

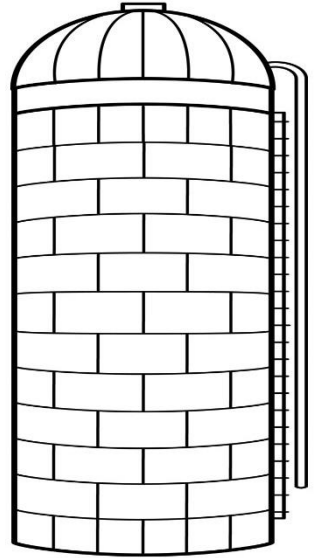


agri benchmark Pig Conference 2019

Multi-phase feeding – a recipe for saving feed costs

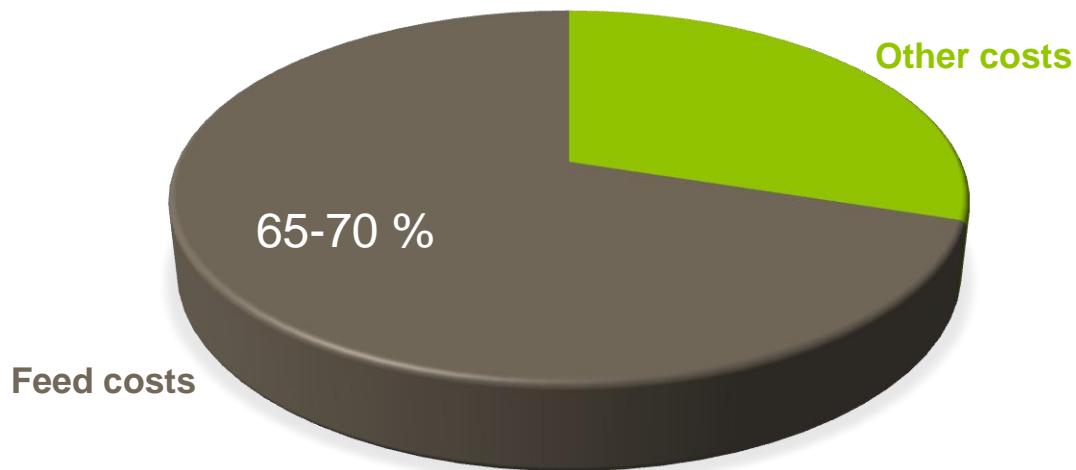


Costs in pig production - main causes





Distribution of costs for finishing





What are reasons for feed wastage?

- | Waste caused by handling and transport
- | Waste caused by imprecise dispensing
- | Direct waste in the house caused by the pig (eating behaviour)
- | Waste caused by feed mixtures that are not “age-based”





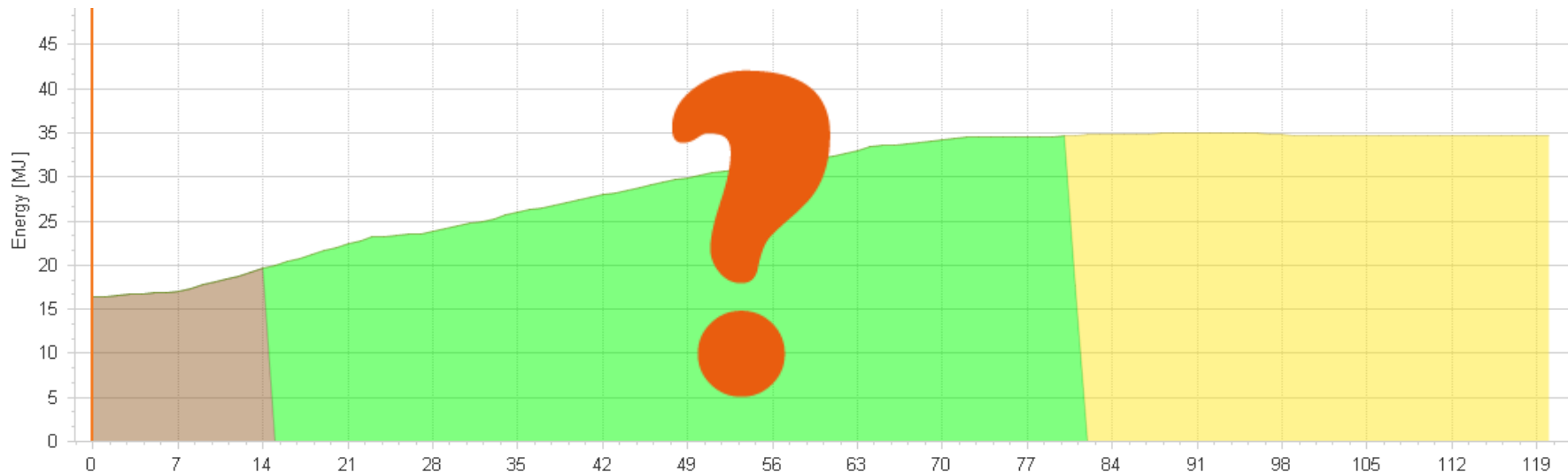
What are reasons for feed wastage?

- | Waste caused by handling and transport
- | Waste caused by imprecise dispensing
- | Direct waste in the house caused by the pig (eating behaviour)
- | **Waste caused by feed mixtures that are not “age-based”**





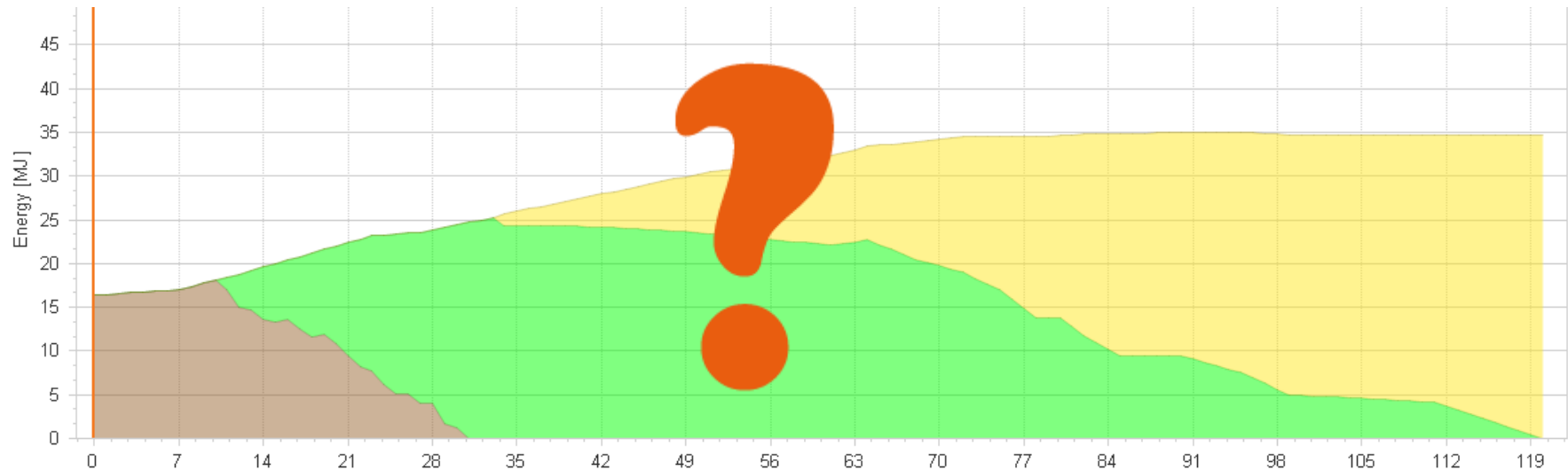
Three-phase finishing



Big Dutchman.

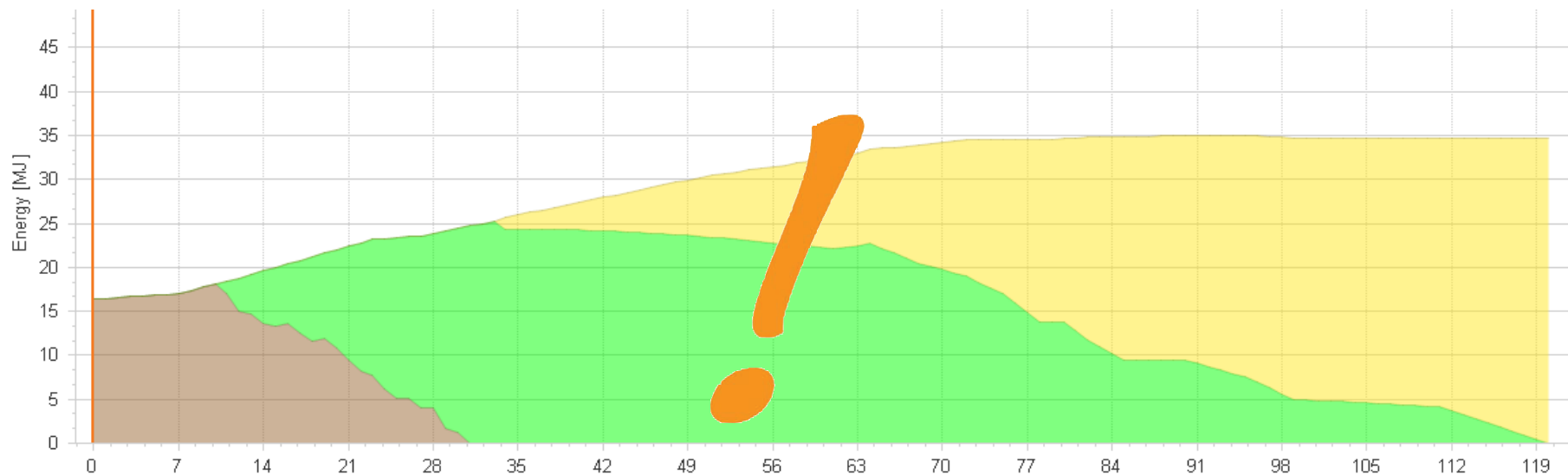


Multi-phase finishing





“Age-based” feed mixture

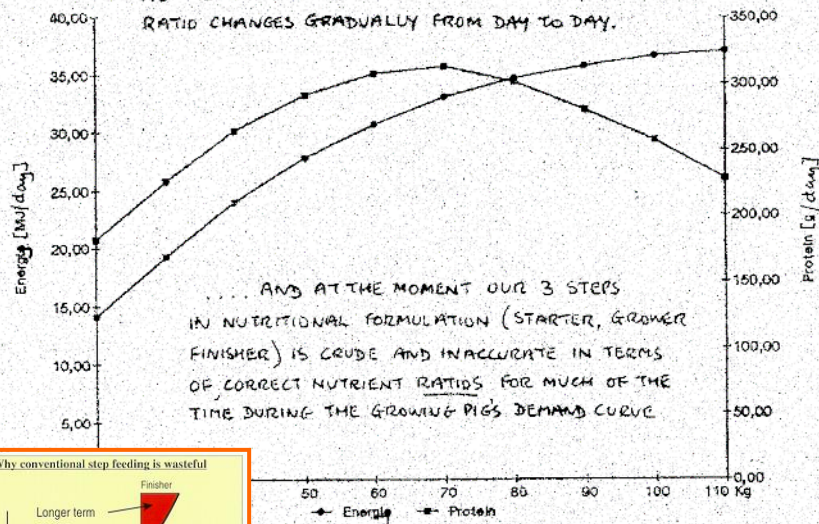




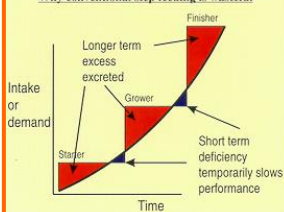
Why Multiphase feeding?

THE PROBLEM....

AS THE PIG GROWS ITS DEMAND FOR ENERGY:PROTEIN RATIO CHANGES GRADUALLY FROM DAY TO DAY.

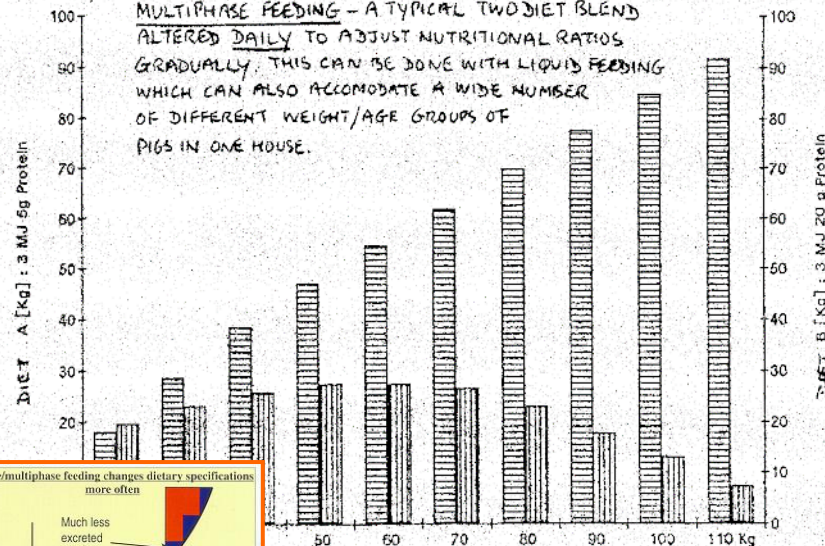


Why conventional step feeding is wasteful

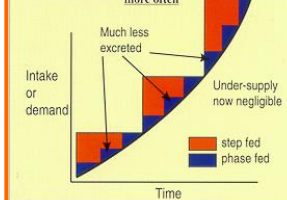


THE SOLUTION.....

MULTIPHASE FEEDING - A TYPICAL TWO DIET BLEND ALTERED DAILY TO ADJUST NUTRITIONAL RATIOS GRADUALLY. THIS CAN BE DONE WITH LIQUID FEEDING WHICH CAN ALSO ACCOMMODATE A WIDE NUMBER OF DIFFERENT WEIGHT/AGE GROUPS OF PIGS IN ONE HOUSE.



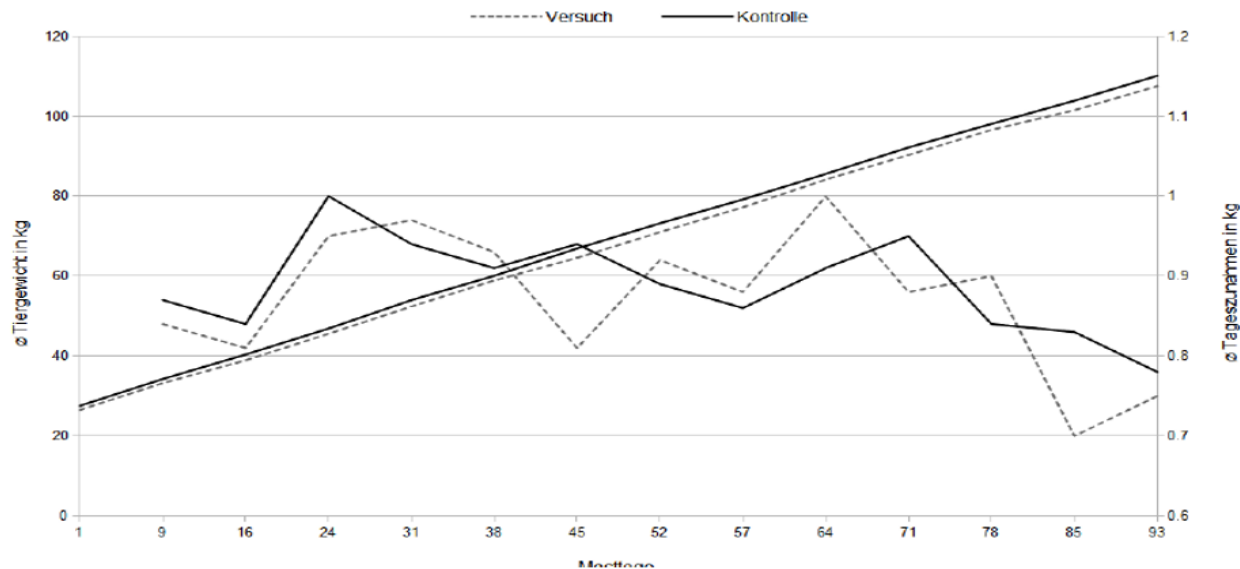
Phase/multiphase feeding changes dietary specifications more often



Big Dutchman.

Production results

Daily weight gains and animal weight (20/08 to 21/11/2012)



	Gain	Daily gain	Ø duration
3-phase feeding	81.02 kg	873 g	108.94 days
Multiphase feeding	82.56 kg	890 g	106.37 days

Feeding costs, carcass proceeds and excretions

	Unit	3-phase feeding	m-phase feeding	Difference
Finishers 20/08	n	151	150	
Slaughtered	n	144	147	
Feeding costs				
Up to 23/11	€/MS	71.73	69.11	-2.62
Up to 21/12	€/MS	82.88	77.74	-5.14
Slaughtering weight	kg	94.53	94.76	+2.30
Index points per kg		1.0036	1.0128	+0.01
Proceeds	€/MS	161.71	163.55	+1.84
Proceeds	€/kg SG	1.71	1.73	+0.02
Feed conversion	kg/kg	2.74	2.60	-0.14
Excretions N	kg/MS	4.42	4.02	-9.03 %
Excretions P ₂ O ₅	kg/MS	4.59	4.18	-10.28 %

Author's calculations, based on measuring results and slaughter records

MS = finishing pig

SG = slaughter weight

Proceeds without own labour costs¹

- Proceeds + €6.50, Costs - €8.87 per place
- Δ DKfL €15.37 per place (€51.86 or €67.23)
- Share of feeding costs for direct costs > 55 %
- Share of piglet costs > 35%
 - Increasing costs for feed (+10 %) influence the DKfL for a three-phase feeding more strongly (-45 % compared to -38 %)
 - When considering the same increase, the difference for multi-phase feeding is only + €1.00

¹Translator's note: This is a free translation of the German term *Direktkostenfreie Leistungen*, abbreviated as "DKfL"
05.07.2019 | 12



Multi-phase vs. three-phase finishing

Multi-phase
feed conversion
1 kg / 2.6 kg

VS

Three-phase
feed conversion
1 kg / 2.74 kg



Reduction of feed costs

6.6 %

Feed costs of €60 → €3.96



Big Dutchman.



Amortization period

| 2,000 places for finishers

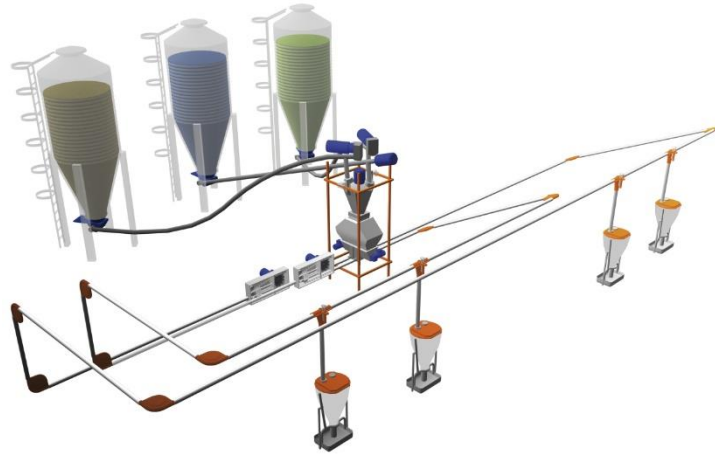
| 2,000 places for finishers x 3 batches per year
x €3.96 = €23,760



Big Dutchman.



The Big Dutchman solution



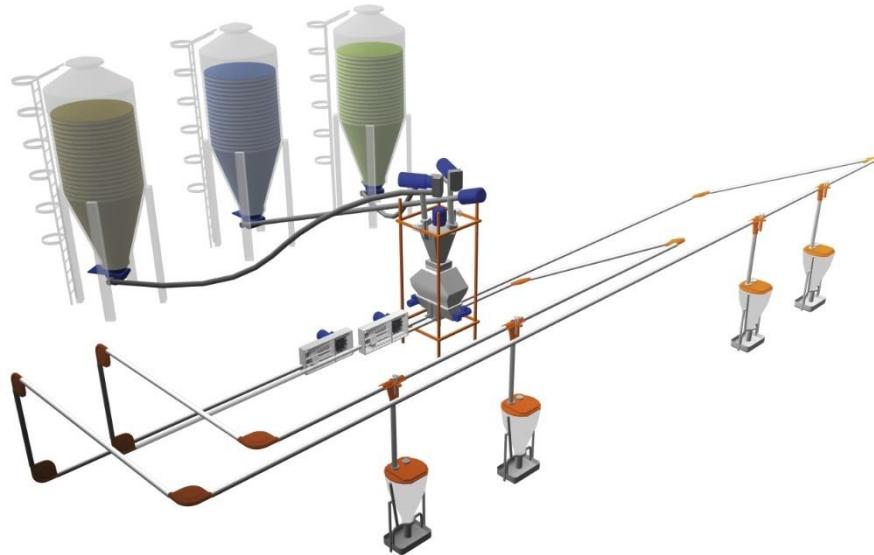
DryExactpro



EcoMaticpro



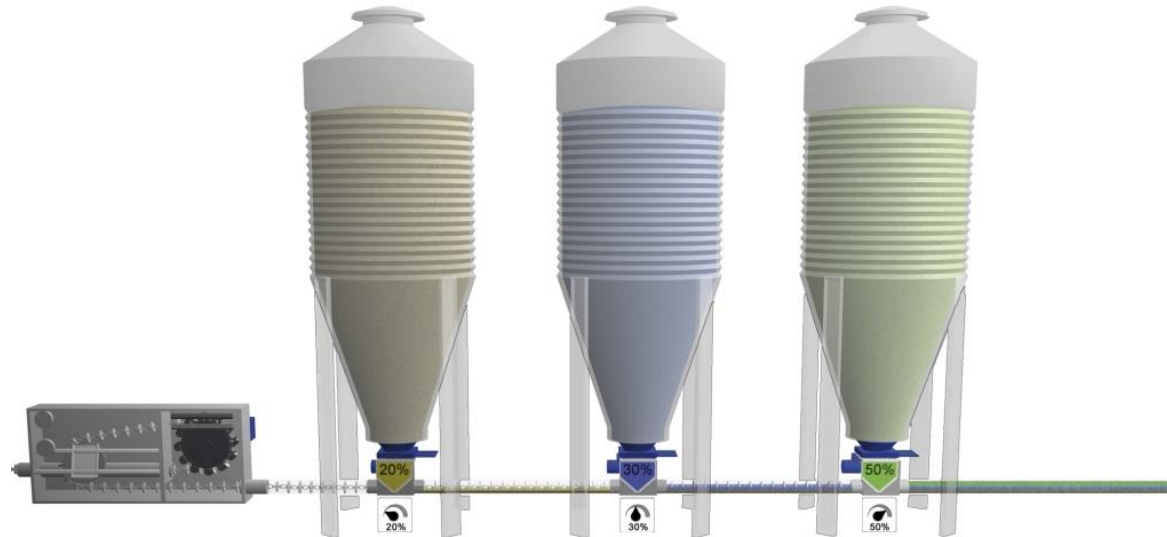
DryExact^{pro} – How does it work?



Big Dutchman.



EcoMaticpro – How does it work?





Summary

Age-based feeding



Improved feed conversion



Reduced feed costs



Better carcass quality



Big Dutchman.