



## Safety Council

International Cooperation against Terrorism and the latest trends in technology

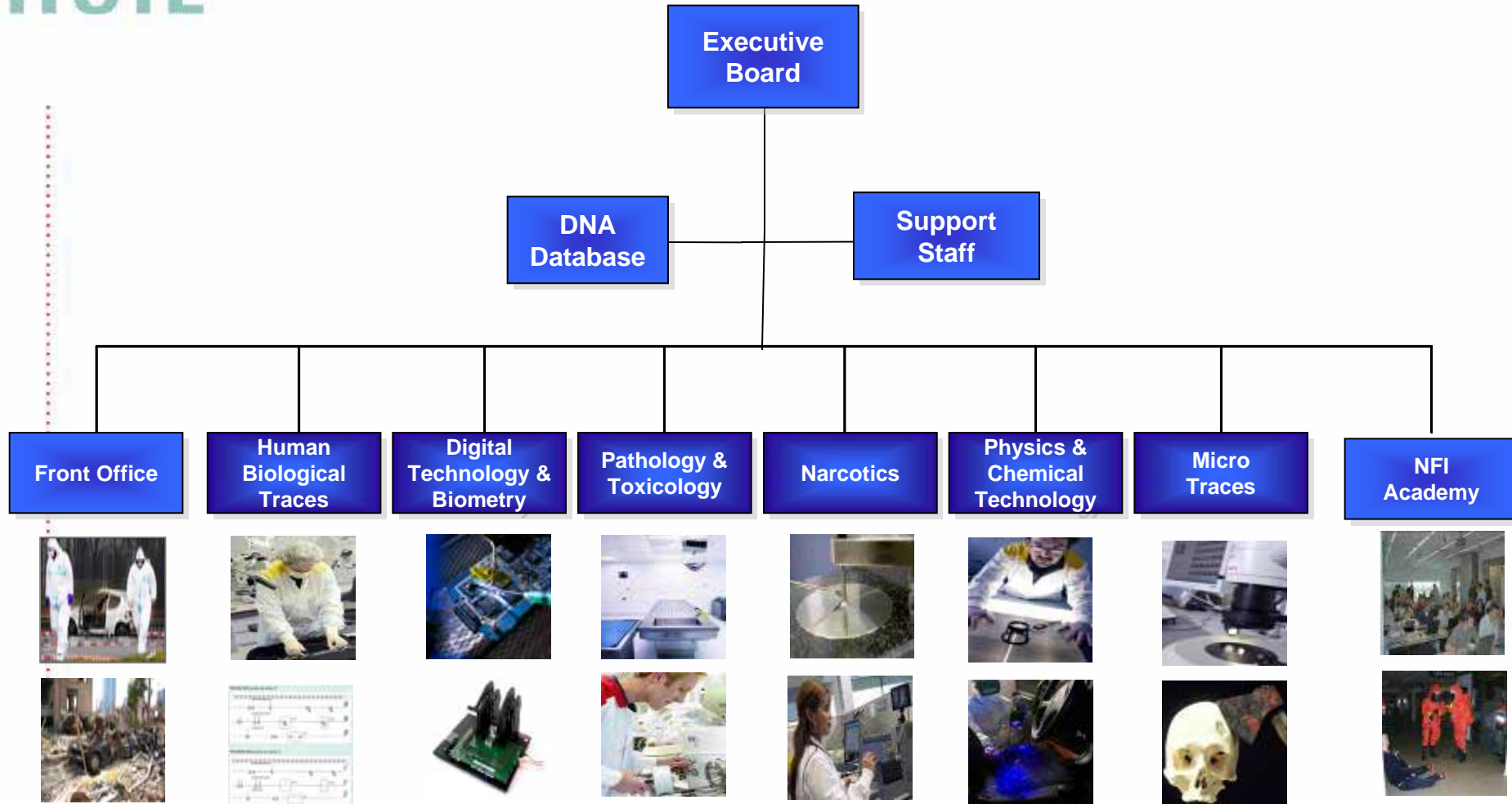
# A Paradigm Shift in Criminal Investigation Caused by Technological Innovation



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*Tokyo, 8 October 2010*

# NFI



**30+ product groups**

# The Paradigm Shift

**Technology  
Methods**

- Lab Technology
- Crime Scene Technology
- Data Analysis

**Crime  
Category**

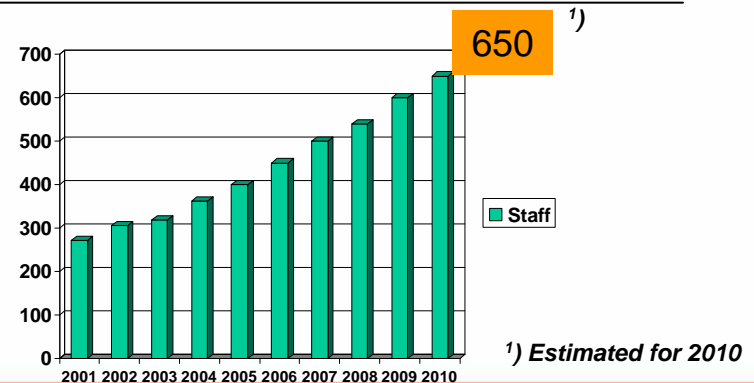
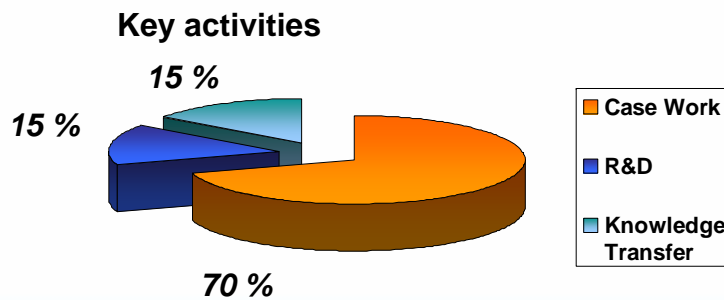
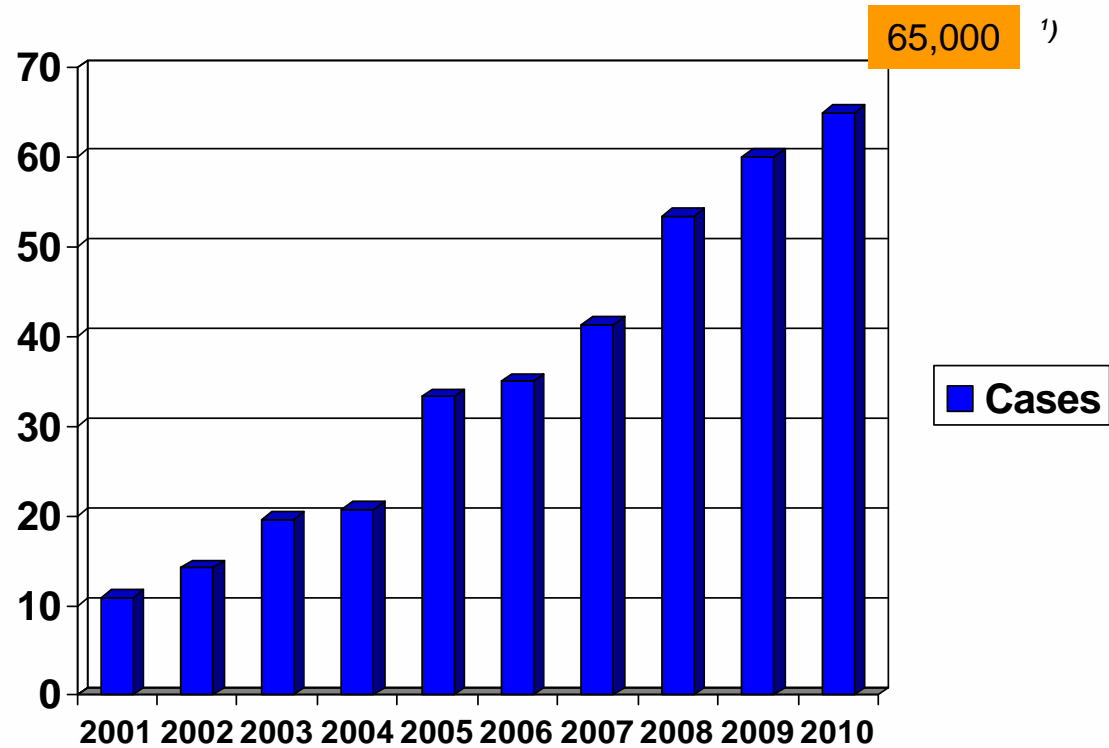
- Cybercrime
- Cyberterror
- CBRNE

**Organisation  
Management**











- Skills
- Professionalisation



# Technology driven Growth



# Main Growth Areas

Market \ Products	Criminal Justice	Defense	Anti Terrorism Agency	United Nations	Secret Services	Antitrust Tax Fraud ...	...
Digital Forensics							
Chemical Profiling							
Microbiology (DNA)							
...							
...							

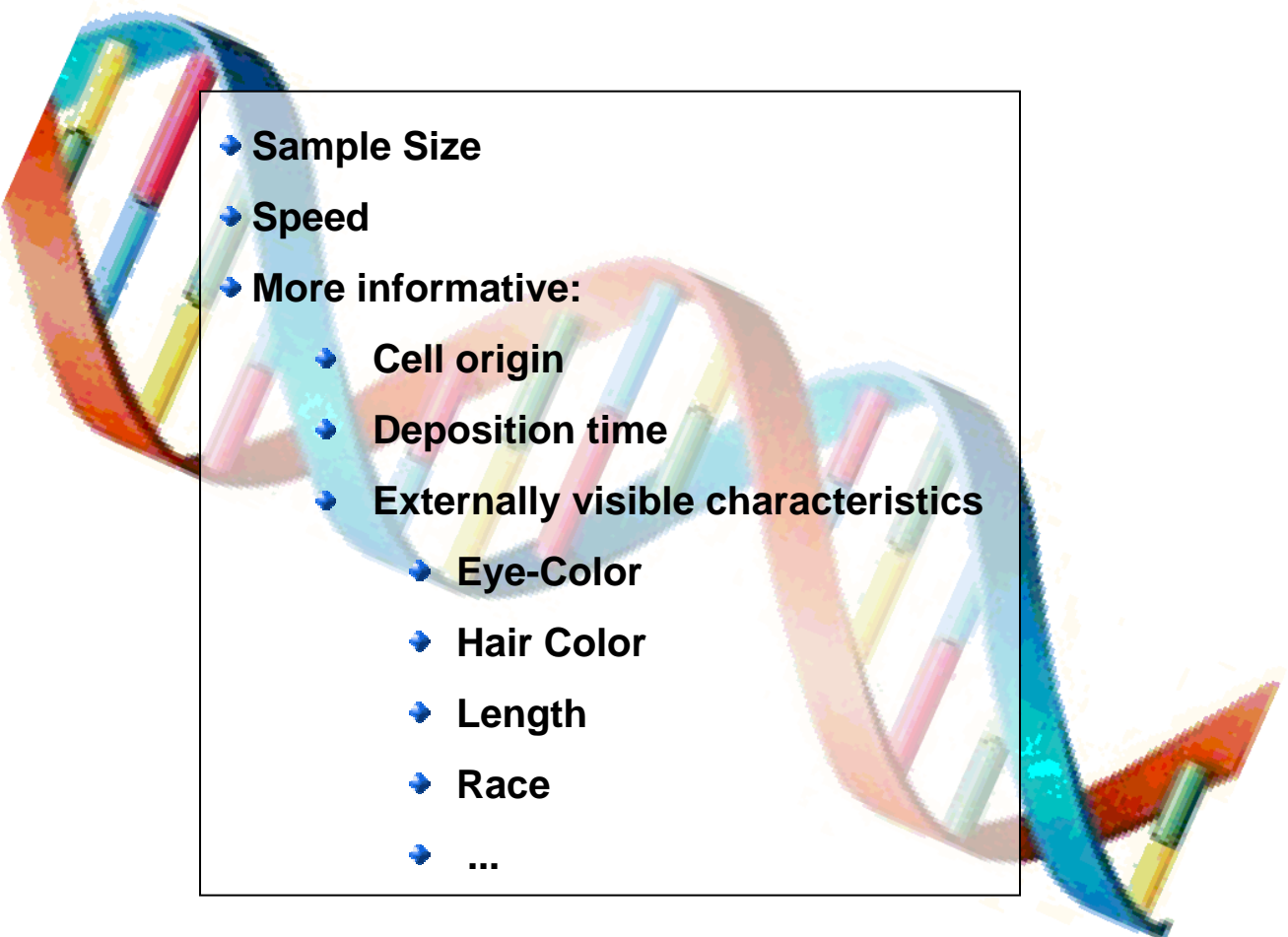


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## An example: Developments Forensic DNA

- 
- ▶ **Sample Size**
  - ▶ **Speed**
  - ▶ **More informative:**
    - ▶ **Cell origin**
    - ▶ **Deposition time**
    - ▶ **Externally visible characteristics**
      - ▶ **Eye-Color**
      - ▶ **Hair Color**
      - ▶ **Length**
      - ▶ **Race**
      - ▶ **...**



**Faster, Portable and More Informative**

# Process in the Future



	<b>fast, but potentially less accurate</b>	<b>accurate, but potentially time consuming</b>
<b>Intelligent Data Analysis</b> <b>Biometrics</b> <b>Intelligent Cameras</b> <b>Pattern Recognition</b>	<b>Lab-on-a-chip</b> <b>Mobile Application</b> <b>Trace Finding</b> <b>Reconstruction</b>	<b>Improved Analysis</b> <b>Probabilistic Interpretation</b>

# Public Private Partnership Required



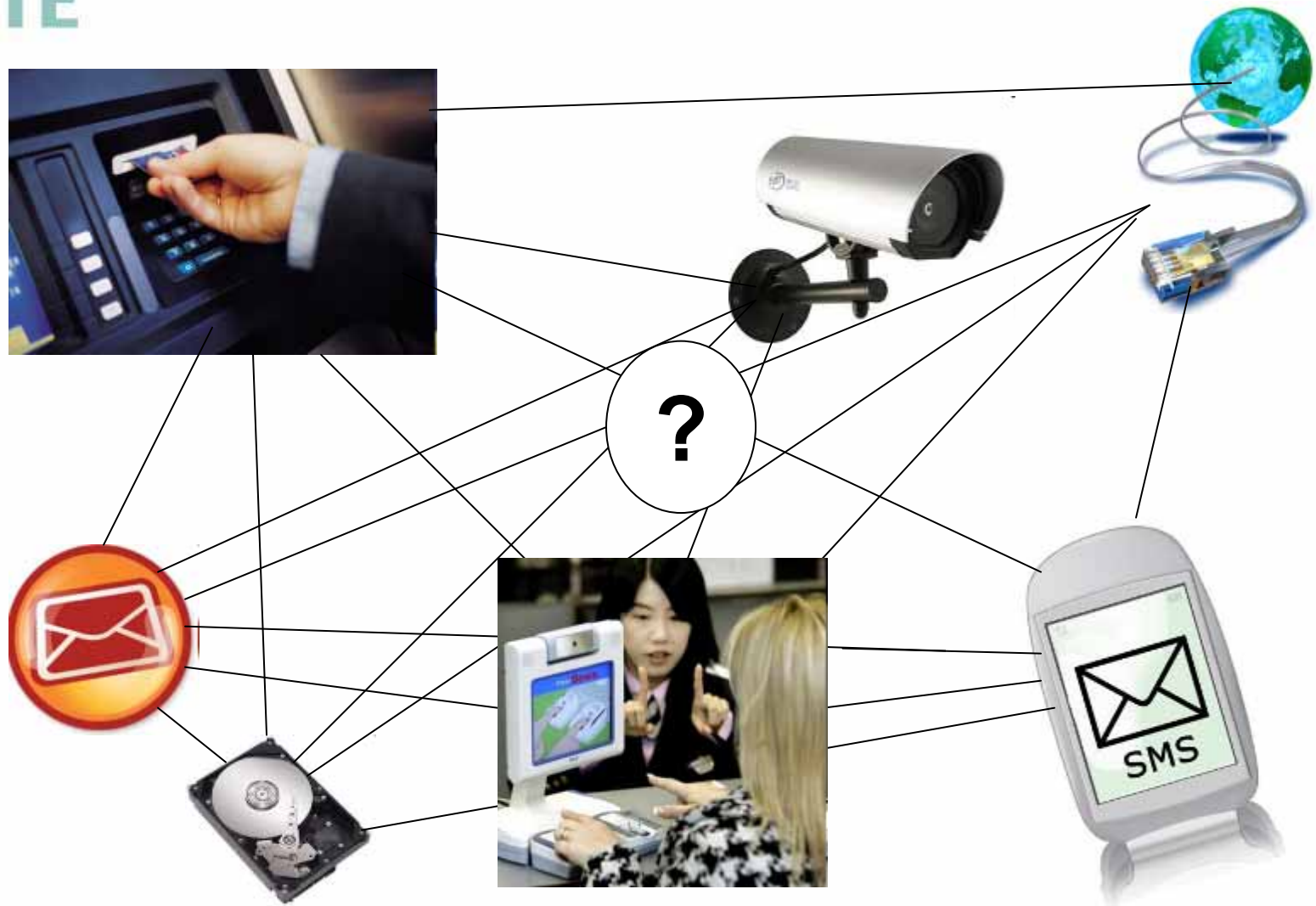


# Future Investigation

*Innovation Program Crime Scene Technology*

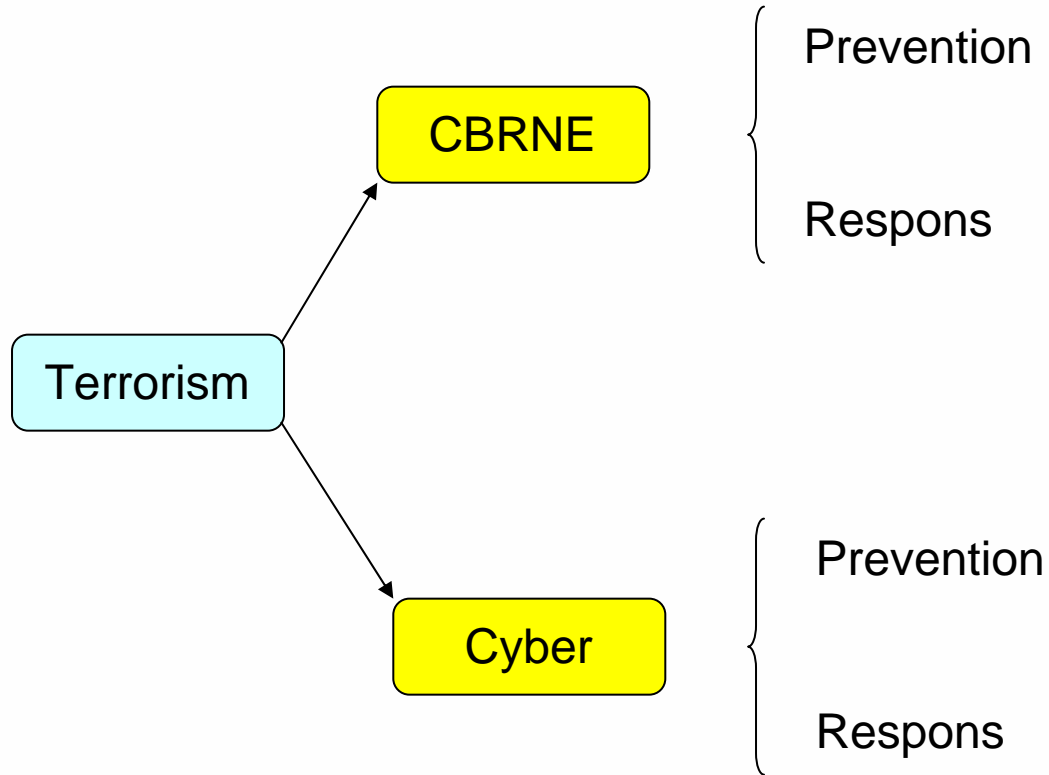


# Intelligent Data Analysis The Data Crime Scene



# New Crime Categories

## *Terrorism*



# CBRNE - Program



Disaster Victim Identification



Education and Training



Forensic Responses at Crime Scene



Biological Agents



Forensic Anthropology



Explosive impact at micro level



Chemical Agents

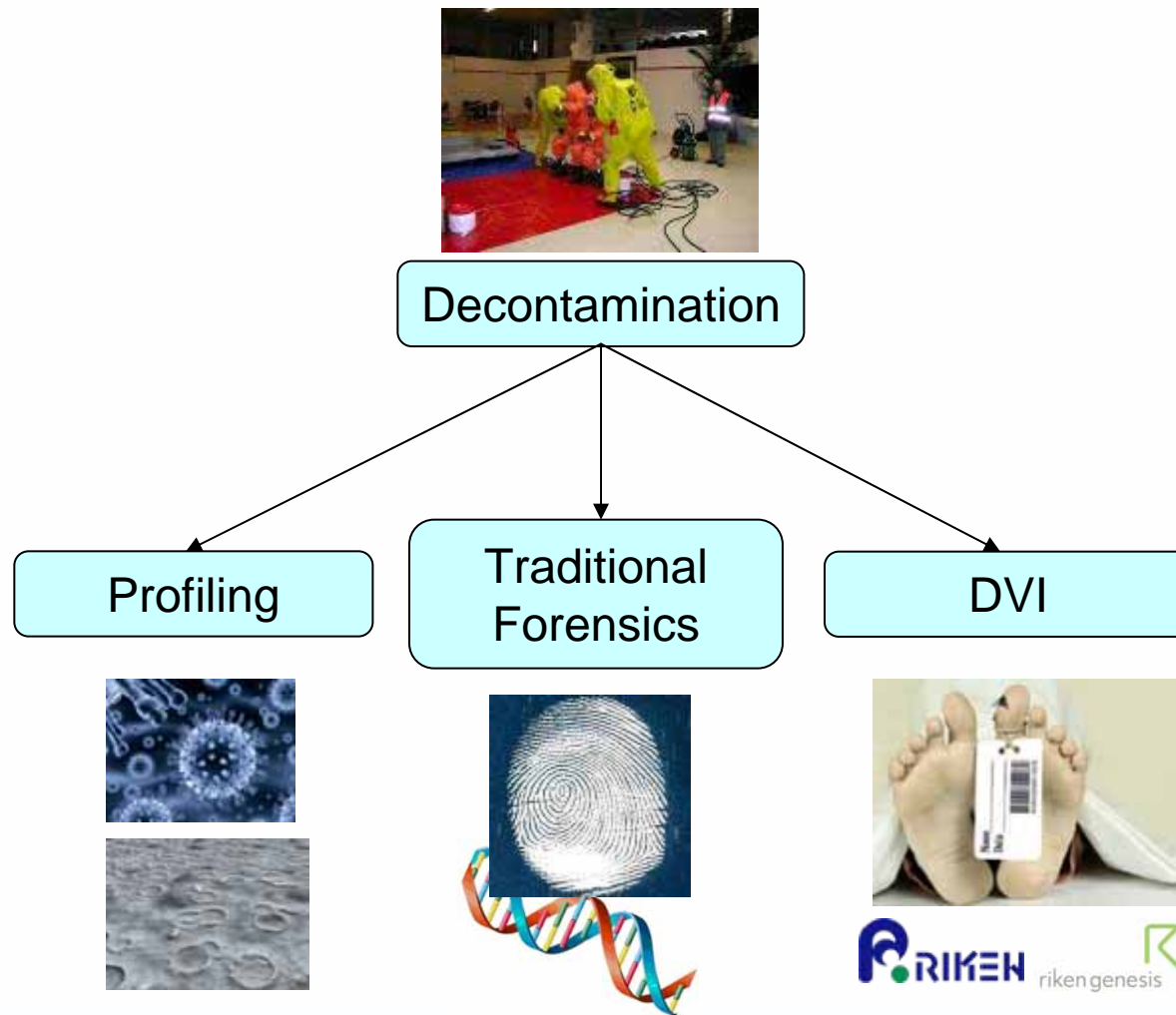


Radioactive and Nuclear Agents



Explosives

# Main Innovation Areas within CBRNE



# The Paradigm Shift

*Cause and Effect*

