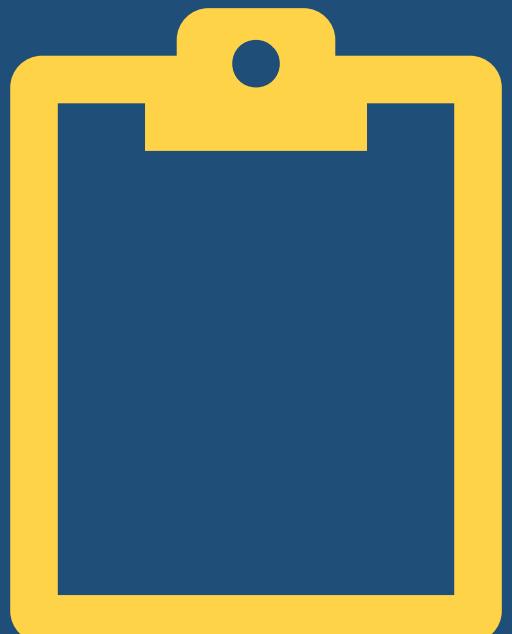




Radiation Hazardous

M.Sc.Rasha Fajer

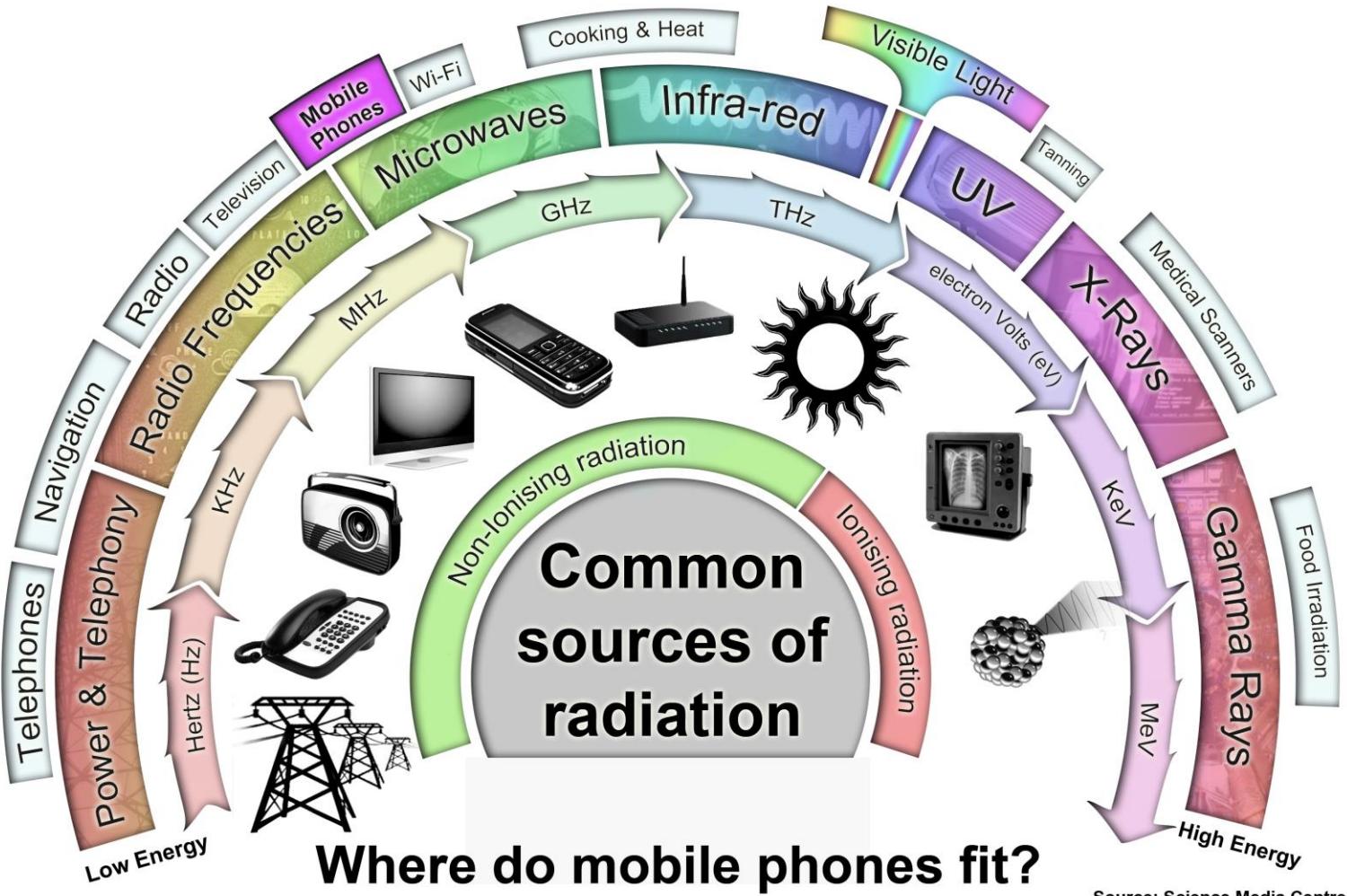




Introduction

- **Radiation** is the emission of energy as electromagnetic waves or moving subatomic particles.
- Natural radiation comes from many naturally occurring radioactive materials found in soil, water, air and in the body. Every day, people inhale and ingest forms of radiation from air, food and water.

Radiation Sources



Source: Science Media Centre



Radiation Sources

1-Natural Sources of Radiation : it include

- ❑ Cosmic Radiation
- ❑ Radioactive Minerals
- ❑ Radon and Thoron

2- Man-Made Sources of Radiation : it include

- ❑ Medical Procedures
- ❑ Military Activities
- ❑ Industrial Applications





Radiation test strategies for a manufacturer using third party dice



Pierre-Xiao WANG
March, 2016
RADECS Workshop





How Radiation Affects our Body?

- 1-Radiation can damage the DNA in our cells.
- 2-High doses of radiation can cause Acute Radiation Syndrome (ARS) or Cutaneous Radiation Injuries (CRI).
- 3-High doses of radiation could also lead to cancer later in life.



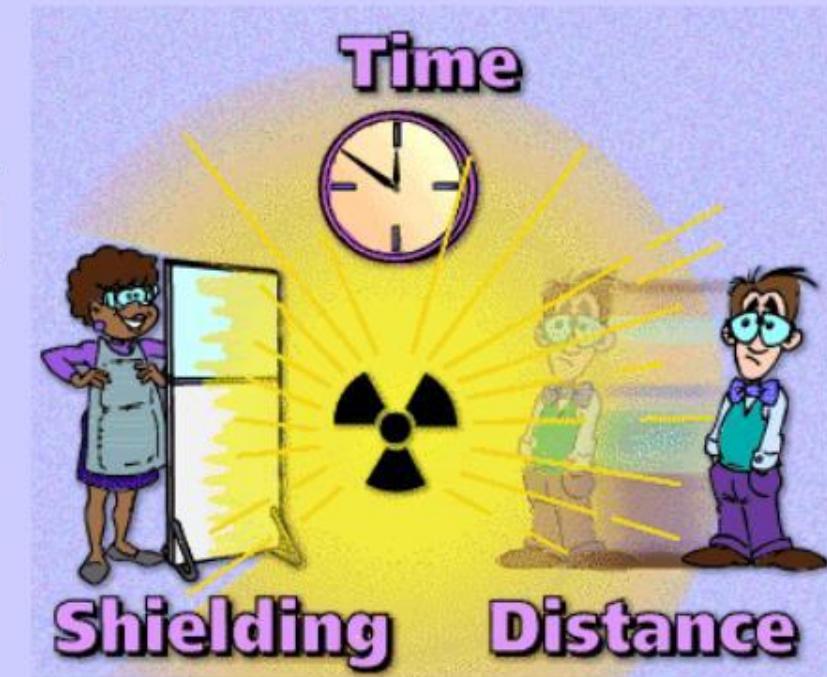
Types of Radiation

- 1-Alpha Particles (α)
- 2-Beta Particles (β)
- 3- Neutrons
- 4-Electromagnetic Radiation (Gamma Rays and X-rays)



CARDINAL RULES OF RADIATION PROTECTION

- TIME
- DISTANCE
- SHIELDING



السلامة أولاً! تذكرة... آولاً!

