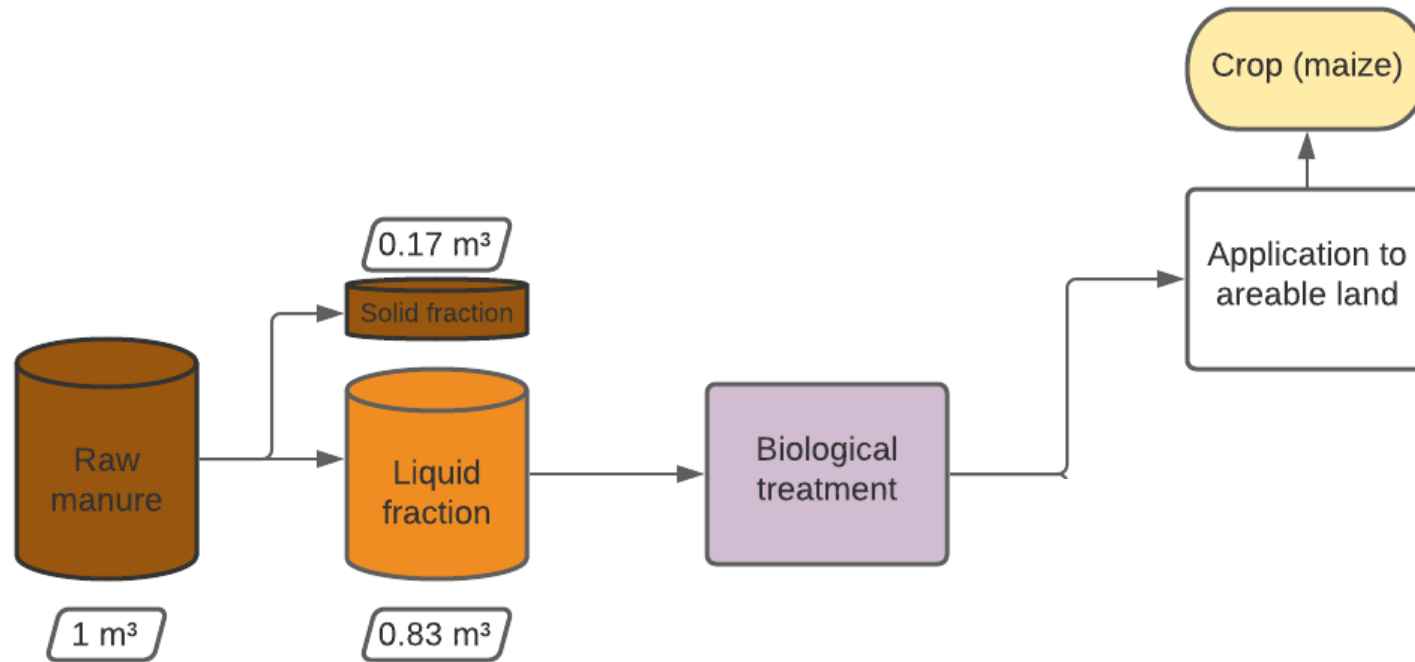


Regulatory questions around  
Valorisation in animal feed  
of duckweed  
grown in pig manure





Advantages of applying Biological effluent to duckweed instead of other crops

- Prevention of leaching
- Higher nutrient addition
- High protein content (38%)
- High productivity (3,8 ton protein ha<sup>-1</sup> yr<sup>-1</sup>)

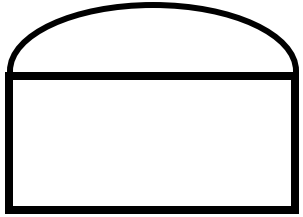
Source: Flemisch  
Coordination center  
for manure treatment  
(VCM)  
+ Corbala-Robles et  
al. (2018)  
+ Devlamynck et al.  
(2021)





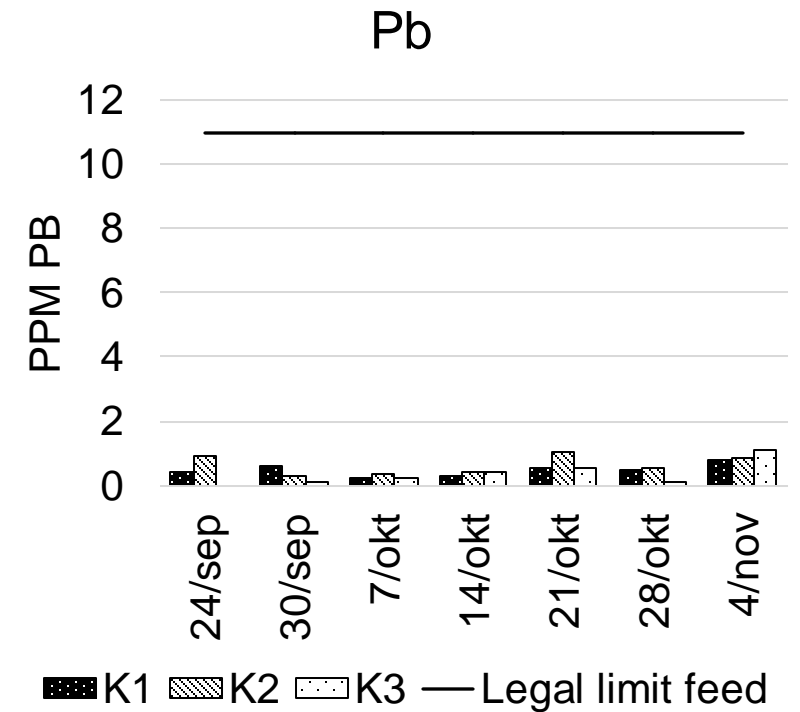
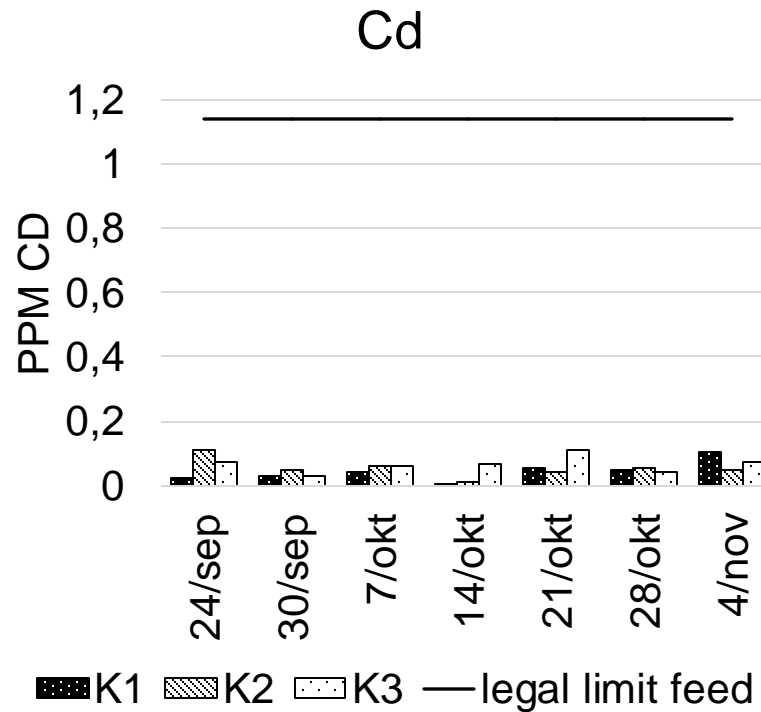
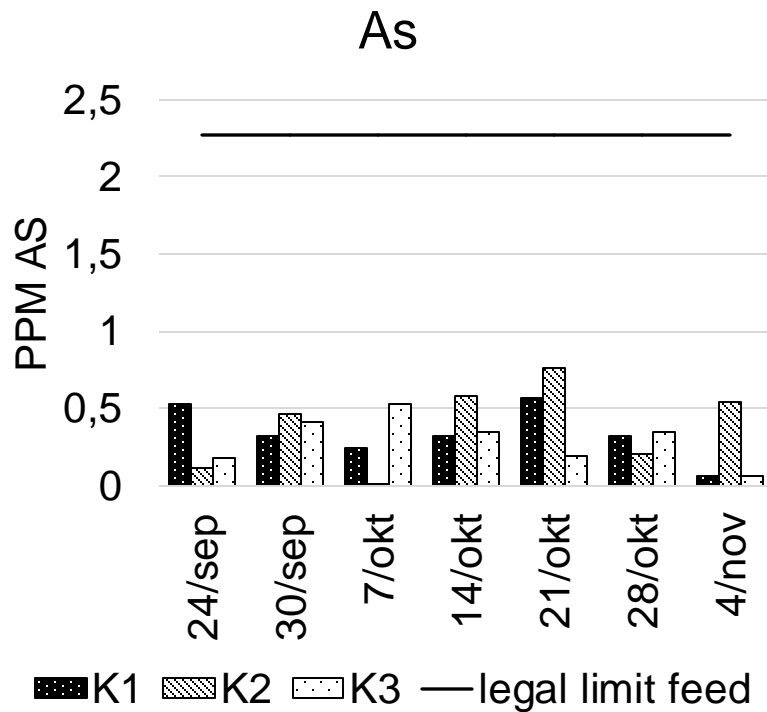


# Remaining challenge



Safe?  
Legal?

# Preliminary results



Source: own results on a diluted pig manure wastewater and legal limits are from Directive 2002/32/EC

# But more research to be done!

Markou et al. (2018) identified:

- Heavy metals
- Pathogens
  - Viruses
  - Parasites
  - bacteria
- Xenobiotics
  - Steroidal hormones
  - Antibiotics
  - Paracitocides



# Thank you for your attention!

Do you want more information?

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