

Wouter & Michael's Solo Newsletter

Monday 3 Apr 2023

What's On

Fri 7 Apr - Easter Good Friday

A public holiday here in Indonesia

Coming Up

Sun 16 Apr USA MotoGP

Sat 22 Apr Idul Fitri

Sun 30 Apr Azerbaijan F1 Grand Prix

Sun 30 Apr Spanish MotoGP

The News This Week

Europe to Australia in 4 hours

Flying across the world from Europe to a destination such as Australia currently takes around 20 hours in a regular passenger jet. But a Swiss start-up is looking to cut that journey time down to just over four hours - with a hypersonic, hydrogen-powered passenger jet.

Destinus plans a hypersonic aircraft to fly at Mach 5



Destinus has been testing its prototype aircraft

for the past couple of years, announcing successful test flights of its second prototype - Eiger - at the end of 2022. Now the company has announced participation in a programme run by Spain's Ministry of Science, as part of the Spanish government's plans to develop hydrogen-powered supersonic flights.

The agency overseeing the ministry's programme, the Centro para el Desarrollo Tecnológico e Industrial, selected the project as a strategic initiative under its Plan de Tecnologías Aeronáuticas (PTA). With an overall current investment of €12 million, the project involves companies and technology centres as well as Spanish universities. "We are delighted to have been awarded these grants, especially because they are a clear sign that Destinus is aligned with the strategic lines of Spain and Europe to advance hydrogen flight," Davide Bonetti, VP Business Development and Products for Destinus, said.



"For deep tech companies like us, access to these EU recovery funds is essential to carry out advanced research and accelerate the innovation needed to be competitive on a global scale. With these grants, hydrogen-based solutions for aeronautical mobility will be one step closer to becoming a reality".

The second prototype Eiger had successful test flights

Hydrogen power is the subject of a lot of research and development, with proponents pointing to its green credentials, the main byproducts of hydrogen combustion being heat

and water. The amount of heat generated presents a design challenge. Researchers at RMIT University in Melbourne recently developed 3D printed catalysts which they say can power hypersonic flight and act as a

cooling agent to combat the extreme heat generated when aircraft fly five times the speed of sound, which is around 6,100 km/h.

At those speeds, future commercial airlines would be able to fly between London and New York in around 90 minutes. Swiss start-up Destinus claims its technology will make a flight from Frankfurt to Sydney last just 4 hours 15 minutes as opposed to 20 hours, while a flight from Frankfurt to Shanghai would take 2 hours 45 minutes, eight hours shorter than that journey currently takes.

Mikhail Kokorich, founder of Destinus SA



Destinus partnered with Spanish engine manufacturer ITP Aero in June 2022 to develop a hydrogen engine test facility. The grant from the Spanish government will fund the construction of a test facility near Madrid where the air-breathing hydrogen engines will be put through their paces. A second grant project of €15 million will fund research into aspects of liquid hydrogen-powered propulsion. The project is part of Spain's push to be at the forefront of developing and producing hydrogen-based mobility in a number of sectors.



Solo News

The Joglo Bridge Erections

The Joglo intersection will be completely closed at the end of April 2023 to all Solo-Purwodadi traffic.

When completed, the rail bridge and intersection improvements should greatly facilitate traffic

The plan was disclosed by the Site Manager of the Joglo elevated rail project, Dendy Purbowo. "Later after Eid or the end of April we will close the road

completely," he explained. This closure of the Solo-Purwodadi road is to accelerate the construction of the first phase of the Joglo elevated rail KM 104+700 to KM 107+000.

Solo-Purwodadi road users will be directed to take an alternative route, namely to Jl. Kerinci, Jl. Bromo Raya, and Jl. Youth Pledge. However, Dendy explained that from early to mid-April 2023, his party was still implementing a conditional system or opening and closing roads. "For early April to mid-April there are still conditional openings related to land preparation and tool settings," he said.

Pak Dendy's erection is most impressive

The elevated rail project has entered the erection stage of the steel frame structure of the elevated rail bridge. Dendy said that the erection work is still being carried out at point P11 on the south side. According to him, the



erection stage of the steel frame structure of the flyover bridge will still be carried out for the next two weeks.

"I had an erection yesterday; Friday, I also had an erection, tomorrow I will also have an erection , God willing," he explained. Dendy said the erection process was still ongoing at point P11. After the erection work at point P11 has been completed, the next stage is the next erection work at point P10 on the north side. Dendy explained that the erection point at point P10 would be done after Idul Fitri.

This first erection is one of the heaviest components of the bridge's steel frame, where one part can weigh up to 50 tons. A special crane with a capacity of up to 275 tons was used to install the pieces. The construction progress of the Joglo Solo elevated rail has now reached 44 percent.



In 7 Years, A Total Lockdown

The problem of traffic congestion in Solo has no easy solution. It is predicted that the city will be totally gridlocked in 2031, or only 7 years from today.

Traffic jam at the Joglo intersection, Solo

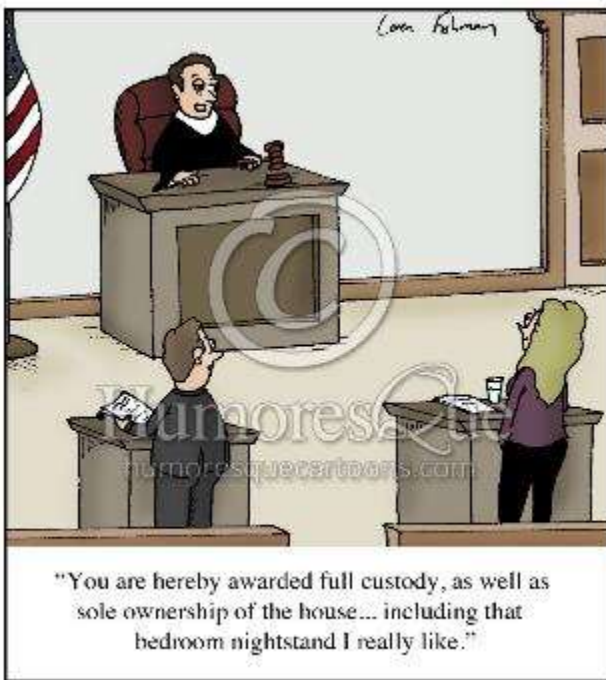
Dinas Perhubungan (Dishub) has come to this conclusion because motor vehicles are increasing at the rate of 4% per annum, but the infrastructure in our city is not improving. If there is no change of planning, Taufik Muhammad, the head of Dishub Solo says that by 2031 there will be a total traffic jam in Solo.

Kartini Count

Date	30.3.23
Km	784,648
Est. party date for 800,000km	31.7.23



Kartini the Kijang



Non-legal Naughties

In this holy month of Ramadan, there are still people committing sinful acts, During a police raid last week, three couples without marriage licenses were apprehended in Karanganyar hotels.

About 9pm last Saturday police officers visited various establishments in and around Karanganyar. Among them were AW Resto in Tasikmadu, Hotel Dewi Sri in Pandeyan, Hotel 48 in Jaten; Rainbow Karaoke in Jaten; Karaoke Happy Puppy in, Ngringo; and Santana Family Karaoke also in Jaten. As a result of the raids, a couple not husband and wife named G, 37 from Banyuurip dan PT, 40, resident of Popongan were apprehended at the Hotel Dewi Sri.

Police also caught 2 couples in Hotel 48 - TS, 29, a resident of Laban, Mojolaban with EAW, an 18 year old student from

Gentan, Sukoharjo. Also snaffled there were H, 42, from Ngringo with I, 40, of Tasikmadu. "All the couples were brought to the police station to give advice and instruction so they won't do it again," said policeman Bripka Sakti

Rewards For Getting This Far



Quote: "I haven't spoken to my wife in years. I didn't want to interrupt her." – American comedian Rodney Dangerfield (1921-2004)

Thought for the week: It's OK if you don't like me. Not everyone has good taste.

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Rodney Dangerfield

