

AVIATIONWEEK[↑]

& SPACE TECHNOLOGY



Digital Extras Tap this icon in articles in the digital edition of AW&ST for exclusive features.

- 8 Feedback
- 10 Who's Where
- 11-12 First Take
- 13 Up Front
- 16 Going Concerns
- 18 Inside Business Aviation
- 20 Airline Intel
- 22 Leading Edge
- 24 Commander's Intent
- 26 In Orbit
- 27 Washington Outlook
- 79 Classified
- 80 Contact Us
- 81 Aerospace Calendar

U.S. BUDGET

- 28 **NASA readies** to defend boost to aeronautics funding for future commercial aircraft technology
- 29 **Robotic satellite-servicing** experiment Restore-L could replace Asteroid Redirect Mission

- 31 **F-35 funding cuts** and a surprise lower price for the new bomber are a bonanza for new projects

DEFENSE

- 34 **Pentagon test** report finds combat limitations due to technical problems in initial F-35 versions
- 43 **Japanese engineers** prepare to build a demonstrator engine core for an indigenous fighter for 2030s

52

Having turned a corner in its battle to put new aircraft development back on track with the 787-9, Boeing is banking on a speedy test and certification effort to sustain the recovery with its 737 MAX.



- 44 **Lockheed Martin** proffers Long-Range Anti-Ship Missile for U.S. Navy need to arm surface vessels

COMMERCIAL AVIATION

- 36 **House plan** to spin off the FAA's ATC and modernization into private corporation moves ahead



- 40 **China Eastern** will buy 100 more aircraft—including Airbus A350s soon—to meet its 2020 fleet target

- 74 **Airbus A380** order and a low-cost subsidiary are key to All Nippon Airways' international growth plan

SAFETY

- 42 **U.K. air shows** fear tighter regulations, higher costs after fatal 2015 Shoreham accident

SPACE

- 46 **Australian team** starts flight tests of subscale reusable launch system demonstrator
- 47 **Chinese astronauts** are scheduled to return to space this year in lead-up to building a space station

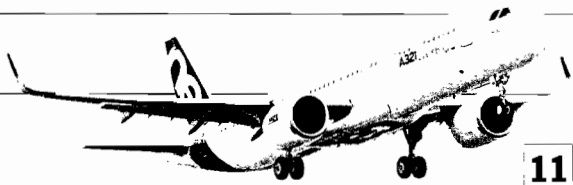
SINGLE-AISLE SHOWDOWN

- 48 **Airbus market lead** due to success of A321neo may force Boeing to make unplanned investments



ON THE COVERS

This week, Aviation Week publishes two print editions. On the cover far left, Boeing's 737 MAX makes its first flight Jan. 29. Photo by Paul Weatherman/Boeing. A special report on single-aisle aircraft begins on page 48. Elsewhere in both editions are reports on Singapore and the Asia-Pacific market (page 57), China's space plans (page 47), surprises in the Pentagon's budget request (page 31) and NASA's bid to boost X-plane projects (page 28). On the cover of our Defense Technology International Edition is an A-10 Thunderbolt, affectionately known as the Warthog and ~~warplane~~ kept alive in the Pentagon request. Aviation Week publishes a digital edition every week. Read it at AviationWeek.com/awst and on our app.

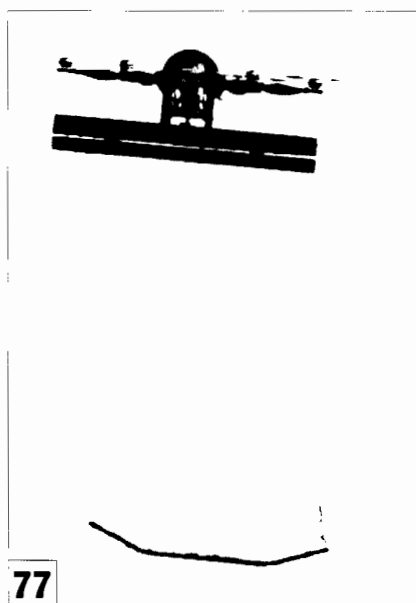


11

52 Boeing 737 MAX flight-test tempo increases; quick certification could mean earlier 2017 first deliveries

55 However good the Comac C919's performance is, Chinese airlines will see drawbacks in operating it

56 Russia's narrowbody plans slowed by MC-21 prototype composite wing manufacturing problem



77

SINGAPORE AIRSHOW

57 Singapore Airlines' subsidiary strategy leads Asia-Pacific response to low-cost carriers

58 Beijing's assertion of maritime claims prompts responses from Vietnam and the Philippines

60 Business jets are becoming the platform of choice for intelligence, surveillance and reconnaissance

ROTORCRAFT

65 China's Avic pursues joint light helicopter program with Russia to meet demands for training

COMMERCIAL AVIATION IN IRELAND

66 Irish government encourages innovation and growth in providing aviation-related services

68 Seeds of an aircraft leasing paradigm sown early in Ireland's aviation past continue to bear fruit

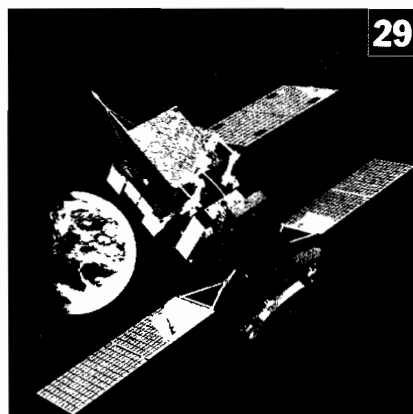
70 Has Ryanair transformed from the contrarian of Europe's airlines to being a mainstream player?

72 Aer Lingus, now part of IAG, sees opportunity in expanding its transatlantic network

SPECIAL REPORT: COUNTER-UAS

75 Authorities can detect and identify illegal use of small UAS, but can they take action against them?

77 From acoustic sensors to laser weapons, there is no shortage of innovation in countering UAS



29

EDITORIALS

82 Congress should approve the plan to increase NASA Aeronautics research—and stick to it

82 Before spinning off ATC from the FAA, Congress needs to take the time to get the details right