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FOR IMMEDIATE RELEASE

## **TWO UTAH COMPANIES COMBINE TO TAKE TOP PRIZE AT DEPARTMENT OF DEFENSE-SPONSORED ROBOTIC RANGE CLEARANCE COMPETITION**

### **Kairos Autonomi and Autonomous Solutions Use Autonomous Mobility Appliqué Systems (AMAS) To Win \$1.25 million As Part of Effort to Bring Robotic Capabilities to Range Clearance Efforts**

SALT LAKE CITY, SEPTEMBER 22 — [Kairos Autonomi, Inc.](http://www.kairosautonomi.com) and [Autonomous Solutions, Inc. \(ASI\)](http://www.autonomoussolutions.com), were the key systems integrators for Team UXOD Automation, named the overall winner and awarded \$1.25 million at the [Robotic Range Clearance Competition \(R2C2\)](#) held recently at Camp Guernsey, WY.

Kairos and ASI utilized Autonomous Mobility Appliqué Systems (AMAS) technology in bringing automation and unmanned systems technology to unexploded ordnance (UXO) clean-up on munitions ranges. These capabilities can improve the safety and effectiveness of the four primary range clearing tasks: 1) Vegetation Clearance, 2) Surface Clearance, 3) Geophysical Mapping, and 4) Subsurface Clearance.

Team UXOD fielded three unique vehicles that competed in all four tasks. Each vehicle employed Autonomous Solutions' [Mobius Command and Control Software](#) as its AMAS A (Autonomy) Kit, and Kairos' [Pronto4 Robotic Appliqué Kit](#) for the AMAS B (By-wire) Kit. Team UXOD achieved a 70% level of autonomy for the range clearance tasks. Video of the vehicles can be found at [www.kairosautonomi.com/videos/R2C2\\_UXOD\\_VideoAug2011\\_640x480.wmv](http://www.kairosautonomi.com/videos/R2C2_UXOD_VideoAug2011_640x480.wmv).

"We have demonstrated that Mobius and the Pronto4 are fielded, proven technologies that can be utilized for range clearance tasks," said Troy Takach, President and CEO of Kairos

Autonomi. “Our success at the R2C2 is further proof that autonomy appliqué kits and by-wire appliqué kits are the future of unmanned vehicle operation.”

Mel Torrie, President of Autonomous Solutions, said “I have been awed by the personal sacrifice and team work that came together to make possible this monumental step forward in automating such a dangerous application. This will change the industry as we know it and it wouldn’t have been achievable without partners like John Deere and SAIC.”

The Mobius software solution commands, controls and monitors multiple unmanned systems. It includes a robust set of features — including autonomous behaviors — developed for unmanned vehicles in military, mining, agriculture, material handling and surveillance applications.

The Pronto4 system is a robotic appliqué kit that enables ground vehicles to drive themselves by receiving inputs from an autonomy kit such as Mobius. The successful use of the kits in training operations, range clearance tasks and other industries will see them increasingly used in adjacent and future markets, Takach said.

Team UXOD is making its technology and robotic vehicles available for immediate use across the United States in range clearance operations. Team UXOD is comprised of Kairos Autonomi, Autonomous Solutions, Science Applications International (SAIC), Zonge International, VKR, John Deere and WM Robots. The Office of Secretary of Defense (OSD), in collaboration with the U.S. Air Force and U.S. Army, sponsored the R2C2.

### **About Kairos Autonomi**

Web: [www.kairosautonomi.com](http://www.kairosautonomi.com)

Kairos Autonomi, Inc. is the pioneer in Robotic Appliqué Kits, add-on vehicle autonomy systems that provide unmanned capabilities to current manned vehicles, rendering them optionally unmanned. With its emphasis on simplicity, cost-effectiveness, ubiquity and interoperability, Kairos has proven since 2006 that one-third unmanned by 2015 is achievable only with robotic appliqué kits.

### **About Autonomous Solutions**

Web: [www.autonomoussolutions.com](http://www.autonomoussolutions.com)

Autonomous Solutions, Inc. designs and manufactures unmanned vehicle systems, software, and components for mining, agriculture, material handling, and military customers. Autonomous Solutions has fielded hundreds of vehicles both large and small leveraging their expertise in multi-vehicle command and control, mission planning, sensor fusion, obstacle avoidance, tele-operation, and point-and-click ease of use.

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