



by way of sensors berky Scout navigates China; and Amazon's demonstration in A JD.com drone LAST-MILE FIXES



since been postponed due to the pandemic. 2020 summer Olympic games in Tokyo, which have packages. It had been planned to be unveiled at the the e-Palette, a minivan that can move people or

tailers like Amazon and major automakers to create autonomous vehicles and plans to partner with recle start-up that is developing the AI brains behind round for Aurora, a Silicon Valley self-driving vehisame time, Amazon led a \$530 million investment ed another \$500 million in the company. Around the a sport utility vehicle. Ford later that year investis developing a battery-powered pickup truck and ment round in Rivian, a Michigan company that In early 2019, Amazon led a \$700 million invest-

One thing that's almost certain is that when austate-of-the-art autonomous vehicles.

an or other car. crash into a tree rather than collide with a pedestrior drivers of other vehicles. In other words, they'll themselves to avoid harm to pedestrians, bicyclists an accident, the vans will be programmed to sacrifice er bender, that's unfortunate, but not a tragedy. In Dr. Bronner's castile soap gets crushed in a fendthe risk posed by self-driving vehicles. If an order of rying packages rather than humans greatly reduces numbers, they'll be delivery vans. That's because cartonomous vehicles do first appear in significant

of complex cityscapes—reducing the chance of naviand therefore can more easily learn the ins and outs is that, for the most part, they have predictable routes Also favoring delivery vans in this first-mover role

> and other crucial goods. healthy enough to keep delivering food, medicine enough warehouse and delivery workers will remain ing, among other safety measures. The hope is that 31,000 thermometers and to institute employee tested second-quarter profit—to buy 100 million masks, said it would spend \$4 billion-more than its projectto protect them. In response, Amazon in late April who believed that the company wasn't doing enough es and was hit by a handful of strikes by employees fered outbreaks of the virus at some of its warehousitems. At the same time, the e-commerce giant sufies, household goods, medicines and other essential Prime customers and has had to prioritize grocercan no longer offer one- or two-day deliveries for its ins. The demand is so overwhelming that Amazon bling to make deliveries to coronavirus shut-Direct have seen online orders soar and are scram-As a result, Amazon, Walmart, Instacart and Fresh

rea bringing everything from Beyond Meat to oat that it will—one could imagine our robotic breth-When that day comes—and Bezos is betting billions be unstoppable because robots don't catch the flu. drones buzzing to their destinations. And they will vans, small bots rolling through neighborhoods and ture where packages will be delivered by self-driving into the autonomous vehicle race. Bezos sees a fufounder and CEO Jeff Bezos has jumped headlong that could help contain future epidemics. Amazon's azon and others have been working on a technology While it's too late for this round of the virus, Am-

that's not why Bezos is embracing this technolo-While helping the afflicted is a noble cause, milk to millions of quarantined souls.

edge over its competitors. more than \$10 billion a year, and giving it yet another ping costs by more than 40 percent, saving Amazon a customer's door will allow retailers to slash ship-& Company predicts that autonomous deliveries to half of the total cost of shipping a package. McKinsey the costs pile up. It can account for more than on the high end from \$7 to \$10. The last mile is where previous year. The cost of a single delivery can range lion on shipping—a 23 percent increase from the company a fortune. In 2018, Amazon spent \$27 bilis that delivering food and other goods is costing the gy. The challenge for Amazon and all other grocers

is developing a self-driving concept vehicle called proper lane. In its partnership with Toyota, Amazon traffic is traveling to help a vehicle safely enter the helps autonomous cars figure out which direction 2016, the company earned a patent for a system that it a potentially formidable player in the field. In puting power and machine-learning expertise make autonomous delivery vehicles. Amazon's vast com-So the race is on to create reliable and affordable

> formidable player **Μλελ**{κι ciśc/opujsać koszty space spibbing costs czegos stanowić część for something account spiętrzac się - uagromadzać się, dn əjid w potrzebie pomagać ludziom cierpiącym [tu:] - dosł. pomagać help the afflicted bracia, [tu:] roboty zrobotyzowani - qosf. robotic brethren nłsymen zed i məmzsizutnə z zvobić coś something Jump headlong into Kluczowy towar crucial good koronawirusa

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Newsweek

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arobna stłuczka,

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fender bender

najwyższej klasy

state-of-the-art

utility vehicle

potéżny gracz

bojazd uzytkowy