

# BOBST TECH TALK

Lauzhack 2017 | November 11th



# MEET BOBST



BOBST

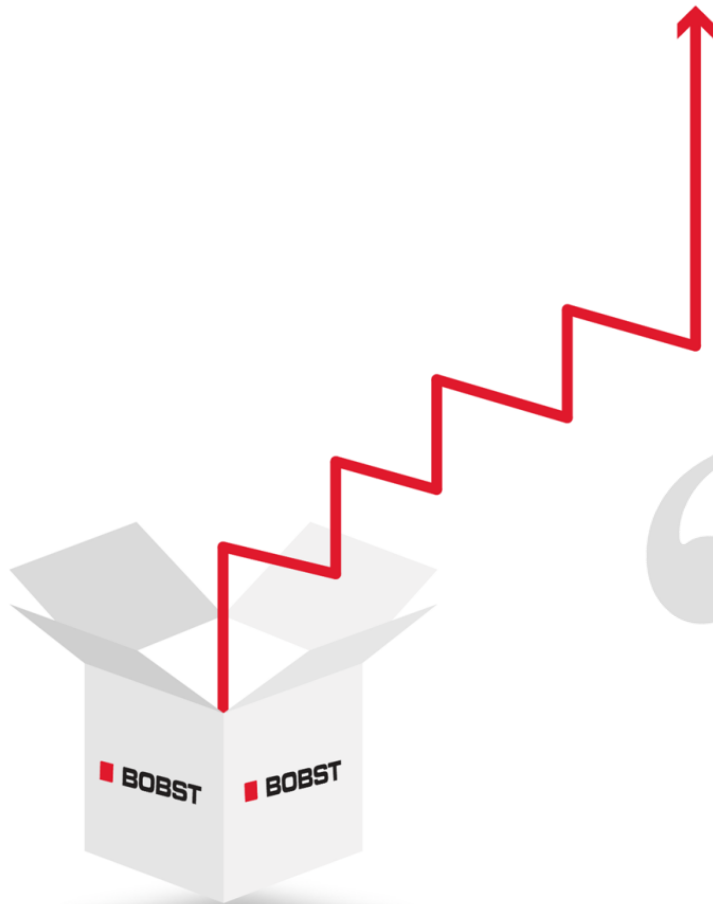




We are one of the **world's leading supplier** of equipment and services to **packaging** and **label manufacturers**




We provide **machines, services, workflows**  
and **consumables** for packaging & label  
converters of **3 main industries**



**You can't improve  
what you don't  
measure**

Lord Kelvin



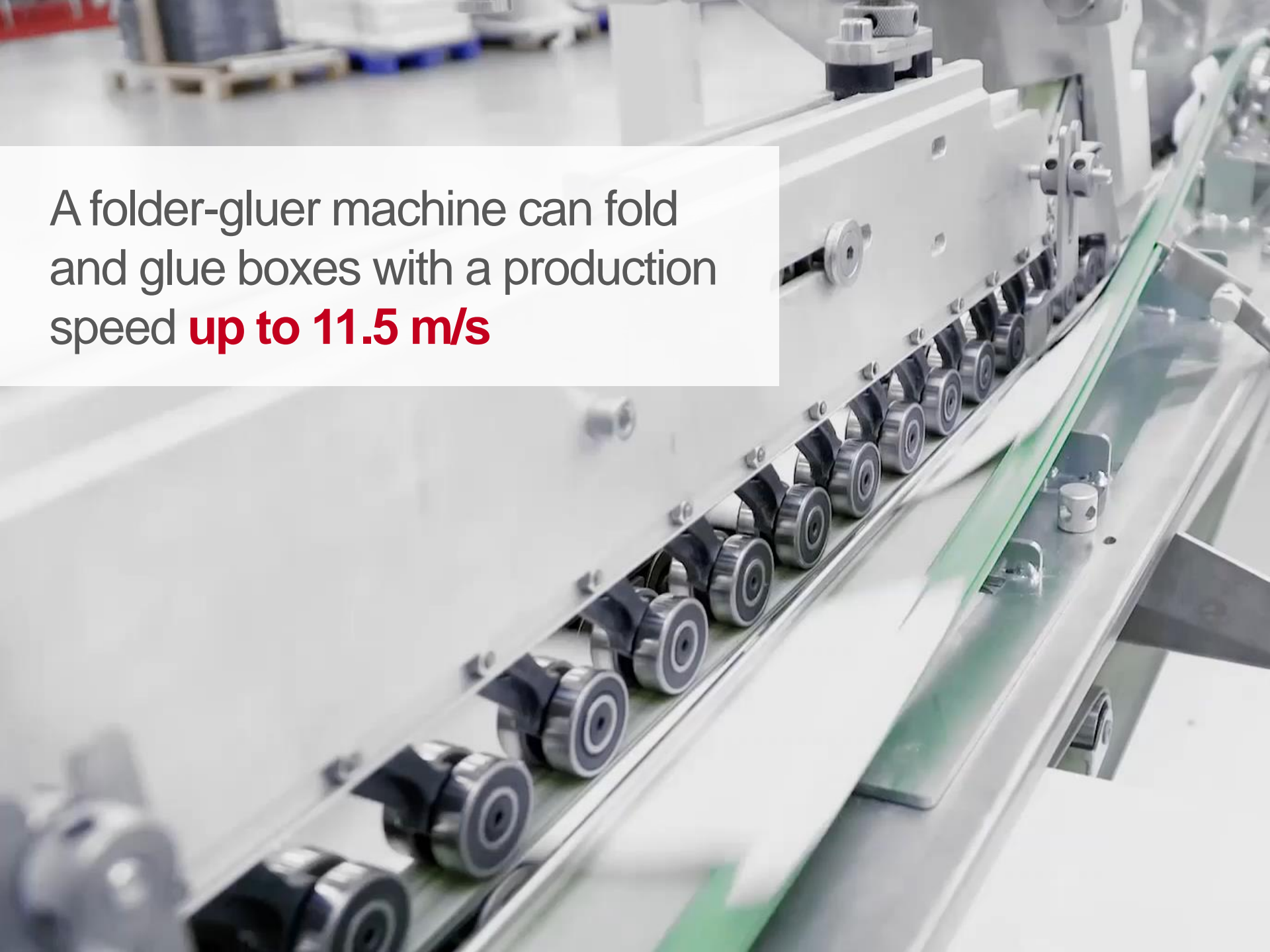


To achieve the highest **productivity** and ensure the best **quality**, integration of digital technologies such as **machine vision control**, **IoT** and **closed loop systems** is key

# PRACTICAL CASE



A folder-gluer machine can fold and glue boxes with a production speed **up to 11.5 m/s**







COLOR

POSITION



QUALITY

BOBST



FOIL

TEXT







**0.02** mm<sup>2</sup>



**0.04** sec



**1.7** Gigabyte/sec

# CHALLENGE



DEFECT

DETECTION

ALGORITHM

Develop an algorithm to rapidly **identify defectives boxes** in a 10.000 picture database

Find **reliable solutions** to distinguish real defects from natural process variations (position, dust, crease, etc.)

Uncover our **motto** based on the identified defects





# PROCESS

# VARIATION



# DEFECT



# DEFECT





# DEVELOPMENT ENVIRONMENT



Each team will get **1 USB 3.0 stick** with the box pictures to process



Any **library** you can find can be used



Our **server** is at your disposal to **benchmark** your algorithm (Linux or Windows Server)



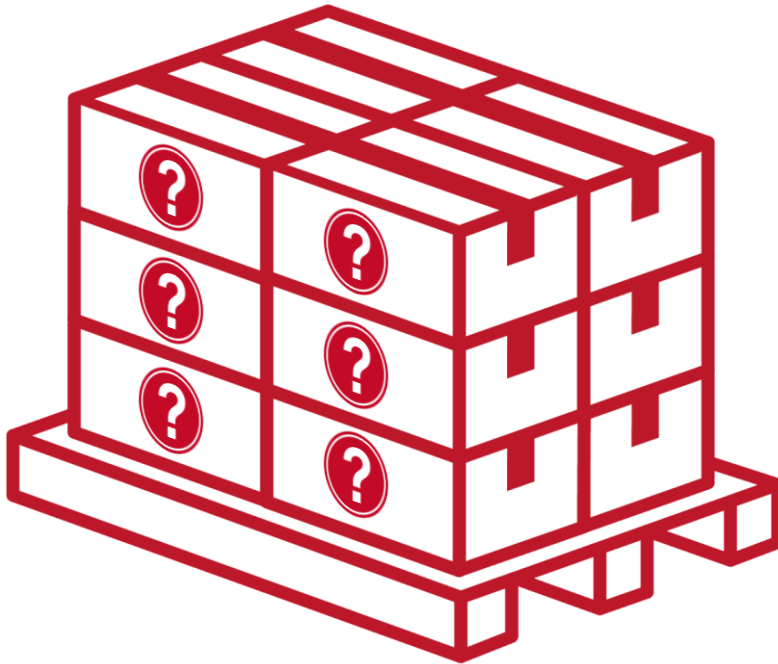
Our engineer team will take shifts to **support you night and day**



Judgment criteria are  
algorithm **reliability**,  
process **speed** and the  
**creativity** of your strategy



# REWARD



You will  
not be  
disappointed !



# LAUZHACK TEAM







**Grégory**

Expert Software Engineer  
EPFL Alumni



**Charly**

Expert Software Engineer



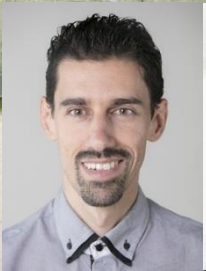
**Pablo**

Expert Vision Engineer  
EPFL Alumni



**Louis-Séverin**

Expert Vision Engineer  
EPFL Alumni



**Mario**

Vision & Software Manager  
EPFL Alumni



**Florian**

Real-time Software  
Manager



**Alexandre**

Head of R&D CORES  
EPFL Alumni



**Léonard**

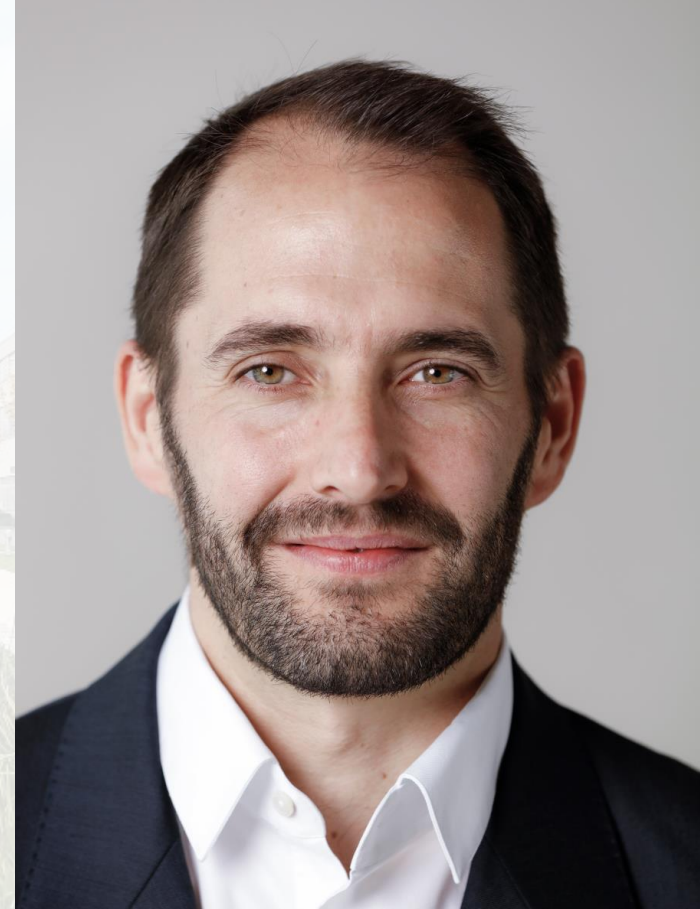
Project Manager  
EPFL Alumni



Open position, Master Thesis,  
Internship, company culture, career  
path and more

Take the **opportunity** to have an  
open **conversation** with **Xavier**,  
our **HR Business Partner**

**Saturday 1 pm – 4 pm**  
**BOBST booth**



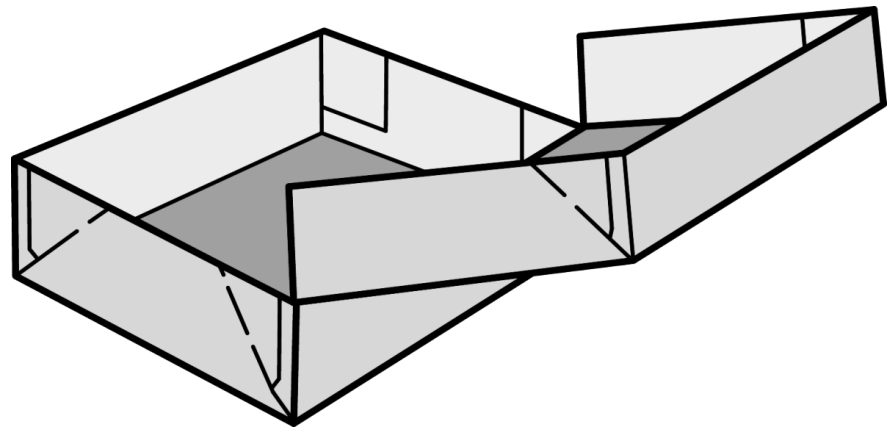


# MINI-EVENT

11 pm

Come try to **fold**  
**and glues** boxes  
as fast as our  
MASTERFOLD

**Prize to win !**





We look forward to spending  
a **great** week-end with you !

THINK OUT

OF THE

BOBST