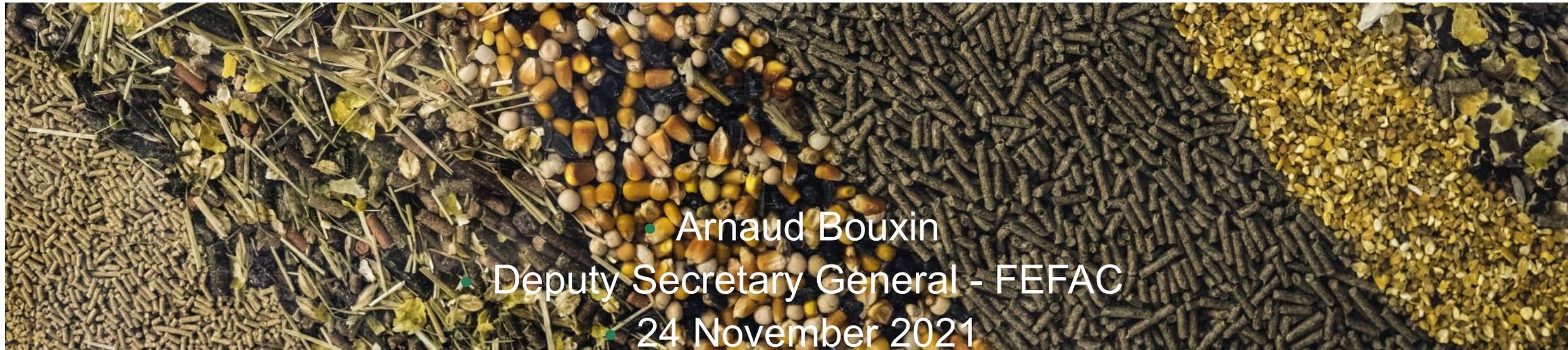




Feed industry considerations regarding recovery of nutrients from waste streams in animal feed



- Arnaud Bouxin
- Deputy Secretary General - FEFAC
- 24 November 2021

Nutrient recovery from manure for feed use

- We know where we need to go:
 - Exploring new resources / feedstock
 - Use more local (circular feed)
- But we also know where we come from
 - From 1990 to 2010: series of crisis
 - Some of these due to operations involving waste management
 - Sometime ignorance: people believed they were doing well: New process for meat and bone meal
 - Sometimes by negligence: packaging material, used of tainted wood for drying
 - Sometimes by opportunism: recycling of medicinal waste in glucose syrup
- It took us 20 years to get out of the wastebin, we are not in a hurry to get back into it.

Nutrient recovery from manure for feed use

- Manure is primarily a fertilizer: that's its primary vocation
- Before accepting anything recovered from manure for use in feed we need:
 - **Safety Assurance**: safety for feed means safety for all animal species, safety for consumer of animal products, safety for the environment, and also impact on animal's performance
 - **Responsibility**: we are at the boundary between two worlds: the waste recovery world, with environmental background and the food world, with a safety culture. We need **operators** who are knowledgeable on both sides and we also need supervision by **authorities competent** on both sides
 - **Transparency**: we are in the world of innovation and that means intellectual property / competition: safety here should be the limiting factor to know how protection
 - **Social acceptance**: intra-species recycling, religion, ethics

Thank you for your attention



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