NUTRIENT SUSTAINABILITY IN THE INTENSIVE LIVESTOCK SECTOR

Event website: https://phosphorusplatform.eu/LivestockBrittany

Dates: 5th - 7th March 2025

Location: Saint-Malo, Brittany, France **Venue:** Roullier World Innovation Center - 18 AV Franklin Roosevelt - 35400 Saint-Malo

Day 1. Wednesday 5th March

Morning Session – Roullier visit		
08:45 h – 09:00 h	Registration	
09:00 h – 12:30 h	Visit to Roullier facilities (Global Research Centre, Minerallium, or Industrial Sites)	
12:30 h – 13:30 h	Networking Lunch	
Afternoon Session – Context		
13:30 h – 13:40 h	Welcome and Overview of Workshop Objectives. Laia Llenas (BETA Technological Center) and Robert van Spingelen (European Sustainable Phosphorus Platform)	
13:40 h – 13:50 h	The uPcycle Project: Utilizing Workshop Outcomes & Sharing via UNEP. Will Brownlie (UK Centre for Ecology & Hydrology)	
13:50 h – 14:15 h	Welcome on behalf of Cooperl and Roullier. Companies vision and actions on nutrient sustainability. Charles van den Broek (Roullier) and Bertrand Convers (Cooperl)	
Role of livestock production in nutrient movements		
14:15 h – 14:35 h	Phosphorus cycling in livestock farming, agriculture and soils: present and future. Kimo van Dijk (Wageningen University & Research)	
14:35 h – 15:15 h	Regional nutrient imbalances related to livestock concentration: Case studies from China, Brasil, Argentina and Europe. - Renjie Dong (Research Centre for Carbon Neutrality in Agriculture and Rural Areas, China) - Vinicius de Melo Benites (Embrapa Solos, Brasil) - Pedro Federico Rizzo (Instituto Nacional de Tecnología Agropecuaria, Argentina) - Laurence Loyon (INRAE, France)	
15:15 h – 15:30h	Discussion of key messages	
15:30 h – 16:00h	Coffee Break - Provided by Roullier Group	
Diet, intensive livestock production and sustainability		
16:00 h – 16:15h	Global nutrient challenges and UN agreements. Monica Kobayashi (UN Environment Programme: UNEP)	
16:15 h – 16:30h	Intensive livestock: nutrient flows, environmental impacts, diets and bioeconomy. Adrian Leip (European Commission – Bioeconomy)	
16:30 h – 16:45 h	Food system redesigns for human and planetary health. Wolfram Simon (Wageningen University and Research)	
16:45 h – 17:00 h	LCA of intensive livestock systems. Aimable Uwizeye (FAO – Animal Production and Health Division)	
17:00 h – 17:15 h	PIGPEF: A Decision-Support Tool for Evaluating the Environmental Footprint of Pig Production. Rosa Maria Fibla (BETA Technological Center)	
17:15 h – 17:30 h	Discussion of key messages	
17:30 h – 19:30 h	Free time	
19:30 h – 22:00 h	Networking Dinner	

Day 2. Thursday 6th March

Morning session - Improving nutrient efficiency in animal production		
00:15 h 00:05 k	Towards circularity in animal feed. Anton van den Brink (European Feed	
09:15 h – 09:35 h	Manufacturers' Federation, FEFAC)	
09:35 h – 09:55 h	One Nutriome: A Holistic Approach to Nutrient Efficiency and Sustainability	
	Across the Value Chain. Sylvain Pluchon (Groupe Roullier)	
09:55 h – 10:15 h	Enhancing mineral bioavailability in farm animals: current strategies and future	
	innovations. Tristan Chalvon-Demersay (Groupe Roullier)	
10:15 h – 10:35 h	Recovered Calciumphosphate from sewage sludge ash and its potential for	
	animal feed applications. Philipp Theuring (EasyMining Germany GmbH)	
10:35 h – 10:45 h	Discussion of key messages.	
10:45 h – 11:15 h	Coffee Break - Provided by Roullier Group	
Towards manure recycling		
	Overview of manure processing and nutrient recycling. Laia Llenas (BETA Tech	
11:15 h – 11:35 h	Center)	
	Manure processing and renewable biogas. Lucile Sever (European Biogas	
11:35 h – 11:55h	Association)	
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11:55 h – 12:15 h	Research into practice for manure management in dairy grazing systems. Francisco Salazar Sperberg (Instituto de Investigaciones Agropecuarias, INIA Chile)	
	Sustainable Nutrient Solutions for Intensive Livestock Farming in the United	
12:15 h – 12:30 h	States. Karleigh Lewis (Livestock Water Recycling)	
12:30 h – 12:45 h	Questions and discussion	
12:45 h – 13:45 h	Lunch	
Afternoon Sessio	n	
Business models for a successful manure management		
13:45 h – 14:05 h	Revision of the Best Available Techniques (BAT). Diogo Botelho (Joint Research	
	Center)	
14:05 h – 14:25 h	Farm-scale post-digestion processing techniques - Two Flemish cases and their	
	financial insights. Reindert Devlamynck (Inagro)	
14:25 h – 15:00 h	Policy and Funding Strategies.	
	- Stephanos Kirkagaslis (European Commission, DG AGRI)	
14,2011 10,0011	- Francisco Salazar (INIA, Instituto de Investigaciones Agropecuarias. Chile)	
	- Mercedes Gelós (Uruguay Ministry of Environment)	
15:00h – 15:30 h	Coffee Break - Provided by Roullier Group	
15:30 h – 16:15 h	Successful business cases implemented on intensive livestock farms.	
	- Bertrand Convers (Cooperl)	
	- Alex Bayo (Bioproductors d'Alcarras)	
	- Mikel Zubicaray (Mecàniques Segalés)	
16:15 h – 16:30 h	Proposed key messages from first previous sessions.	
16:30 h – 17:00 h	Discussion of key messages and input to uPcycle UNEP paper.	
17:00 h – 17:30 h	Closing coffee - Provided by Roullier Group	

Day 3. Friday 7th March

Visit to Cooperl	
08:00 h	Departure point: CMI, Roullier Group (conference venue)
09:00 h	Arrival to Lamballe and welcome coffee - Provided by Cooperl
09:30 h – 11:30 h	Visit to the Bulle Environmental of the Cooperl Group (Lamballe)
11:30 h – 12:15 h	Lunch break
12:15 h	Departure to Cooperl Chairman
12:30 h – 14:00 h	Visit to a Cooperl Farm (Featuring V-Scraping Manure System, Biogas Collection, and Manure Treatment)
15:30 h	Arrival in Saint-Maló

Site visits - Additional information:

- Wednesday 5th March - Roullier facilities

Global Research Centre: For over 60 years, Roullier has maintained unparalleled and constant investment levels in research unique to our sector. The Global Research Centre – Roullier was founded in 2015 to emphasise the group's innovation activities as a driver for a sustainable transformation of the fertiliser sector and agriculture. The centre includes fundamental and applied research laboratories, industrial research laboratories, regulatory affairs, marketing, innovation financing, glass houses and control chambers, etc.

Minerallium: The Minerallium is the first corporate philanthropic initiative of the Roullier Endowment Fund, emphasising the vital role of natural minerals from Earth's origins to modern agriculture. Visitors explore four immersive spaces that reveal how minerals contribute to plant, animal, and human nutrition. Among its highlights is the Couëron, a remarkable 6,500-year-old oak trunk. For more information, visit the Minerallium website.

Industrial Sites: TIMAC AGRO is an industrial business specialising in soil and plant nutrition and animal production. Since the first production site in 1959 in Saint-Malo, TIMAC AGRO has kept developing its activity worldwide based on people. In Saint-Malo, the site visit could include a granulation site, a micro-granulation site and a production site for Animal nutrition.

Friday 7th March– Cooperl facilities

"La Bulle Environnement": "La Bulle Environnement" is a showroom created to discover Cooperl's activities and its specific circular economy model in the pig industry sector. Its purpose is to raise awareness of Cooperl Environment's strategic vision through an immersive experience. The themes covered explain how Cooperl transforms all waste into resources with the interconnected management of water, energy, and organic matter. A long-term vision is presented to meet the challenges of sustainability in pork production in Brittany. Several examples can be highlighted: reusing wastewater for industrial cleaning, recovering biogas from livestock, transforming manure into organic fertilizers, and producing biofuel from fatty waste. *More information on YouTube*.

"Couiclang" pig farm: Located in Plene Jugon, is operated by Bernard Rouxel, the chairman of Cooperl, and his wife. The farm houses 500 sows in a breeder-finisher model and represents a state-of-the-art example of sustainability in pig production. It emphasizes animal welfare through practices such as non-castration production and maintaining 100% long tails. The buildings are equipped with large group breeding rooms and individualized feeding systems. Furthermore, the farm employs an advanced manure management system, including V-shaped scraping, biological treatment, and biogas collection from manure storage.