

Scalable AI: Boosting safety and efficiency at terminals of every size

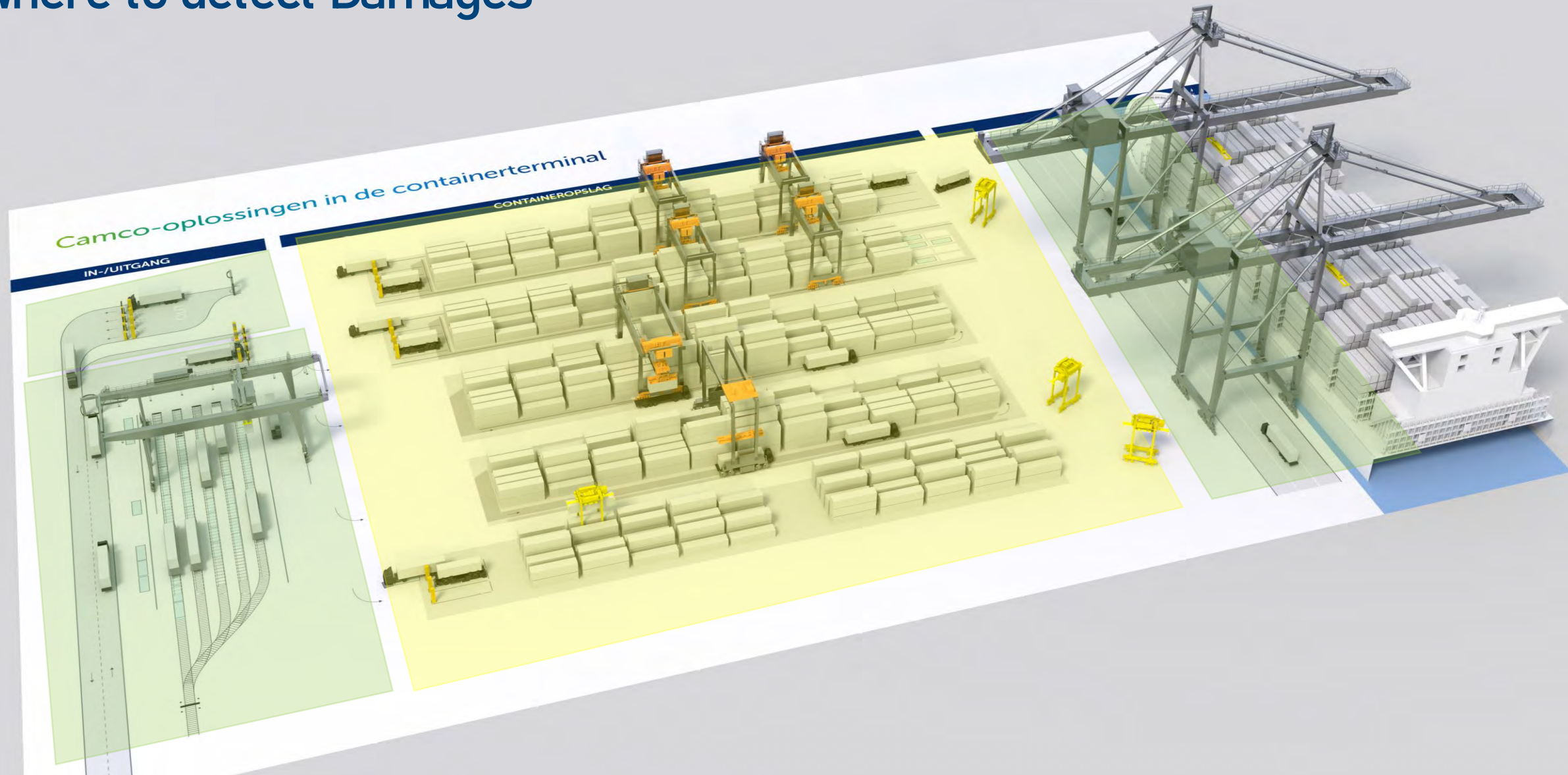


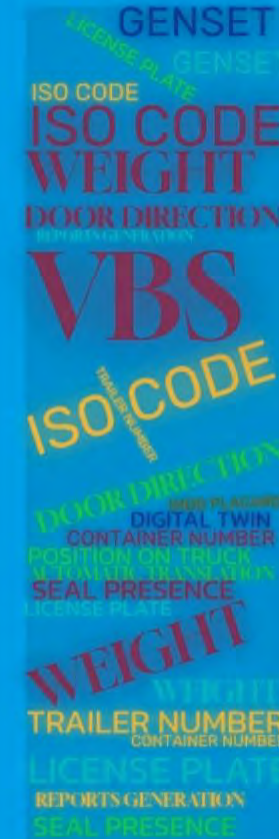
Rodrigo Garro
Salalah, Sep 2nd, 2025





Where to detect Damages

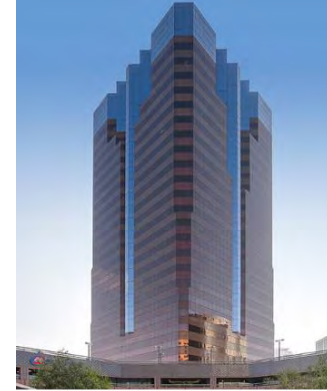




Camco Technologies



Private owned
Global presence
24 years in terminal automation
Passion for technology
Industry innovator



Camco US
One World Trade Center
Long Beach



Camco Middle East FZE
JAFZA ONE Tower – Building A



**CAMCO
TECHNOLOGIES
AUSTRALIA PTY LTD**



Camco China
Shanghai



A unique combination of four business units:

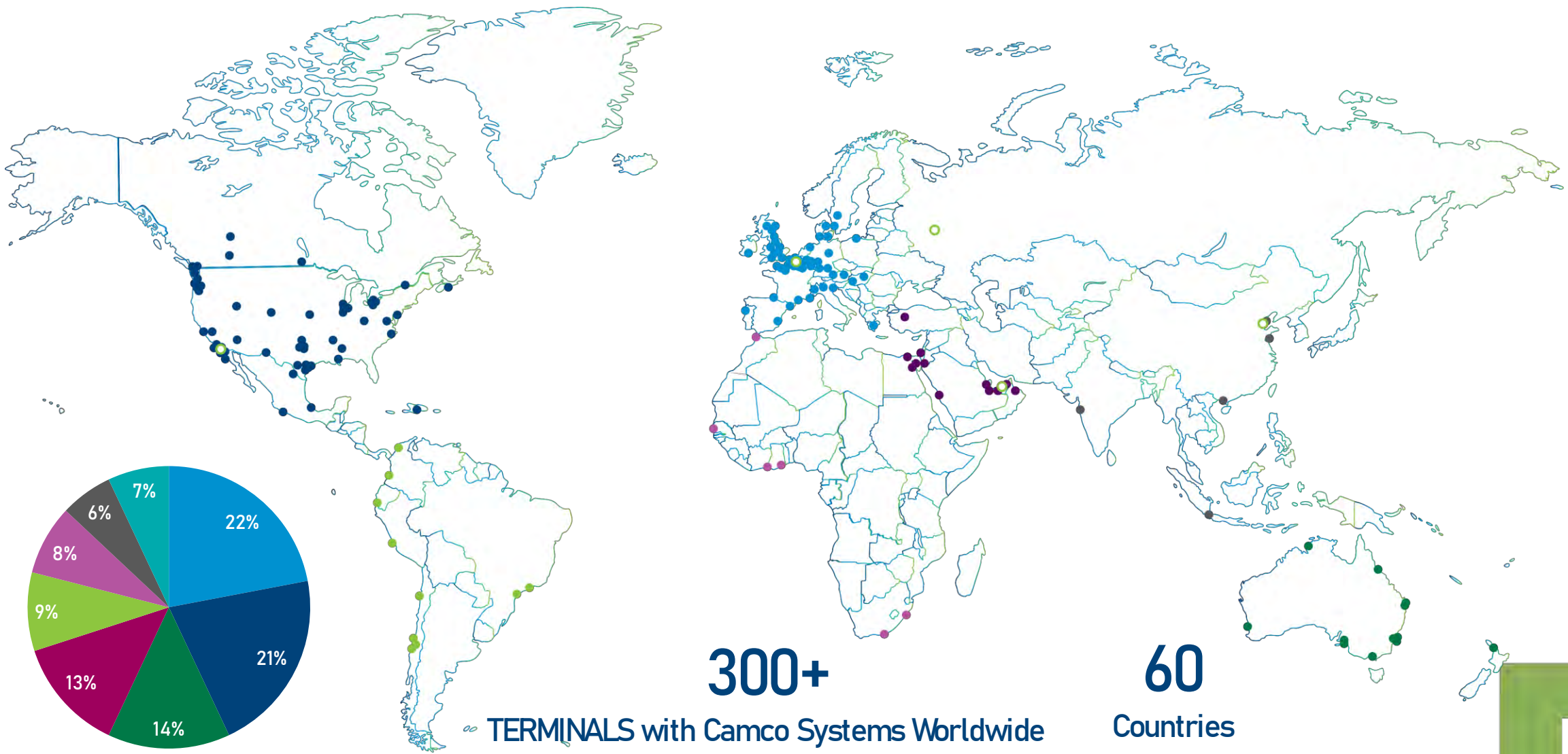
- Product Development
- Production Factory
- Project Factory
- Services Factory



R&D + Manufacturing capabilities



Global – Worldwide Presence



300+

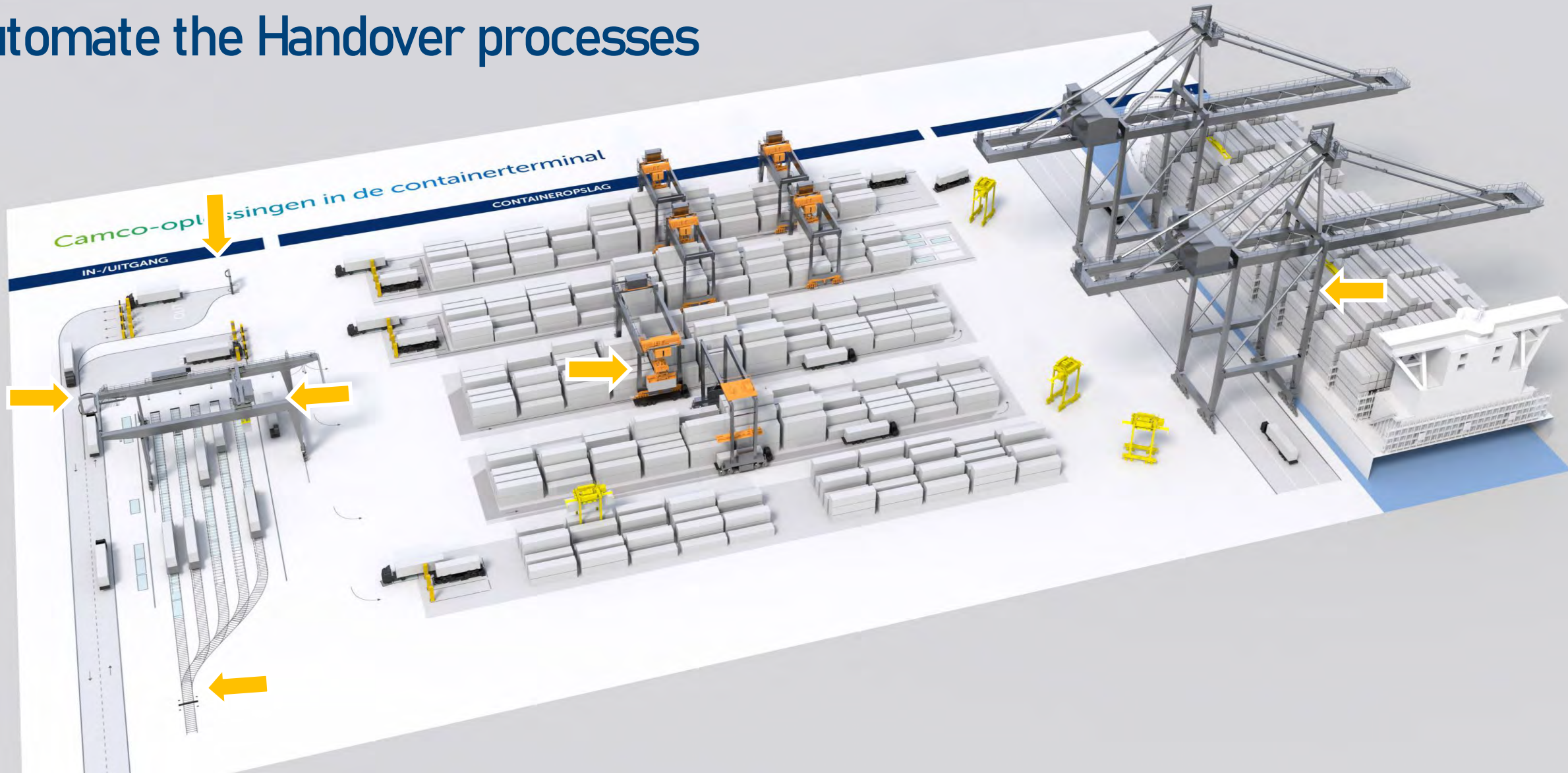
TERMINALS with Camco Systems Worldwide

60

Countries

Vision & location technology-based solutions

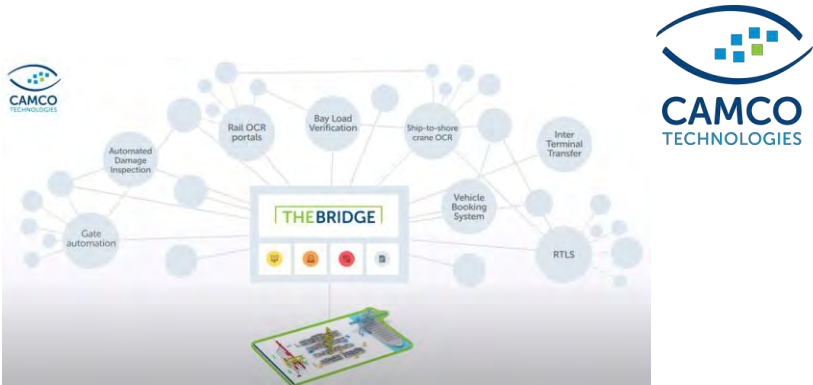
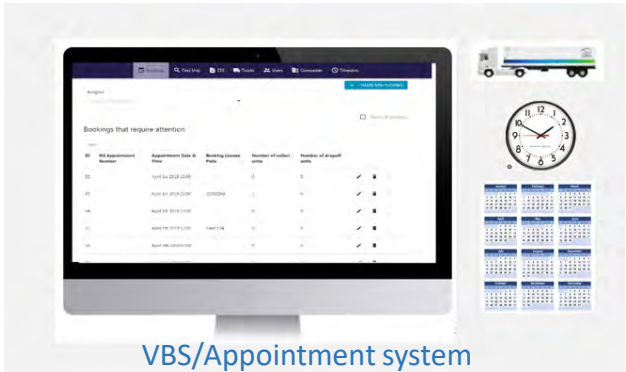
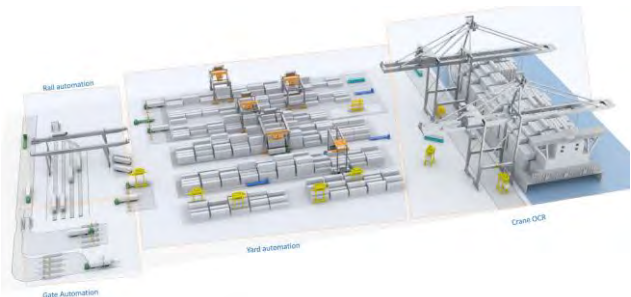
Automate the Handover processes



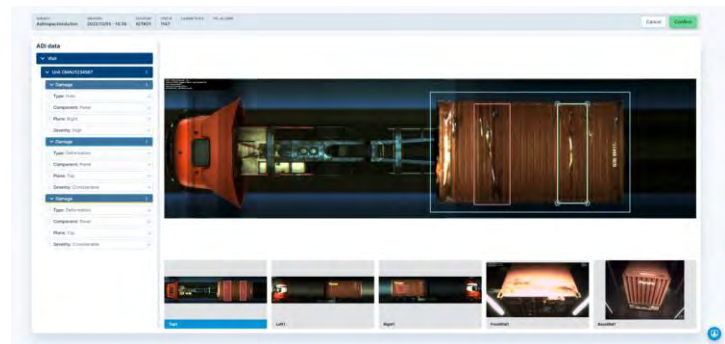
CONTAINER TERMINAL AUTOMATION



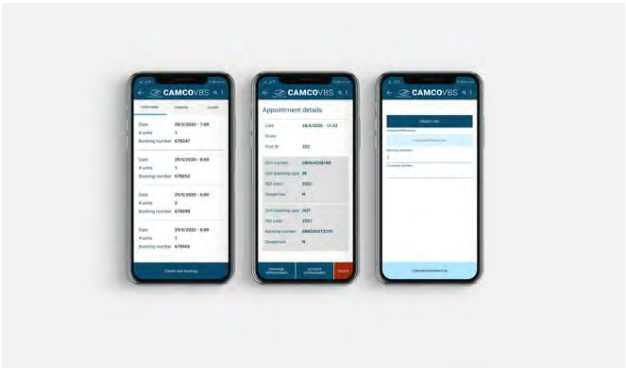
From products to software solutions



THE BRIDGE



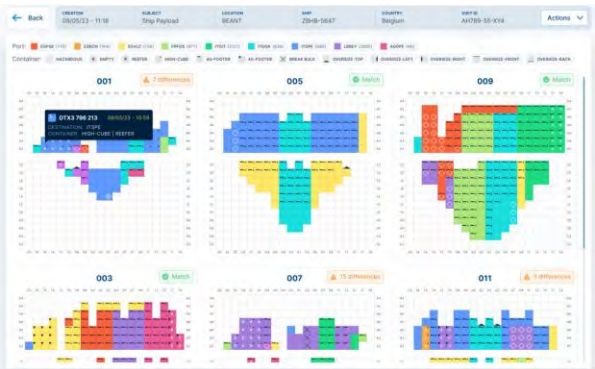
Automatic damage inspection



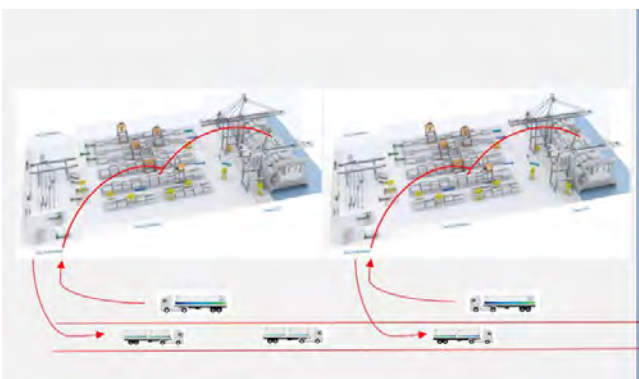
VBS Truck app



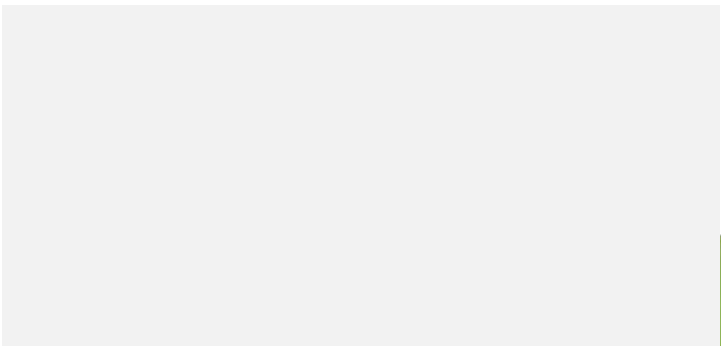
Real Time Digital Twin



BLV Bay Load Verification

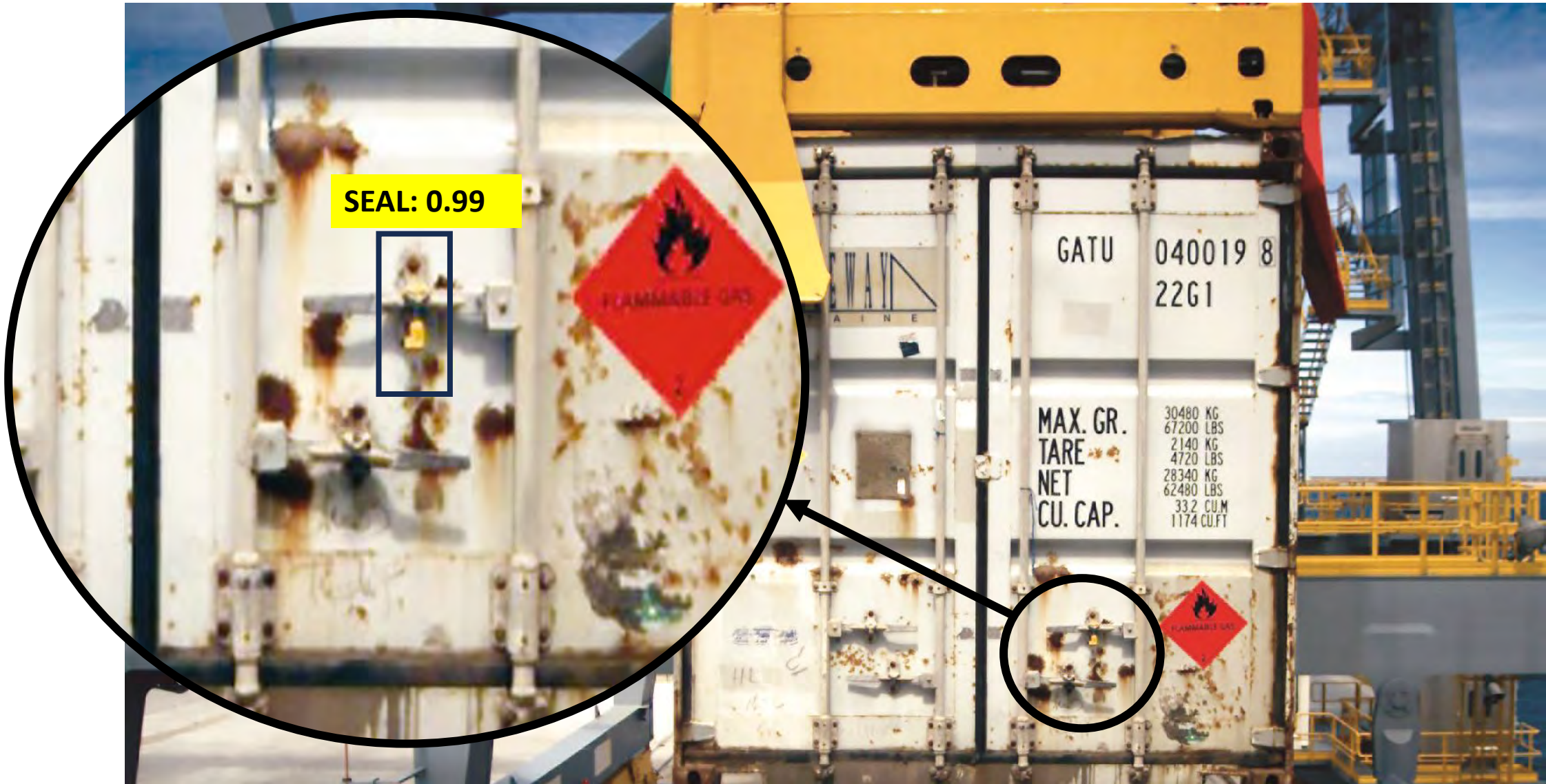


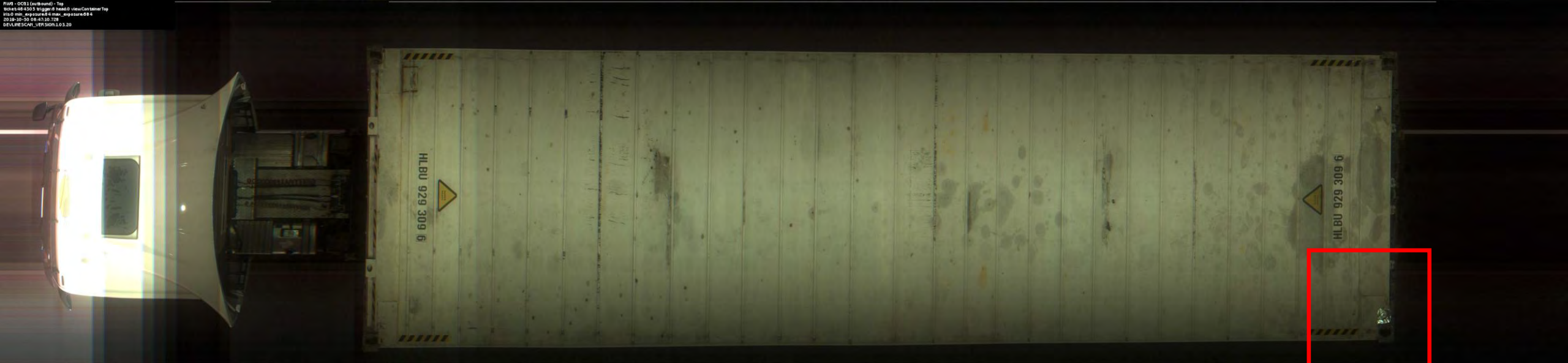
ITT Inter Terminal Transfer



More to come

What about AI in this story?







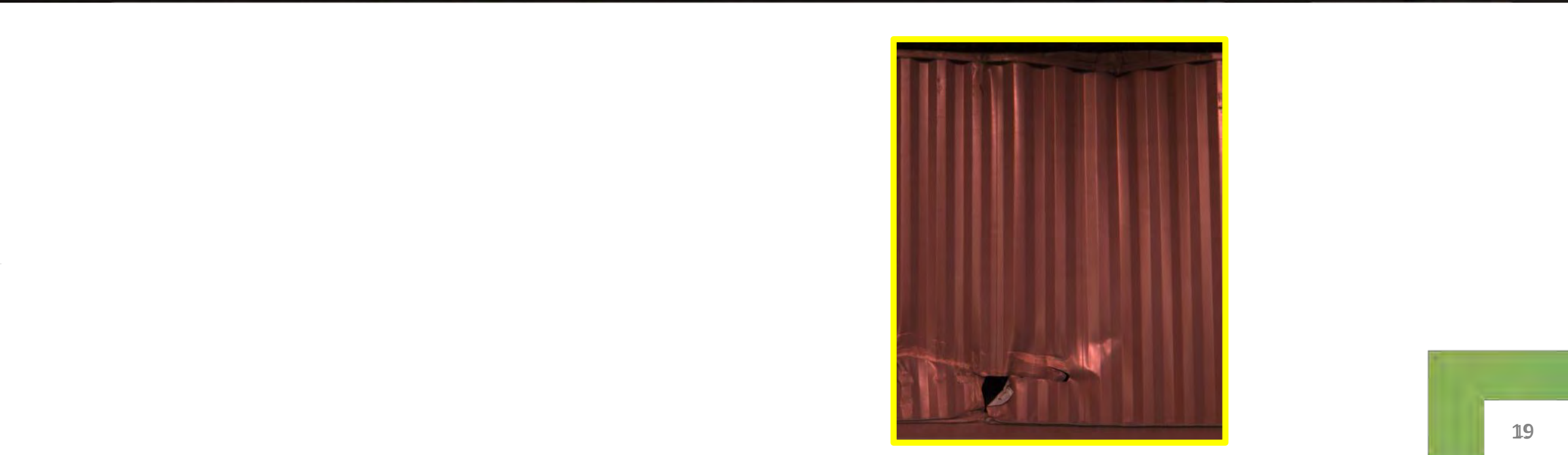
Whamshen-OC3 (outbound)-Right
Shot:15612 Image:3 Head:0 View:ContainerRight
iso:0 min_exposure:101 max_exposure:400
2020-09-01 14:03:14.028
DEVILRESCH_VERSI0N1.02.77

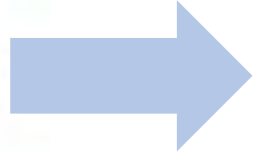




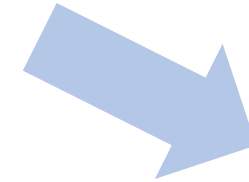
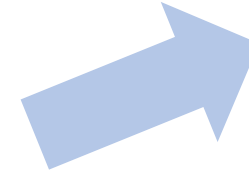
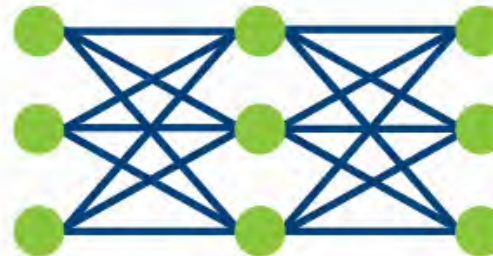
Willemsheven - OCS (outbound) - Right
Shot: 35813 Bigger: 0 head: view: containerRight
iso: 0 max_exposure: 0.1 max_exposure: 374
2018-04-03 12:22:03.096
DEVILSCAT_VERSION: 1.0.2.77



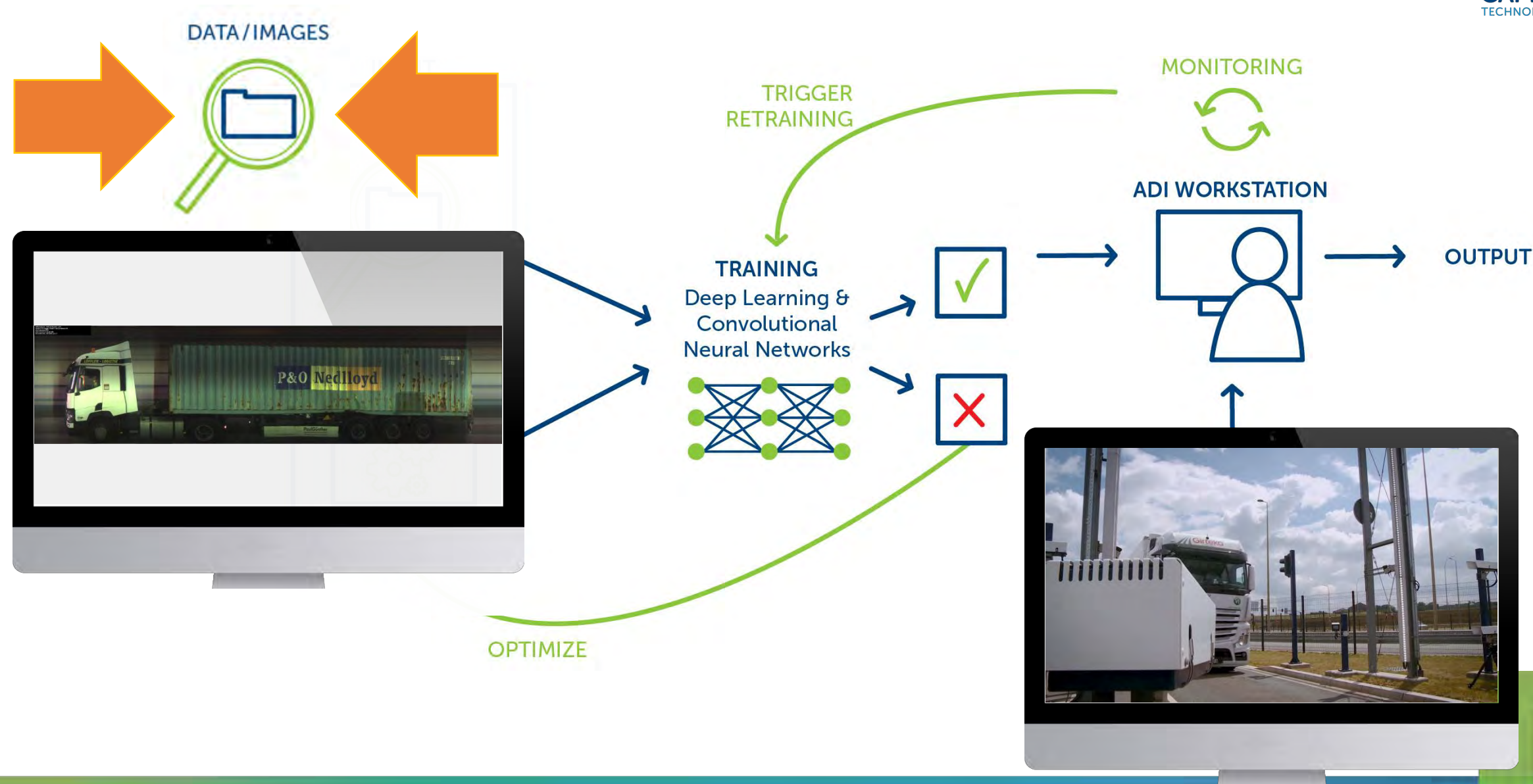




TRAINING
Deep Learning &
Convolutional
Neural Networks



AI Techniques: Deep learning



DATA / IMAGES



300+

TERMINALS with Camco Systems Worldwide

60

Countries

+200.000 TEUS / day

AI Techniques: USE AI to generate damaged containers



“Generate a realistic maritime container, as real as possible, complying with ISO 668 and ISO 6346 for the international codes. The container must have some damages. No background”



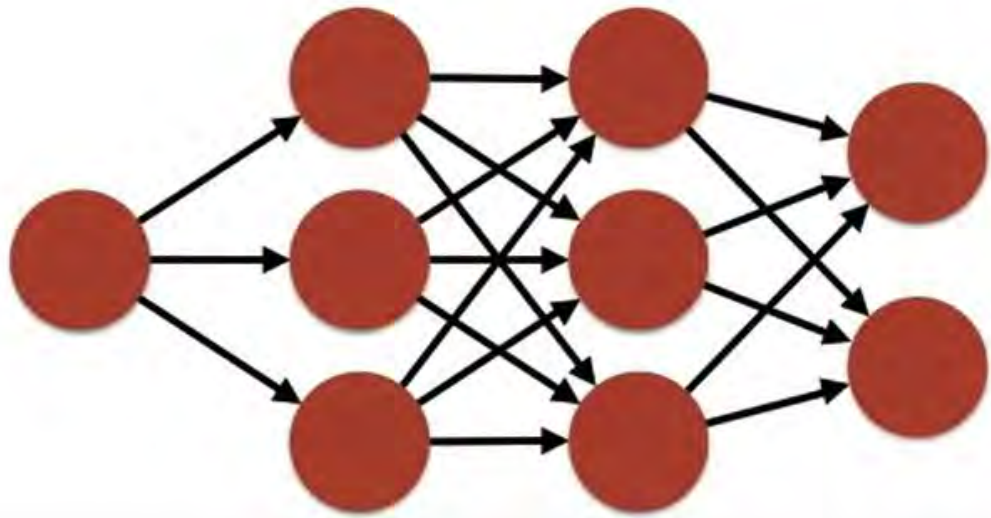
AI Techniques: USE AI to generate damaged containers



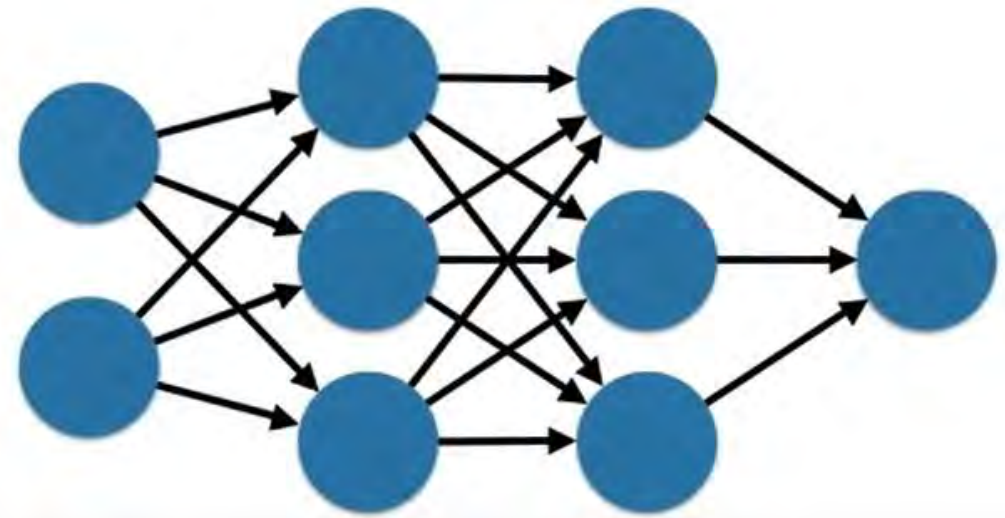
“Generate a realistic maritime container, complying with ISO 668 and ISO 6346 for the international codes. The container has to have some damages. No background”



AI Techniques: Generative Adversarial Networks (GAN)



Generator



Discriminator

AI Techniques: Generative Adversarial Networks (GAN)



Generator



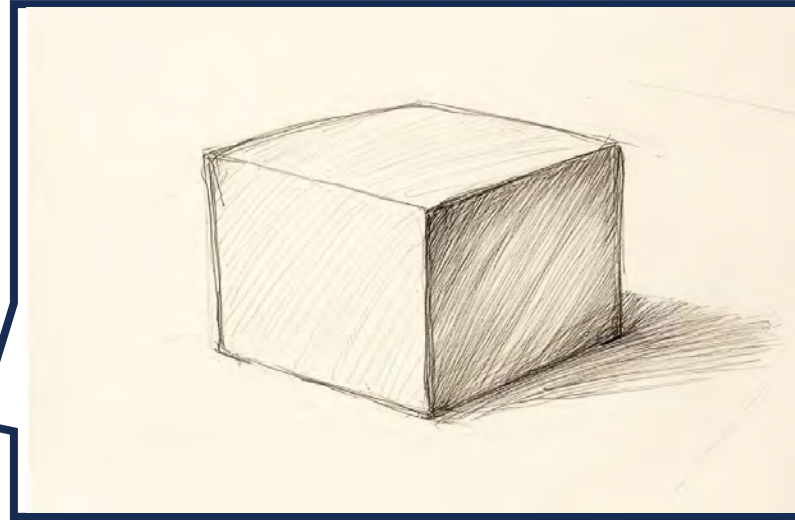
Discriminator

AI Techniques: Generative Adversarial Networks (GAN)

LEVEL
UP



Generator



Discriminator

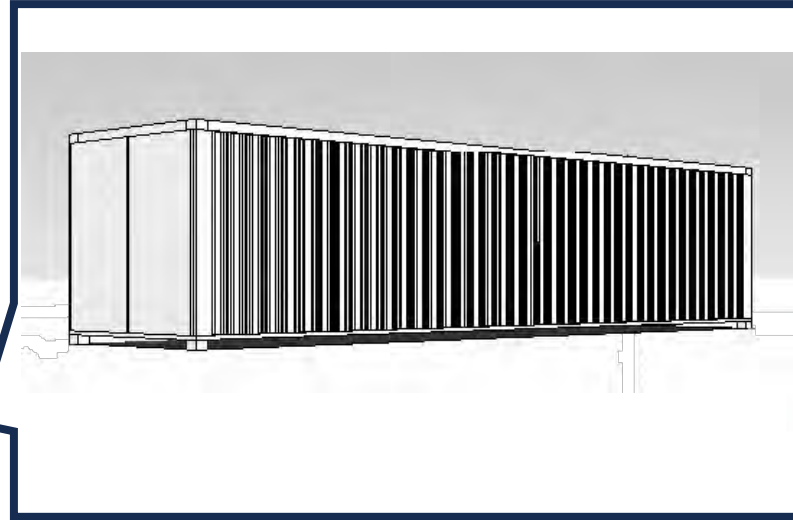
...
FALSE!

AI Techniques: Generative Adversarial Networks (GAN)

LEVEL
UP



Generator



Discriminator

...
FALSE!

AI Techniques: Generative Adversarial Networks (GAN)

LEVEL
UP



Generator



Discriminator

...
FALSE!

AI Techniques: Generative Adversarial Networks (GAN)

LEVEL
UP



Generator



Discriminator

...
FALSE?

AI Techniques: Generative Adversarial Networks (GAN)

HAHA!



Generator



Discriminator

...
TRUE?

AI Techniques: Generative Adversarial Networks (GAN)



Generator



Discriminator

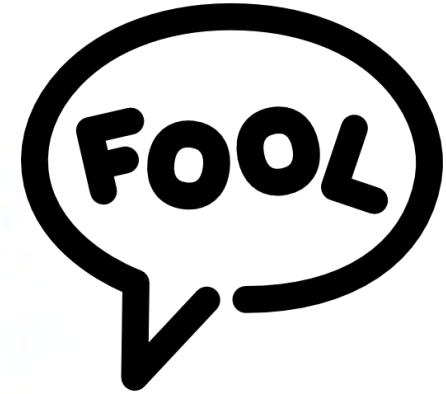
AI Techniques: Generative Adversarial Networks (GAN)



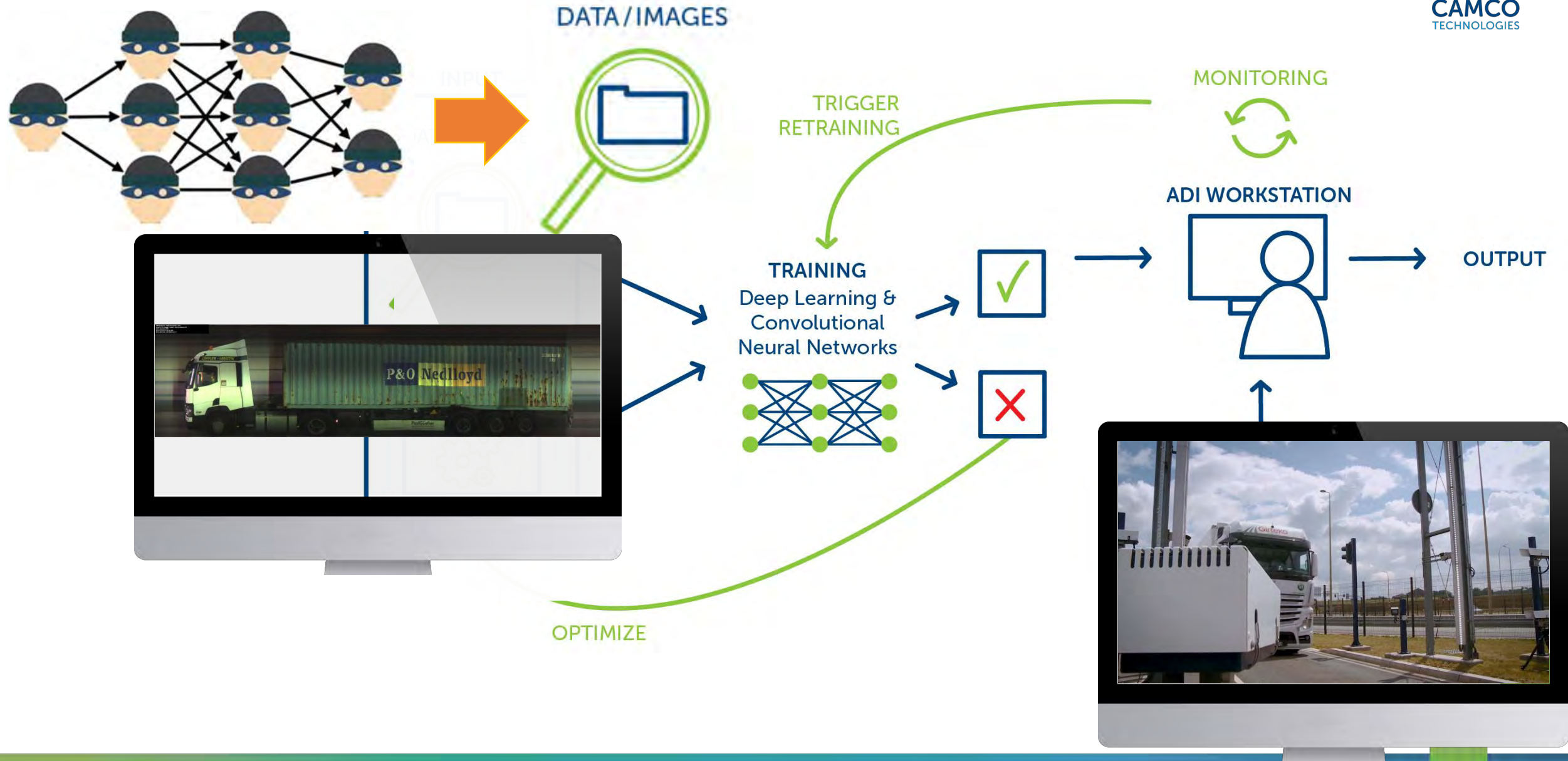
Generator



Discriminator



AI Techniques: Deep learning



Thank you!

