



THE NEED FOR SPEED HASN'T CHANGED

Overture, Racer and Seaglider are taking over from the Concorde of yesteryear, showing the spread of technology that allows greater numbers of us to access it

BY ROBET SAGGE

pend sells. Especially in aviation. If you're offering a service predicated on being laster and more convenient than ground transport, it makes series to keep turning up the died on speed. But in aircraft speed on speed, But in aircraft speed on speed, But in aircraft speed on the service of the service that it was carrying more fuel means carrying more weight, which entails higher fuel use. Carrying more fuel means carrying more weight, which entails higher fuel use to stoy alort and up feed. Such are the entities trade off or aircraft designers and plicts. For business jet buyers and flyers, however, the belience is titled towards saving fine. That is only verteral US aircraft measure. Cassen and Galfstreen for rearry years slegged it out in a context to have the socialed of producing the fast-est non-military airplane. A younger pretender has now, though, made a huge stride towards knocking flose to be energy entitled to take over from Concords as the world's favourite supersons in August made its tid to take over from Concords as the world's favourite supersons in production version. With a projected cruse speed of

Mach 1.7, the 2017-long Overture will be a formidable 64-80-seat airliner or high-and business jat, with a range of 4250 neutool miles or 7867 km and the shilly to reach few York from London in three said a half house or Singapote to Dubai in four and a half house or Singapote to Dubai in four and a half house or custing conventional airliner trip times roughly in half. Entry isto service could be by 2029.

The aircraft will bristle with cutting-edge inchnology, including specifically designed Symphony engines, rated at 35,000 pounds of thrust for tasked? and capable of running wholly on sistingular aircraft amostly had a "decop-snoot" that ellowed the pilots to see the runway as the aircraft approached to land, the Overture will use a contribution of a synthetic vision and augmented reality based on views feel in from camens for some the contribution of a moveship the contribution of a moveship the contribution of a moveship deck, a customised vertice of land, the contribution of a moveship deck, a customised vertice of land, the contribution of a moveship deck, a customised vertice of land, the contribution of a moveship deck, a customised vertice of land, the contribution of a moveship deck, a customised vertice of land, the contribution of a moveship deck, a customised vertice of land, the plant of the 27-inch touchesceens that dominate the cooking it, despite neary commenter coming to realize that physical buttons are often easier to use.

costs so that supersonic travel will be assistate not just to the extremely wealthy, as was the case with Concords. Boom is not the enty company operating in the space left vasient by Concorde's withdrawal from service in 2003. The US habboral Aeronaudics and Space Administration and Loscheed Maritir are readying for flight the X-59, asimed at quieting the boom made when a marrial toposes the sound barrier, its success could lead to countries such as the US repositing leses bening superthe US repealing laws banning super-

sonic flight over land, That ban, culting the advantage of

That bars, cutting the advantage of supersonic speed except or one or water routes, is one of the reasons it has been so difficult getting a Concorde repiace meet of the ground. Before the latest crop of planned supersonic planes. Aerice, another US compens, was pushing its biget plan for 17 years before it ran out of money in 2021. There are other ways of getting speeding around the planet, though, UK company feeding in the planet of though, UK company feeding in the planet of though the control planet of the planet of though the control planet of though the control planet of though the control planet of the planet of though the control planet of the planet of though the control planet of the planet of though the planet of though the planet of the

hours to Sydney from London. However, in what for exection is a familiar development, it has exceed hy straigled with resing enough money to develop the ideas. Meanwhile Australia's Hypersonals based out plans for an aircraft that could thy at Mean 7 and cut the Sydney London time to semething like two hours. With defence funding for its Dart speceraft and hypersonic missiles. Inhough, the company may have a better chance of seeing its eincaft plans through to trainton.

The search for higher speed in non-specially extraint seeing and careful plans through to trainton.

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The search for higher speed in non-specially extraint seeing and careful plans and its fileact recently exceeded its target velocity by demonstrating a 227 sent (420kmpt) course speed. The basic serodyramics of retreating blode stall first most helicopters to 1400 kmpt.

The Rece, which looks like a conventional histoopher but with a pusher propeller at the end of a box wing on each sole of the tusedge, also addresses the energy westage in higger retroorser tuning for sefety. The Recer's hybrid electrical system allowes for one engines routning for sefety, the Recer's hybrid electrical system allows for one engines routning for sefety, the Recer's hybrid electrical system allows for one engines routning for sefety, the Recer's hybrid electrical system allows for one engines routning for sefety, the Recer's hybrid electrical system allows for one engine to be part on standing in cruise flight, cutting emission, reside and casts.

or standily in crusios flight, cutting emissions, noise and costs. Higher speed is also desirable on the water but all that dring against a ship's huif is costly. However, bessors from aircraft are addressing that.

Sovietiers wave standing circanopless such as the gast military Caspian. Sea Minester exploited ground effect – a wanged craft close to the ground or water rides on a low-dreg cushion of air. The Caspian Sea Minester could crube at 500 kmpt.

The idea has been nevived by US company Regent for its electric Seaplider, which is expected to crusies at 2500kmpt just above the waves. The low drag and look of a need for aircraft sevels of power reserves should give a remarkable range of 290km.

The Seaplider was hydrotoxis—



FOR BUSINESS JET **BUYERS AND** FLYERS, THE **BALANCE IS TILTED** TOWARDS SAVING TIME. THAT IS WHY CESSNA AND GULFSTREAM FOR MANY YEARS SLUGGED IT OUT IN A CONTEST TO HAVE THE FASTEST AIRPLANE.

effectively wings under the waterline to raise the hull out of the water at just over 30 kmph, before its wing starts (hying.

Swedielt company Condels also uses typitofolis to squeeze more speed and range out of the electric powerfroms in its backs and farries. The underwyter wings permit speeds and a range that toold be impossible if the entire hull of the vessel had to be pushed through the water. The need for speed, whether in the air or on the water, hasn't obtainged since Concord's maker highly in 1569, What has changed is the spread of the technology that allows greater numbers of us to access it.

The Dawn of Fractional Ownership for Aircraft in India?

If the challenges, including taxation, are overcome, we could see a defining reform that will change the face of non-scheduled aviation in India.

BY BAYANT NADKARNI

The most successful and proven alcreft operating model globally inch-scheduled that allows the largest alcreft feets is Practiceal Aurora (Ownership, Globelly, the industry leader is Necles, which has over 750+ business jats, all in this model (white all of Inda has just 180+ jets). There are many other such foreign companies.

MODEL WORKING

An extetion company wanting to con-duct fractional ownership business invests in the aircraft, imports, operates and mainteins it, and sells part shares the aircraft asset to a few interested prowners (1/8th, 1/4th, and so on). by owners (a, on, v, one of the sesset, where the co-conners may not be in avaiton business, but get 'preferred right to use 'the aircraft. All



along, the aircraft's possession and control revisions with the avoiding compeny, and if it is a NSOP, it can be chierared out to Sigh parties as with. The main advantage is that capital costs are spread across many coversa. It allows the advantage is that capital costs are spread across many coversa. It allows the advantage is many coversa. It allows the advantage of capital constrained constrained in the second of capital constrained constrained in the second of the second constrained constrained in the second of the second constrained constrained in the second of the second constrained constrained in the second constrained constrained in the second constrained constrained in the second constrained cons

CURRENT POSITION

The fractional recolal described above is not permitted in India, The Ministry of Civil Aviation (MocAl) is apprised of the motter and his studied in depth for restry has years with the CGA and Industry experts. Dearl policy guidelines are lying ready in

MoCA, but have not been released, due-to specific challenges outlined below.

ini DOCA port. As on date, the DOCA does not register more than one owner for an air-ord in lasts, as no policy gladeline afficient in the property of the lasts, as no policy gladeline afficient in the work of the last policy gladeline in the last (a) DGCA part-As on date, the DGCA does

will work — provided GST treatment is based on aircraft End Use being NSGP as their taxobon will be 8 Bis KGST. The supporting logic is that the aircraft was imported under NSGP scenes and continues to remain in NSGP's possession and control regardless of fractional sales, and unity factorized sales, and unity referential right of use is given to the coowners. So, will 2024 see any major amouncoments in this regard? If it does happen, it could be a defining existion reform that will change the face of non-scheduled variation in India. This worked so well showed. Why wall it not in India? What we need is a guiding policy framework dowing from the government. A framework that sets in motion operative and baselon changes. Let's see what the last few months of 2024 hold in store.

The writer MD, Fightsharee Private Limiter