



Pictured: A dog. Source: Canva

Dog nose prints

The wrinkles on a dog's nose are called a 'nose print.' Did you know that dog nose prints are unique, just like our fingerprints? This means that they can be used to identify lost dogs and reunite them with their families. A company called Petnow, from South Korea, has released an app that utilises AI technology for pet biometric recognition - phone based face ID for dogs. Upon finding a lost dog,

a person can use the app to scan the dog's nose and if the dog has been registered as lost, its location can then be sent to its owners. Stray dogs can therefore be checked by anyone to see if they are lost without any specialist equipment. Petnow says that it believes a dog's nose is the best feature to use for identification as after they are six months old a dog's nose print remains the same for its whole life!

Eco-friendly 'concrete'

Pioneer Fellow, Gnanli Landrou, is a man on a mission to make the construction industry more eco-friendly. The cement-free concrete he has invented and named Cleancrete, uses a special powder that can turn earth (which is recycled from building sites) and water into a solid building material. Once the ingredients are mixed together, they become a paste that can be moulded and which then solidifies in 48 hours! Turning mud into 'concrete' has a

far lower carbon footprint than traditional concrete and is about to be used in a new apartment block. This could make a really big difference as concrete is the most used building material in the world! Gnanli, who is working with ETH University in Zurich, said, "Cleancrete has the particularity to be 90% more eco-friendly than conventional concrete. Meaning that you have 90% less CO2 emitted during the production. This is a big factor."



Pictured: Above left Gnanli Landrou. Above right Cleancrete Source: Oxara @Oxara4 Twitter page.

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Solar powered electric car

Lightyear have announced that their solar-powered electric car will be released this year. The Dutch start-up company claim that, thanks to the curved solar panels on its roof and a 60kWh battery pack, the Lightyear 0 will be able to drive for months without being charged! They say on their Twitter page "Our mission is to bring clean mobility to everyone, everywhere. So, we created the first long-range solar electric car."

The car has a 388-mile (625km) range, with 44 miles being generated completely from solar. To make the car even more environmentally friendly, its features include plant-based leather, fabrics made from recycled PET plastic bottles and wooden decorative elements made from sustainably restructured rattan palm. The car is currently priced at €250,000 (which is around £215,000)!



Pictured: Lightyear 0 solar powered car. **Source:** Lightyear @lightyear_cars Twitter page.

Last week's topic:

How can we make sure that everyone is included?



By letting everyone have a part to do.

Nelson

We can make sure everyone is included by taking care of others and accepting differences.

Sofia

By making the rules of the game much more fair and more excepting [for] everyone no matter what they look like and their age.

Matilde

I think that we could make some things more accessible, for example, we could think about phone calls to the hospital or emergencies more easy to use for a hearing impaired person.

Ella

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