



SPECIFIC PROCESSES IN EACH TERMINAL

HOW TO CUSTOMIZE AI WITH SCARCE DATA



ALLREAD



BASED IN BARCELONA

Founded in 2019

REGISTERED TECHNOLOGY

Al Computer Vision Software Benelux Office of Intellectual Property (BOIP)

CUSTOMERS IN +10 COUNTRIES

Spain, France, Italy, Portugal, Germany, Sweden, Bulgaria, Chile, Brazil, Mexico, Argentina.

25 TEAM MEMBERS

Experts in Cargo Logistics
Computer Vision and Deep Learning engineers.



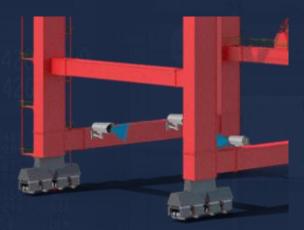
ARS[©] Road



ARS® Rail



ARS[©] Crane



LIGHT-WEIGHT ACCESS CONTROL

Highly Accurate

Low Hardware requirements

Fast Implementation

FROM LEGACY OCR TO THE BENEFITS OF DEEP LEARNING







RELY ON SOFTWARE, REDUCE HARDWARE



DETECTING STANDARD CODES AND OBJECTS











BIC CODES

UIC CODES

IMDG CODES

LICENSE PLATES

TWISTLOCKS

ETC...

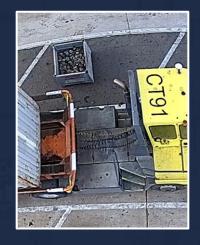
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NUMEROUS PROCESSES IN TERMINALS STILL COUNTRY, COMPANY OR MANUFACTURER SPECIFIC























Readings

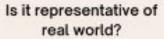
SEAL CODES

Show More >





I wonder whether
I can get away with
a small amount of
training data?











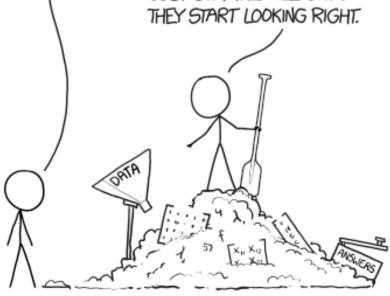
CUSTOMIZING AI WITH SCARCE DATA

THIS IS YOUR MACHINE LEARNING SYSTEM?

YUP! YOU POUR THE DATA INTO THIS BIG PILE OF LINEAR ALGEBRA, THEN COLLECT THE ANSWERS ON THE OTHER SIDE.

WHAT IF THE ANSWERS ARE WRONG?

JUST STIR THE PILE UNTIL



- > Data collection
- > Synthetic data generation
- > Data augmentation
- > Transfer learning
- > Domain adaptation



DATA GATHERING

GH400*RA-

驅

GGEU 001507

2205

DATA SYNTHETISATION



IC 81

9ER1

CEGU 570918 5

265P



2,9m 9'6" IIC 81





DATA AUGMENTATION

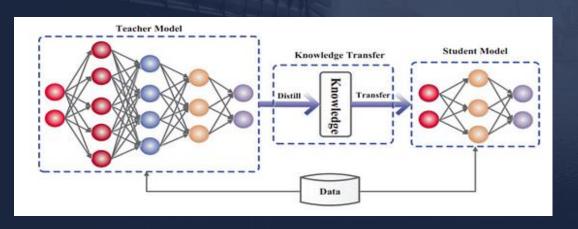




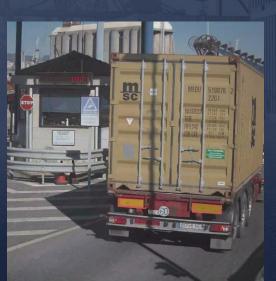


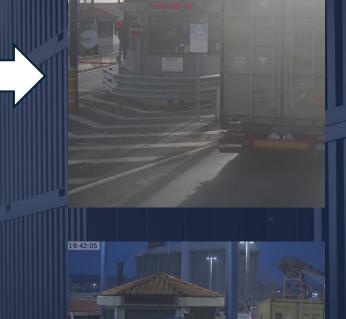


TRANSFER LEARNING & DOMAIN ADAPTATION















CASE STUDY To



What: Automate and control inbound and outbound wagons by digitizing the identification numbers.

Goal: improve the efficiency of the wagon unloading process.

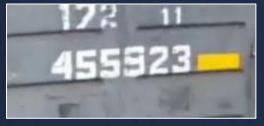


Integration with existing systems to register and identify in real time the wagons identification number along with their order and weight of the dynamic scale.

Challenge:

No "off the shelf" solution for the **specific grain** wagon codes in T6.



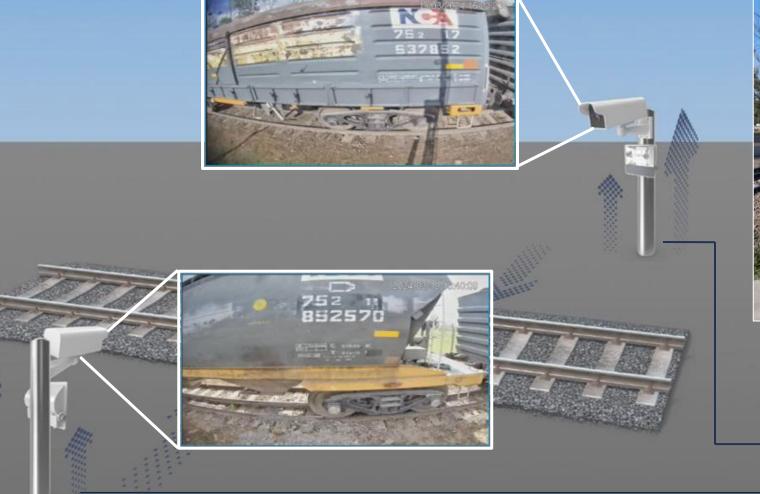








MINIMALISTIC INFRASTRUCTURE





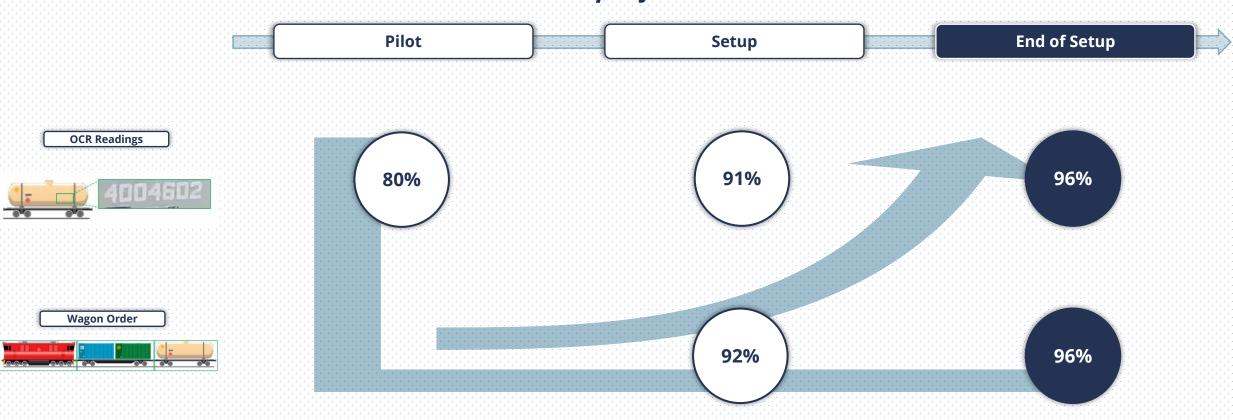


Information Classification: General



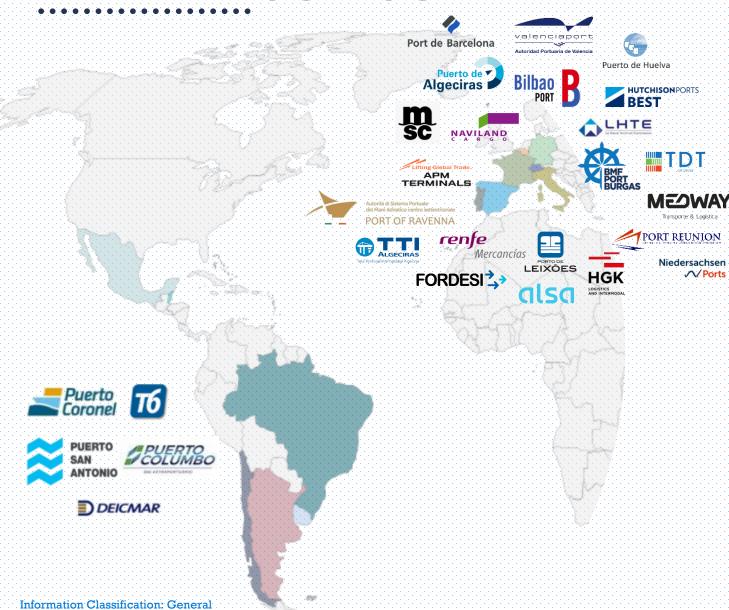
RESULTS

From Pilot to Setup in few months. Short Time to Value.





THEY TRUST US





30+ Active Clients

Port Authorities and Terminal Operators from 100.000 to 5.000.000 TEUs

70+ Completed Projects *For OCR Road, Rail and Cranes.*

Active in 10+ Countries in Europe and LATAM





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TOC AMERICAS

MEET US AT STAND A8