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### **MBDA AND UTC AEROSPACE SYSTEMS TO TRANSFORM DEVELOPMENT OF MISSILE GUIDANCE AND CONTROL.**

MBDA and UTC Aerospace Systems have initiated a pioneering development programme of an Inertial Measurement Unit (IMU) for a multitude of programmes within, and potentially beyond, MBDA's current Complex Weapons (CW) Portfolio. This is being achieved with a focus on Value for Money (VfM) through Modularity and Reuse (M&R) at all levels of a missile system.

To help facilitate a successful programme, MBDA and UTC Aerospace Systems are transforming the way they work together with a joint desire to move towards a much closer, more collaborative business relationship.

IMUs, which are a critical element of the missile's guidance, navigation and control functions, have traditionally been based on a number of differing technologies including high cost fibre-optics. UTC Aerospace Systems, which is the Design Authority, will use Micro-Electro-Mechanical Systems (MEMS)-based IMUs, through investment in their operationally-proven MEMS sensor technology. One outcome will be a high performance IMU that meets the MBDA performance requirements but is smaller, more versatile and offers unparalleled value for money when compared to traditional technologies.

This high performance IMU is being developed to be backwards compatible with one of existing UTC Aerospace Systems MEMS IMUs. This allows its adoption within multiple programmes whilst providing a form and fit interchangeable system upgrade opportunity for scenarios that require increased range and performance.

Steve Wadey, MBDA Executive Group Director Technical and Managing Director UK commented, "This demonstrates MBDA's commitment to the Team CW philosophy by delivering innovative solutions and long term value for money. It is being achieved by improving our way of working with strategic suppliers and harvesting the benefits from Commercial and Military Off The Shelf (COTS and MOTS) products in our systems."

Kevin Pindard, Managing Director at UTC Aerospace Systems said "At Plymouth, we are delighted to be working closely with MBDA to take our operationally proven UK sovereign MEMS IMU capability and develop that into the next generation of IMUs for use across civil and defence aerospace applications."



# Press Release

## Note to editors

### About MBDA

With a significant presence in five European countries and the USA, in 2012 MBDA achieved a turnover of 3 billion euros with an order book of 9.8 billion euros. With more than 90 armed forces customers in the world, MBDA is a world leader in missiles and missile systems.

MBDA is the only group capable of designing and producing missiles and missile systems that correspond to the full range of current and future operational needs of the three armed forces (land, sea and air). In total, the group offers a range of 45 missile systems and countermeasures products already in operational service and more than 15 others currently in development.

MBDA is jointly held by BAE SYSTEMS (37.5%), EADS (37.5%) and FINMECCANICA (25%).

### About UTC Aerospace Systems

UTC Aerospace Systems designs, manufactures and services integrated systems and components for the aerospace and defence industries. UTC Aerospace Systems supports a global customer base with significant worldwide manufacturing and customer service facilities. UTC Aerospace Systems is a unit of United Technologies Corp. (NYSE:UTX)

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