



By-product valorization in the pig industry



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Cooperl: Control throughout the chain

Environment
Branch



Cooperl: Key figures 2015

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 **5000**
employees

 **2700**
farmers

 **11 000 000**
consumers



Group
turnover

€2
BILLION

Feed
tonnage

1 461 000
TONNAGE

Pigs
slaughtered

5 500 000
PIGS PRODUCED



**How Cooperl manage to combine pork
breeding environmental footprint
reduction with added value creation for
farmers**



By-product, energy and water valorization

» There is « no waste » but by-products valorization for internal and external use.



BY PRODUCTS

- Manure
- Meat by-product
- Waste water
- Fatty waste
- Bad smell



- Aquafeed ingredient
- Petfood ingredient
- Fertilizers
- Pure water



- Biofuel
- Heat

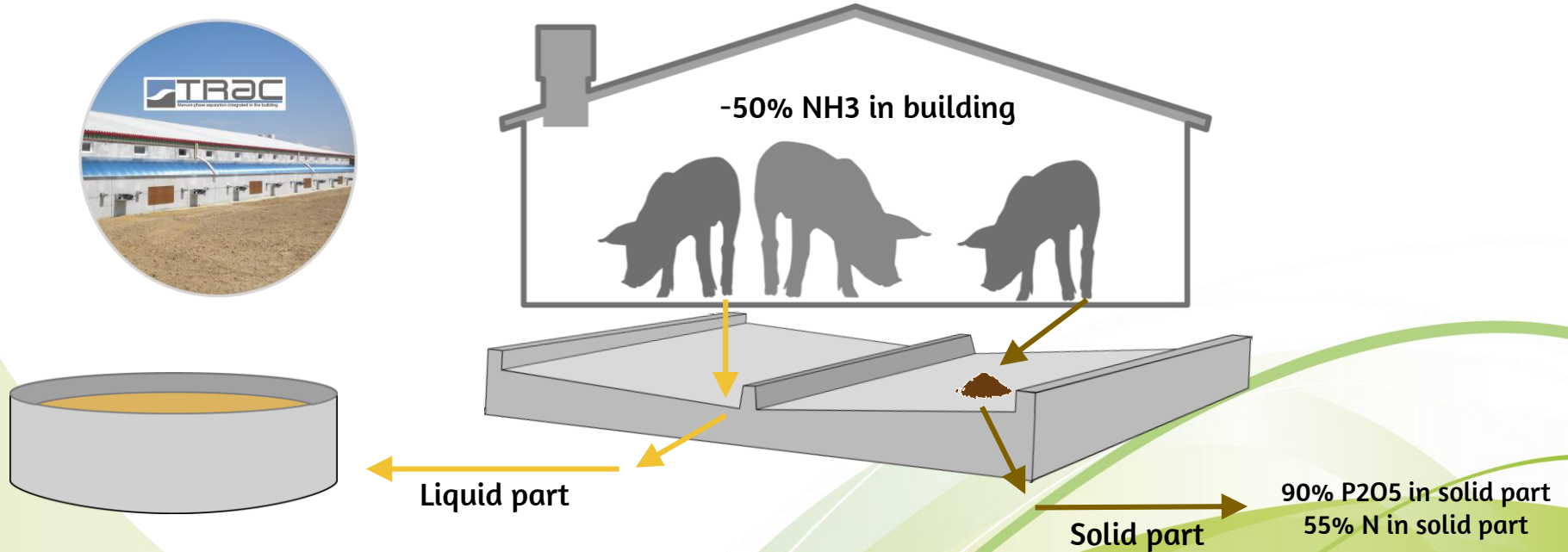
Pig breeding

» Cooperl can control the pig breeding **by-products quality**.



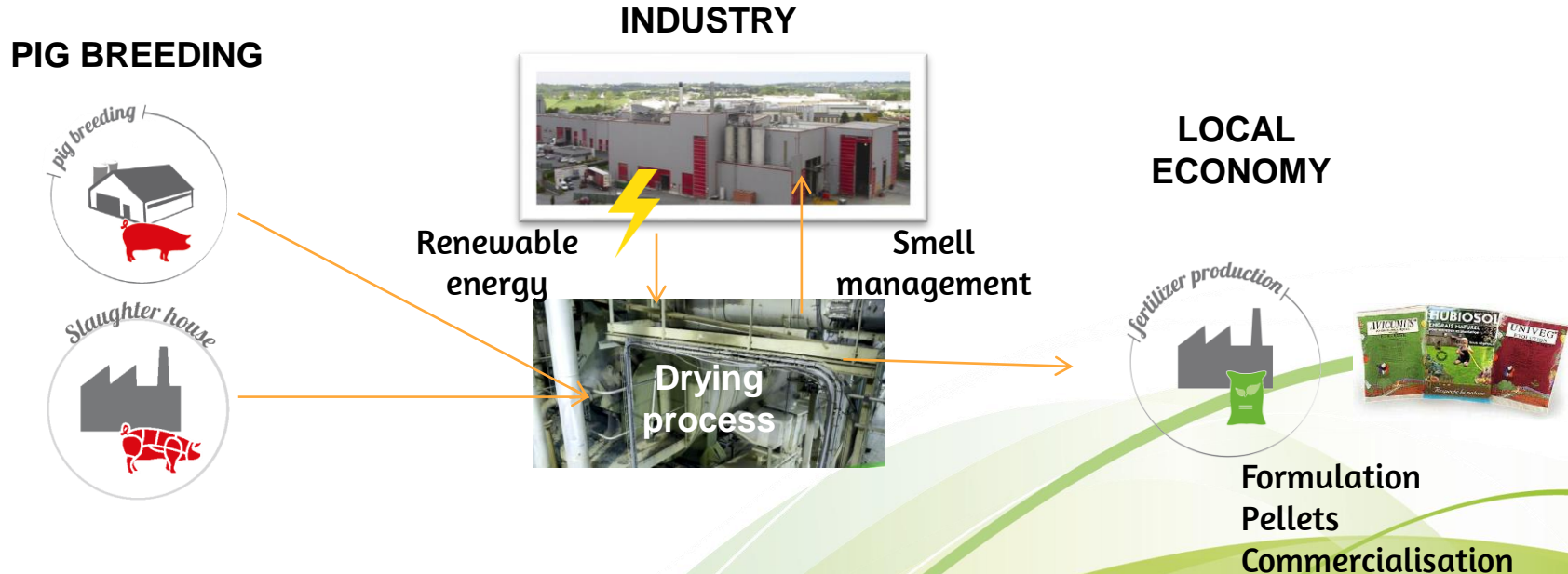
TRAC system

» Cooperl develop **technologies** to improve the value of the manure transferred to the industry.



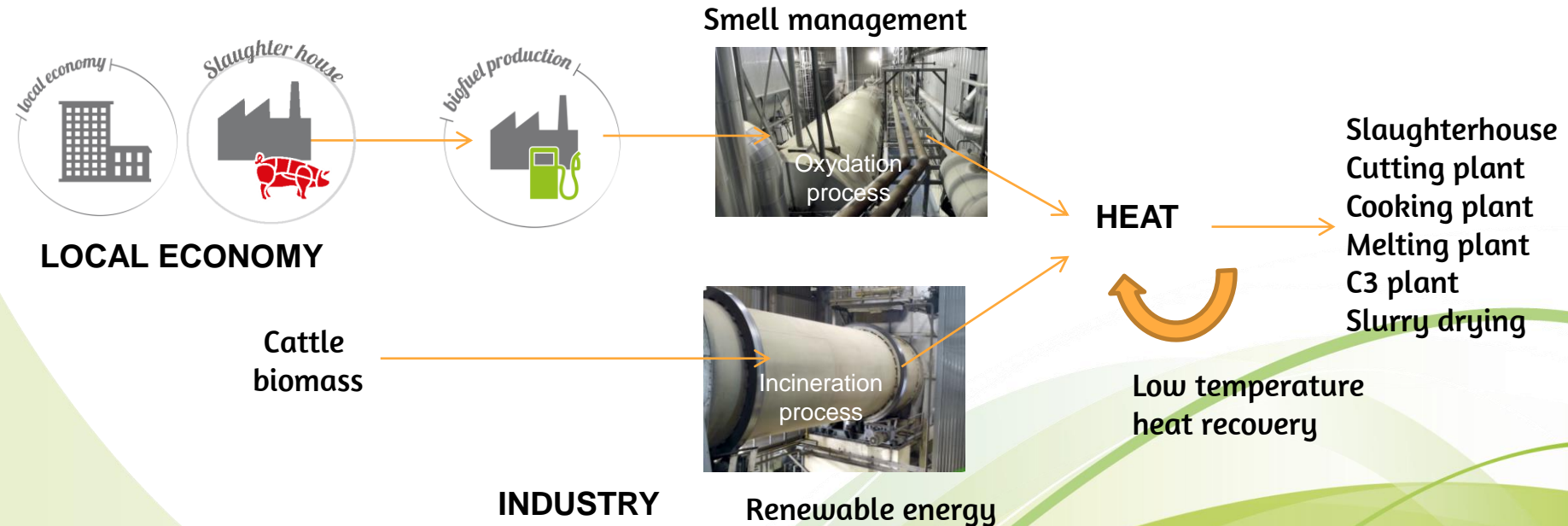
Organic fertilizer production

» Cooperl sell high value **organic fertilizer**, using farming and food industry by-product.



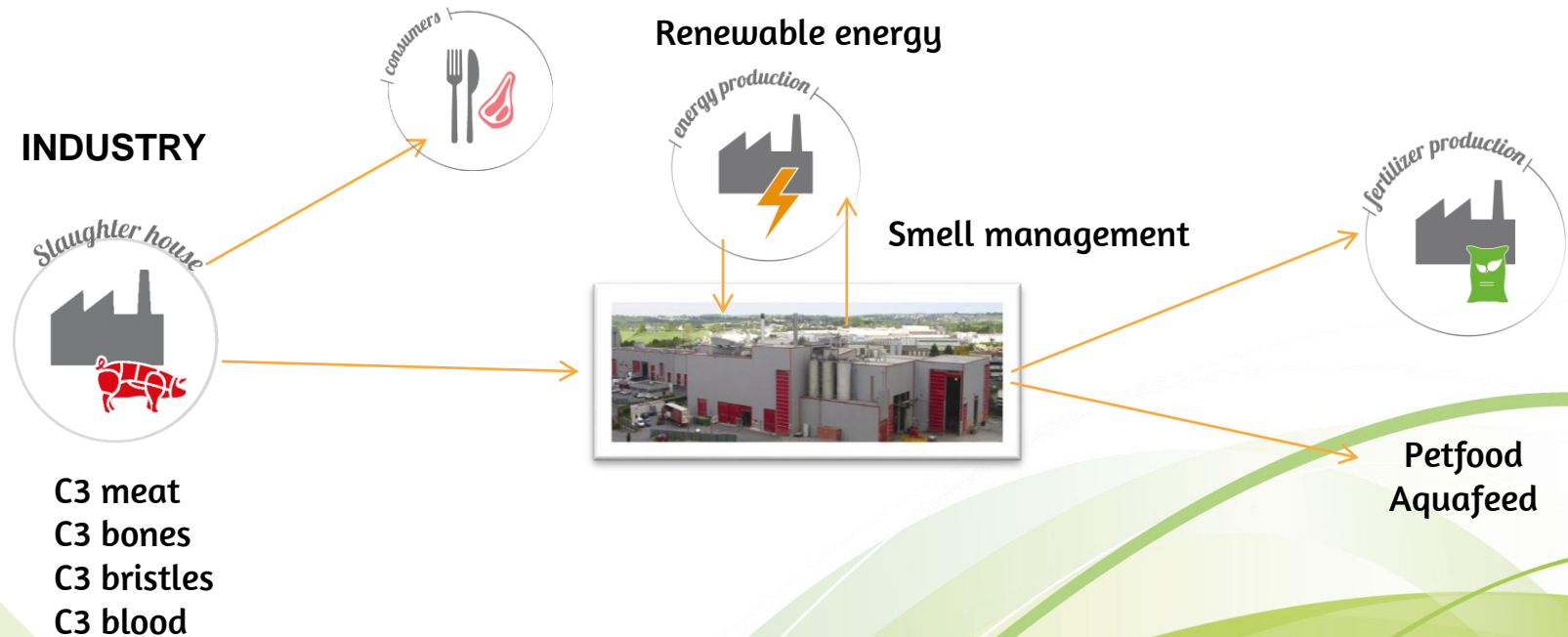
Renewable energy production

» Cooperl produces 80% of its **industrial heat need** from biomass and recycled waste.



Pig meat by-product

» Cooperl managed its own **C3 by-product** factory.



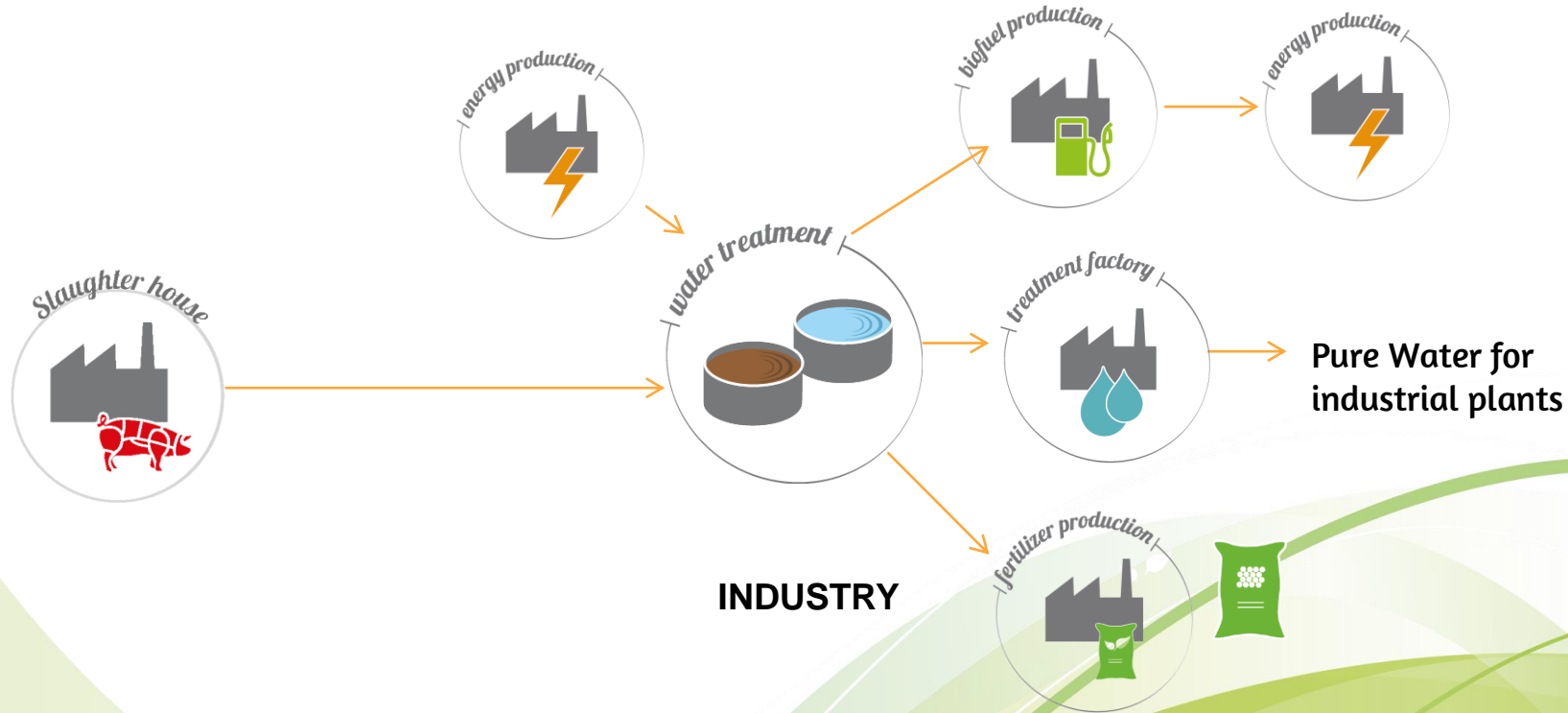
Water recycling

Environment

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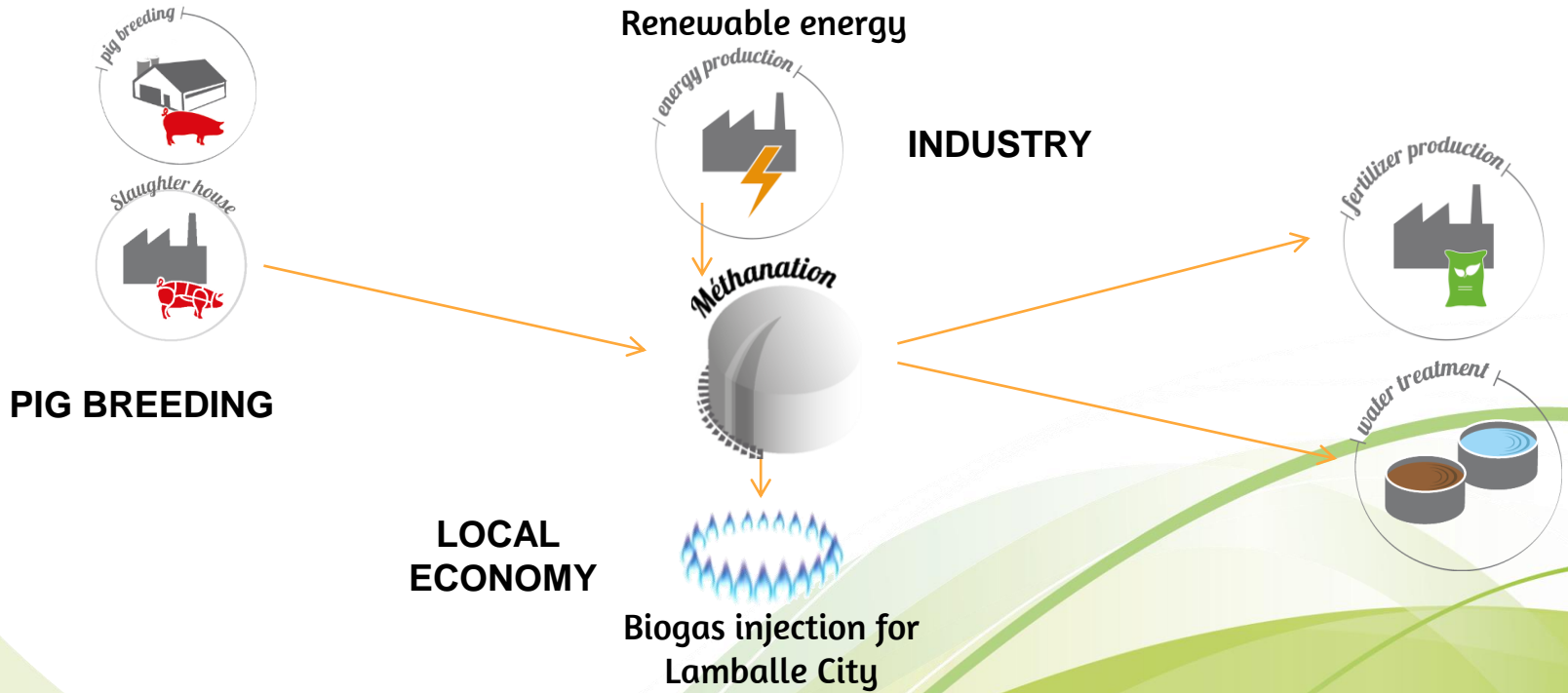


» Cooperl industrial plants use **recycled water**.



Next steps

» A **biogas production** project increase Cooperl and Lamballe city low environmental footprint.



To conclude



- » All pig industry by-products is valorized as products or as energy.
- » **Breeding technologies** improve the by-products quality.
- » Cooperl can create added-value thanks to its centralized position and **industrial management**.
 - » Control the cost
Adapted for Brittany because of high density of breeding plant
- » To be sustainable, the system has to be built with the **local shareholders** in order to share services and energy.



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Thank you
for your attention !

