## Humanoid robot joins astronauts in space Robonaut-2 not only looks human, but is also designed to work like one. R2 can use the same tools as space station crew and can replace astronauts during spacewalks that are difficult or dangerous ROBONAUT-2 (Designed by NASA and GM) **Materials** Aluminium, Height: 102cm (from waist to head) steel, Kevlar, Shoulder width: 79cm Teflon Weight: 150kg Sensors: 350 Arms: Twice as articulate **Backpack** as human arm Conversion Vision \_ system allows Five cameras R2's batteries to provide stereo be charged by and infrared vision terrestrial or ISS Parts can power supplies be upgraded or replaced Flight suit Each finger Torso has grasping Contains 38 force of 2kg PowerP@ Control Lower body processors Legs are still in From Mission running VxWorks development -Control, or operating system R2 initially locally from Strength mounted on International Can lift Space Station mobile base (ISS) laptop 9.5ka **R2 IN SPACE** Shuttle Discovery Testing

will deliver R2 in mutipurpose storage module

Source: NASA

R2 will work in **Destiny laboratory**, providing data on

providing data on vibration, zero gravity, radiation exposure, and electromagnetic interference

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Task

board

Stand

mount

and