SHUTTLE OMC EVENT Roissy, France, January 30th – 31st, 2019





A European Toolkit for Trace analysis

S. Berkani

IRCGN - Forensic Science Laboratory of the French Gendarmerie, Pontoise, FRANCE







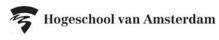














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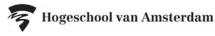














OUTLINE

CONTEXT

Case scenario
Current process for Trace analysis

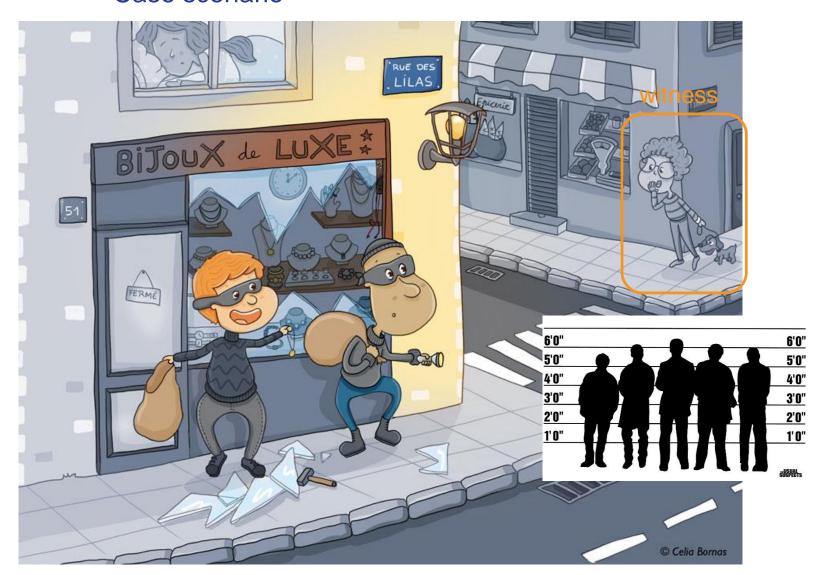
SHUTTLE

What is SHUTTLE Aims



CONTEXT

Case scenario





CONTEXT

Current process for Trace analysis

Tapes Lifts



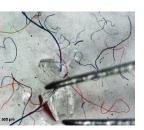
Optical Microscopy





Time consuming

isolation



damaging

Further analysis



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CONTEXT

Current process for Trace analysis



- → Need more objectivity
- → Need a method less hazardous for the traces

January 30th – 31st, 2019

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What is SHUTTLE?



Scientific

High-throughput

Unified

Toolkit for

Trace analysis by forensic

Laboratories in

Europe

Financed by the H2020 program, eight European forensics laboratories have teamed up to develop a **toolkit**, which will render more **objective** and **scientific** the trace analysis.





SHUTTLE

Aims

Tapes Lifts



Optimized tape that can be directly use with the toolkit.

Automated microscope



Acquire images of traces, do spectrometric color analysis as well as a number of illumination modes

Image processing



algorithms will process the images acquired and classify the different types of traces present

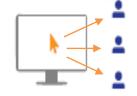
data acquired can be related to data acquired by other techniques

Database and search algorithms



search algorithms allow searches for similar samples in the database

Pattern recognition procedures





SHUTTLE

Aims



- → Make a powerful and versatile toolkit which solve the major issues in forensic sciences.
- → Improve the information exchange and the synergy between different criminal research laboratories to fight against international crime.

Project Management Office (ARTTIC) shuttle-sec09-arttic@eurtd.com

SHUTTLE project website: www.shuttle-pcp.eu





THANK YOU





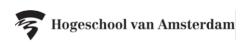












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