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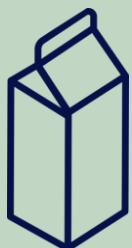
PROJECT CONCLUSIONS ARC027/19/00048

*Overprinting and lamination for the reparation
and use of obsolete printed packaging;
Reduction of industrial waste.*



Flexible
Packaging

Cardboard
boxes



Tetra-brik

Lables
and Sleeves



Preformed
Bags

THOSE THAT CAN'T BE USED AS THEY ARE

- ▶ New product launches
- ▶ Internal or external changes
- ▶ Art-Work's mistakes
- ▶ Promotions
- ▶ Customization / Personalized
- ▶ Transitions to new conditions
- ▶ Technical contingencies (cell-mark)
- ▶ Raw film market unavailable



REPAIR AND USE

Use the Packaging as originally
produced

Granted by:



Generalitat de Catalunya
**Departament de Territori
i Sostenibilitat**



**Agència de
Residus de
Catalunya**

ECONOMIC PROFIT



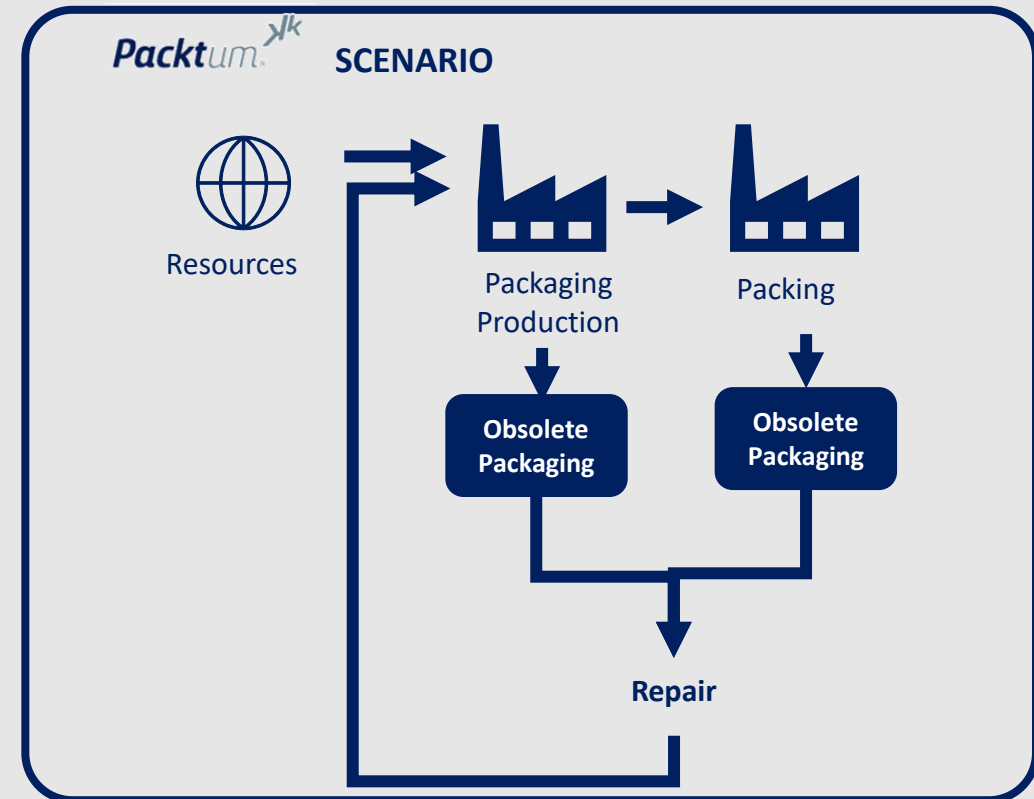
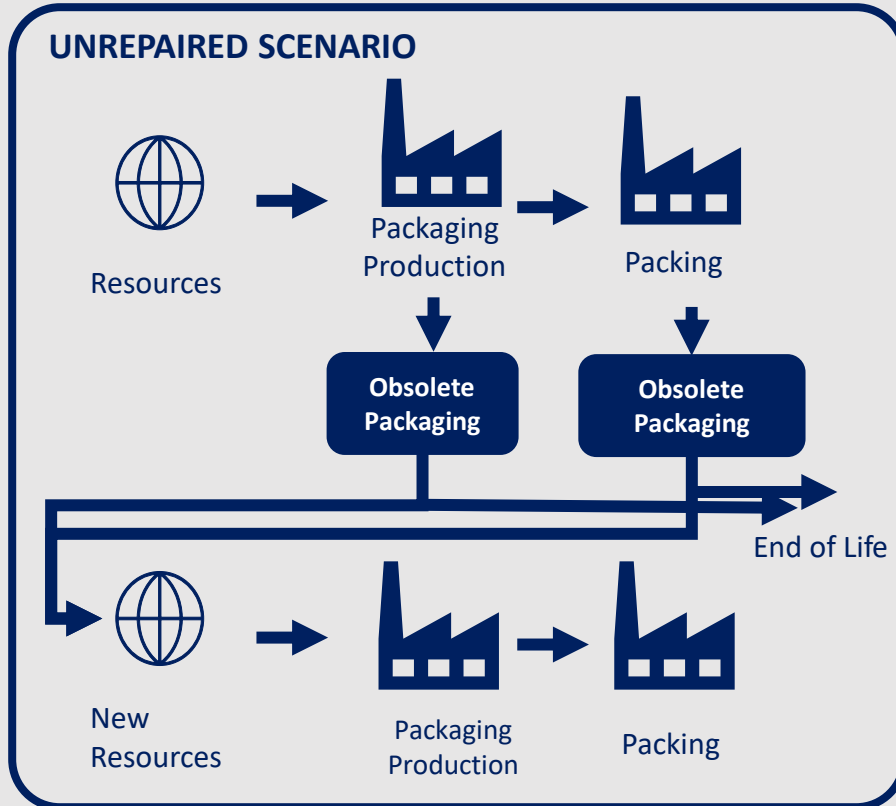
Case	Reason	MATERIAL	Density (g/m2)	Width (mm)	Repaired Quantity (kg)	Overprinting Cost	Estimated Reprinting Cost	Savings	%	Remarks
1	Error Artwork	OPP 35μ	33,40	531	12.150	25.294,00 €	76.909,50 €	51.615,50 €	67%	Texto a añadir
2	Error Artwork	BOPA 15μ + PE/EVOH/PE 70μ	81,00	395	125	1.665,00 €	1.110,06 €	-554,94 €	-50%	Añadir código de barras y contenido en gr
3	Error Artwork	PETPVdC 13μ + PE Transparente 40μ	55,00	240	1.218	3.934,22 €	5.444,46 €	1.510,24 €	28%	Texto a añadir
4	Cambio Externo	OPP 20μ + PE/EVOH/PE 70μ	96,45	290	290	1.995,00 €	2.073,50 €	78,50 €	4%	Cambio de Distribuidor en mercado destino
5	Error Artwork	OPP 20μ	21,20	907	3.307	9.095,14 €	17.990,08 €	8.894,94 €	49%	Cambio de ingrediente por la guerra de Ucrania
6	Cambio Externo	OPP 20μ + CPP 20μ	41,50	299	6.400	15.343,00 €	38.080,00 €	22.737,00 €	60%	Cambio de ingrediente por la guerra de Ucrania
7	Cambio Interno	Barniz + Papel Estucado + hot-melt	110,00	742	1.827	7.980,16 €	11.619,72 €	3.639,56 €	31%	Cambio del contenido en gr del envase
8	Cambio Interno	Barniz + Papel Estucado + PET Met 12μ	69,00	398	1.085	6.118,25 €	14.148,40 €	8.030,15 €	57%	Cambio del contenido en gr del envase
9	Cambio Interno	PP Mate 20μ + PET 12μ + PP Metalizado 20μ	60,70	420	690	3.450,30 €	5.520,00 €	2.069,70 €	37%	Cambio de contenidos de ingredientes
10	Cambio Interno	PE 16g + Papel 295g + PE35g + Al 24g + PE 42g	412,00	260	1.468	2.390,00 €	4.107,46 €	1.717,46 €	42%	Cubrir texto existente
					28.560	77.265,07 €	177.003,18 €	99.738,11 €	56%	

Every repaired and used kg of Packaging, delivers as average 3,5€ profit

E_{CO}LOGIC PROFIT



The environmental analysis has been carried out using the **LCA Life Cycle methodology**.

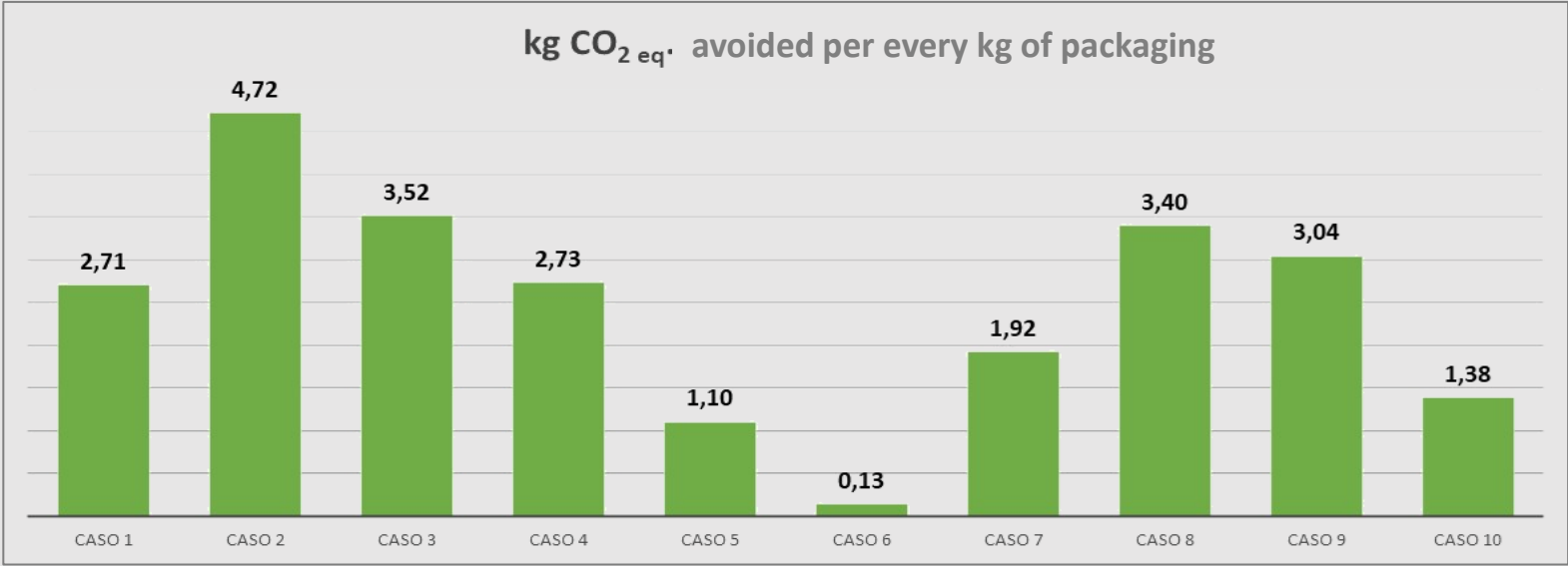


With collaboration from

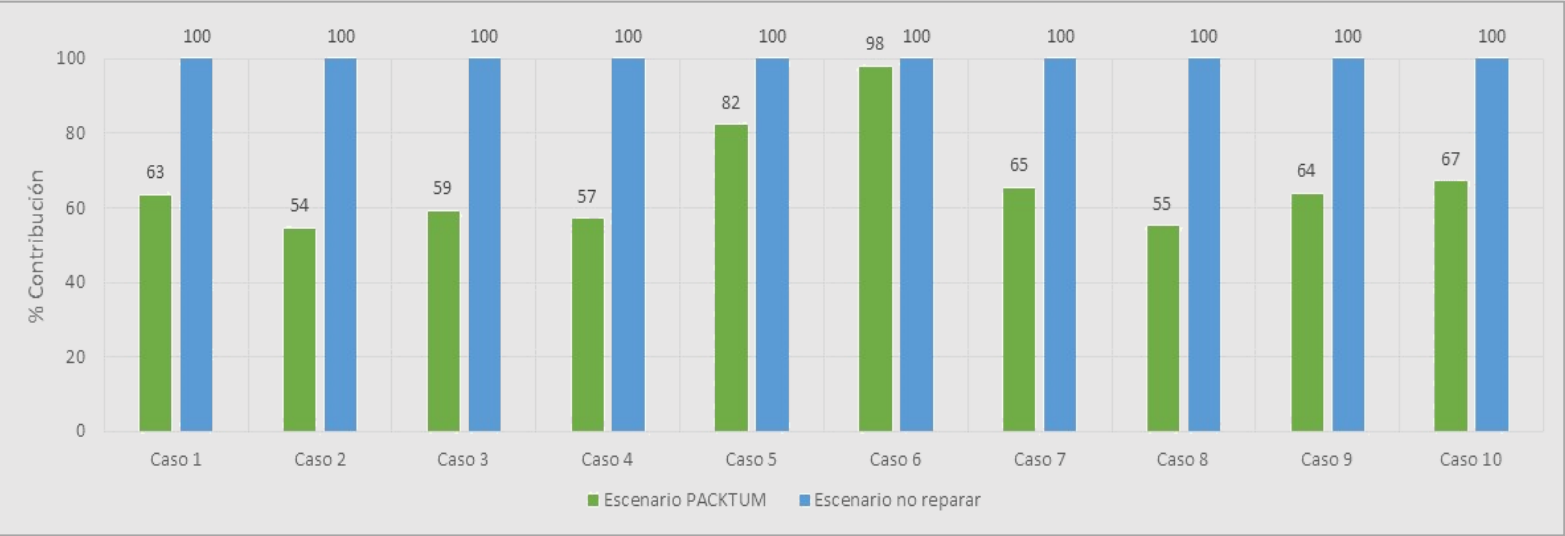
LEITAT
managing technologies



The potential environmental impacts have been presented from the global warming category among others, with the **SimaPro** software.



Each Kg repaired reduces 3,0 kg CO₂ eq emission



- The system promoted by Packtum **reduces the carbon footprint between 33 and 45%** compared to the base scenario.

CONCLUSIONS

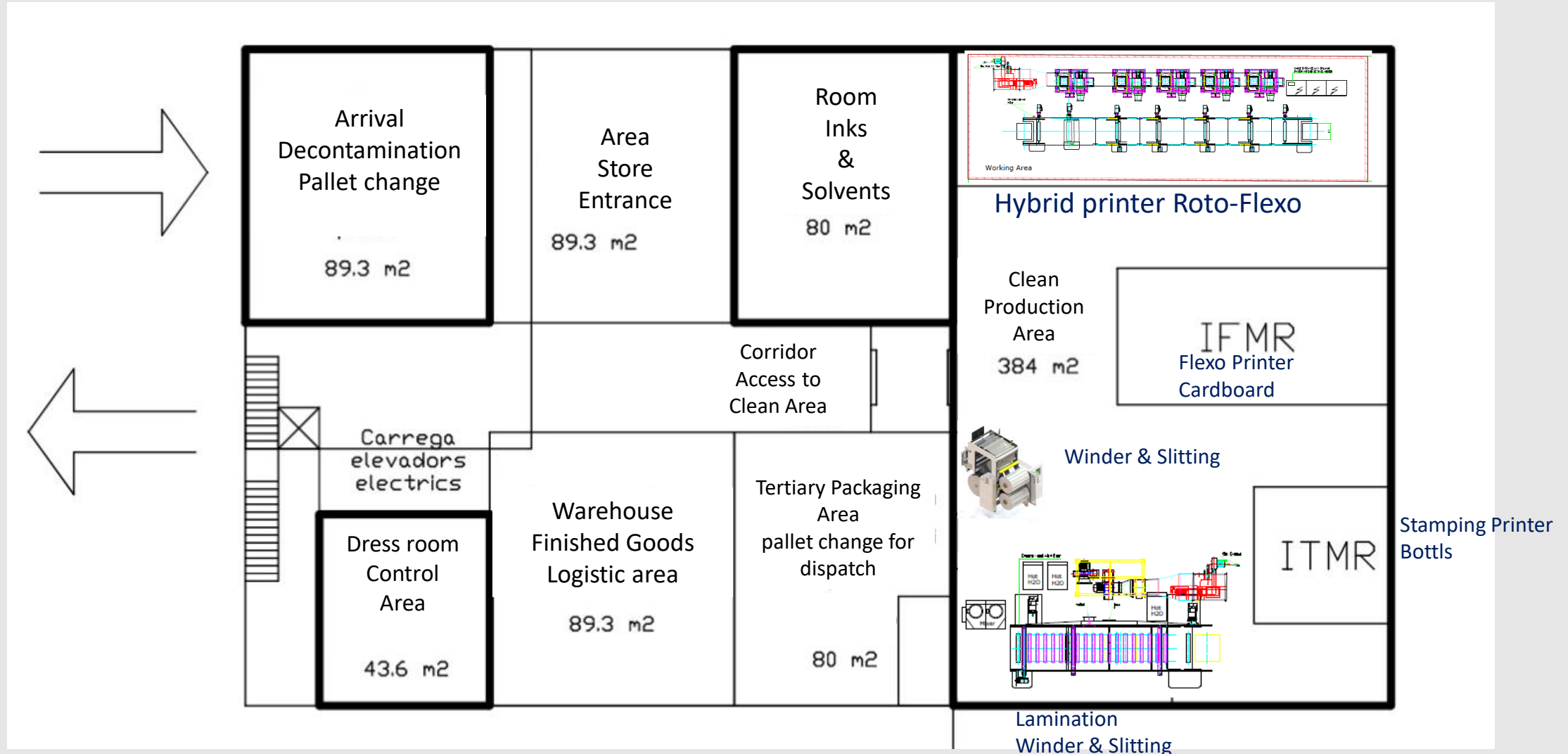
Project ARC27/19/00048



- 1 The concept is of great interest to participating companies. The in-person visit had a multiplying effect (examples) – COVID19 was a very important obstacle to the progress of the project.
- 2 The obsolete ones have operational and financial traceability, but the interlocutors had some difficulty in identifying and quantifying them (or in declaring them).
- 3 The repair of obsolete printed materials involves a reduction in costs, above a certain threshold value (500kg), valued at an average of €3.44/kg of repaired material.
- 4 The use of resources reduces industrial waste and CO₂ emissions, in an amount that depends on the structures, but by an average of 3.0kg of CO₂ eq
- 5 As a contingency service, it is used in a special situation, with a very narrow operational window. The service must necessarily be: ECONOMIC, CLOSE and FAST.
- 6 The initiative should be understood as a collaborative economy service with a “neutral” market profile, aimed simultaneously at packaging material manufacturers and brand owners.
- 7 Objective: create the “0” repair center, based on existing experience, to replicate it in a network of repair centers in Europe. Creation of jobs in the industrial field.



A Business Plan – Collaborative Economy



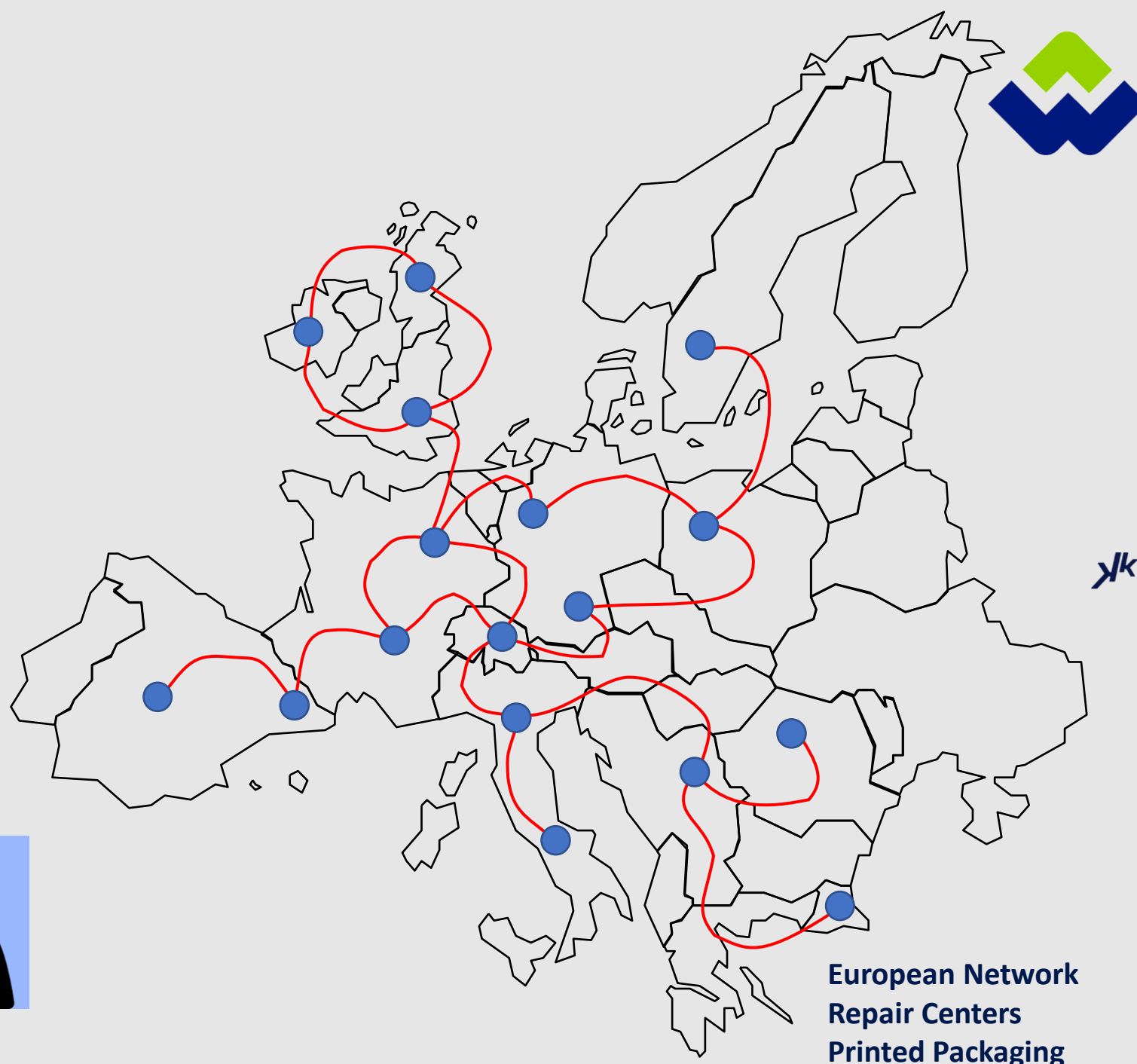
HUMAN RESOURCES BY REPAIR CENTER

1 CENTER MANAGER
2 OPERATORS OVERPRINT FLEXIBLE CONTAINER
2 OPERATORS OVERPRINT RIGID CONTAINER
1 WINDER – IN/OUT LOGISTICS OPERATOR
LOCAL CUSTOMER MANAGER



SHARED SERVICE NETWORK

PLANNING
ADMINISTRATION & FINANCE
GRAPHIC CHAIN (ARTWORKS)
EXTERNAL RESOURCE MANAGER (SUPPLIERS)
CORPORATE CUSTOMER MANAGEMENT
MANAGING DIRECTOR



**European Network
Repair Centers
Printed Packaging**



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