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Law Enforcement, First Responder, and Homeland Security Robots: Market Shares, Market Strategies, and Market Forecasts, 2015 to 2021

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Abstracts

LEXINGTON, Massachusetts (November 10, 2015) – WinterGreen Research announces that it has published a new study Law Enforcement, First Responder, and Homeland Security Robots: Market Shares, Strategy, and Forecasts, Worldwide, 2015 to 2021. Next generation civilian security robot platforms leverage better materials, more sophisticated designs, software technology, and tablet remote controls to support high quality data gathering and communications in difficult situations.

Bomb squads have need for better technology, more flexibility, better maneuverability. The robots answer those needs, they can be tuned to the specific activity in which they are being used, using modular systems. Platform robot modules are highly targeted to specific situations. Robots make police organizations more functional, improve security performance by allowing remote operation. The study has 582 pages and 257 table and figures.

The ability to use robots for law enforcement, first responder, and homeland security is a function of affordability. Many cost efficient robots have come to market, challenging those offered by some of the existing market leaders that are part of the traditional military industrial complex.

Law enforcement, first responders, and homeland security robots are mobile automated process platforms that are responsive to homeland security needs. They are emerging in the context of globalization and smart phone devices that provide connectedness. This global aspect of the first responder robots means that the devices have a presence in every part of the world. First responder robots are inherently local, they are used locally, they are needed by security personnel in particularly dangerous situations.

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Systems of engagement apps are evolving as specially designed ground robot networks used to address terrorism and local law enforcement and fire department needs to support community and city safety patrol.

According to Susan Eustis, leader of the team that prepared the study, “Robot security technology is having a great affect on law enforcement, first responder, and homeland systems effectiveness. Security Robots utilize platform technology and leverage the mobility of the robot. Within the robot platform, components have been useful as organizations move to secure the safety of the officers forced to function in dangerous situations. Law enforcement organizations are able to function more effectively. Video facilitates supervisors in communicating to a deployed unit in a manner that is taking into consideration the difficulties any particular officer is having in an individual situation, paying individual attention to officers deployed in the risky situation. Risk management performance can be improved, managing any situation can be improved using robotic platform technology.”

Vendors have adopted a variety of control mechanisms and and intuitive users interfaces so robot operators are able to drive the robots easily. Vendors have been able to make them more effective and more affordable.

Market growth comes from every law enforcement organization that needs to achieve an edge over the bad guys, over terrorists, protecting the civilian populations more effectively and with less risk to the enforcement offices than has been able previously. Organizations wishing to gain performance advantage in their local situations are buying the robots. By adopting prebuilt modules of enforcement technologies and adapting them to the local situations, vendors have been able to build worldwide markets.

The evolution of security robots and devices is in the context of smart phone adoption, going to 9.5 billion by the end of the forecast period, with apps becoming more accepted. The ability to offer sophisticated robots for the police officers and lieutenants is what provides sophisticated application capabilities. Apps are further evolving to provide tracking of motion and help provide mastery of various techniques for risk management. Robots are useful for mastering some aspect of police detail work and adding to lowering the cost of premium local and national border security forces.

Law Enforcement, First Responder, and Homeland Security Robots platform technology markets at $764 million in 2014 are anticipated to reach $4.3 billion by 2021. Market growth comes as every law enforcement agency faces the prospect of dealing with terrorists. With technology maturity and economies of scale, price points will decline

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rapidly and affordability will drive significant market growth, soon reaching billions of dollars. The companies that achieve measurable market share early in the evolution of the market are likely to maintain a strong presence in the billion dollar markets.

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