# Malaysia plants hope in dwarf trees

- The dwarf trees are about 30 per cent smaller than regular ones
- Small size makes it easier and quicker for the bunches of red berries from which the oil is extracted to be collected
- They produce about 37.5 metric tonnes of palm oil fruit per hectare
- In Malaysia alone, palm oil plantations already cover some 5.8 million hectares

### **Bukit Lawiang, Malaysia**

est tubes holding plants line shelves in a Malaysian laboratory, the heart of a breeding programme for dwarf palm oil trees which scientists hope will cut costs and limit the environmental damage caused by the controversial industry.

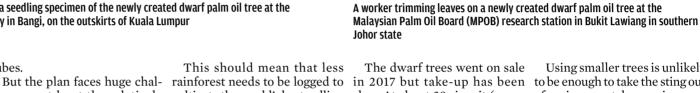
Palm oil has become a key ingredient in everyday goods from biofuels to chocolate, leading to a production boom in the world's falls in prices. top two growers, Indonesia and

expansion of plantations for laying waste to jungle that is home woes. to orangutans and other animals, as well as tribespeople's lands, and sustained environmental campaigns have damaged its im- sustainability," plant scientist age in the West.

porters, has led to precipitous and transferred them into test current per hectare average.



Malaysian Palm Oil Board (MPOB) laboratory in Bangi, on the outskirts of Kuala Lumpur



cultivation caused by voracious growth of plantations.

In Malaysia alone, palm oil plantations already cover some sustaining our daily life is a chalfarmers. 5.8 million hectares (14.3 million acres) -- roughly the size crude palm oil," he told AFP.

## 'Killer' price

As part of the palm oil board's breeding programme, the dwarf trees have been planted in several areas, including on an estate in Bukit Lawiang in southern Johor state. The dwarf trees there portfolio includes the palm oil forests," Mohideen Abdul Kad-The adverse publicity, comin the lab in the town of Bangi, space, and they produce about are about five metres (16 feet) bined with rising stockpiles and as other women in white gowns 37.5 metric tonnes of palm oil tall, compared to an average of sluggish demand from key im- and facemasks sliced at plants fruit per hectare -- twice the about 7.5 metres for conventional trees in the area.

The dwarf trees went on sale in 2017 but take-up has been lenges, not least the relatively cultivate the world's best-selling slow. At about 30 ringgit (seven of environmental campaigns and vegetable oil, and could make dollars) each, the seedlings are growing opposition to palm oil, around twice the price of con- particularly in Europe. ventional varieties.

Mohamad Isa Mansor, who The plan may help address has a five-hectare palm oil planthem -- but the cost was a "kill-

> "Smallholders are poor and lenge due to depressed prices of

He added: "To replant a heccost about 6,000 ringgit. Where are we going to find this huge

sum of money?" Minister Teresa Kok, whose should be no more clearance of sector, told AFP that the cash- er, from Friends of The Earth, strapped government "doesn't said. have funds to assist smallholders

Using smaller trees is unlikely to be enough to take the sting out

The latest challenge facing Indonesia and Malaysia is a move by the European Parliament to the problem of land scarcity for tation, said he wanted to buy ban the use of palm oil in biofuels, which industry groups claim would devastate the livelihoods of millions of small

> Environmentalists were positive about the dwarf tree programme, but said it needed to tare with the new variety will be accompanied by efforts to reforest areas already stripped bare for plantations.

> "My biggest concern about Nor does the government ap- the palm oil sector is the depear ready to step in and help. struction of biodiversity -- there

> "And if possible cleared junto do replanting at the moment". gles should be rejuvenated."



A research officer handling a test tube with a seedling specimen of the newly created dwarf palm oil tree at the

## MEILINA ONG-ABDULLAH PLANT SCIENTIST

Oil Board hopes an initiative a government agency. But green groups blame rapid to breed smaller trees could go some way to improving industry

With this smaller

variety, we can

improve yields,

maximise land use

and improve palm oil

sustainability

can improve yields, maximise means fewer workers are needed land use and improve palm oil

trees, which may make them more productive use of land that too expensive for many of the is being replanted after previous country's hard-pressed farmers. clearances. **Smaller space, more trees** The dwarf trees, which are

high price of the newly created

about 30 per cent smaller than regular ones and have shorter fronds, are the fruit of a decades-long research programme Now the Malaysian Palm by the palm oil board, which is

Their small size makes it easier and quicker for the bunches of red berries from which the oil "With this smaller variety, we is extracted to be collected, and

A greater number of the trees Meilina Ong-Abdullah told AFP can be packed into a smaller

## Airbus trials drone delivery to ships



Singapore is aiming to use drones for parcel delivery

## Singapore, Singapore

irbus yesterday began trials of drones delivering parcels Ato ships anchored offshore in Singapore, as the high-tech city rolls out the devices for an array of tasks.

Singapore is aiming to use drones for parcel delivery, inspecting buildings, providing security and other jobs, and is working with companies and regulators to put the ambitious plan into action.

European aerospace giant Airbus said it completed the world's first shore-to-ship package delivery using a drone. It involved the device carrying a 1.5 kilo (3.3-pound) parcel to a vessel anchored 1.5 kilometres (about a mile) from the coast.

The drone took off from a pier and landed safely on the ship's deck, deposited its cargo and returned to base, with the entire flight completed within 10 minutes, Airbus said in a statement. Airbus has partnered with maritime logistics and port ser-

vices firm Wilhelmsen Ships Services for the trials. The drones involved can carry up to four kilos of cargo and navigate autonomously along a pre-determined flight corridor

to vessels as far as three kilometres from the coast. At the moment, deliveries to ships anchored offshore are carried out by small boats.

The use of drones can make deliveries to ships up to six times faster, lower delivery costs by up to 90 per cent, cut companies' carbon footprints and is safer, Airbus said.

## Nations agree 'significant' plastic cuts

## Nairobi, Kenya

Nations yesterday committed to "significantly reduce" single-use plastics over the next decade, in a series of voluntary pledges that green groups warned fell short of tackling Earth's pollution crisis.

After marathon talks in Nairobi, countries appeared to have reached a deal over throwaway plastic items such as bags, cups and cutlery to reduce the more than eight million tonnes of plastics entering oceans each

The final ministerial statement -- issued on a day of youth protests against climate change -- made only two references to man-made global warming and none to the fossil fuels that drive

It said countries would "address the damage to our ecosystems caused by the unsustainable use and disposal of plastic products, including by significantly reducing single-use plastic products by 2030."

by the United States, were influential in watering down the pledge.

An initial ministerial state-



Children walk on garbage as others take part in an event to clear garbage from Lampung bay in the Sukaraja village in the **Bumi Waras subdistrict of Bandar Lampung** 

week had proposed a commit-told journalists before the final are at least five trillion plastic Sources close to the talks said ment to "phase out single-use decision. that several rich nations, led plastics... by 2025" -- a far reached.

ment at the beginning of the for all member states," said Siim more than 300 million tonnes nalists: "I will not answer that

stronger promise than the com-turning point. We don't need promise nations appear to have verbose documents, we need whether the US had played a concrete commitments."

UN environment assembly this Kiisler, UN assembly president, of plastics annually, and there question."

pieces floating in our oceans, "The environment is at a scientists have estimated.

When asked specifically spoiler role during the week's