



**IAEA**

International Atomic Energy Agency

# The Incident and Trafficking Database (ITDB) Programme

European Regional Transport Security Series (ERTSS)

27 April 2021

Speaker:

Jose GARCIA SAINZ

## Speaker



Jose Garcia

## Incident & Trafficking Database

Incidents of  
nuclear and other radioactive  
material  
**out of regulatory control**



## Loss of Regulatory Control

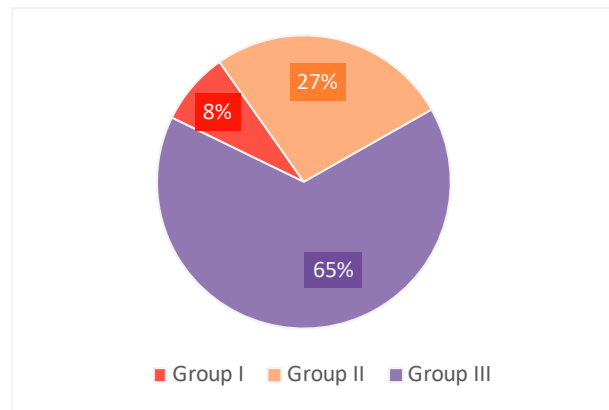
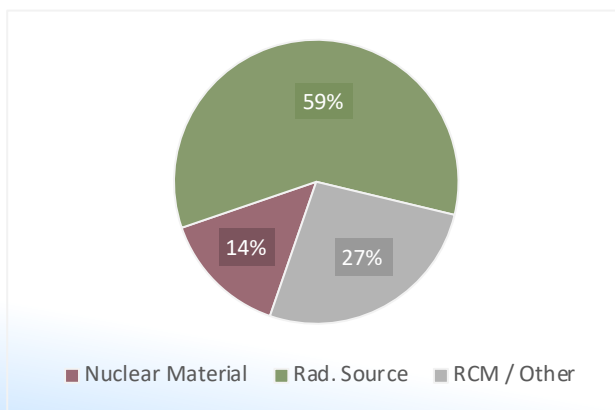
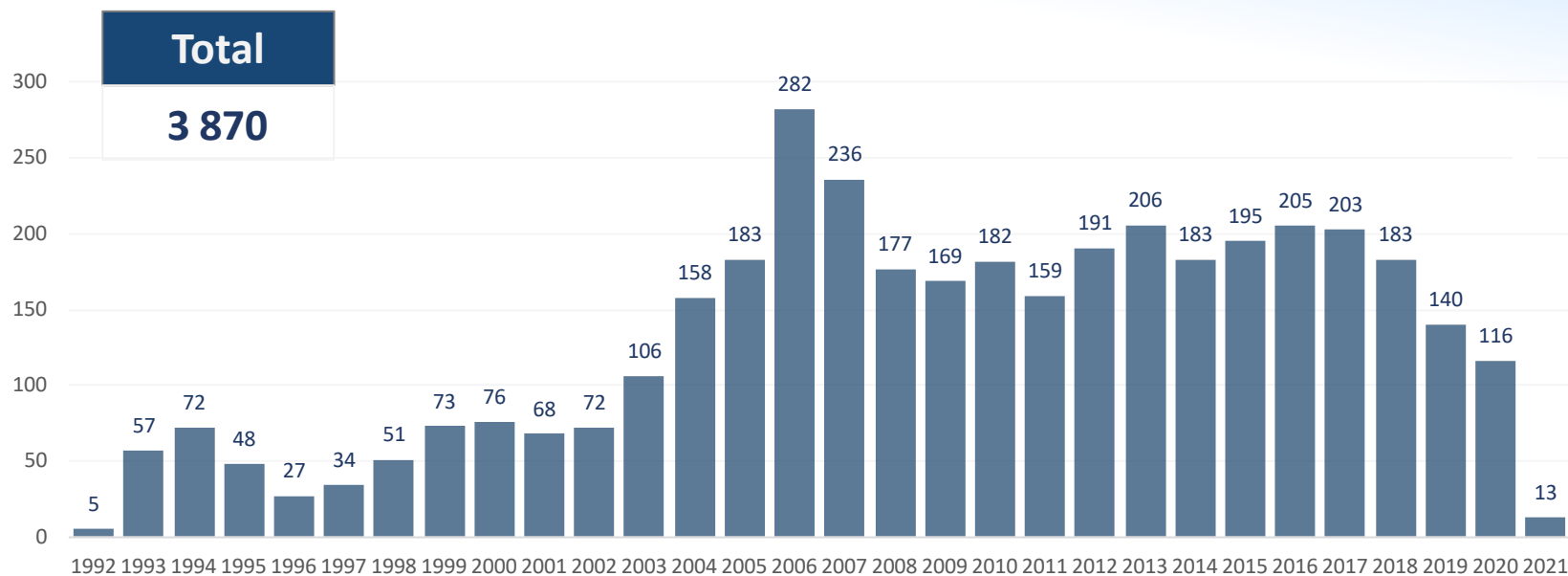


**measures in place  
to detect  
unauthorized activities**

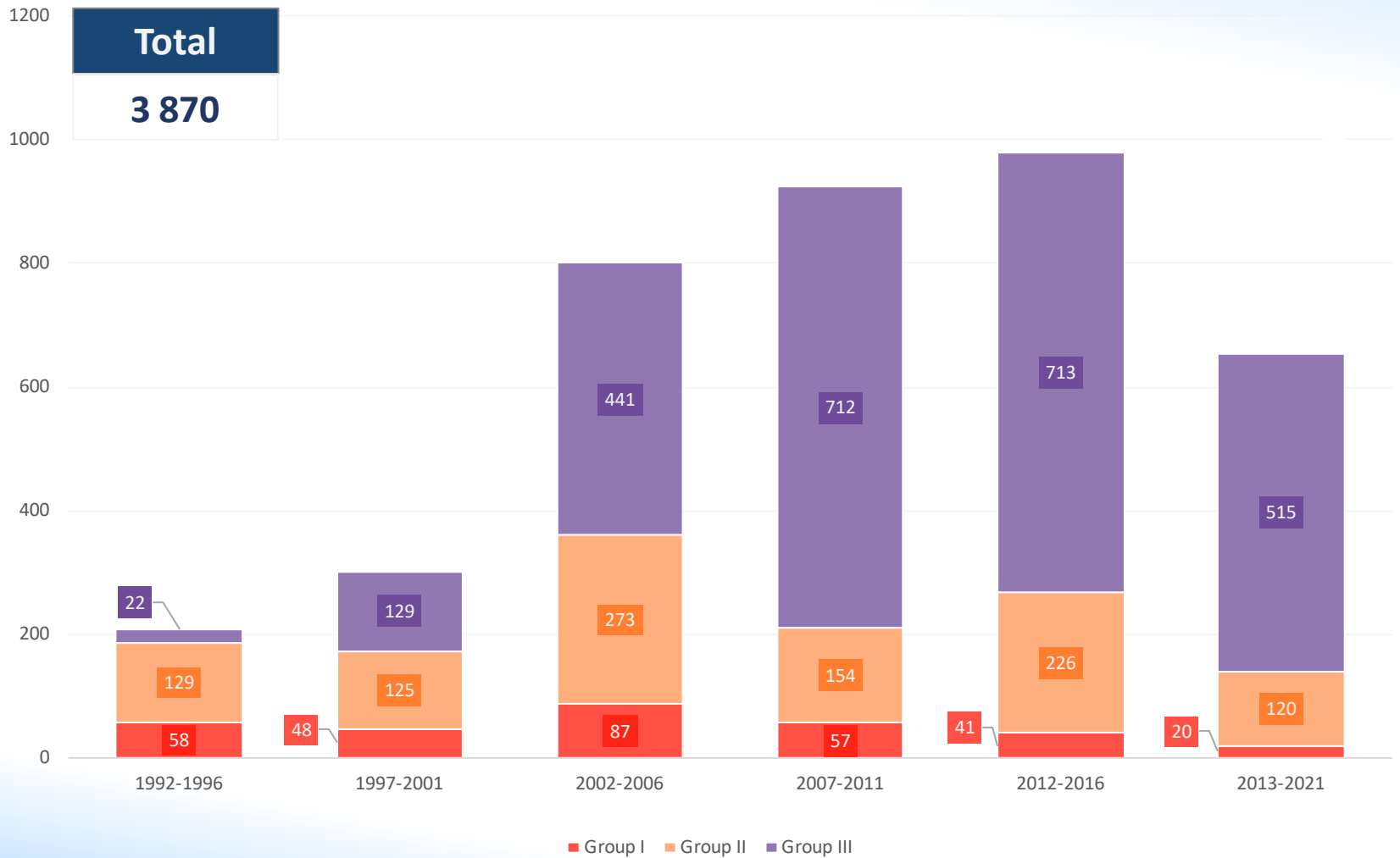


**no measures in place  
to detect  
unauthorized activities**

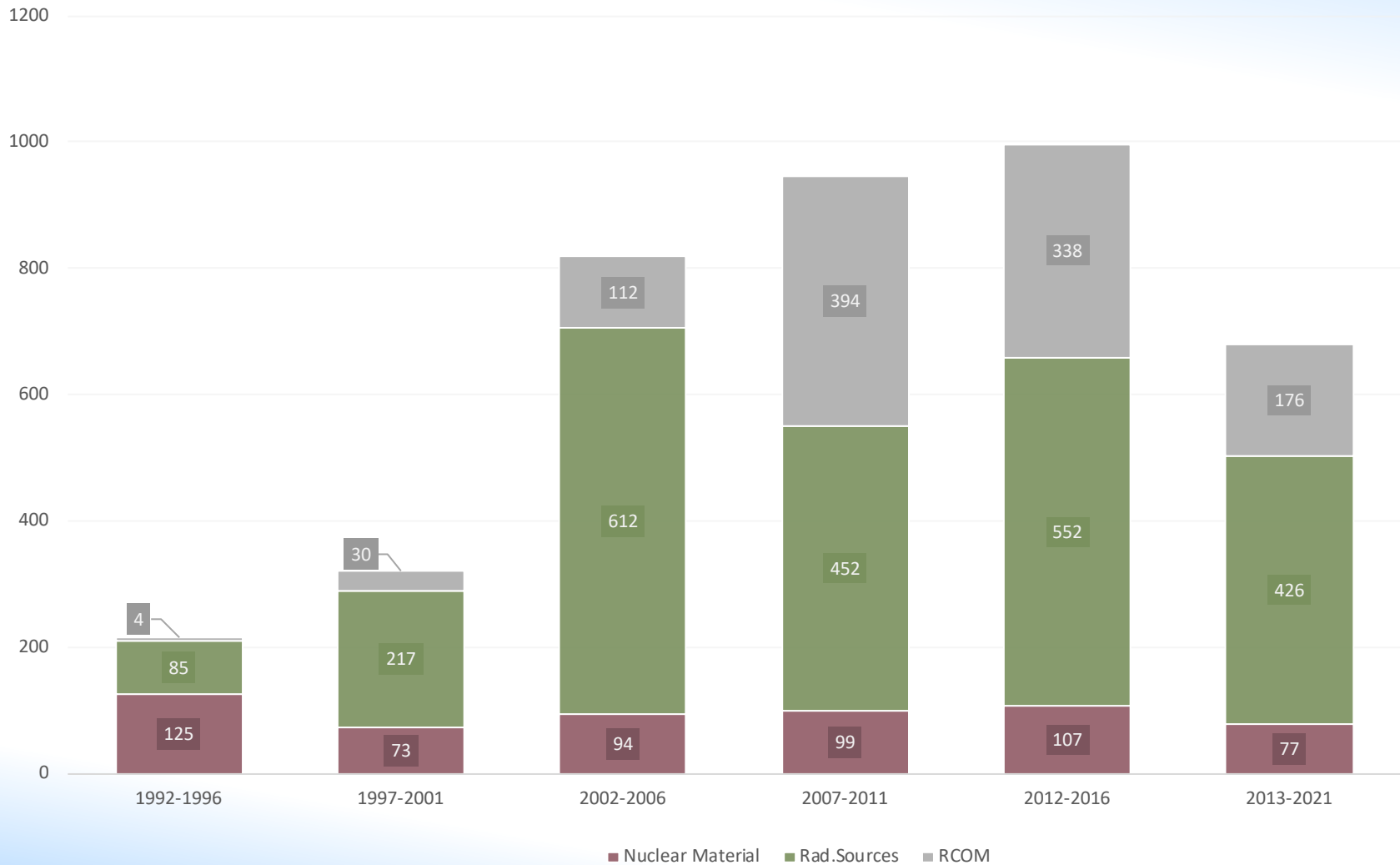
# Confirmed Incidents: by Incident Date



# Confirmed Incidents: by Group



# Confirmed Incidents: by Material



## Recovery of Stolen Materials

**623 thefts**

Transport-Related

**214 (34%)**

Recovered

**95 (15%)**

Unrecovered

**119 (19%)**

Other Thefts

**409 (66%)**

Recovered

**160 (26%)**

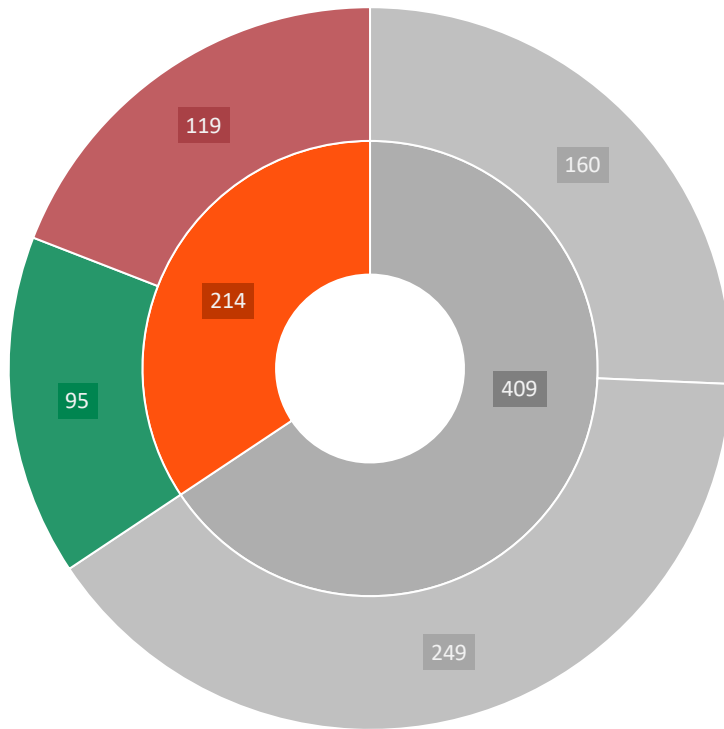
Unrecovered

**249 (40%)**



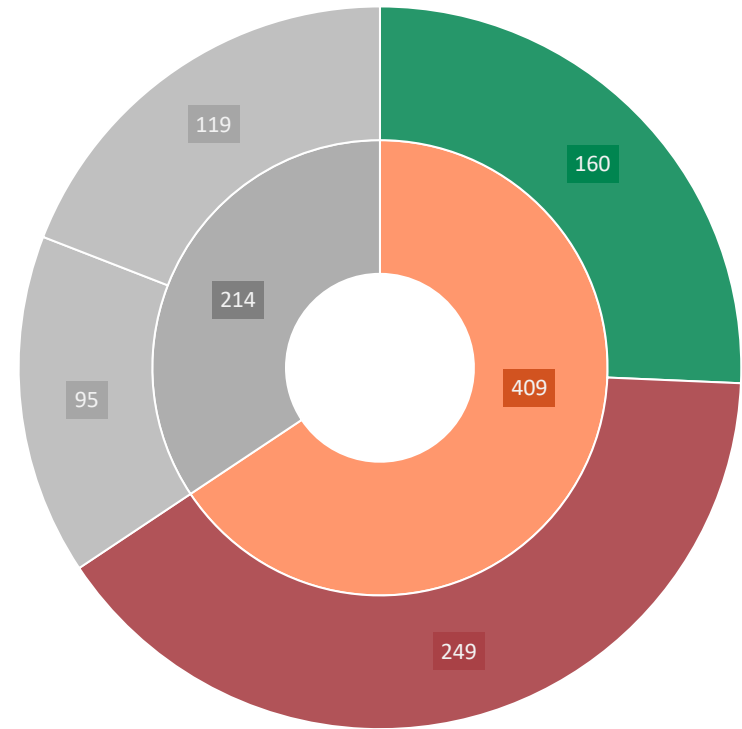
# Thefts: Recovery Rate

## Transport-Related



■ Transport-related Thefts  
■ Recovered  
■ Unrecovered

## Other Thefts



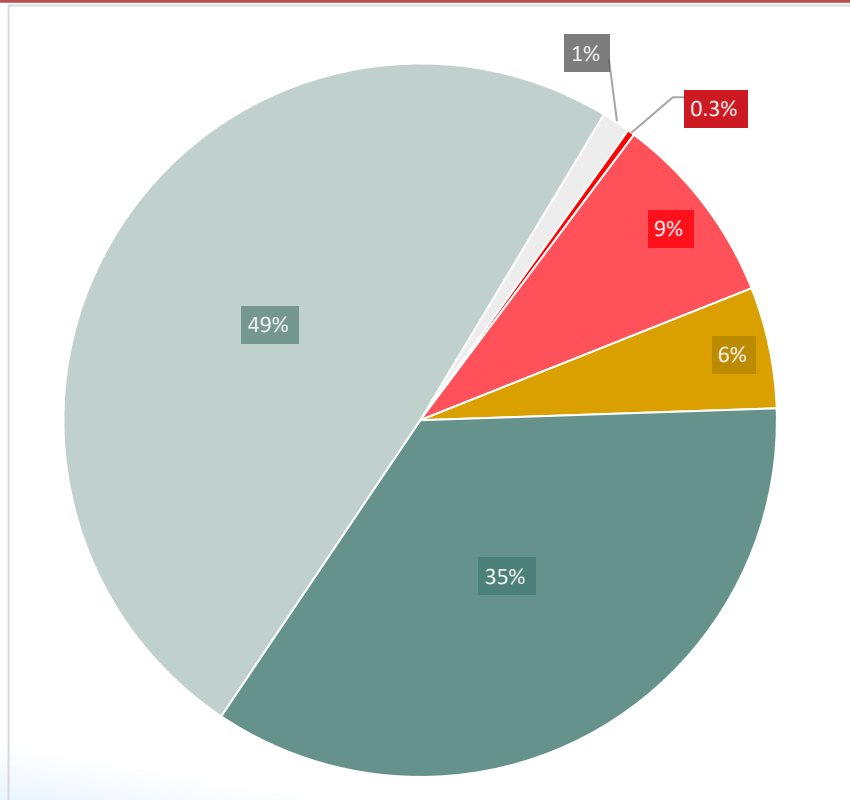
■ Other Thefts  
■ Recovered  
■ Unrecovered

## Transport-related Thefts: Overview of Material Recovery



# Thefts: by RS-G-1.9 Category

## Transport-Related



■ Cat.1

■ Cat.2

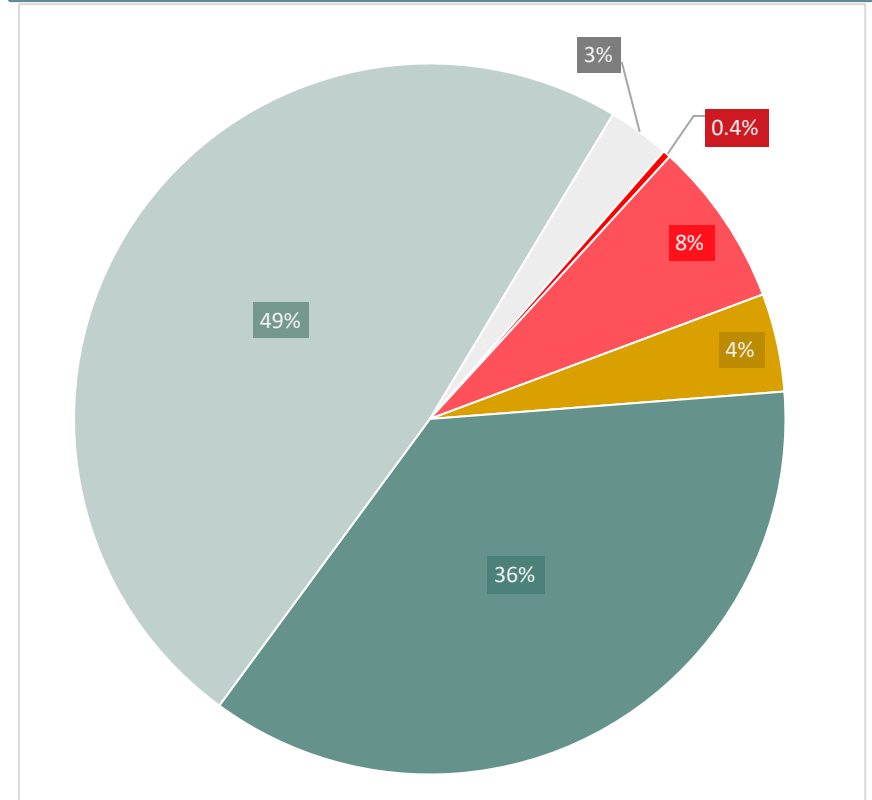
■ Cat.3

■ Cat.4

■ Cat.5

■ Unknown

## All Thefts



## What Does the ITDB Say About...

### Thefts of nuclear / other radioactive material

- The majority of thefts involve sources in **industrial or medical applications**
- Only a few incidents have involved Category 1 sources.  
**Category 2** sources are regularly reported
- The **recovery rate** for Category 1-3 sources is **high**.  
The recovery rate for Categories 4-5 sources is much poorer

## What Does the ITDB Say About...

### Other Unauthorized Activities

- The majority fall into one of three **categories**:
  - unauthorized disposal
  - unauthorized shipment
  - discovery of uncontrolled material
  
- This indicates potential **deficiencies** in systems to control, secure & account for radioactive material

## Who Can Use this Information?

- Nuclear regulator  
(Security / Safety / Safeguards)
- Emergency Response /  
Public Safety Agencies
- Domestic Intelligence Agencies
- Police
- Customs/Border Guards
- Military



## To conclude...



“...the ITDB System can be **extremely valuable**, not in the sense of being a scoreboard of illicit trafficking, but by being a **weathervane that can point to problems** needing attention ...”

G. M. Moore



**IAEA**

International Atomic Energy Agency

**Thank you for your attention!**