



Ferrero Challenge Engineers 2024



Agenda

01.

Let's set the stage

02.

Proud to be Ferrero

1st Part – 50 min

Break – 10 min

03.

About us

04.

Our Challenge is
your Challenge!

05.

The Rules of the
Game

2nd Part – 50 min

Welcome to Alba Plant



+4.000
FTE



>6.200.000
QLI



+90
SERVED
MARKETS



330.000 MWh
ELECTRICITY PRODUCED



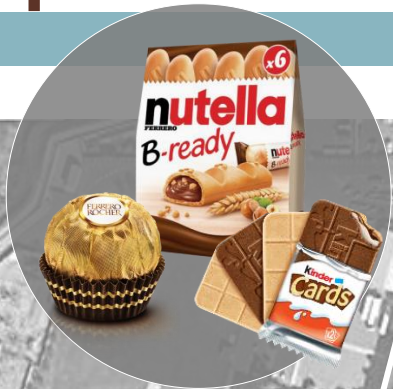
55
PRODUCTS





53 soccer pitch of extension

Castell'Alba
Booking.com - Hotels



FERRERO TECHNICAL CENTER



NPL

PU1+2:
ROCHER E WAFERATI

PU3:
UGP NUTELLA



AUTOMATIC WAREHOUSE

PU3:
UGP GRASSI

PU5:
PASTIGLIAGGI
STERILI



PU4:
MODELLATI

PU3:
UGP SEMILAVORATI



Production Unit Modellati



1.000
WORKERS



> 500.000
QLI 23.24



37
SERVED MARKETS



12
PRODUCTION LINES



7 M€
CAPEX INVESTMENTS
23.24



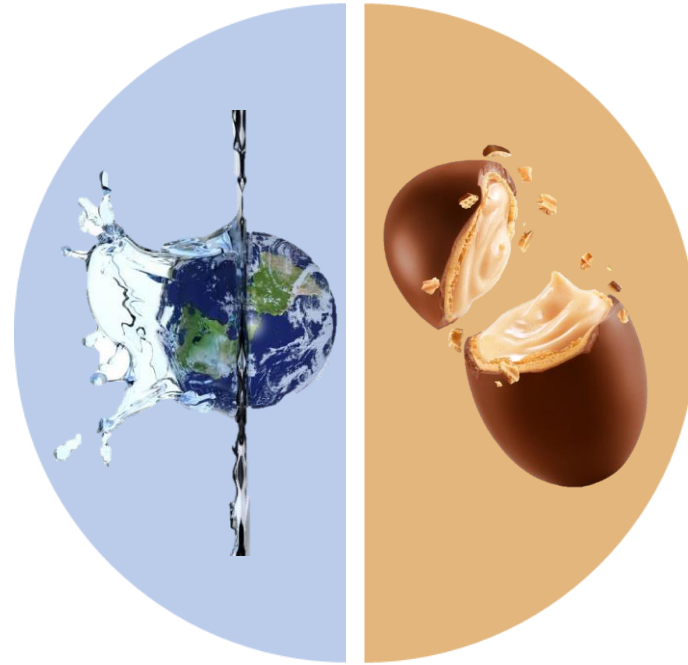
> 90
PROJECTS FOR THE
NEXT 3 YEARS



Our Challenge is your Challenge

We identified 2 Innovation Cases

**1. Smart Water
Management**

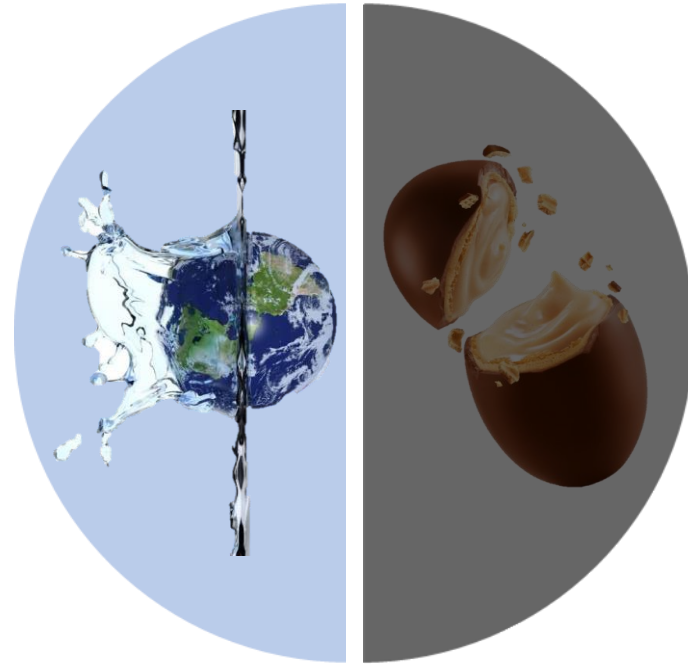


**2. K. Bueno Eggs
Bottleneck analysis**

Our Challenge is your Challenge

We identified 2 Innovation Cases

1. Smart Water Management



2. K. Bueno Eggs Bottleneck analysis

Our Sustainability Pathway

SUSTAINABLE DEVELOPMENT GOALS



Our sustainability framework



Protecting the environment

We monitor, measure, manage and aim to reduce our environmental impact across the value chain. We work to increase efficiency in our operations and supply chains, we work to reduce air and greenhouse gas emissions (GHG), reduce water consumption, and work to increase circularity across our manufacturing and for our packaging.



Ferrero Sustainability – We care for the better



Protect the Environment



Business De-Risking



Promote Responsible Consumption

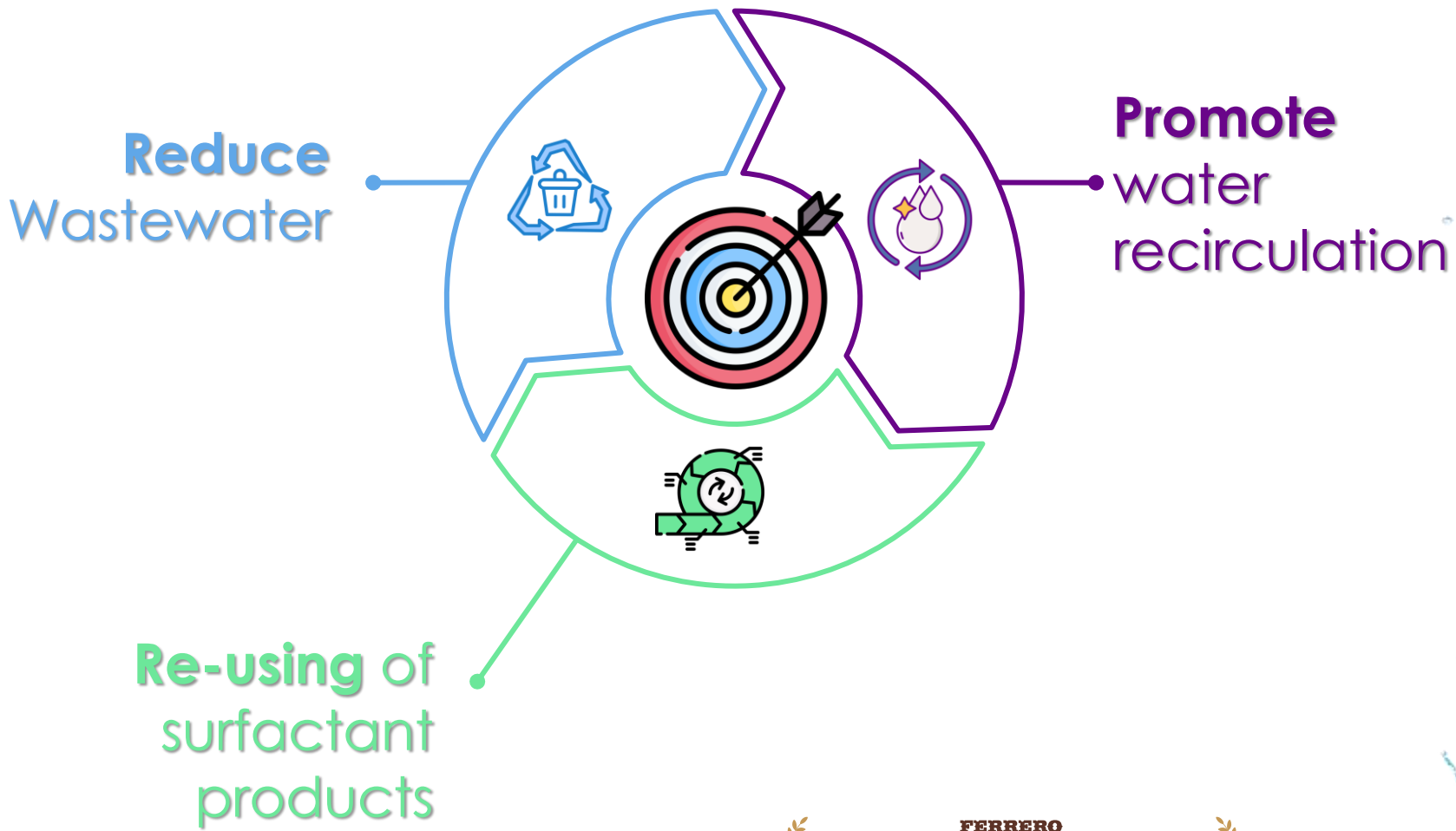


Circular Economy

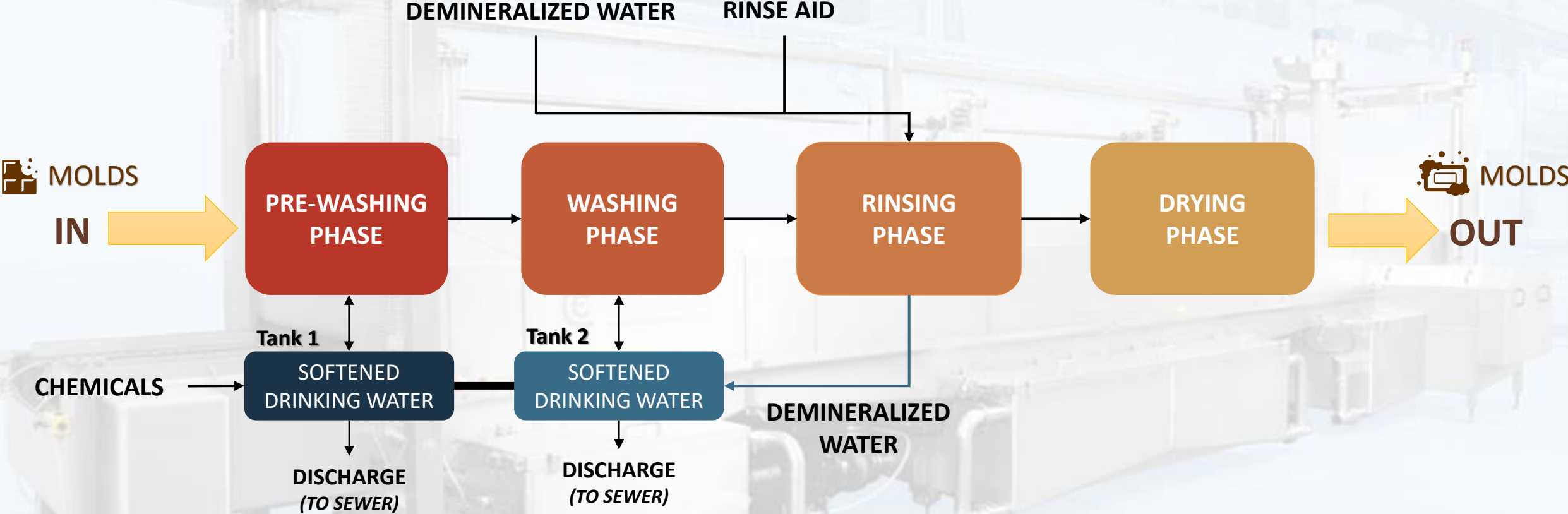


1. Smart Water Management

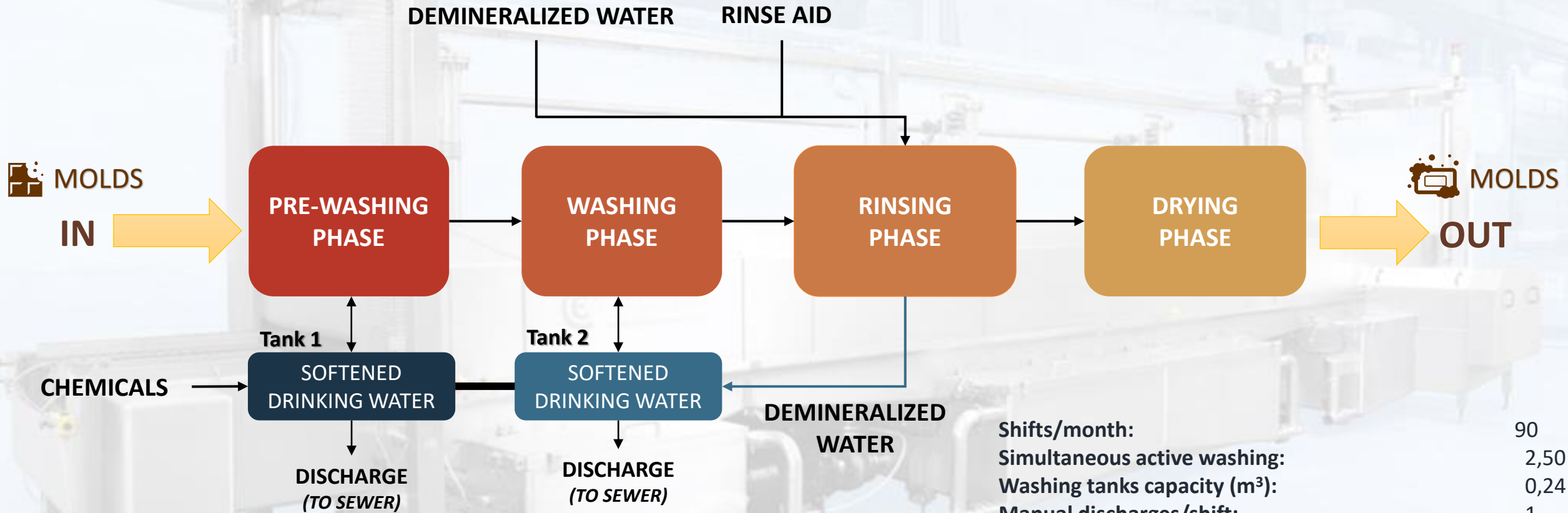
Project GOALS: Intelligent Water Management for Ferrero Industrial Cleanliness



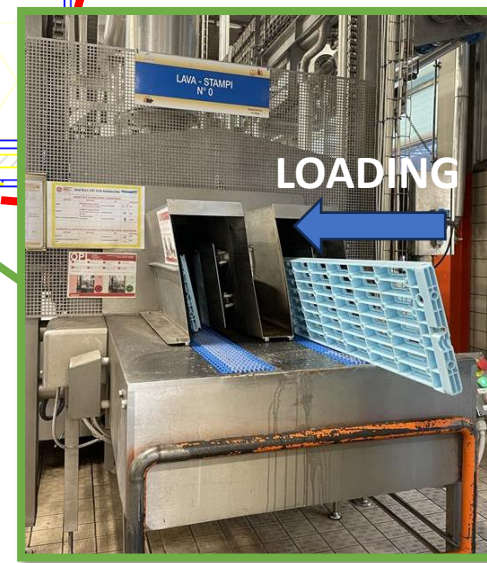
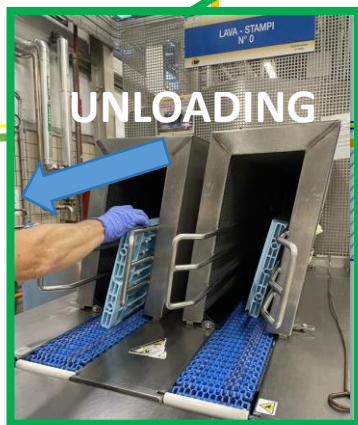
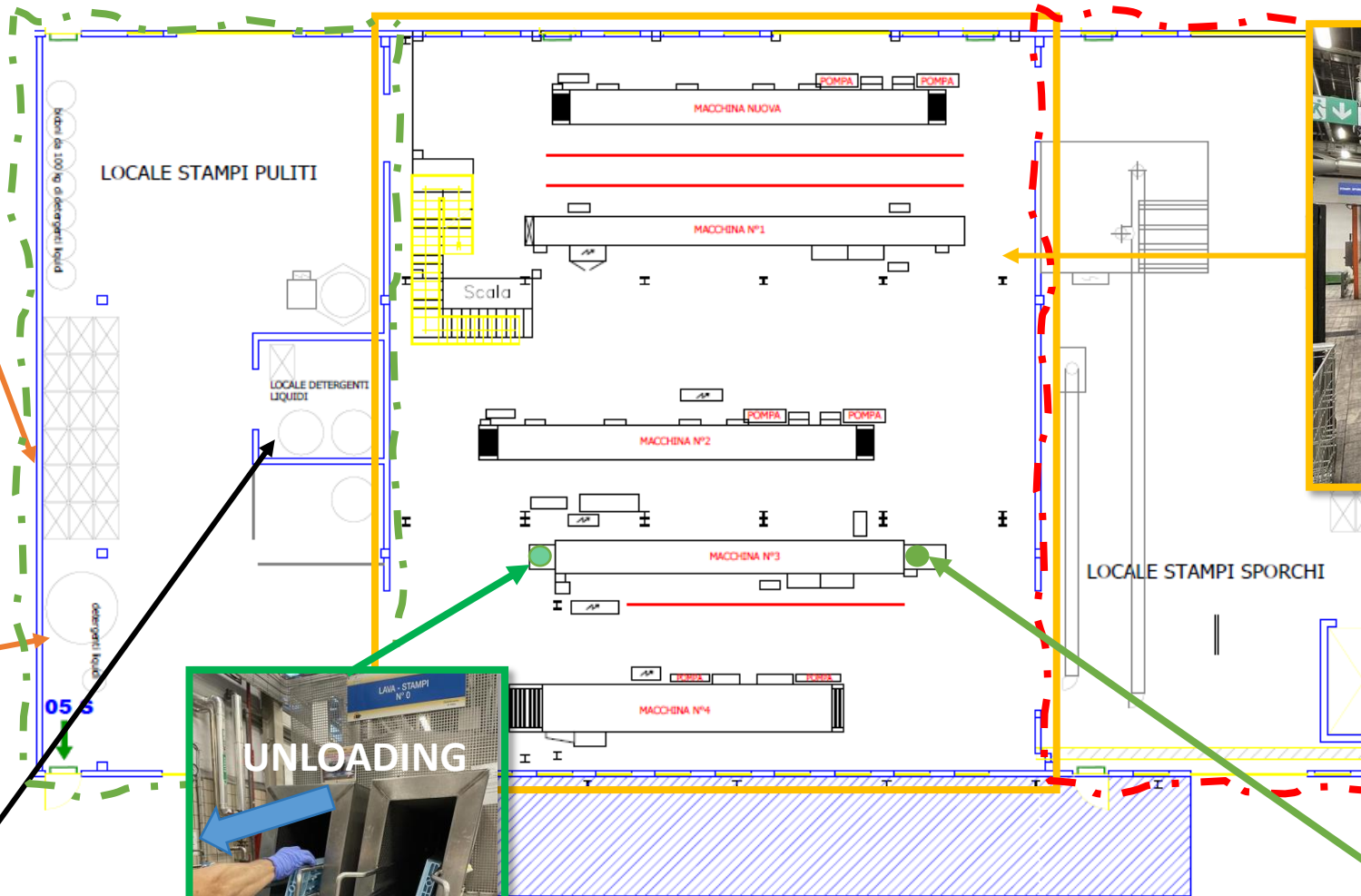
WASHING CYCLE DESIGN



WASHING CYCLE DESIGN



Shifts/month:	90
Simultaneous active washing:	2,50
Washing tanks capacity (m ³):	0,24
Manual discharges/shift:	1
Working time:	24/7
τ – residence time in the machine (min):	4
Average washing speed (items/min):	35
Manual waste water (m ³ /month):	108
Chemical consumption (m ³ /month):	12,60
Rinse Aid consumption (m ³ /month):	1
Demineralized water consump. (m ³ /month):	2083
Softened drinkg water consump. (m ³ /month):	625

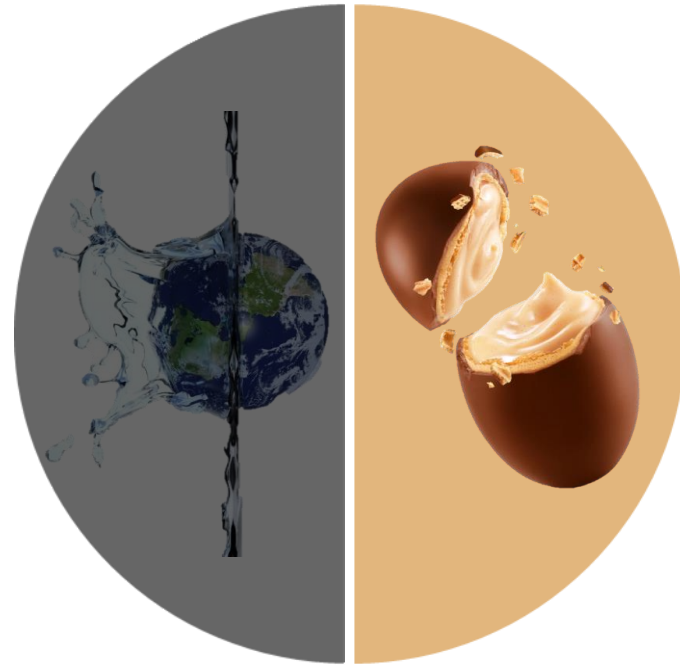


LAYOUT WASHING AREA

Our Challenge is your Challenge

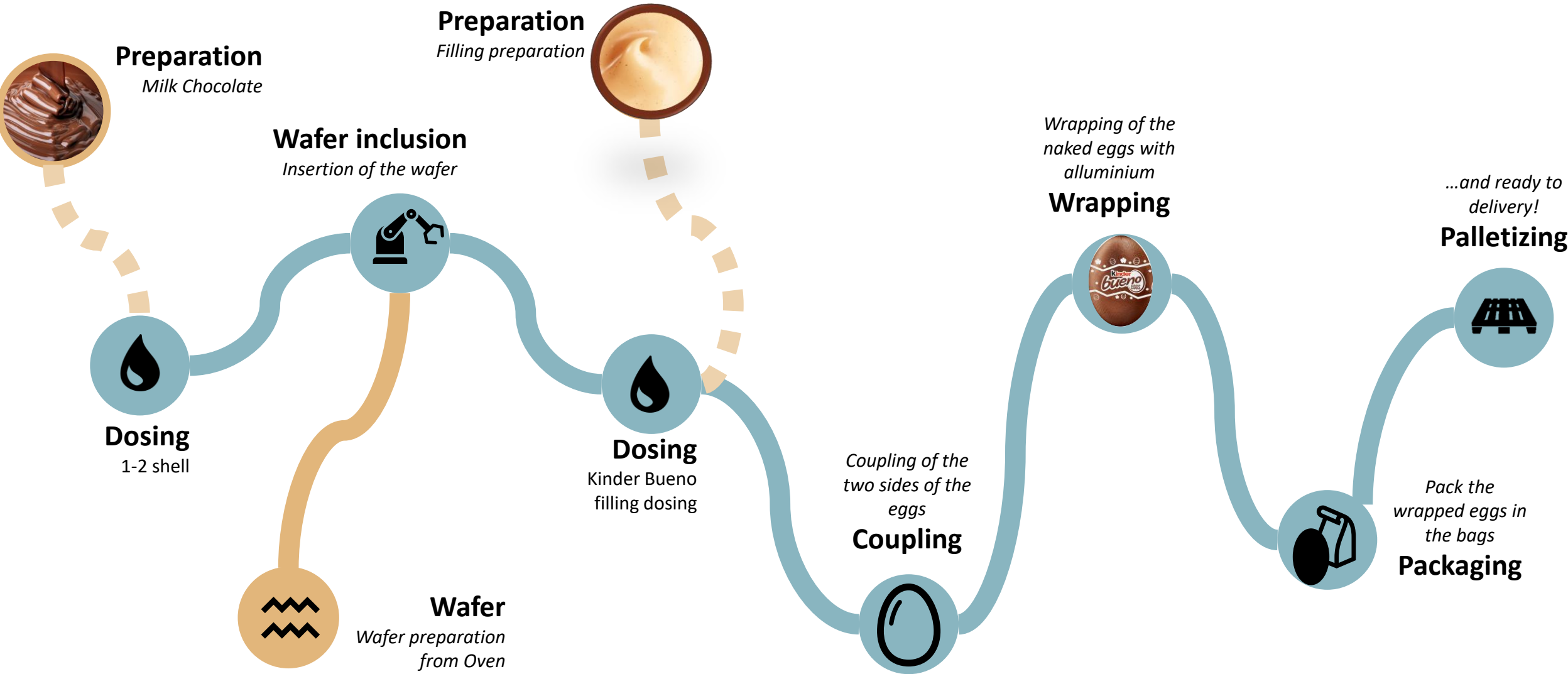
We identified 2 Innovation Cases

1. Smart Water
Management



2. K. Bueno Eggs
Bottleneck
analysis

How **Kinder** *bueno* EGGS is made



1[^] SHELL DOSING MACHINE



2[^] SHELL DOSING MACHINE



WAFER INCLUSION



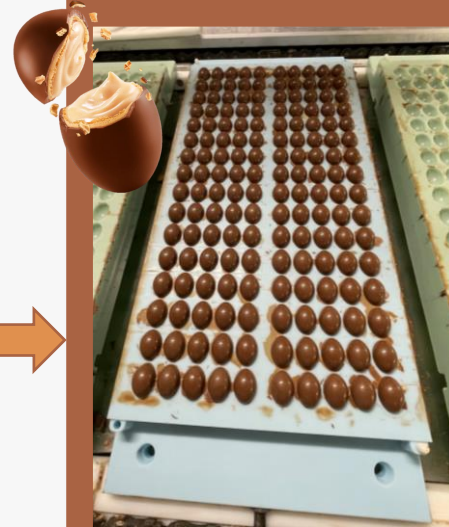
FILLING DOSING MACHINE



PAIRING

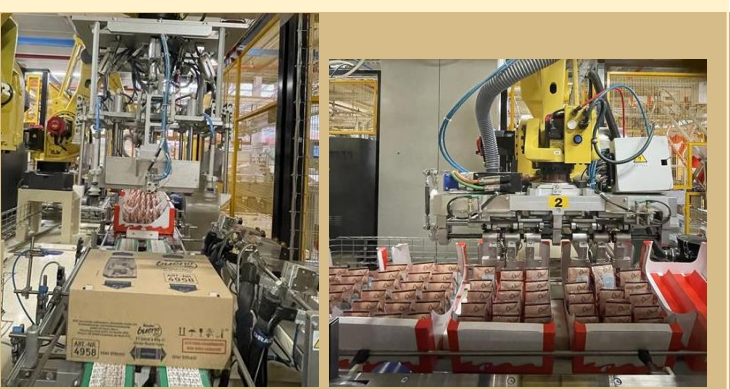
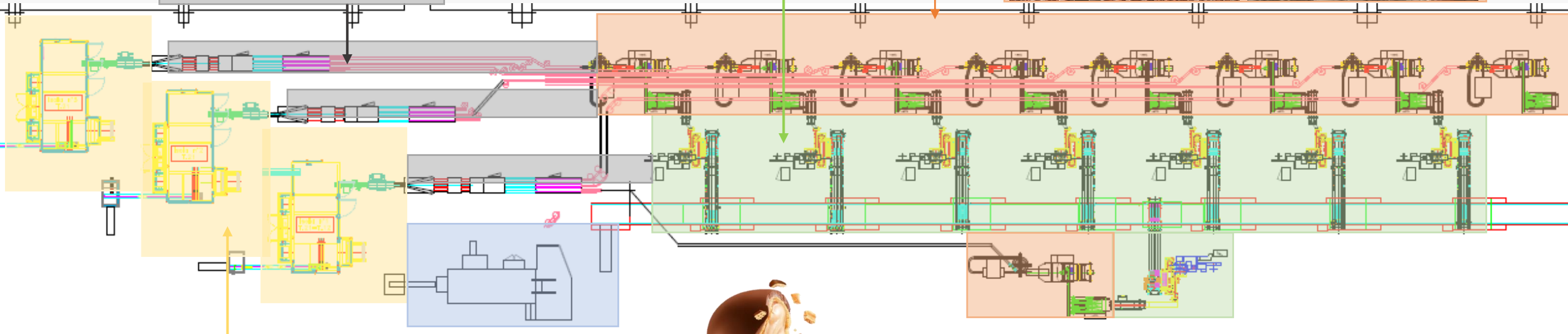


HERE'S THE FINISHED PRODUCT



FINAL PICKING ROBOT





FERRERO
CHALLENGERS

- 8 x wrapping machines
- 9 x secondary packaging machines
- 3 x cartonbox machines



SOME NUMBERS.....

MODELER

Product weight: 12.5 gr
N pieces/mould: 160
Speed modeller: 25 moulds/min
Modeller capacity: 80 qls/turno
OEE: 74%



Primary packaging

8 primary packaging machines
Speed: 300 eggs/min
OEE: 65%

Secondary packaging

9 secondary packaging machines
Formats: T8-T10
Speed: 25 pouch/min
OEE: 70%

Tray + cover machine

3 Tray + cover machines
Formats: T8x21
 T10x21
Speed: 2 boxes/minute
OEE: 80%

Workforce

44 workers/shift on the line

Volumes

20k Qls/year

1. K Bueno Eggs Bottleneck analysis



01.

Highlight the bottlenecks of the line

02.

Continuous improvement proposal

03.

Line Automation & Efficiency

The Rules of the Game



Ferrero
presentation

Politecnico di Milano 11/11/24

Università di Roma Tor Vergata 18/11/24

Politecnico di Torino 25/11/24

Università Federico II Napoli 26/11/24

We are proud to share with
you our story and our business

The Rules of the Game



Kick Off



Project Work



Presentation



Award

Groups Confirmation

From 2/12/24 to 6/12/24

- Students decide if they are interested to participate
- Students communicate the challenge.
- Professors communicate to Ferrero the final confirmation (name of students, type of study, email, selected innovation cases)
- Max 5 pax per each group

First Draft Screening

From 9/12/24 to 7/01/25

- Send a first draft Power Point Presentation to your Professors (max. 10 Slides)
- Your Professor will make a quick screening in order to assure a “real interest” to develop ideas for the selected challenge.
- This first screening moment is mandatory for the Ferrero Plant Visit

Ferrero Plant Visit

Tbd



- Alba (CN)
- Support Session by Ferrero's Managers

Finish Presentation

From 20/02/25 to 28/02/25

- Send Final presentation to Ferrero
- Max. 15 slides Power Point (annex extra without limits)
- Language ppt presentation: English
- Language presentation speech: Italian

Ferrero offers a Support Session (MS Teams) for each Group + Plant Visit

The Rules of the Game



From 3/03/25 to 14/03/25

Agenda

Team Presentation Ferrero & Students	15 min.
Final Presentation	30 min.
Q&A	15 min.

Remote Presentation
1h for each Group
with MS Teams

Presentation speech in italian, but
document written in english.

The Rules of the Game



10/04/2025

Evaluation Criterias & Weight

Hard Skill	Logic and coherent analysis of problem	10%
	Probability of problem solved with proposed solution	20%
	Innovative idea «Out of the BOX»	20%
Soft Skill	Team Presentation (Document & Live Presentation)	30%
	Q&A - Quality	20%

100%

For each University the best 2 Groups will be invited to the final Award Ceremony in Alba.

Nomination of the best 3 Groups during the final Award Ceremony.

The Rules of the Game: Awards

- Selection Process
 - Gift Bag
 - CV Check
- Special Gadget

- Selection process
 - Gift bag



2



1

- Selection process
 - Gift bag



3



FERRERO



Thank You