

## Preliminary Carbon Footprint of pork production in Quebec

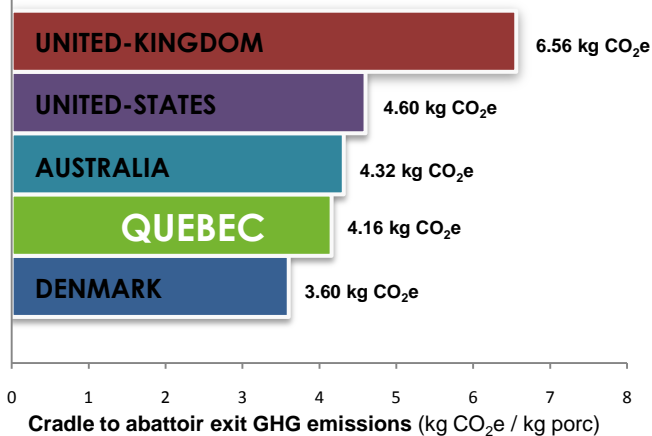
**4.16 kg CO<sub>2</sub>e / kg carcass**

GHG quantification conformity with ISO 14064-2: 2006 guidelines

- Quebec pork carbon footprint is compared with four other countries according to four major processes:

- Feed production
- Farm operations
- Manure management
- Abattoir

### Countries Carbon footprint

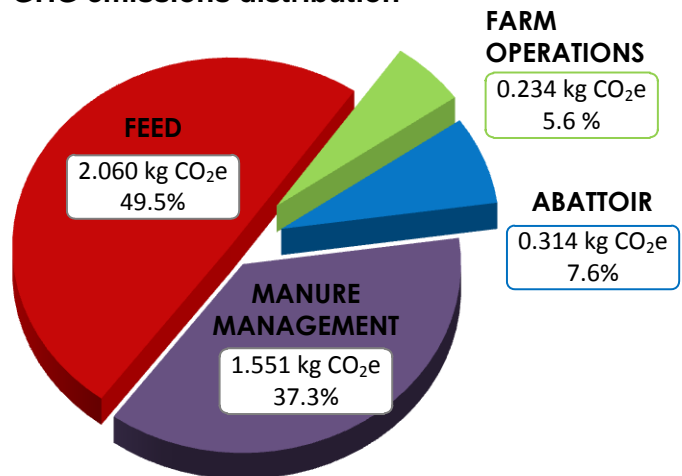


- Preliminary carbon footprint of pork production in Quebec is lower than the average of the large producing countries.
- Transport has very little impact on the carbon footprint. Pig transportation by boat from Montreal to Tokyo corresponds to **0,15 kg CO<sub>2</sub>e (3.6%)**.

### Recommendations for the improvement of Quebec pork carbon footprint

- Specify the data relating to Quebec farm operations (energy, transport, etc).
- Distribute a carbon index and an index card to the other economic actors.
- Study the integration of processes for liquid manure valorization in order to generate energy and carbon credits.
- Communicate the Quebec pork producer's carbon effort.

### GHG emissions distribution



- Two GHG emission sources are under the direct control of pork producers : **Manure management**  
**Farm operations**
- Pit covering, **biogas capture and methane combustion** would make it possible to decrease GHG and generate carbon credits.
- Breeding downstream and upstream activities depends on external economic actors, and represents the major part of the GHG emissions.
- The distribution of a **CARBON INDEX to the food suppliers** would make it possible to communicate to the UPSTREAM activities of pork production.
- The transmission of an **INDEX CARD to the abattoir** would create a link with the DOWNSTREAM activities and sensitize them with the producer's efforts.
- A **performance calculator** would allow the evaluation of different solution's on a carbon and energy basis.

This GHG quantification project and solution analysis of carbon footprint reduction carries the **BRONZE** certification of OCO Technologies

