

Sustainable pig production

Now or never

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Visit European Pig Producers

Friday 20 May 2022

Thanks to André Aarnink and many others



UN Sustainable Development Goals

... to end poverty, protect the planet and ensure prosperity for all, in 2030!

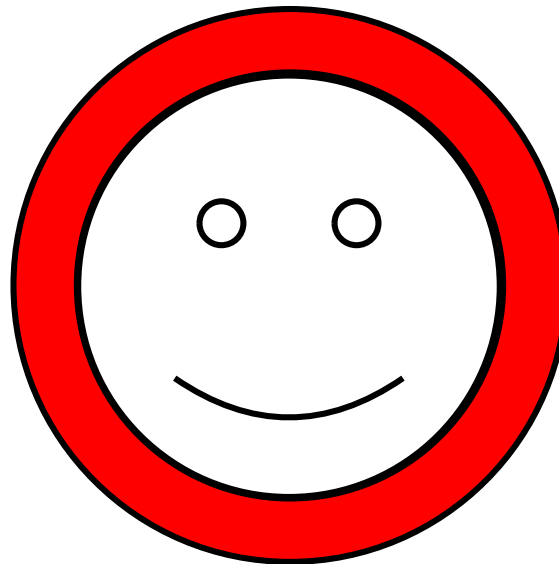


Sustainable development: complexity & trade-offs



25 years of research, development, trials, ...

Ammonia	-70%
Odour	- 70%
Greenh. gases	-80%
Welfare	***
Health	+++
Slurry costs	---



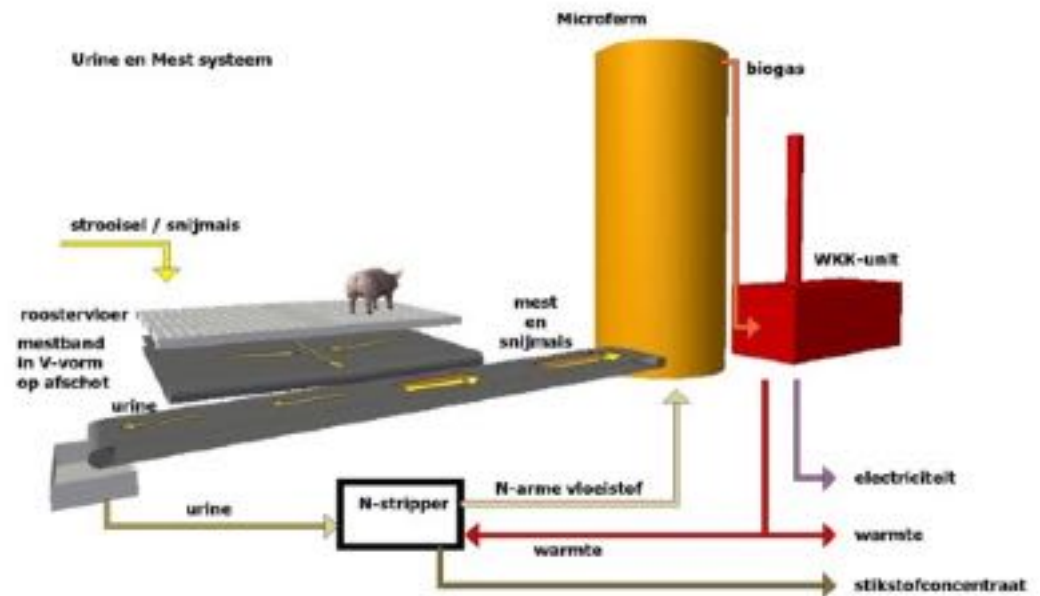
PROBLEM SOLVED

growth	= / >
€	competitive
tested	TRL8
energy	CH ₄
societal accepted	
nutrients recycled	

Segregate urine and faeces, and allow straw! (1997)



Star + (2011)



LIVESTOCK RESEARCH
WAGENINGEN UR



Star + (2012-)

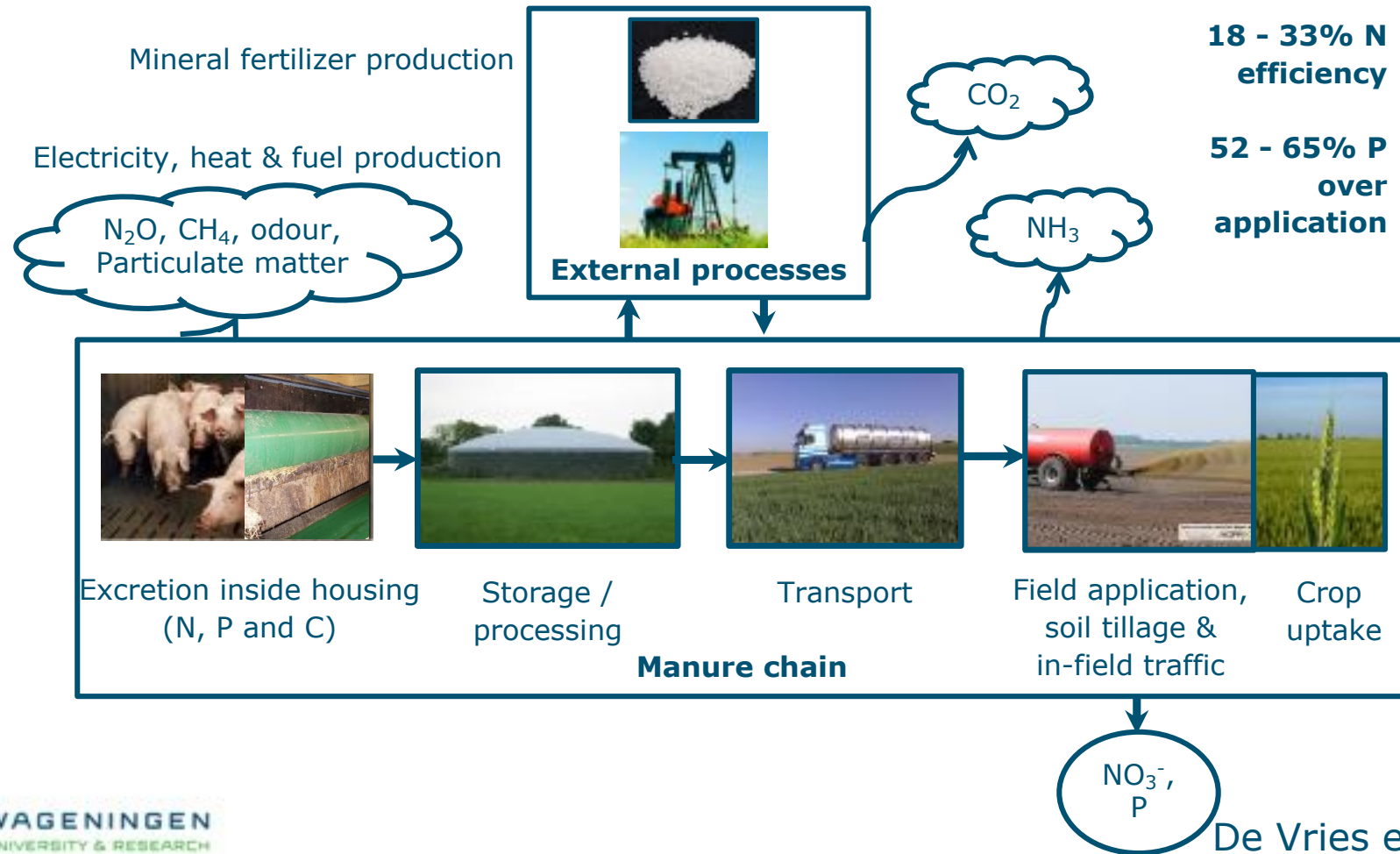


The Havito & PigT toilet (2018)

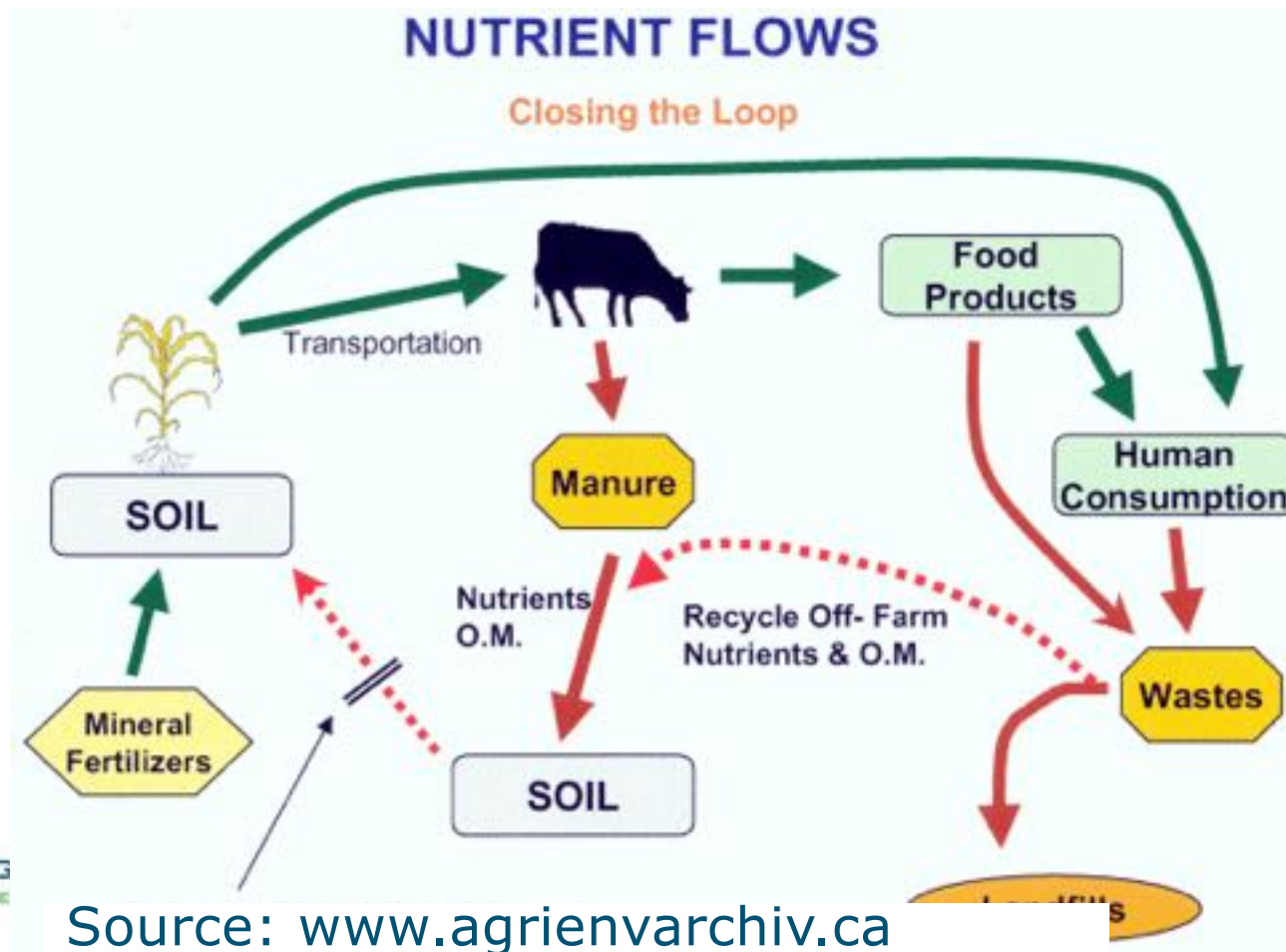


Big Dutchman

Segregation enables a closed nutrients cycle



The nutrient cycle at field/farm level (N, P, K, organic matter)



Future: use intelligence of pigs in a smart toilet



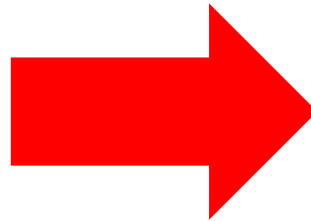
How to become sustainable?



The 'stick':

Enforcement by law:

- EU legislation
- Nat. legislation
- Trade agreements



The 'carrot'

Positive incentives:

- €
- Yield/production
- License to produce

Innovation & idea killers



- Yes, but ...
- Already exists
- Not possible
- Let's be realistic
- Not logical
- Manager will not agree
- No budget
- For them, not for me
- Too expensive
- Too difficult
- We 'll keep it in mind
- Planned for next year
- Won't work here
- Are you the expert?
- Market is not ready
- NO!
- No time
- More research needed

Time for discussion

Photo of a tilted manure belt
under a slatted floor
to segregate
faeces and urine of pigs



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