

LIFE The Tough Get Going



LIFE 16 ENV/IT/000225 - LIFE TTGG

www.lifettgg.eu

The experience in
applying the PEF
methodology on the
Comté PDO supply
chain

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The partners for this action



Federation of
French Dairy
products PDOs

46 cheeses
3 butters
2 cream



French Dairy
Interbranch
Organizzazione (Dairy
farmers, processors,
cooperatives and
distributors)

Subcontractor chosen for external expertise:



LIFE
The
Tough
Get
Going



The partners for this action

French PDO chosen for the LIFE TTGG project : COMTE which is the most important french PDO cheese (64.500 T in 2020)

Already involved in a sustainable approach (Work on biodiversity, Low Carbon Dairy farm initiative...) regarding the needs of the producers and consumer expectations.

Represented by the CIGC (Comité Interprofessionnel de Gestion du Comté)



2500 dairy farms

150 small village cheesemaking facilities called « fruitières »



D.Meignan/CNIEL



Overview of Action B7 – EDSS tests on French PDOs



CIGC

B7,1 : Selection of Comté consortium and collection of primary data

B7,2 : Development of a LCI data performed by ACTALIA with the help of POLIMI

B7,3 : Energy and efficiency analysis performed by ACTALIA with the help of POLIMI and ENERSEM

B7,4 : Parametrization and normalization of the model results performed POLIMI, ENERSEM and UCSC

B7,5 : EDSS use for PEF calculation with test on other PDOs



Organisation of task B7

1) Data sampling

Farms			Dairy processing plant			Cheese refiners	
<400,000 L/year	Between 400,000L/year and 800,000 L/year	>800,000L/year	<400t/year	Between 400t/year and 800t/year	>800t/year	<5000t/year	>5000t/year
17	10	2	6	10	3	3	2
29			19			5	



CIGC



CIGC



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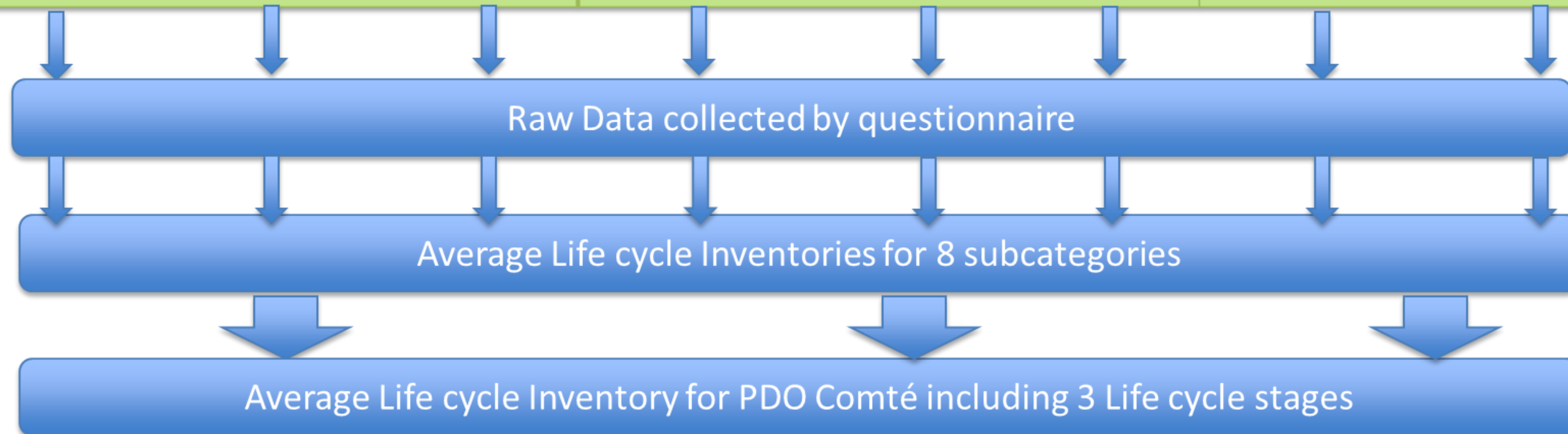


Organisation of task B7

2) Data collection

Farms			Dairy processing plant			Cheese refiners	
<400,000 L/year	Between 400,000L/year and 800,000 L/year	>800,000L/year	<400t/year	Between 400t/year and 800t/year	>800t/year	<5000t/year	>5000t/year
17	10	2	6	10	3	3	2
29			19			5	

3) Data processing



Organisation of task B7

4) Energy audits

Objective: Model the energy consumption of key dairy processes

Energy audits on 2 companies with the help of:



Plan de mesurage prévisionnel du site n°1 - Listing des phases du process et estimation du nombre de mesures pour le site n°1 :

Etape process			Equipement supposé lequel effectués mesures	Mesures			
			sur seront les	Intensité	Température	Pression	Débit
Ta1	Réception du lait	Maintien à 4°C du lait cru	1 Groupe froid	Enregistrement	Enregistrement (*2)		Enregistrement
Ta3	Ecrémage	Centrifugation du lait	Centrifugeuse	Enregistrement			
Ta4	Réception lait	Réchauffage pour travail en cuve	Source chaude + pompe recirculation	Enregistrement (*2)	Enregistrement (*2)		Enregistrement
Ta5	Caillage/travail en cuve	Chauffage volume de lait et maintien en T°	Source chaude + brassage électrique	Enregistrement	Enregistrement (*2)		Enregistrement
Ta6	Pressage en moule	Compression par vérin	1 Compresseur	Enregistrement		Enregistrement	
Ta7	Saumurage/salage	Refroidissement éventuel pour saumurage	Pompes	Instantanée			
Ta8	Pré-affinage	Refroidissement des charges thermiques apportées par les fromages	1 groupe froid hâloir + ventilation + robot	Instantanée (1/ventilation + 1/robot + 1/hâloir + 2 en enregistrement)	Enregistrement (*4)		Enregistrement (*2)
TOTAL				Environ 12/15 mesures	Environ 10 mesures	1 mesure/compresseur	Environ 5 mesures



Next step

April 2022 : Event in the Comté area to present the French results to LIFE TTGG partners, Comté producers and other PDO's organisation



CIGC





Thank you for your attention

