Giant unmanned airships to patrol Afghanistan The U.S. army is to deploy a huge hybrid airship as large as a football pitch to watch over battlefields in Afghanistan. Capable of carrying very heavy loads, it can stay in the air for up to three weeks at a time LONG ENDURANCE Forward Bowthruster MULTI-INTELLIGENCE propulsor **VEHICLE (LEMV)** ducts Skin: Blend of Vectran. Kevlar and Mylar, capable of withstanding small arms fire Rear Pavload propulsor module duct **SPECIFICATIONS Endurance** 21 days Service ceiling 6,000m Mixture **Pavload** Over 1,000kg of 60% helium Radar. and 40% air makes full-motion Range Around 3,000km video, and LEMV less vulnerable Top speed 150km/h to enemy fire than Fuel/ communications-16 kilowatts **Power** hydrogen-filled Freiaht intelligence Zeppelins of WWI module payloads Cost \$95 million HYBRID AIR VEHICLE: LEMV gains lift from 3 different sources U.S. ARMY U.S. ARMY U.S. ARMY 3 Aerostatic lift Aerodynamic lift 2 Vectored thrust Generated by From 4 diesel engines, mainly Generated by helium body hull shape contained within craft for take off and landing With potential lifting C-5 Galaxy: U.S. military's capacity of up to largest transport, can shift 200 tonnes and ability up to 120 tonnes of cargo to land anywhere, including on water, LEMV has advantage over conventional transport aircraft Sources: Northrop Grumman, Hybrid Air Vehicles @ GRAPHIC NEWS