

C-BORD Final Public Workshop

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Rotterdam NL

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UC FULLY AUTOMATED SEA PORT

WP 9

Micha Slegt Dutch Customs Administration

CONTENT

BUILD-UP AND PREPARATION
SOFTWARE PREPARATION
X-RAY DEMONSTRATION

FIELD VALIDATION PROTOCOL (INCLUDING LICENSE APPLICATION, UPDATES AND RISK ASSESSMENT)

FIELD VALIDATION



BUILD-UP

- Preparation of simulants with correct atomic ratios started in 2017
- Partial transformation of operational site started September 3rd 2018
- Full suite of C-BORD technologies installed
- WiFi connection between WPs established
- Central software platform installed











FIELD VALIDATION PROTOCOL

- Protocol encompassing 54 experiments developed and updated
 - 4 types of cargo, threat positions at 2 depths, in 10 ft containers, 2 trucks
 - Simulants of bulk threat materials
 - Minute amounts of threat materials injected in the gas phase
- License granted for controlled experiments using non-intrusive neutron inspection
- Risk assessment (feedback from review to be processed)

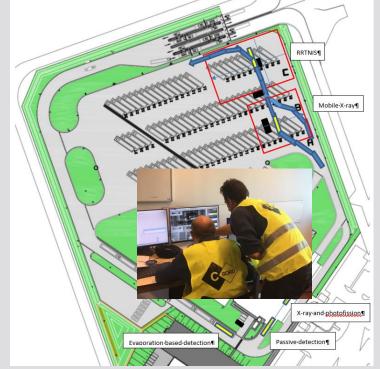


FIELD VALIDATION PROTOCOL

- Control street set-up
- Images and interpreted raw data sent to central platform (WP7)
- Customs officers involved in the field validation interviewed (WP8)







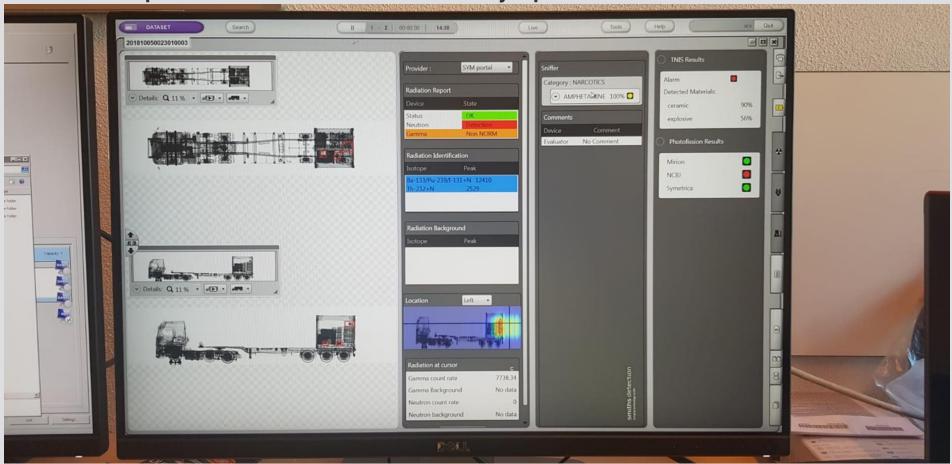






DATA COLLECTION

■ All WPs reported to the central "Daisy" platform





PRELIMINARY RESULTS

- Completion of all experiments + 12 commercial containers (1st line only)
- Large variation in technology readiness
- Useful combinations of technologies demonstrated, both in real life and in model
- Presentation of combined results on one platform promising
- Large interest of colleagues in the additional information that C-BORD is bringing



OUTLOOK

- Wider variety of technologies will be applied
- Coherent, integrated use of technologies
- Artificial intelligence assisted learning from results
- External data will be added to the technology output
- Reduce false positives AND false negatives
- Automated interpretation of technology output
- An highly innovative Customs administration



THANK YOU



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