

# MARKET TRENDS

## SMART CITIES

The Smart Cities Technology market is expected growing from 8,8 billion USD in 2013 to 27,5 billion USD in 2023 with Average Growth Rate (CAGR) of 15% (source Navigant Research©)



## HOMELAND SECURITY

Market size estimated above 15 billion USD in 2020 and CAGR of 3,3% (source Strategic Defense Intelligence©).



ASTER has developed innovative technological solutions in the Smart Technologies sector, with specific focus on Smart GIS (IoT Platforms, Decision Support Systems and Geographical Information Systems) and Smart Sensors (sensors with Intelligent Processing Software).



*Born in 2010, ASTER is an Italian system engineering company specialized on Homeland Security and Smart Technologies.*

We provide Smart Tech Solutions, System Engineering & Integration, PMS and ICT based solutions to Public Authorities, Industrial Contractors & PMC/PMO organizations, in Europe, Middle East and North Africa.

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**ASTER**

SMART TECHNOLOGIES



**SOLUTIONS FOR  
HOMELAND SECURITY  
& SMART CITIES**

2014



## TERRAPACK™

TERRAPACK™ is a new generation SMART GIS platform, fully open and optimised for BIG DATA geospatial management applications in the sectors of Homeland Security and Smart Cities. ASTER develops and offers:

- **TERRAPACK™ MCOP**, for data fusion in Integrated Maritime Surveillance applications
- **TERRAPACK™ NG**, for law enforcement and urban patrolling
- **TERRAPACK™ E-GOV**, for e-governance of the Smart Cities

### TERRAPACK™ applications

- ✓ Urban Security
- ✓ Maritime Surveillance
- ✓ Law Enforcement & Prevention
- ✓ Urban Planning Monitoring
- ✓ Cadaster Monitoring
- ✓ Agriculture risk monitoring
- ✓ Geo-spatial statistics



2018



## SONICEYE™

SONICEYE™ is the new innovative & low cost compact surveillance solution for Security Authorities and Police Forces, completely passive anti-terrorism surveillance device based on acoustic technology.

SONICEYE™ is able to perform detection, localisation and tracking of blasts, gunfire, crashes and explosions as well as selective listening and recording of audio sources.

### SONICEYE™ applications

- ✓ Urban Security
- ✓ Drone / UAV Surveillance
- ✓ Anti-terrorism
- ✓ Tactical Intelligence
- ✓ Forensics
- ✓ First Response Support



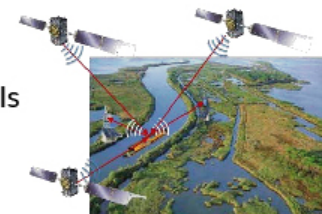
2020



## SPYGLASS™

SpyGlass™ is an innovative Passive Bistatic Radar Technology exploiting the reflections of the Galileo GNSS navigation signal for 24h-7/7 all-weather covert detection of moving targets in air, land and seas.

- No RF Transmitter
- Exploitation of a Universal GNSS signals
- Miniaturized RX and processing hardware
- Bistatic and multi-transmitters geometry



### SPYGLASS™ applications

- **Passive Surface Movements** detection of no cooperative targets in Ports and Airports
- **Land and maritime Borders** Protection
- **Surveillance of Environmental** protected areas
- **Covert surveillance** operations for defense, security and intelligence (including drone/UAV monitoring)
- **Increased classification capabilities**

