MEATISAN BACKBONE?

And what makes a good one?



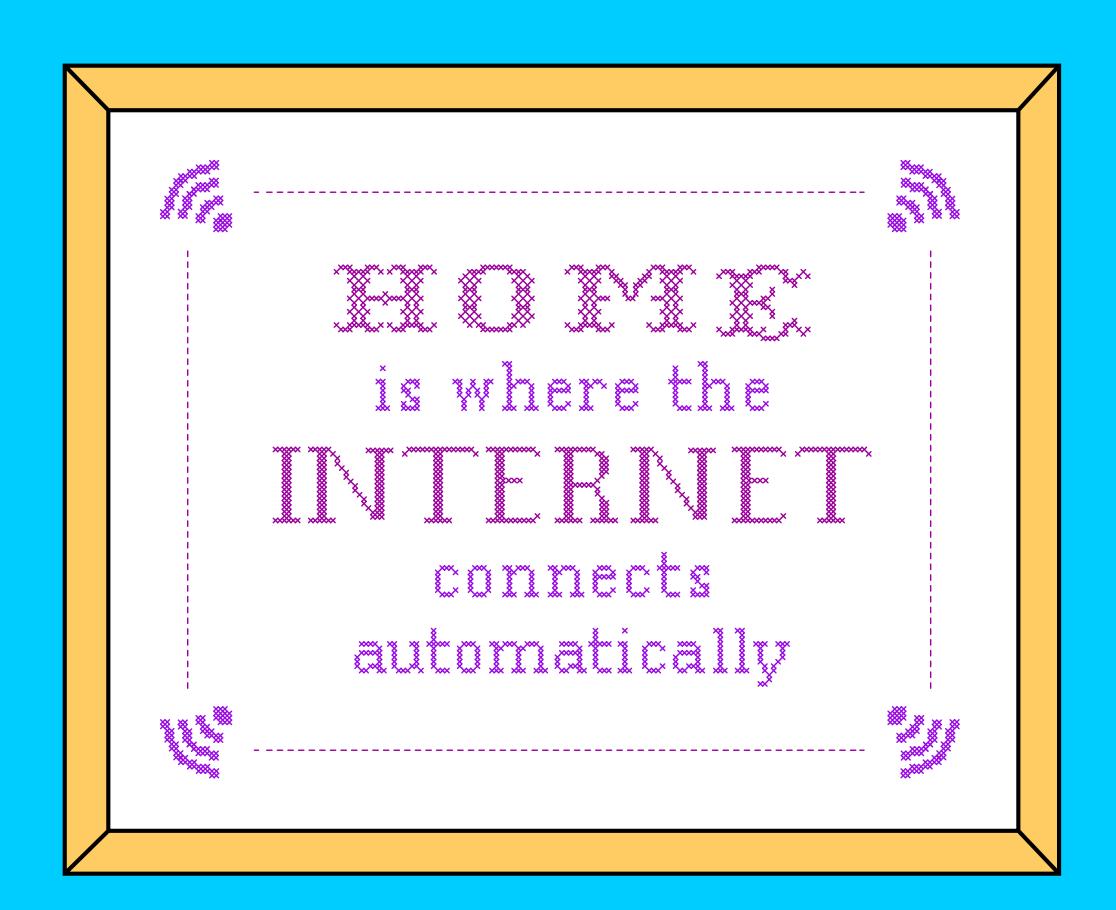
WHATIS AN INTERNIET BACKBONE?

In plain English

If you already know, skip to...

WHATMAKES AGOOD AGOIT ON THE STATE OF THE ST

The Internet used to be novelty – now it's necessity.



But what keeps the world connected?

It all starts with you.

You want it all. Any time, anywhere and on any device. But with more than a billion websites, 3 billion people and 50 billion things on the net, how can you connect to them all?



You start by connecting to a local Internet Service Provider (ISP) or Mobile Network Operator (MNO).

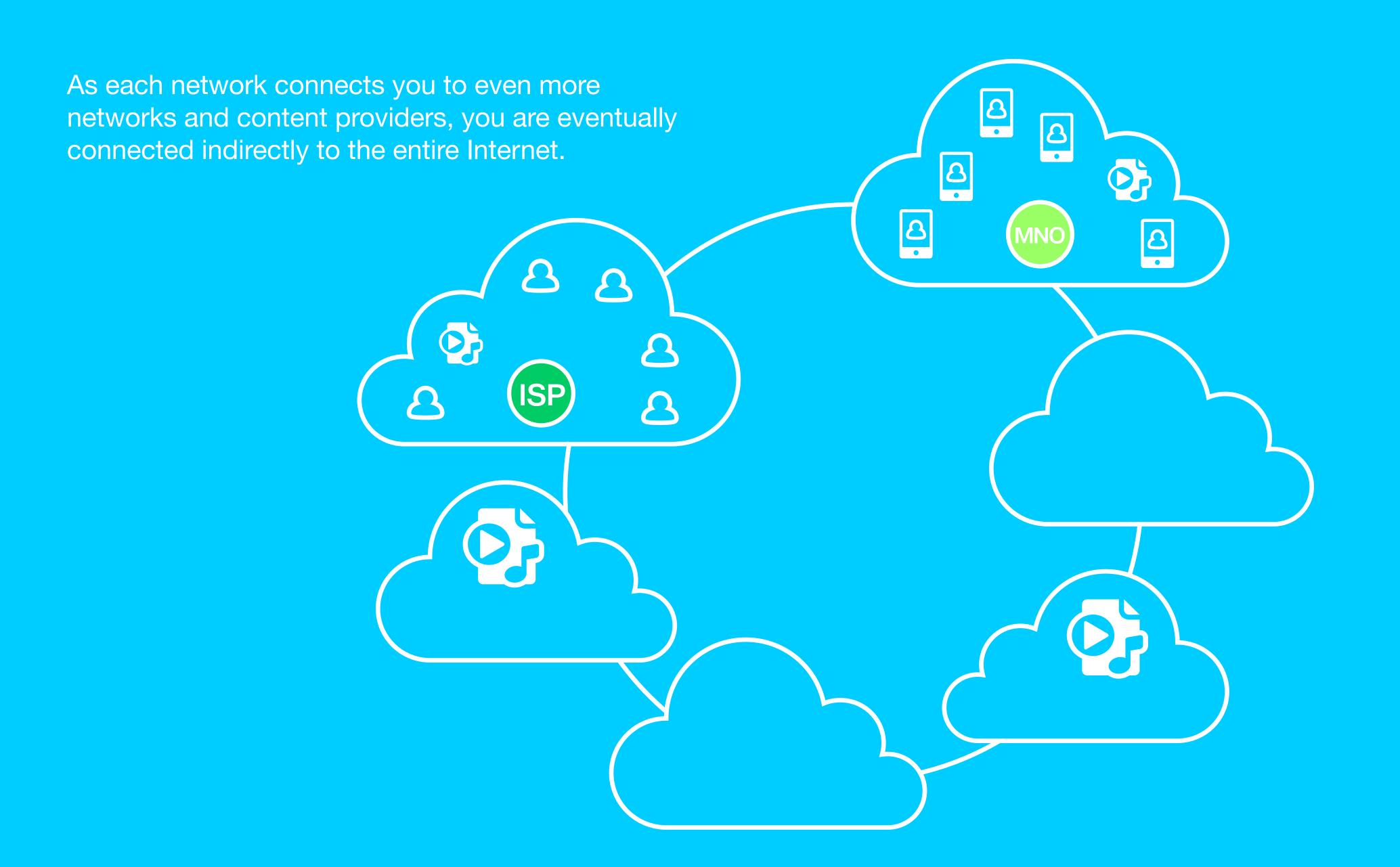


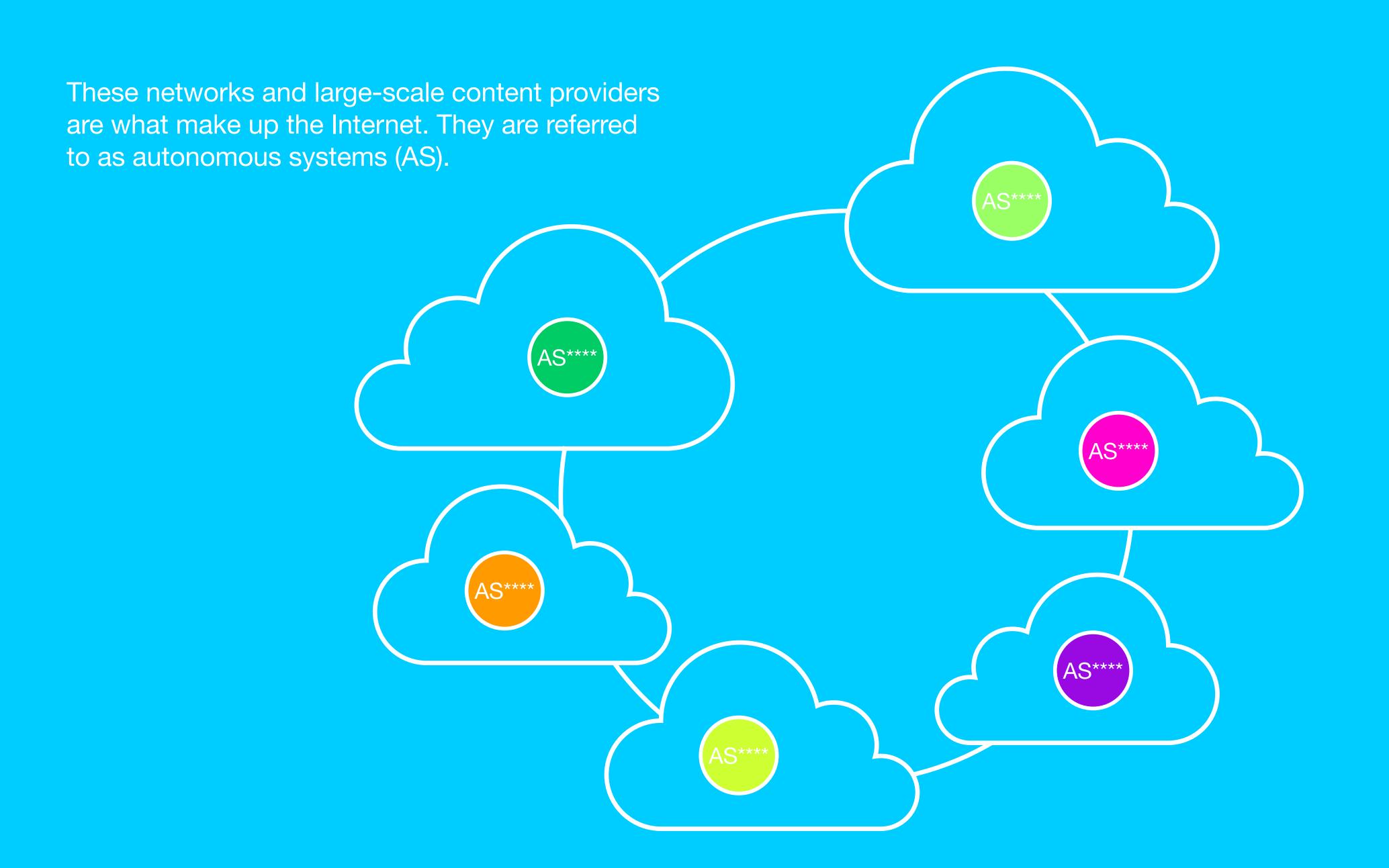
This connects you to everyone else and all the content on that network.

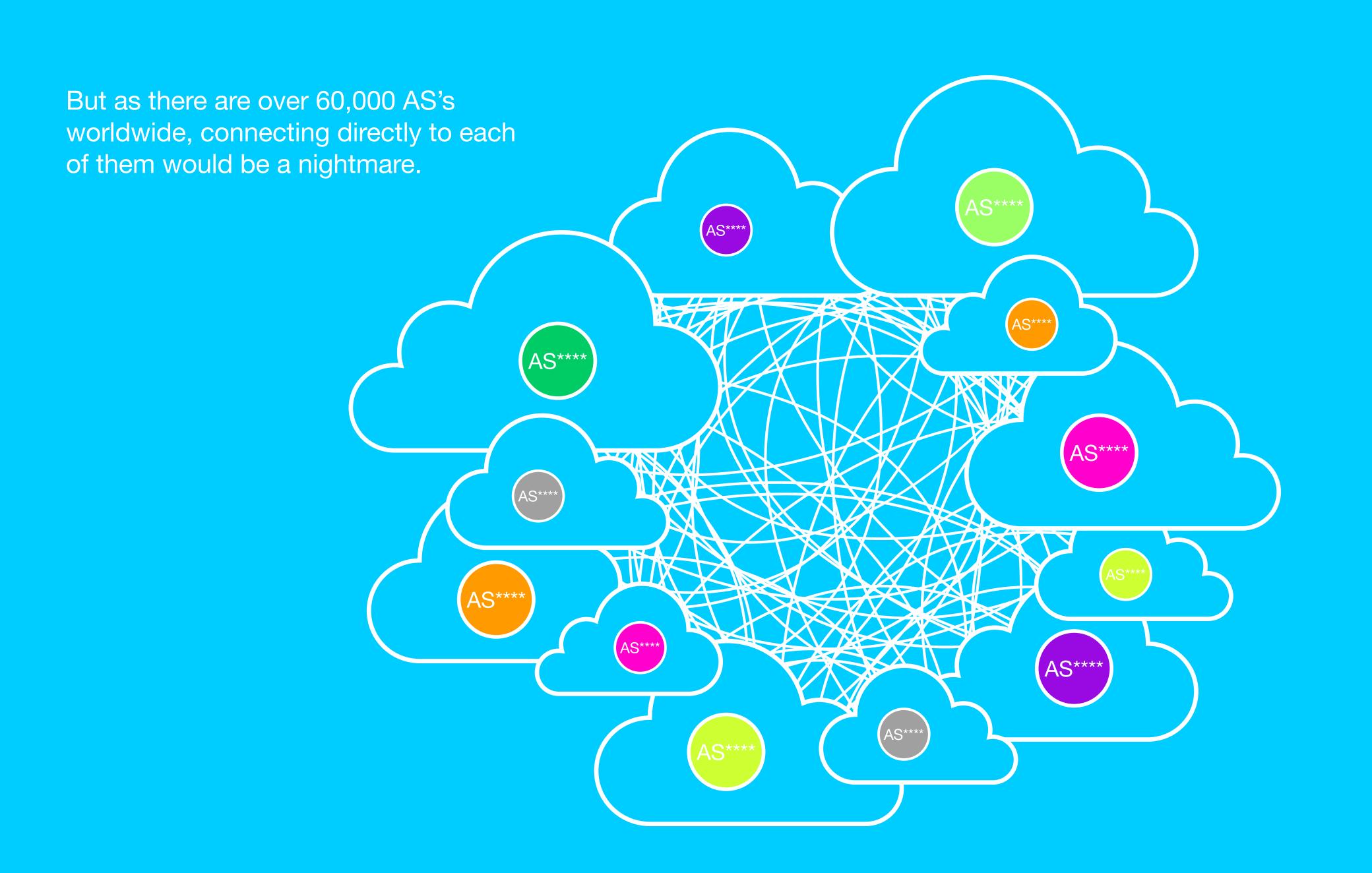


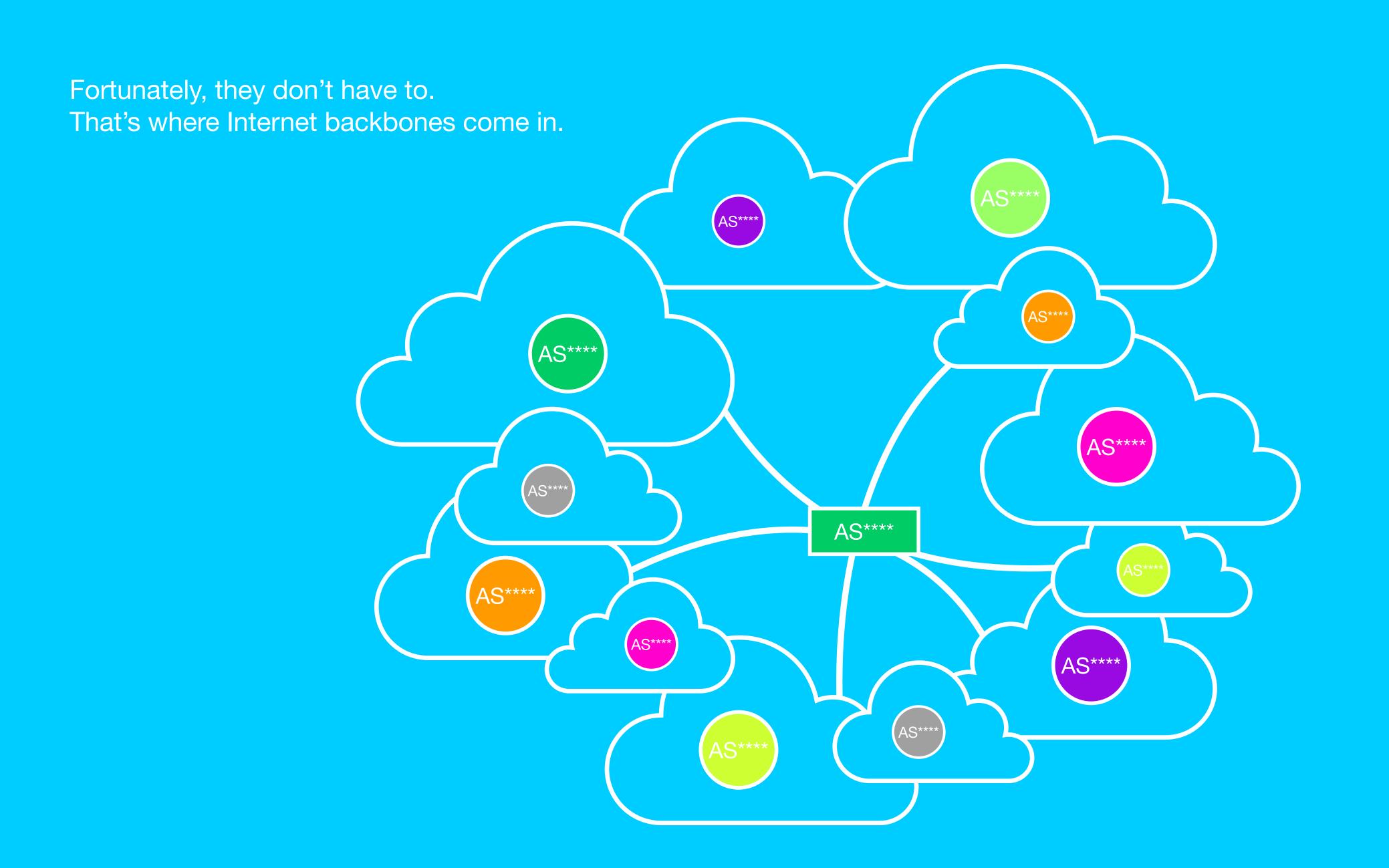




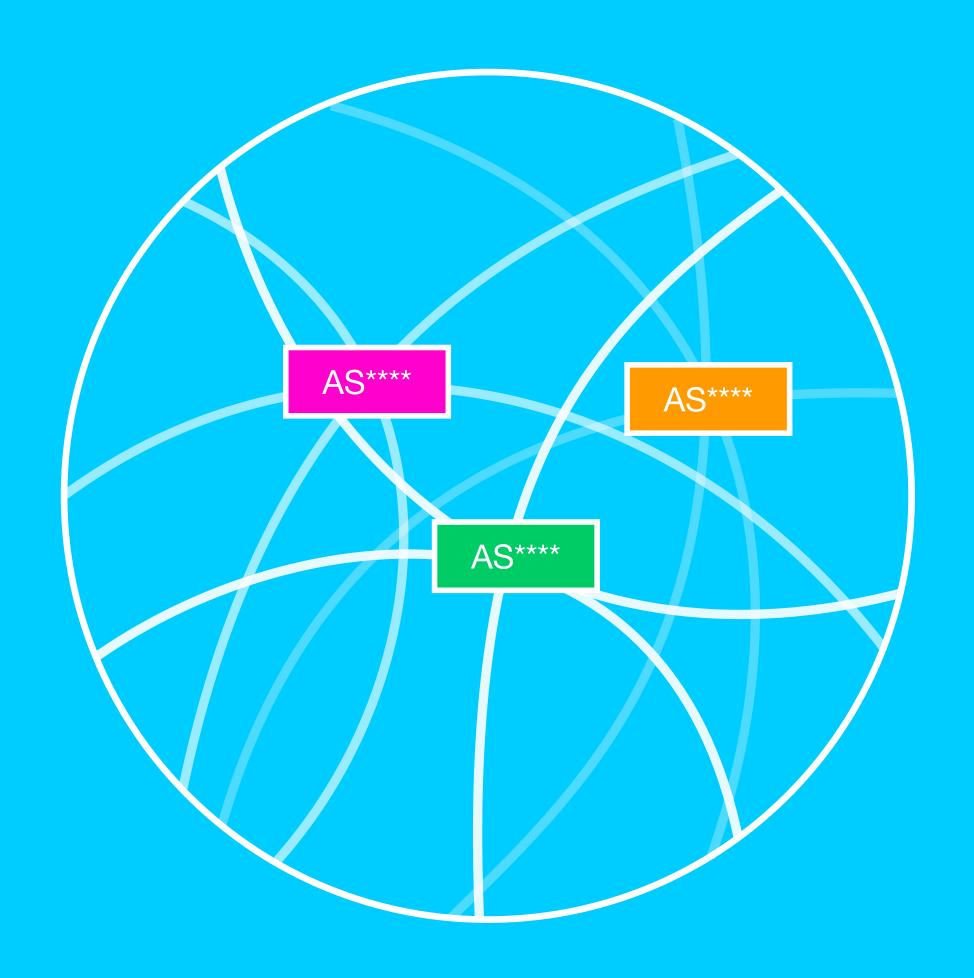








Internet backbones are the large global networks that connect the entire Internet.



WHATMAKESA BACKBONE?

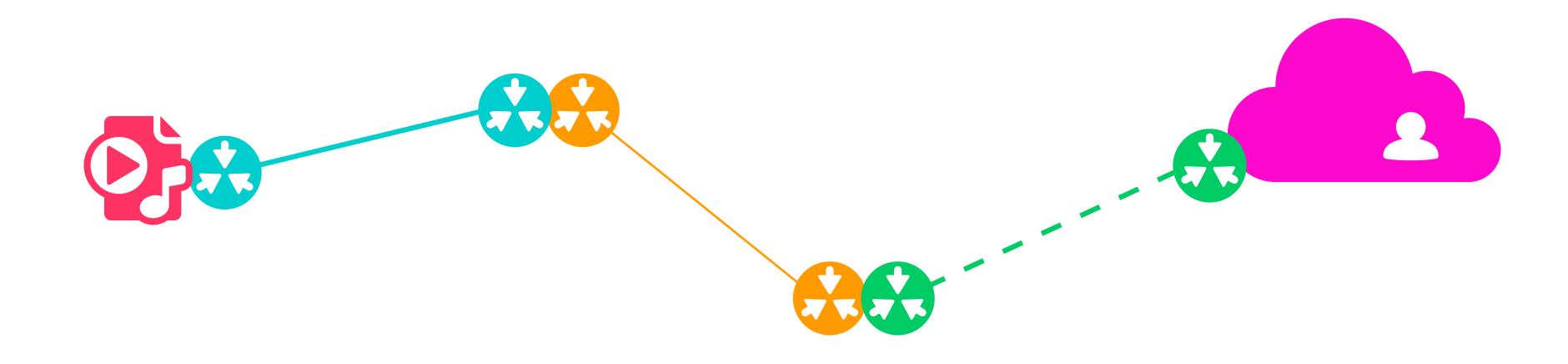
The 6 things you need to know.

DIRECT CONNECTION

Every hop costs you

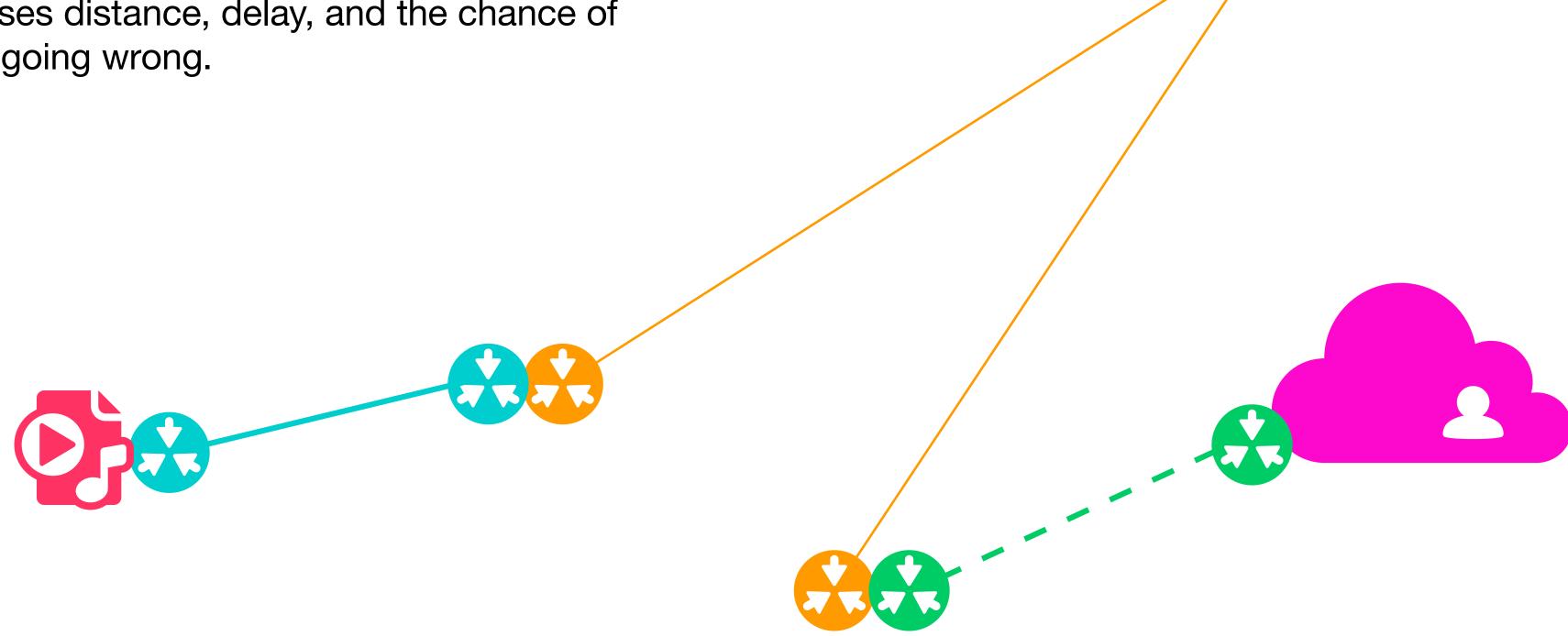
No backbone can reach the entire Internet on its own. They need to connect with others. But each time traffic "hops" from one network to another, it causes a slight delay and can increase lag, jitter and packet loss.





Avoid tromboning

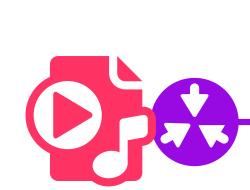
Some backbones take this to extremes. Where they don't have direct interconnection between 2 points, they will cross oceans for a cheap interconnect. This increases distance, delay, and the chance of something going wrong.





You can't beat a straight line

Direct connection gives end users the best quality connection. It is also provides the best quality connection between networks.



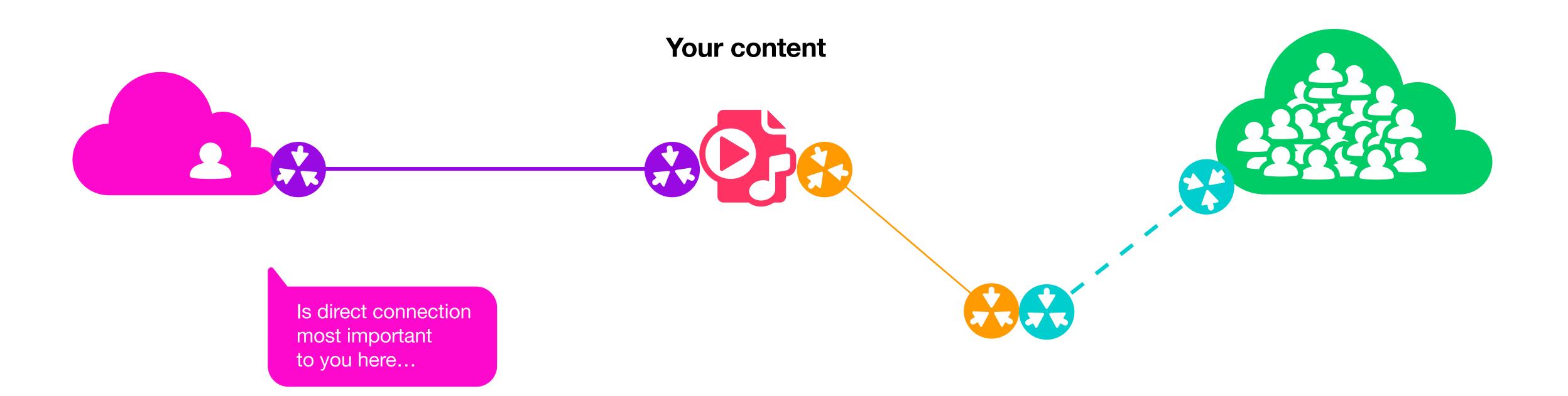






You can't beat a straight line

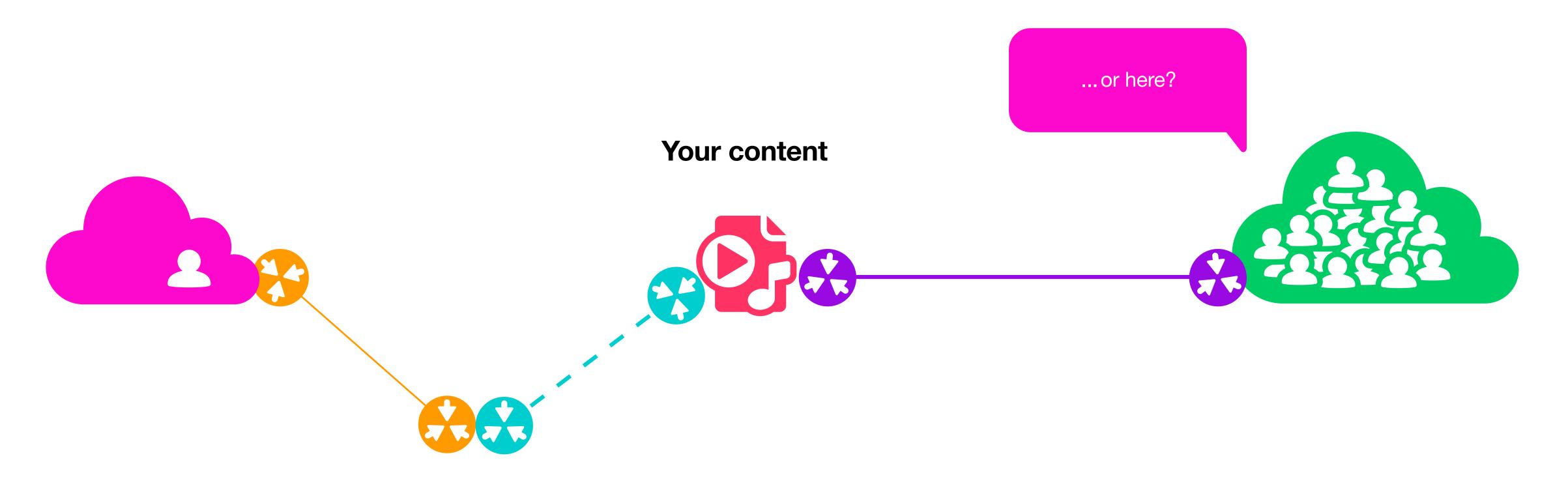
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Be direct

Look at your traffic flows and make sure you have direct connection where your demand is greatest.

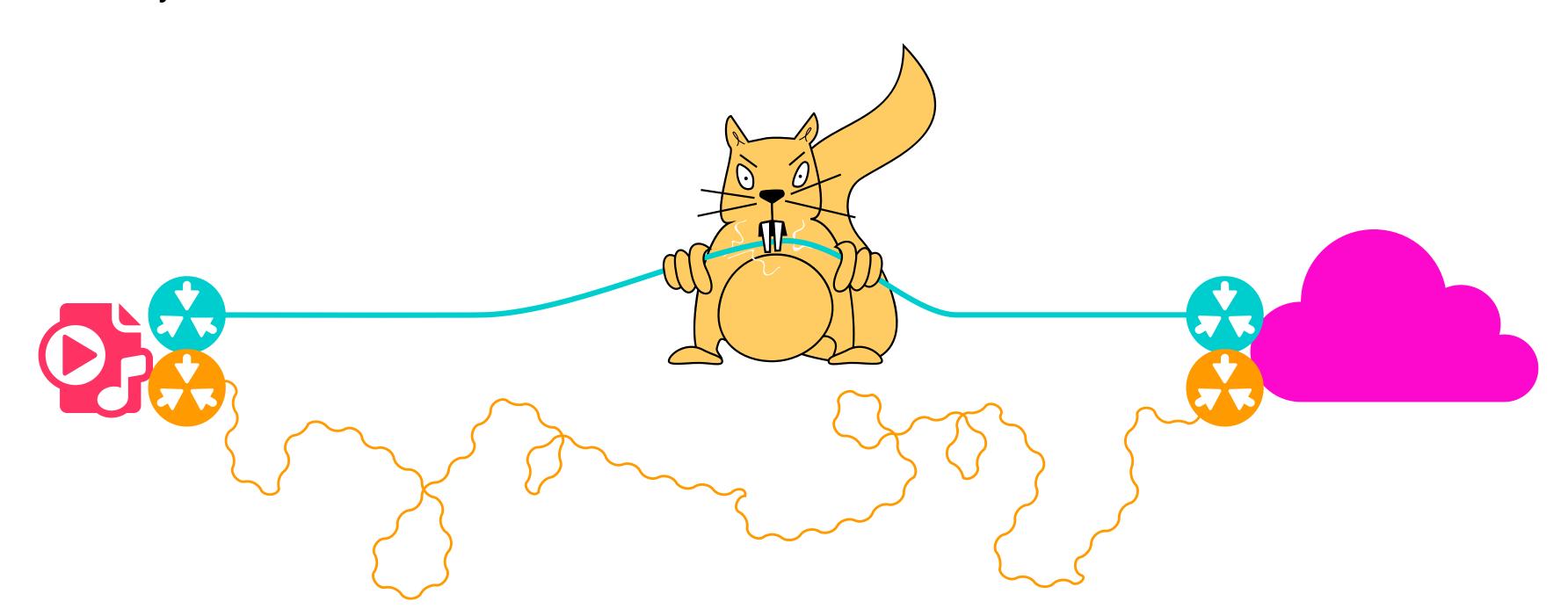


BIVERSITY

3

What happens when something goes wrong?

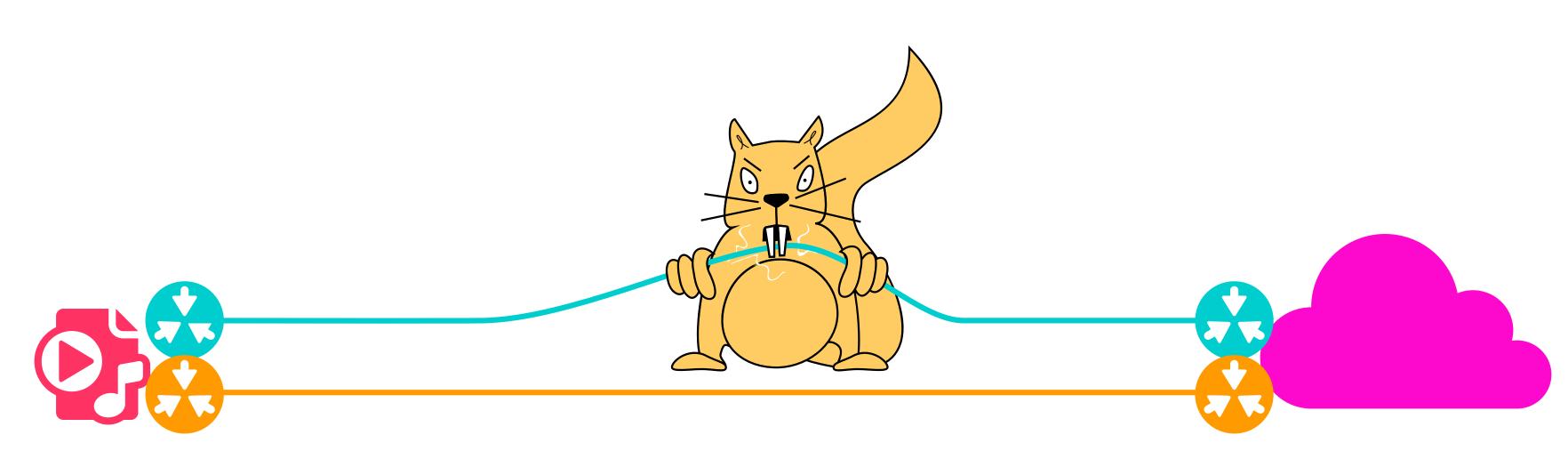
The Internet might be one of history's greatest innovations, but it can still be nibbled through by a squirrel or a shark. That's why you need network redundancy via diverse network routes.



3

Is "Plan B" as good as "Plan A"?

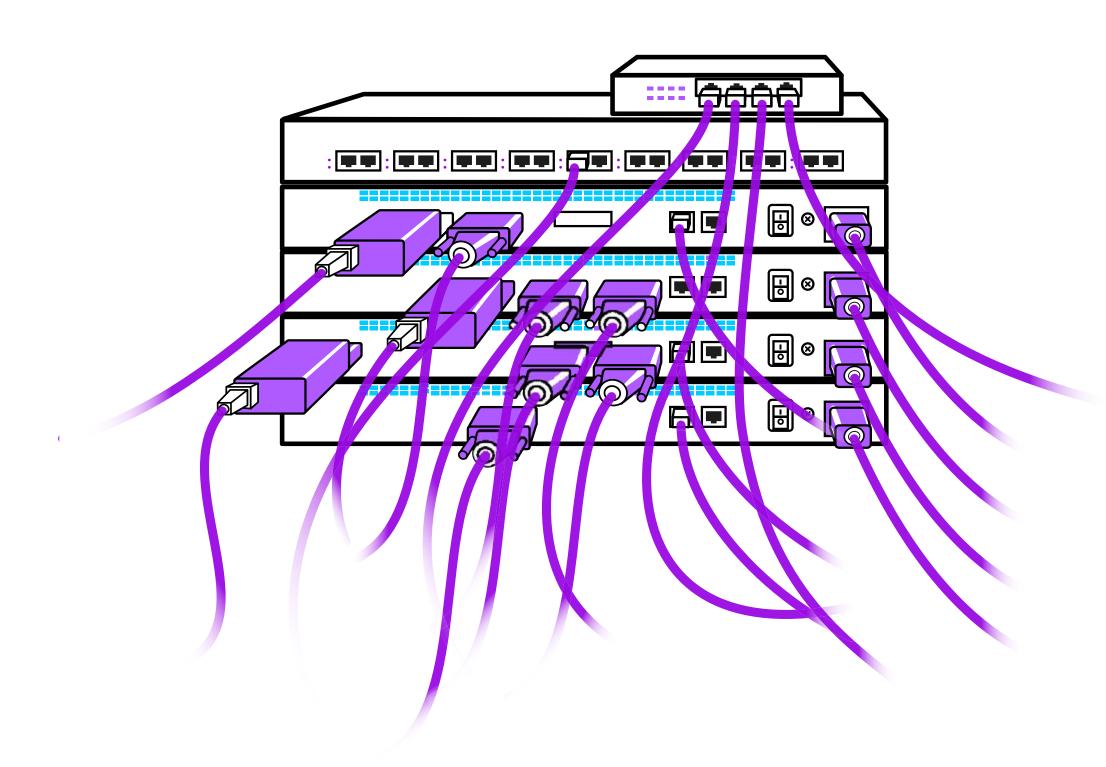
If anything goes wrong, anywhere on your backbone, you should always have a backup route that delivers the same level of performance as your A Route. That way, your end users won't even notice.



4 TECHNOLOGY

What's powering your traffic?

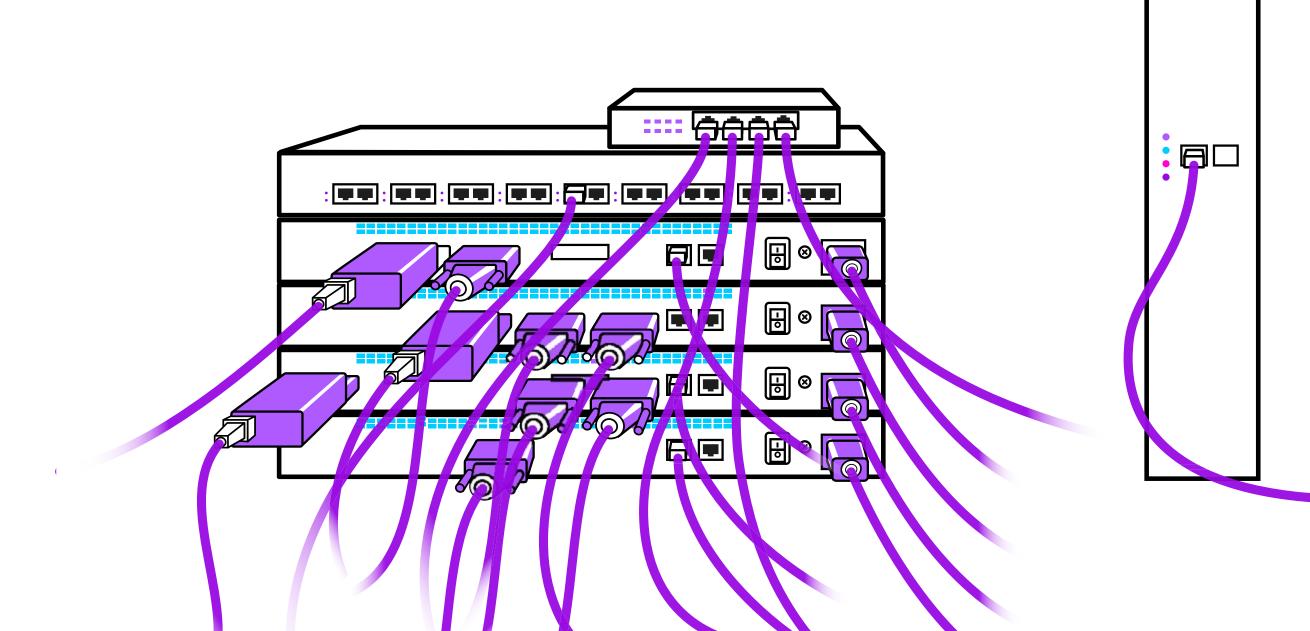
Optical fiber is the same on any backbone. What you can do with it isn't. Some carriers still use equipment dating back to the great Internet boom.





Think inside the box

Some carriers invest in technology that makes life a whole lot easier. Ask about 100G ports, super-channels and dynamic provisioning to find out what type of carrier you're talking to.

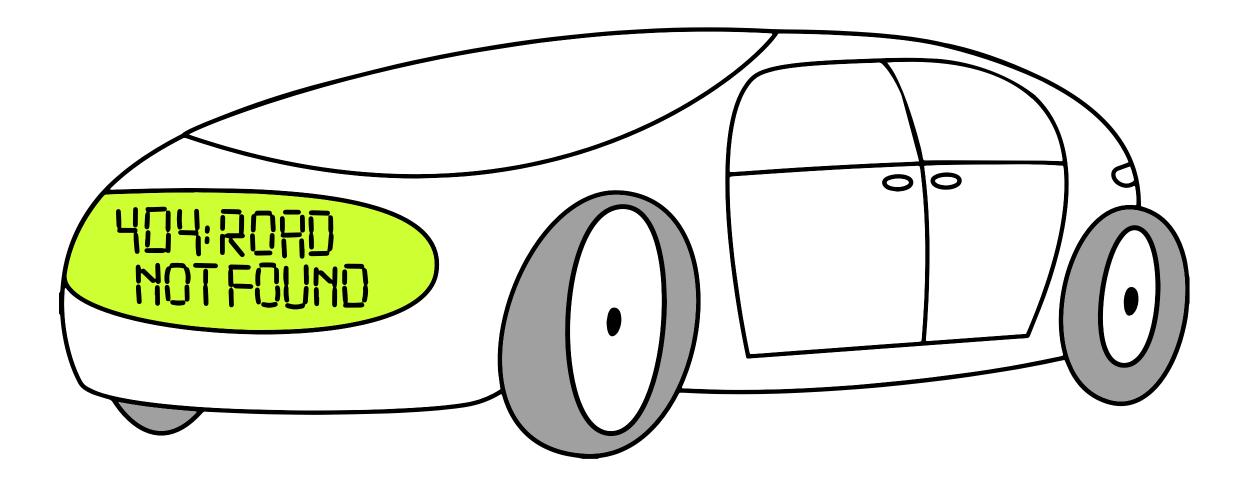




Are you connected to tomorrow?

From mobile phones to self-driving cars, your backbone must support any device and every type of traffic. This means being fully enabled for IPv6 as well as IPv4.





(5) PEOPLE

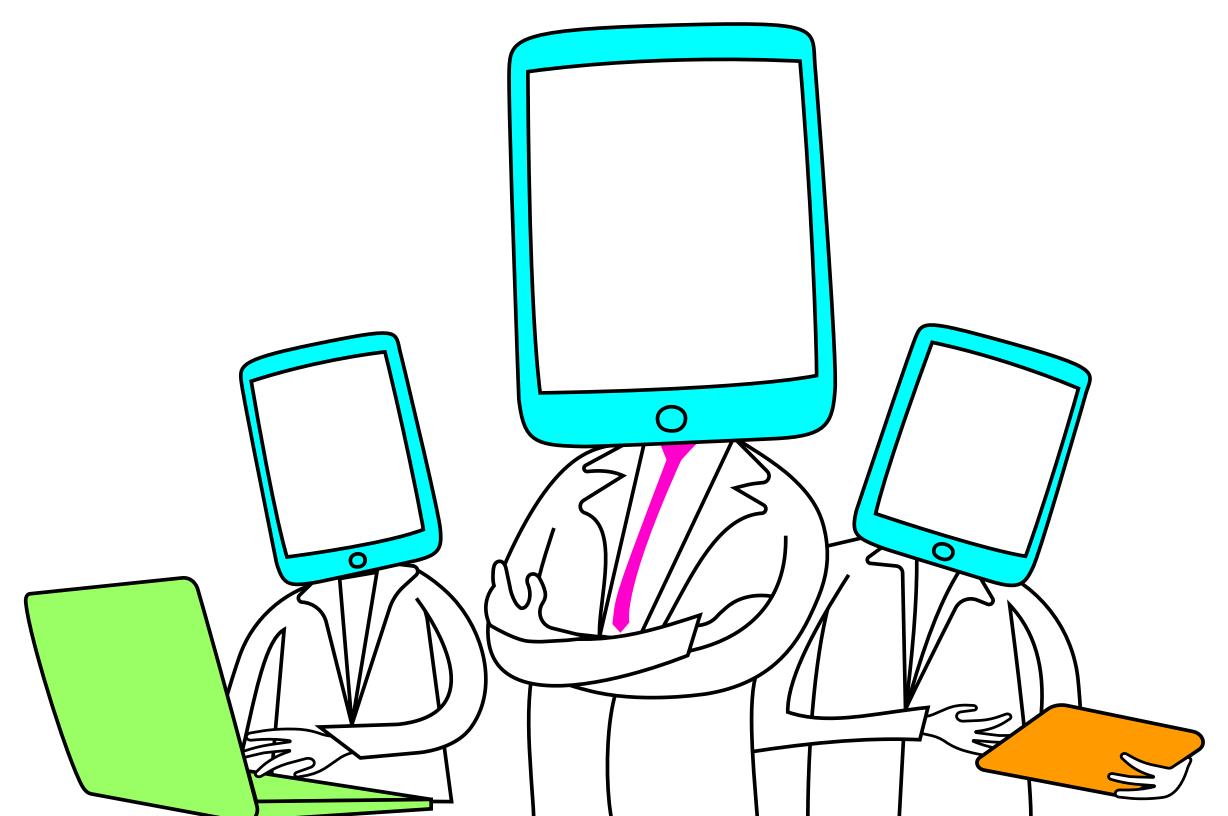
Computers are useless

- they can only give answers.

The most important connections in any network are people.

Of course, customers also need automated tools that put everything they need at their fingertips. But when it comes to designing a network – or fixing one – you need real people. And in a young industry, experience counts for a lot.

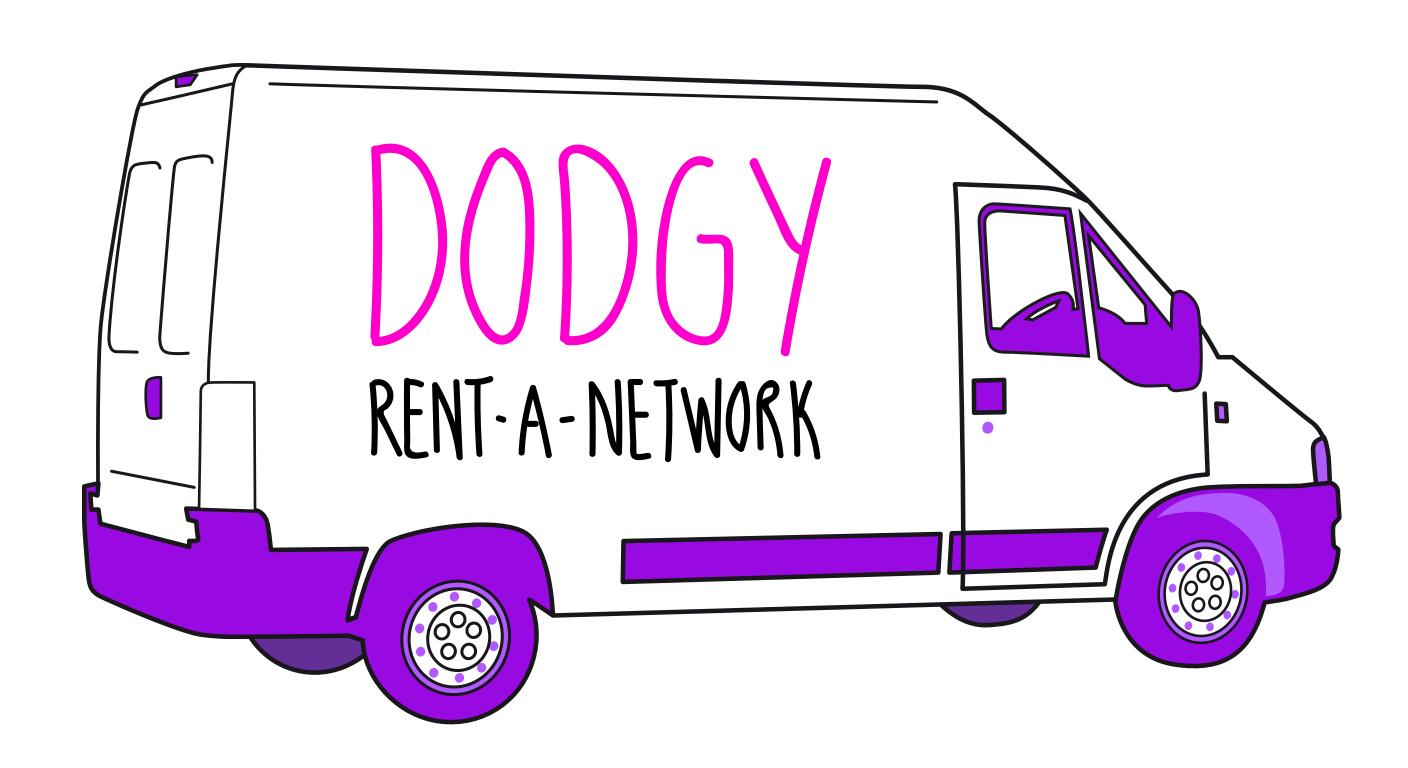




END-TO-END QUALITY

Who's in control?

To deliver the best end user experience, your carrier should control their backbone. That way, if something goes wrong, they have clear accountability and the power to fix things.



Don't just ask to see a carrier's network map

- ask how much of it they actually light and control.



THERE'S NO SUCH THING AS ONLINE LIFE JUST LIFE

If you don't believe backbones exist, send us an <a href="mailto:email

If you believe us, and want to learn more about what defines quality in a backbone, read about the Carrier Declarations.

WHAT EVERY CARRIER SHOULD LIVE BY