Est. 1955 Winner 2016

AVIATIONWEEK



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

- 7 Feedback
- 8 Who's Where
- 10-11 First Take
 - 12 Going Concerns
 - 13 Up Front
 - 14 Inside Business Aviation
 - **16** Airline Intel
 - 17 Leading Edge
 - **18** In Orbit
 - 19 Washington Outlook
 - 63 Classified
 - **64** Contact Us
 - 65 Aerospace Calendar

EUROPE IN CRISIS

- 20 Turkey's first failed coup reveals vulnerabilities that will complicate diplomacy, military cooperation
- **22 European carriers** reel from drop in traffic following terrorist attacks, Turkish political turmoil
- **24 Germany looks** to lead from the front on foreign operations and multinational defense programs

DEFENSE

25 U.S. Air Force may pursue two light-attack aircraft, possibly in parallel, to replace A-10 Warthog



34 Avic unveils amphibious aircraft that is hailed as equipment for claimed South China Sea



59 U.S. Air Force Reserve gains B-1 and B-52 experience, looking to take on the heavy bomber mission

GENERAL AVIATION

26 Flight safety efforts were in the spotlight at the annual EAA AirVenture show in Oshkosh

AIRSHIPS

- **28 French cargo** airship startup draws on ultracapacitors to carve out market niche
- **28 Ultracapacitors** may soon be used in hybrid propulsion systems and directed-energy weapons
- **30** Airship carriers could extend the capabilities of small and medium-sized unmanned aircraft systems



COMMERCIAL AVIATION

31 Longer-range narrowbody aircraft open fresh opportunities—and competition—on long-haul routes

33 Adding larger Airbus A321neos, AirAsia underlines its confidence in business model and prospects



POLICY

- **36 FAA extension** is fraught by looming privatization of air traffic management and other issues
- **36** Congress gives the FAA more time and money to develop specific regulations for UAVs

TECHNOLOGIES OF THE FUTURE

38 With more than 100 years of technology advances behind it, what lies ahead for aerospace?

READER MEMORIES

46 Our readers share how they found Aviation Week and what sparked their passion for air and space

SMALL SATELLITES

54 U.S. industry grapples with keeping smallsat operators viable without dedicated launch services

56 DARPA funds lightweight laser communications terminals that could have commercial application

SPACE

57 NASA opens the door to a privatesector economy in low Earth orbit with private-module concept



FACE TO FACE

60 Marillyn Hewson, Lockheed Martin CEO, on innovation, the F-35, Sikorsky, Brexit and U.S. election

VIEWPOINT

66 Abandoning its role as a leader of global alliances like NATO will not make America great again

