

IAEA International Conference on Nuclear Security: Sustaining  
and Strengthening Efforts (ICONS 2020)

# URBAN RADIOLOGICAL ACCIDENT MAPPING USING SMARTPHONES EQUIPPED WITH PERSONAL RADIATION DOSIMETER

A. Nabipour Chakoli,  
NSTRI, Iran,



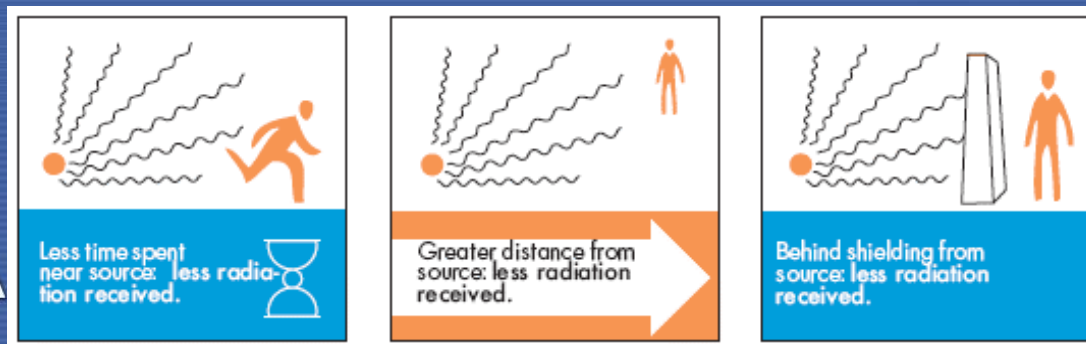
**IAEA**

International Atomic Energy Agency

# Introduction

**WARNING:** Exposure of any part of the human body to Ionizing Radiation can be highly injurious to health.

Radiation protection concerns the protection of workers, members of the public, and patients undergoing diagnosis and therapy, against the harmful effects of ionizing radiation.



# Radiation Protection

## IAEA Safety Standard Principles:

7: Protection of present and future generations people and the environment, present and future, must be protected against radiation risks,

10: Protective actions to reduce existing or unregulated radiation risks, Protective actions to reduce existing or unregulated radiation,

# Human Senses

## PROPER INPUT THROUGH OUR SENSES



**Eyes**



**Ears**



**Tongue**



**Nose**



**Skin**



# Human Ability due to technology



# Human senses due to technology



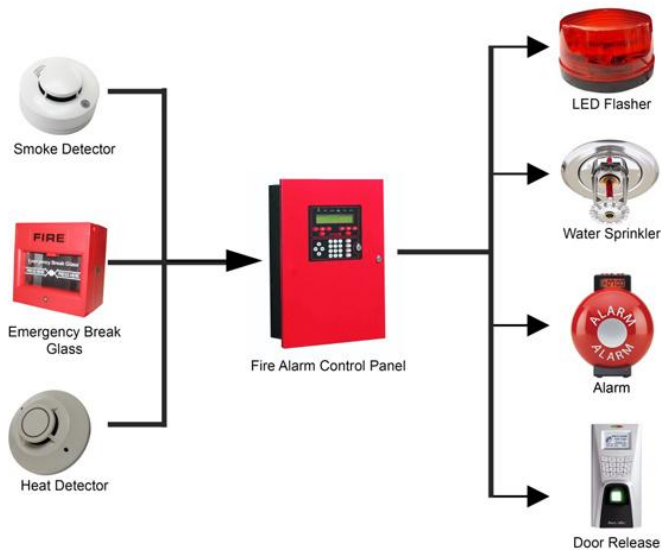
# (Human Rights)

## Universal Declaration of Human Rights

### Article 3: Right to Life, Liberty, Personal Security

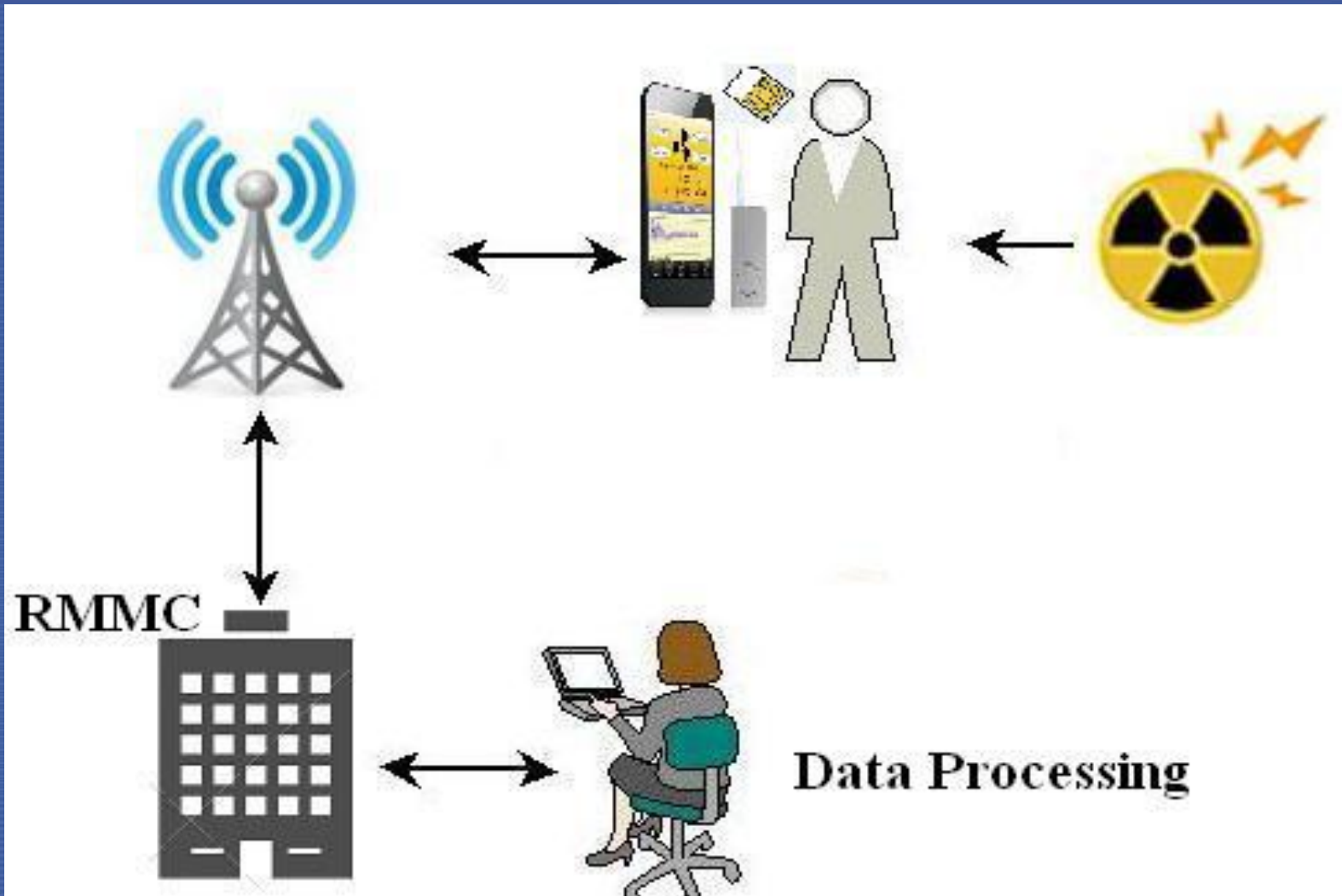


# Fire Fighting





# Radiation Protection & Smartphones



# Radiation Monitoring & Mapping



# Conclusions

## Goiania Accident



*Thank You!*

