



Nederlands Forensisch Instituut
Ministerie van Veiligheid en Justitie

EU FP7 GIFT-CBRN

2014-2017

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Programme Manager CBRN

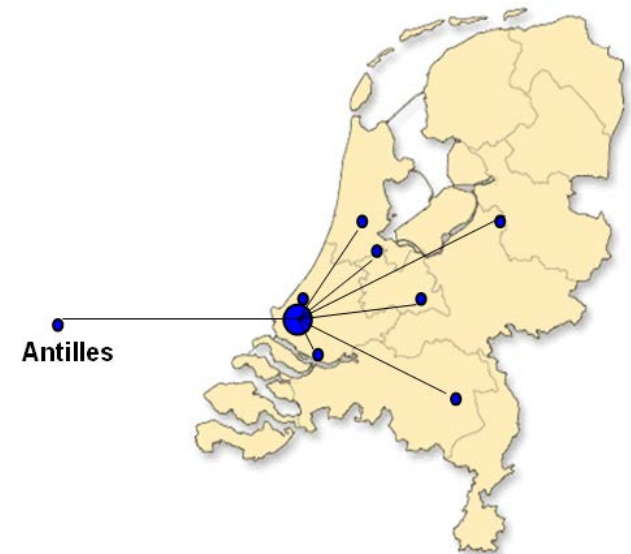
22 October 2014



Netherlands Forensic Institute



Agency
of the
Ministry
of
Justice



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NFI provides
high quality **forensic services**
with **state-of-the-art technology and science**
on behalf of **clients**





Locard's Exchange Principle

Wherever he steps,
whatever he touches,
whatever he leaves,
even unconsciously,
will serve as a silent witness against him.

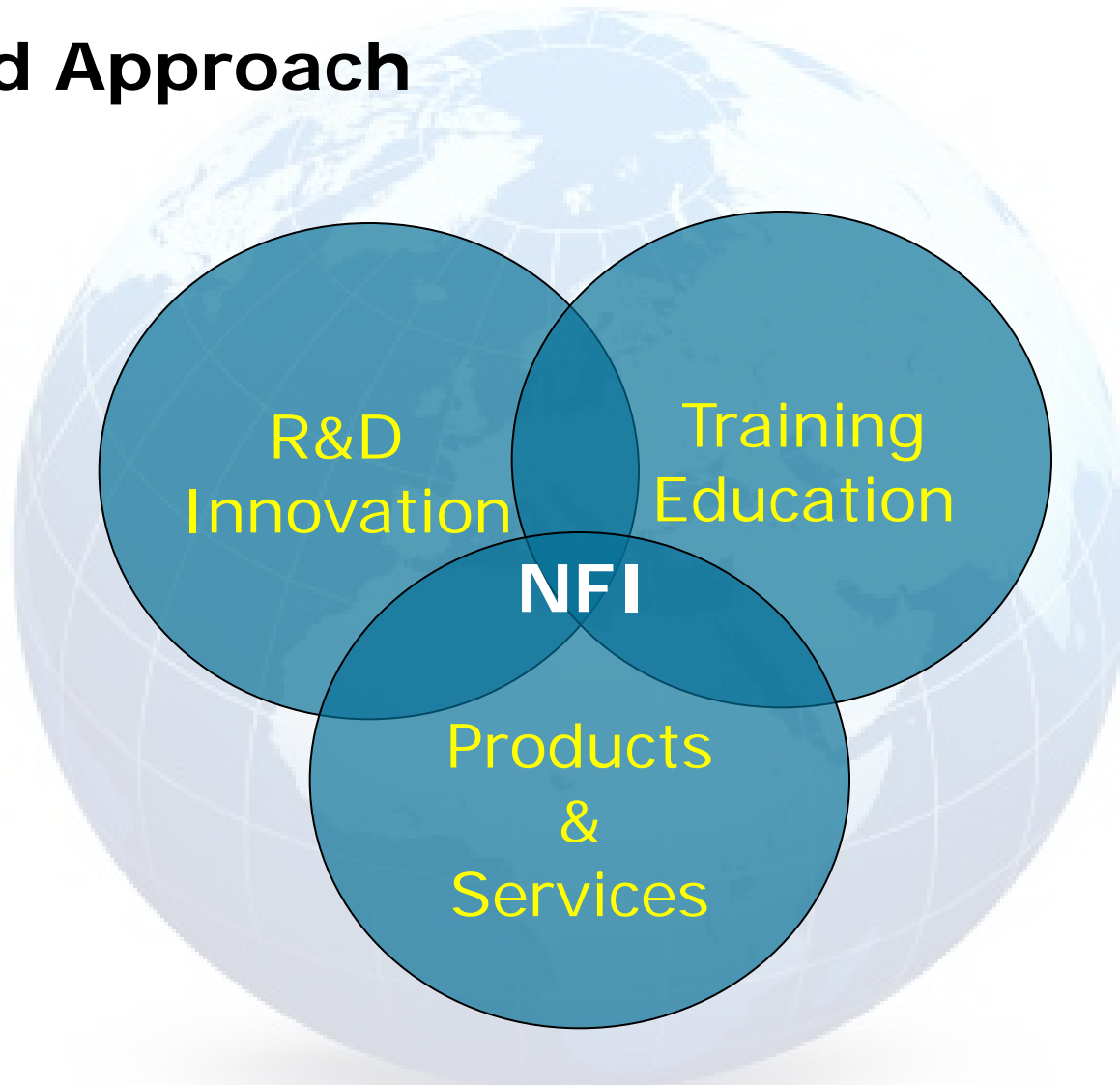


Physical evidence cannot be wrong,
it cannot perjure itself,
it cannot be wholly absent.

Dr. Edmond Locard (13 December 1877 – 4 May 1966)



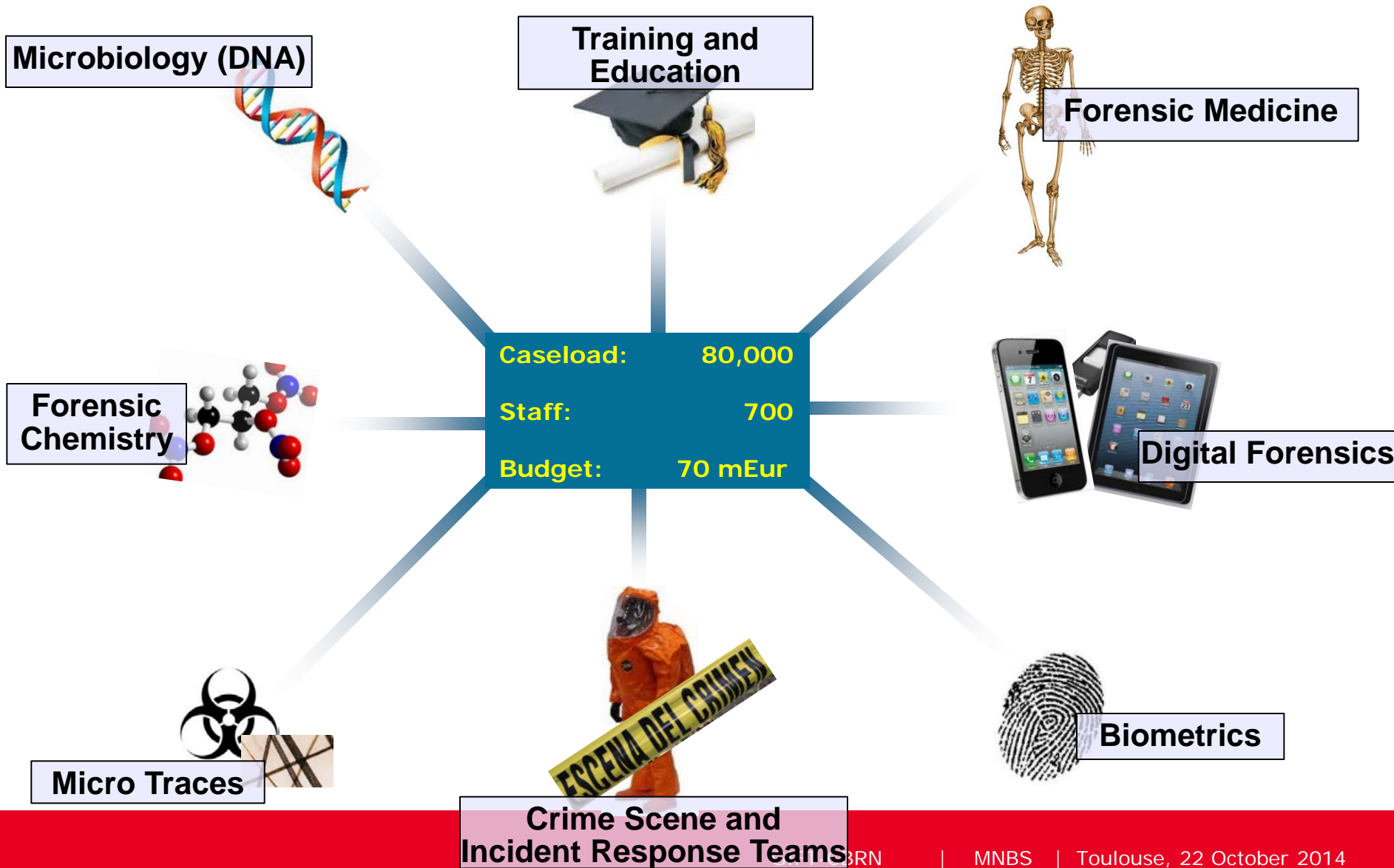
Integrated Approach



Main Characteristics



ISO 17025



Products and Tools



MTKII



Forensic Faraday Cage

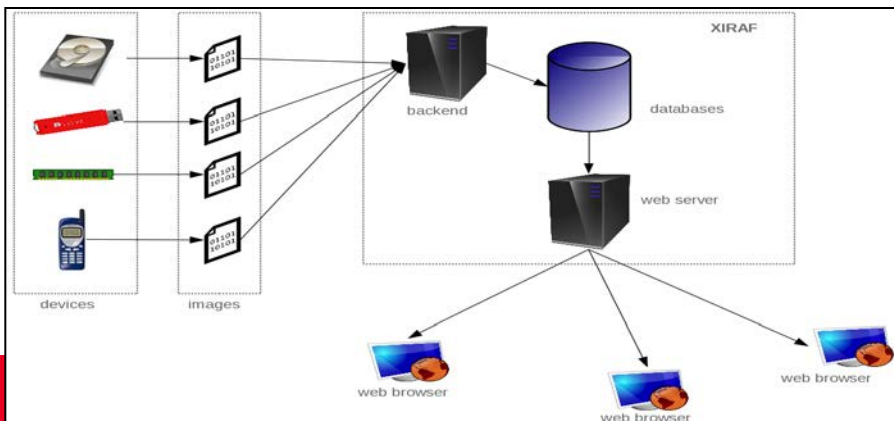
Products and Tools

Memory Toolkit II

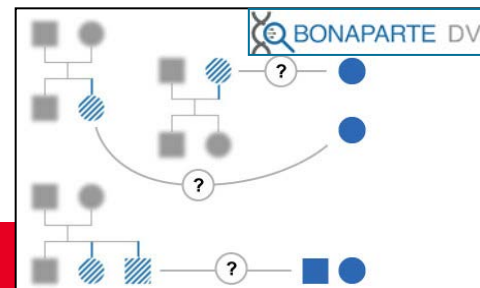
Forensic Faraday Cage

XIRAF

Bonaparte



XIRAF



Bonaparte

National Customers



Openbaar Ministerie



Defensie



Nationaal Coördinator
Terrorisbestrijding en Veiligheid
Ministerie van Veiligheid en Justitie



Koninklijke Marechaussee



Douane



Kansspelautoriteit



Sociale Inlichtingen- en
Opsporingsdienst
*Ministerie van Sociale Zaken en
Werkgelegenheid*



Immigratie- en Naturalisatiedienst
Ministerie van Justitie



FIOD
Belastingdienst



Worldwide Customers



Innovation Network



The map displays logos for numerous organizations across the globe, including:

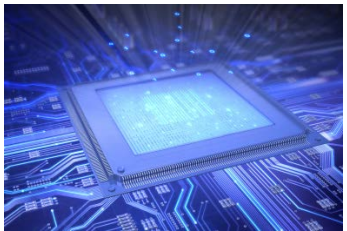
- North America:** Microsoft, NIJ (National Institute of Justice), NIST, WetStone (Allen Corporation of America), NWO.
- Europe:** e-semble, Eagle Vision, Philips (sense and simplicity), TNO, Kennis voor zaken, Noldus (Information Technology), FTS (Forensic Technical Solutions), CHES, Erasmus (Erasmus Universiteit Rotterdam), SMART Research BV, TU Delft (Delft University of Technology), NCIM, THALES, IAEA (International Atomic Energy Agency), Capgemini (Consulting, Technology, Outsourcing).
- Asia:** RIKEN, nesis, MSI Tokyo, HORIBA, KNPA (Korean National Police Agency), NFS (National Forensic Science), DNA (DNA Forensic Science), HSA.
- Other:** IFS.



Aerospace



Gaming Industry



IT

Microbiology



Health



CBRN forensics at the NFI

CBRN forensics R&D programme 2008-2013

Focus on:

Crime Scene Investigation

Conventional Forensic Investigation

CBRN Forensic Investigation

Disaster Victim Identification

Education/training/exercise curriculum



Crime Scene Investigation



What happened ?

Who did it ?



What agents are released?



Operational Calamity Team

24/7 national response at calamities
CBRNe international forensic response



Conventional forensics



Decontamination of exhibits

DNA-analysis

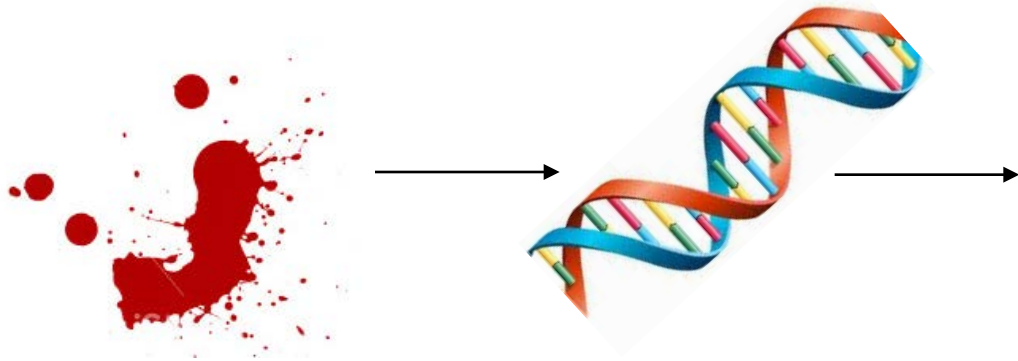
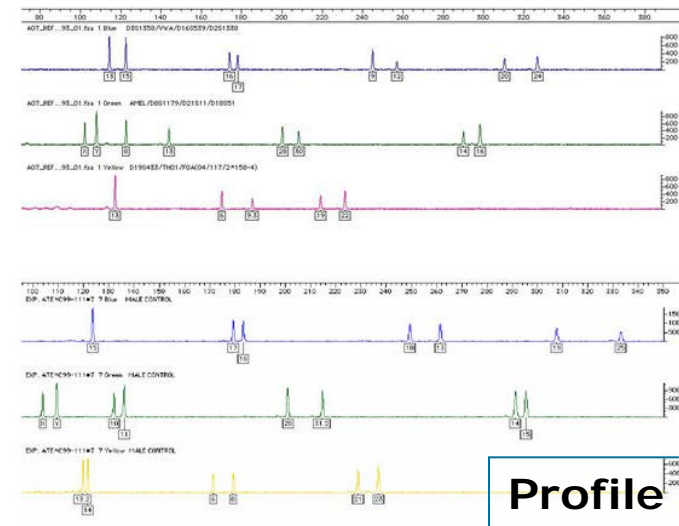
latent fingerprints

digital data carriers

toolmarks

....

Disaster Victim Identification



DVI



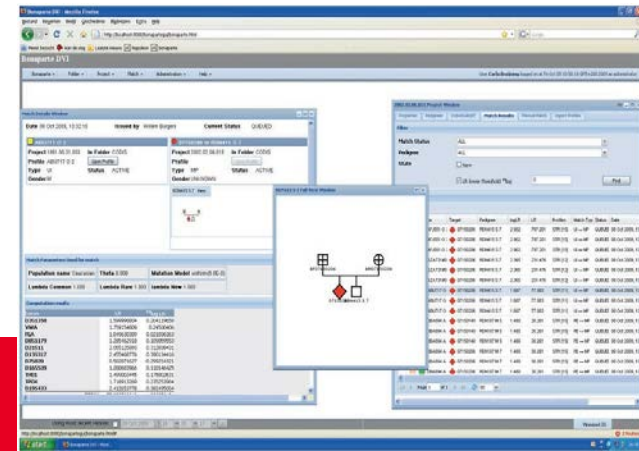
MH-17

Identification method for 500 victims

DNA-analysis

Anthropological methods.

use of pedigrees



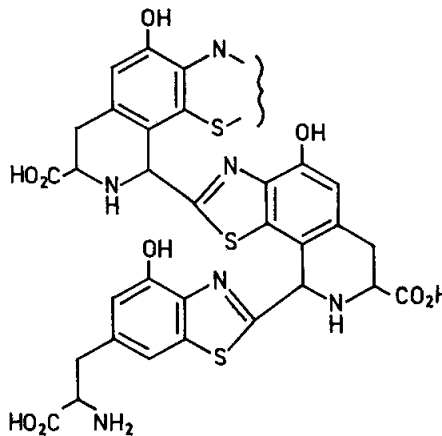


Chemical agents

Chemical Warfare agents
Toxic Industrial Chemicals
Explosives

Matrices:

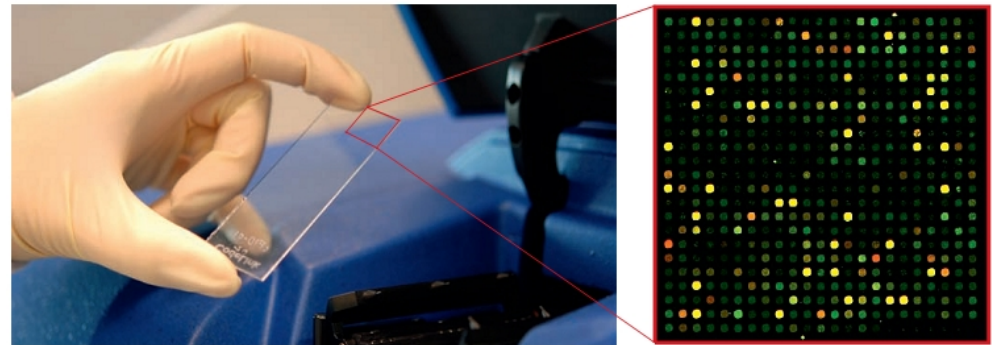
Human tissue and blood
Environmental samples
chemicals





Biological agents

Micro array screening
DNA sequencing
Bio moleculen (MS)





Call text

DG Enterprise and Industry

FP7 Topic SEC-2013.1.5-1

European toolbox, focusing on procedures, practices and guidelines for CBRN forensic aspects – Capability Project



FP7 GIFT forensic CBRN toolbox

Generic Integrated Forensic Toolbox

1 September 2014 – 31 August 2017

To develop:

- Procedures and protocols investigating CBRN crime scene
- On scene investigation methods (traditional forensic traces and identification CBRN agents)
- Traditional forensics on contaminated evidence
- Profiling CBRN agents
- Education, training and exercise curriculum related to the toolbox





Consortium

- NFI (NL) coordinator
- Tyndall University (IRL) co-coordinator

Partners

- TNO (NL)
- RIVM (NL)
- M2L (GB)
- Falcon (GB)
- Fera (GB)
- AWE (GB)
- STUK (SF)
- FOI (Sw)
- SKL (Sw)
- Analyzed IQ (IRL)
- NICC (B)
- RMA (B)
- Space Applications (B)
- JRC-ITU (EU)
- CEA (F)
- Eticas (ES)
- RAMEM (ES)
- LQC (ES)
- NanoBiz (Turkey)

CBRN forensics

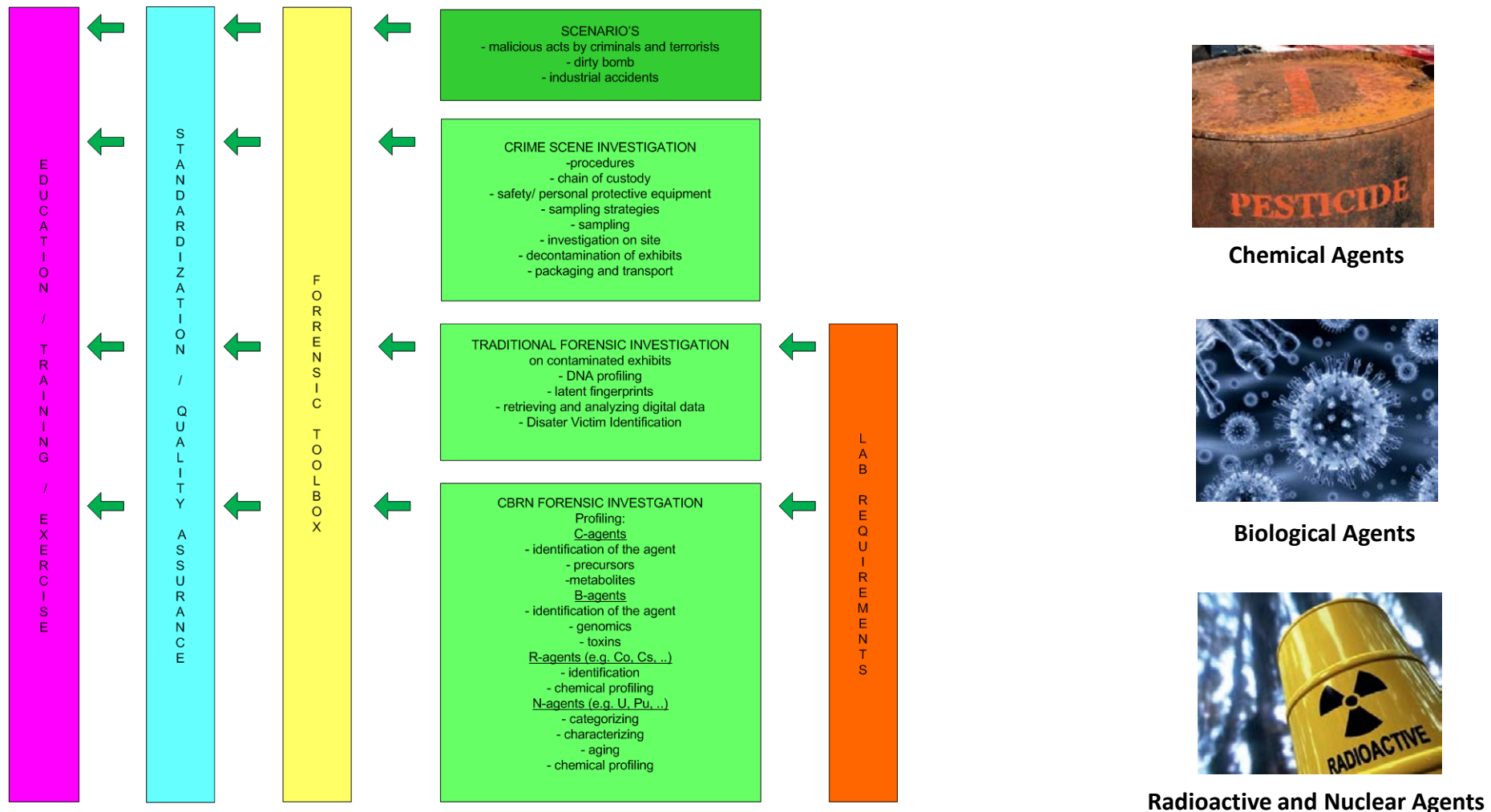


Figure 1. CBRN forensic investigation



Work Package Structure

WP1	Management	NFI
WP2	Scenario's	TNO
WP3	Crime Scene Investigation	NFI
WP4	Conventional Forensics	NFI
WP5	CBRN Forensics (signatures)	FOI
WP6	Toolbox	Tyndall
WP7	Validation, education/training	RIVM
WP8	Legal and ethical issues	Eticas
WP9	Dissemination	Falcon

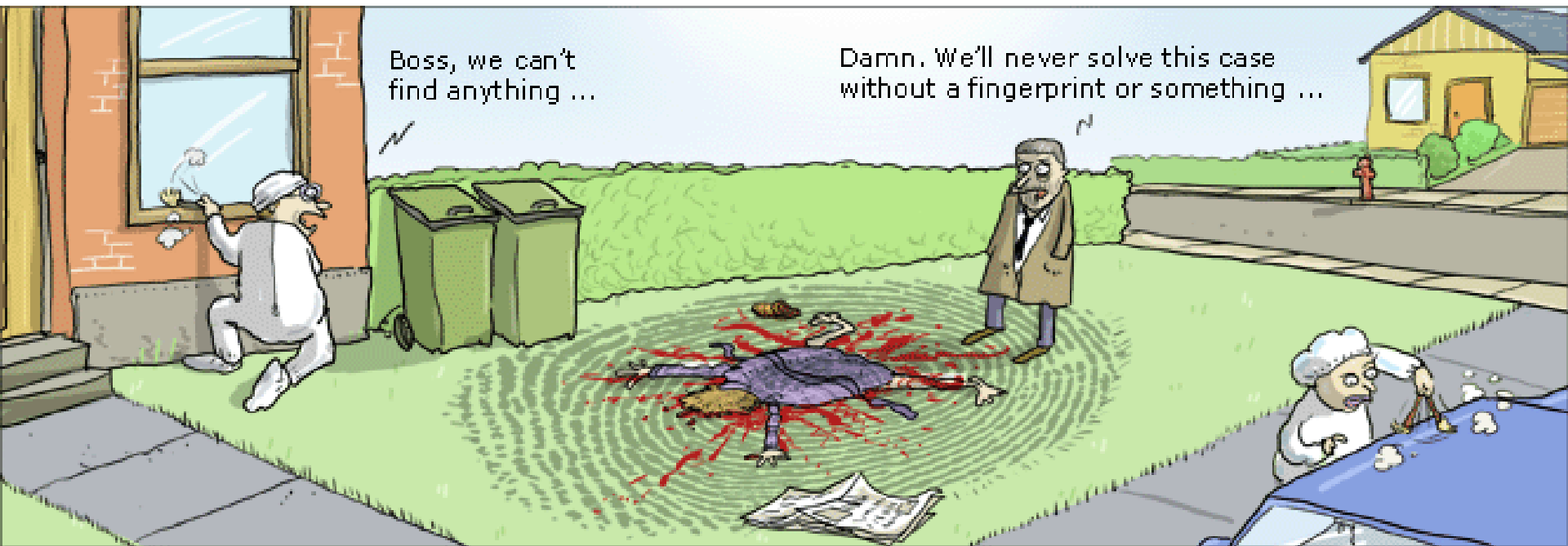


Business and exploitation model

- GIFT toolbox developed as a system, but single applications can be made available for the market
- enabling technology transfer to develop forensic applications
- enabling access to the forensic domain for industry and SME's
- developed methods of GIFT transformed into a generic application for forensic investigators



Questions?





FP7 GIFT CBRN forensic toolbox

for information see

www.forensicinstitute.nl

or contact

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