

IKEA Industry Challenges

UoF Post Graduation I4.0

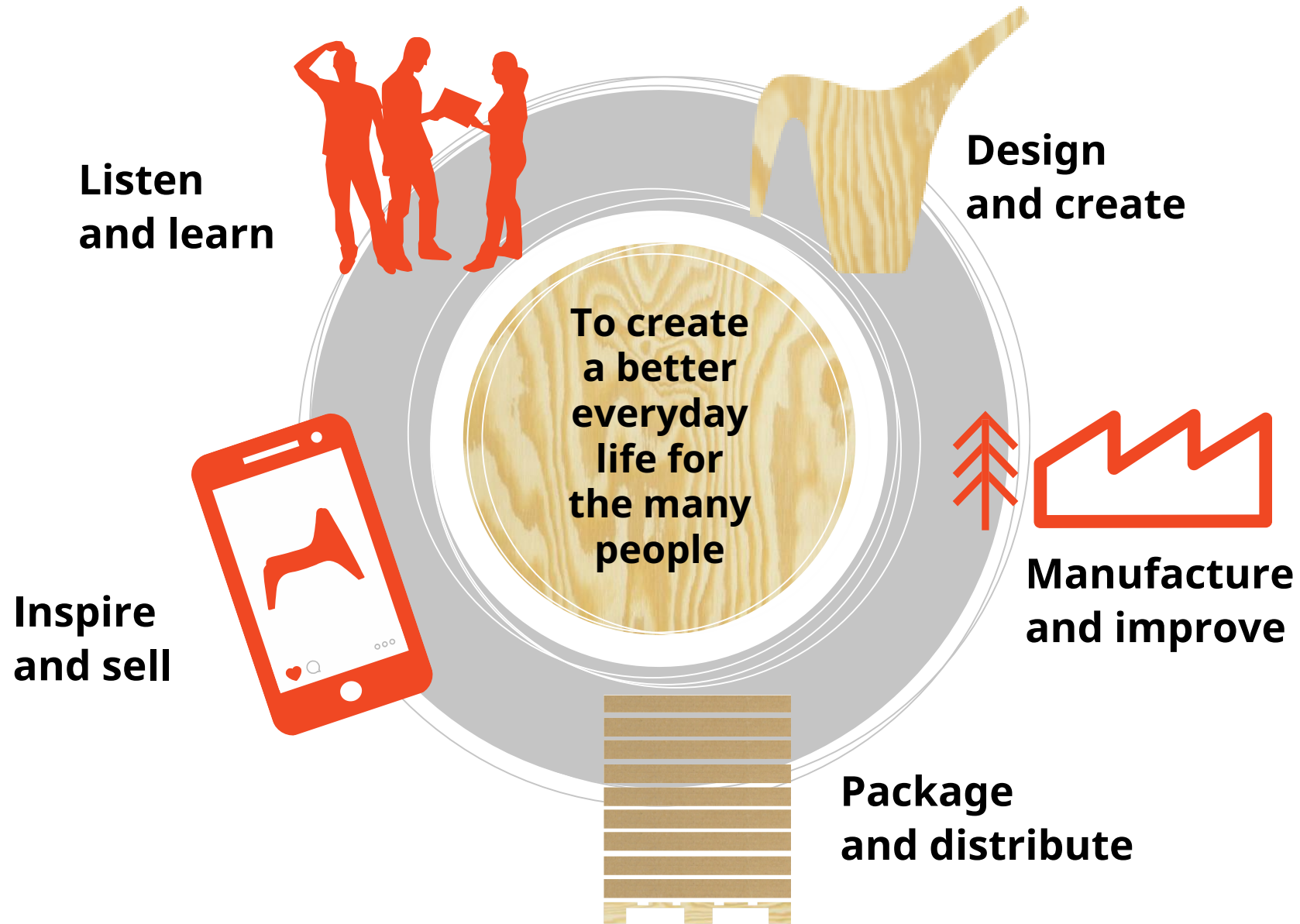


IKEA vision

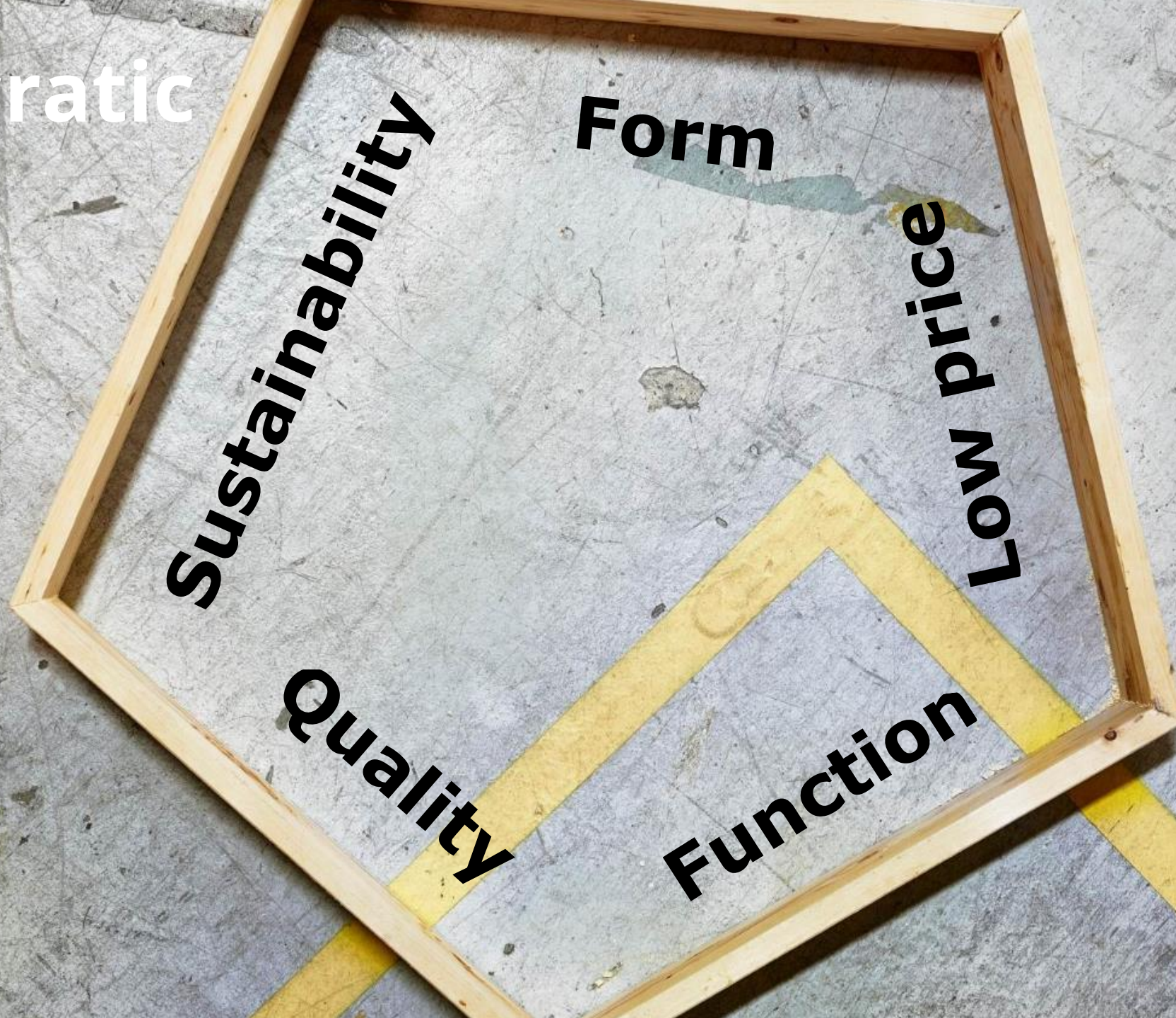
To create a better everyday
life
for the many people



The IKEA value chain



Democratic Design



Sustainability

Form

Low price

Quality

Function



IKEA Industry

World's largest producer of
wooden furniture

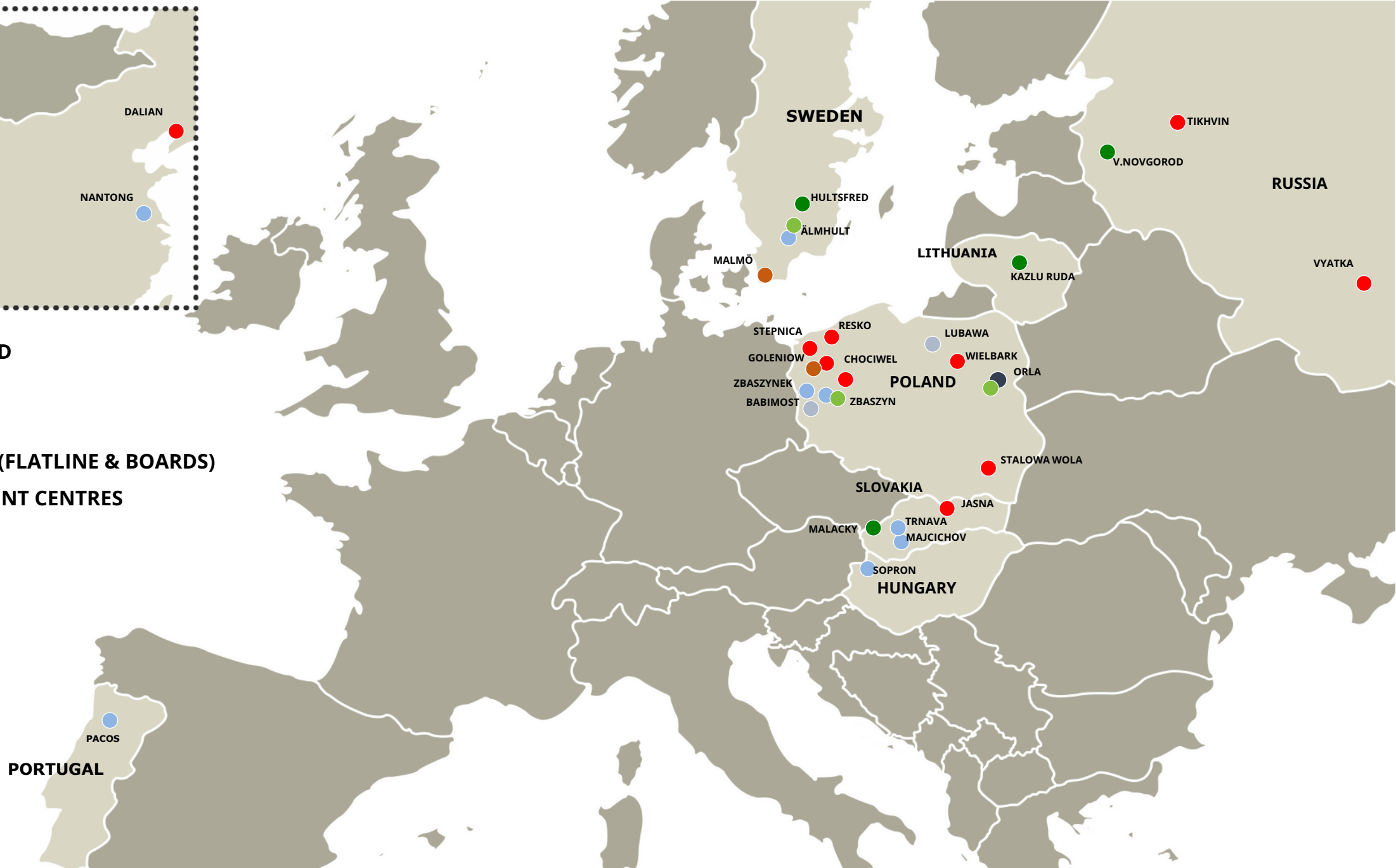
17,500
co-workers at
40 production
units in
8 countries

WHERE?





- **SOLID WOOD**
- **BOARDS**
- **FLATLINE**
- **DUAL SITES (FLATLINE & BOARDS)**
- **DEVELOPMENT CENTRES**
- **OFFICES**





IKEA Industry Portugal



Site building

2007-2008



First deliveries to IKEA

2008-2011





470.000 m²
total area

c. 1,500
co-workers

15 million pieces
of furniture
each year

Delivered to 21
countries in 4
continents



**70.000 m² of
solar panels
for
self-consumption**

Top IKEA products
we produce in
Portugal:

**LACK, HEMNES,
PAX, TYSSDAL,
BESTÅ, METOD,
MICKE and KALLAX**



As IKEA's own furniture manufacturer our role is to offer a unique advantage for IKEA as a world leader in home furnishing.

To offer a unique advantage for IKEA, we build capabilities that constantly deliver higher value to our customers. People is what will make this happen!

We believe in diversity, equality and inclusion to increase our understanding of our customers, each other and make us more successful. We aim for all our co-workers to constantly learn new things, grow and develop with our business.



LACK

Challenge 1

Smart Intralogistic





Challenge 1: Smart Intralogistic

The goal for this challenge is optimize, integrate, automate and reach an outstanding management of our internal logistical flow.

Use the innovative learnings on *Industry 4.0* to reach the preferable solution.

A safe solution that is "intelligent".

Adaptable to new industrial footprints.

Challenge 1: Smart Intralogistic

2 focus areas:

Integration of Automated Guided Vehicles as AGV, AIV or LGV on:

- Particle board semi products to frame construction
- Goods for packaging lines



Challenge 1: Smart Intralogistic

Our Case Study:

Today we are using forklifts to move finish products from our packing line to the warehouse.

To have machines (forklifts), finish products moving and people can be dangerous.

Our aim is to have a better and safer solution.



Challenge 2

Maintenance Technicians

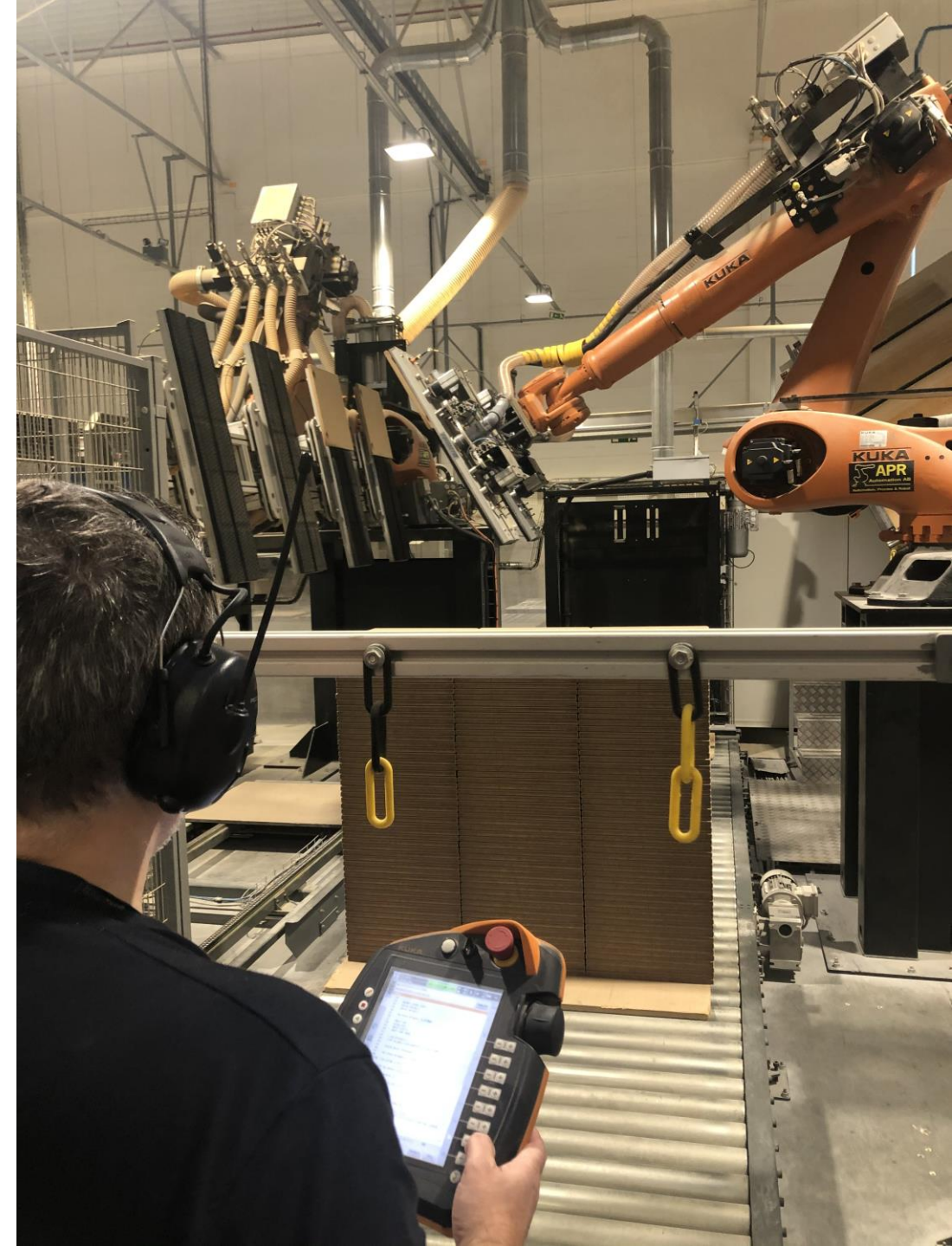


Challenge 2: Maintenance Technicians

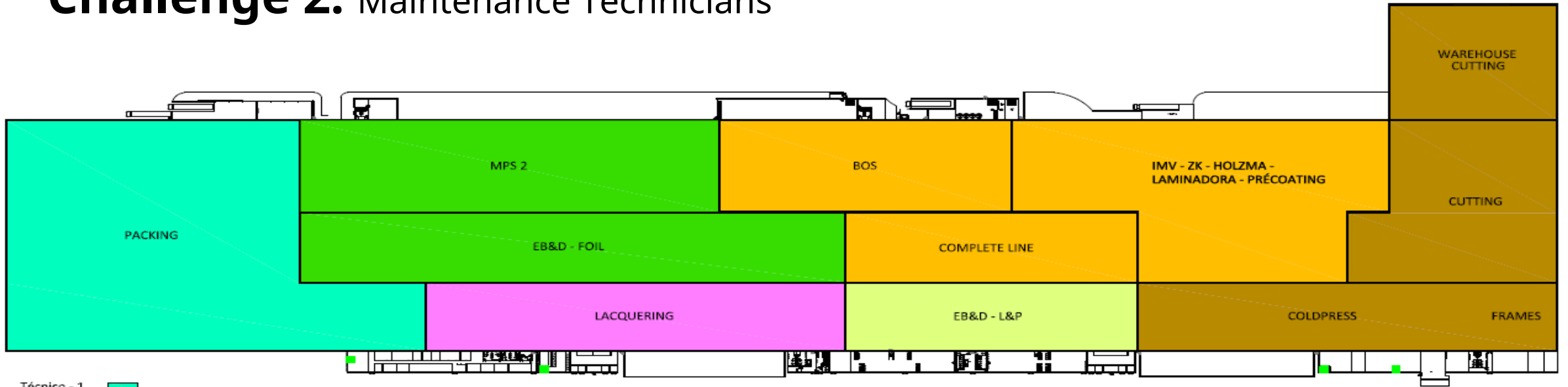
To study (to suggest) possible solutions / tools that improve the efficiency of maintenance technician function and adapts easily to continuous Industry changes.

At the moment, the maintenance department is made up of 4 teams of maintenance technicians (one team for each production shift), each with 6 members, distributed among the different production areas.

Different people, personalities, technical knowledge, but all with the same objective: to reduce the breakdown as much as possible and to allow the machines to work in the best possible conditions.



Challenge 2: Maintenance Technicians



- Técnico - 1
- Técnico - 2
- Técnico - 3
- Técnico - 4
- Técnico - 5
- Técnico - 6

Desirable Pay-off:

Challenge ways of working – routines, tools, etc;

Eliminate lost time – search for spare-parts / information, unnecessary movements by people;

Reduce costs;

Improve communication – Assure not lost information;

Facilitate to use / collect / manage lessons learned;

Support continuous improving .



Thank you!