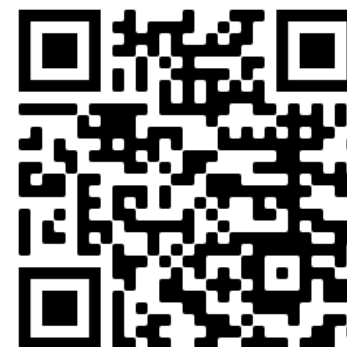
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