

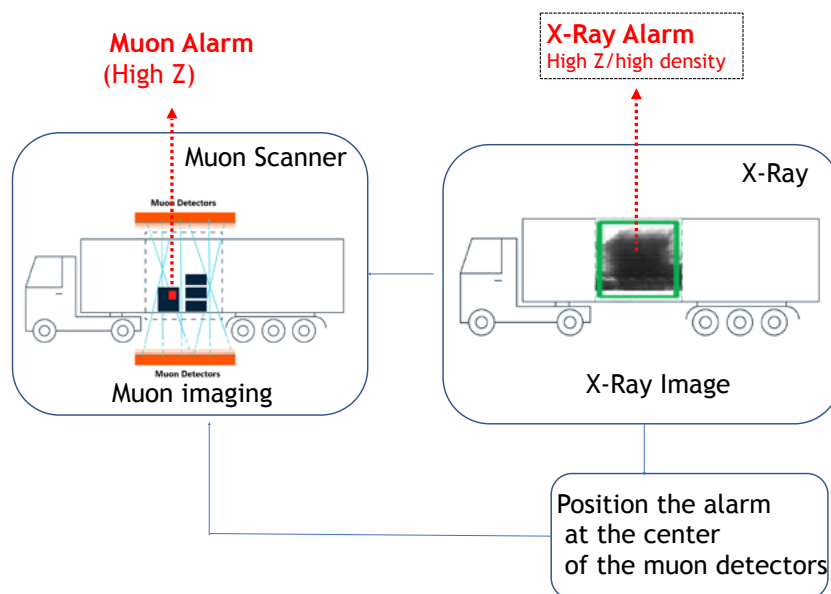
# Lingacom Muon scanner

## Introduction

Lingacom’s muon scanner provides an efficient and radiation-free scanner for seaports and border crossings. Lingacom muon scanner technology is based on high-energy natural atmospheric cosmic-ray muons. Muons are charged particles with the highest penetration on earth.

## Concept of operation

Lingacom muon scanner uses the high penetration capability of the muons in order to image containers that can’t be imaged by High Energy X-Ray. In addition, the muon scanner reduces the false alarm rate this saves the costly manual inspection. In the new concept of operation containers alarmed by the X-ray system due to high attenuation objects would go to muon scanner. The container is moved to position the x-ray alarm at the centre the muon detectors. The muon scanner generates 3D image of the container densities and provides high Z alarm.



## Benefits:

- ❖ Detection of heavily shielded nuclear or radioactive materials
- ❖ Powerful detection in mid-to-high attenuating dense cargos
- ❖ Complementary concept of operation with existing inspection systems
- ❖ Green, passive and safe detection that can easily deployed
- ❖ 3D imaging algorithms
- ❖ In-house low-cost muon detectors

The COSMIC project is co-funded by the European Commission’s Horizon H2020 Programme

