The Future of Transport
By Niclas Braun, CEO CARGODRONE
Three problems caused by our transport system
Number one: health
7,700,000 people died last year from microscopic particles.
Mainly emitted by transport and industrial activity
Such as sulfur dioxide and toxic metals
Number two: money
We need $94 trillion spent on infrastructure by 2040
With the risk of 25% being unfunded
Spending is cut at an average of 11% per year.
This curve predicts exponential growth in traffic.

$\text{\$ needed}$

$\text{\$ actually funded}$
Number three: time
The most valuable asset we will ever have
And we lose an average of 42 hours every year through traffic.
If we look at this for 80 years, each person loses almost half a year
By 2030 alone, the volume of traffic could rise by 50%.
Why don’t we just speed up the construction of our infrastructure?
Governments often need more than 15 years for simple bureaucratic approvals.
And how can we finance more in even less time?
It is really bad
7,700,000 deaths

$94 trillion

42 hours
But why don't we question the status quo in general?
Because we take steps forward... but not beyond
Everyone is saying that autonomous electric vehicles are our solution
In principle, a good thing. But...
7,700,000 deaths
$94 trillion
42 hours
Are there any solutions yet?
Rail: Wrong century

HYPERLOOP: Too expensive

Electric cars: Intermediate solution

Boring Company: Really?
Of course, there are also great approaches here...
Autonomous vehicles could dominate metropolitan areas
Hyperloop could connect metropolitan areas on shorter routes
The Boring Company may build tunnels for Hyperloop
Rail transport: Expensive, slow and more weather-prone
None of these transport solutions will handle most of the transport volume
We shouldn´t rely on expensive infrastructure in a future we can´t slightly imagine.
If we did not need any infrastructure, what would we spend $94 trillion for?
We could build a moon base
And bring people to Mars to restore the planet
And research better energy solutions
$94 trillion is worth around 108 times the company Apple
Let’s cool down
And start elaborating why we move forward so quickly
Worldwide digitalization brings the internet to everyone everywhere
It builds two key trends: **E-commerce** and **Individualization**
Thanks to these two trends, the transport sector is literally skyrocketing
But why isn´t there a solution yet?
Governments, society and the right timing combined
We found the solution
Imagine a world with autonomous heavy-duty drone swarms
Video: www.cargodr.one
The key? Aerodynamics!
Creating enough uplift to make long-distance travel possible
I’ve talked about the right timing – is technology ready?
It depends on three main technologies
Battery technology

Sensor technology

Automation through software
40 % more cost efficient and five times faster than a semi-truck
KEIKA compared to a semi-truck: cost efficiency

- Semi-truck: $1.62 per mile
- KEIKA: $0.97 per mile
KEIKA compared to a semi-truck: time efficiency

1 load per day  
Semi-truck

5 loads per day  
KEIKA
Meet the first CDT drones
Next year, first CDT drones will be deployed in large production facilities
Creating the basis for future intralogistics
Based on our first prototype
Able to transport smaller goods
In mid-2020, we will introduce a much larger drone capable of transporting over one ton of payload.
And thus fundamentally attacking freight traffic
“The world is changing very fast. Big will not beat small anymore. It will be the fast beating the slow” (Rupert Murdoch).