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Building backbone network infrastructure

By Kevin Salvadori

Our engineers have spent years working to keep the physical systems that power Facebook products and services c
reality have increased the demand for capacity. To provide the 2.7 billion people using our products with the best pos
have strengthened the long-haul fiber networks that connect our data centers to one another and to the rest of the

As we bring more data centers online, we will continue to partner and invest in core backbone network infrastructure whatever method is most efficient for the task at hand. Those options include leveraging long-established partnershi beneficial investments in new infrastructure; or, in situations where we have a specific need, leading the investment ir

In particular, we invest in new fiber routes that provide much-needed resiliency and scale. As a continuation of our pr We will be investing in new long-haul fiber to allow direct connectivity between our data centers in Ohio, Virginia, and

As with our previous builds, these new long-haul fiber routes will help us continue to provide fast, efficient access to t including local and regional providers — to purchase excess capacity on our fiber. This capacity could provide additic service to many parts of the country, and particularly in underserved rural areas near our long-haul fiber builds.

Unlike a retail telecommunications provider, we will not be providing services directly to consumers. Our goal is to sup portion for our own use and make the excess available to others. This means you'll start to see a Facebook subsidiary as a telecommunications carrier).

Continuing our commitment to infrastructure investments

This work is a continuation of our efforts to develop our network infrastructure. That work began about a decade ag energy-efficient data centers from the ground up: software, servers, racks, power supplies, and cooling systems.

When we began building our newest operational data center in New Mexico, we built a 200-mile cable to connect tha capacity systems in the United States, with state-of-the-art optical fiber. The resulting cable is more efficient than ot redundant path to our network.

Facebook's apps are used around the world. Once we have a new data center and terrestrial fiber network in place, across oceans. So we have collaborated with partners to build several subsea fiber-optic cables that are leading the highest-capacity subsea cable to ever cross the Atlantic; Havfrue, the first new cable system in nearly two decades t between Japan and the United States.

Our newest fiber builds, between our data centers in Ohio, Virginia, and North Carolina, are the next steps in our ongo infrastructure to provide the 2.7 billion people using our products with the best possible experience.

Our newest data center in New Mexico.

Inside our New Mexico data center.

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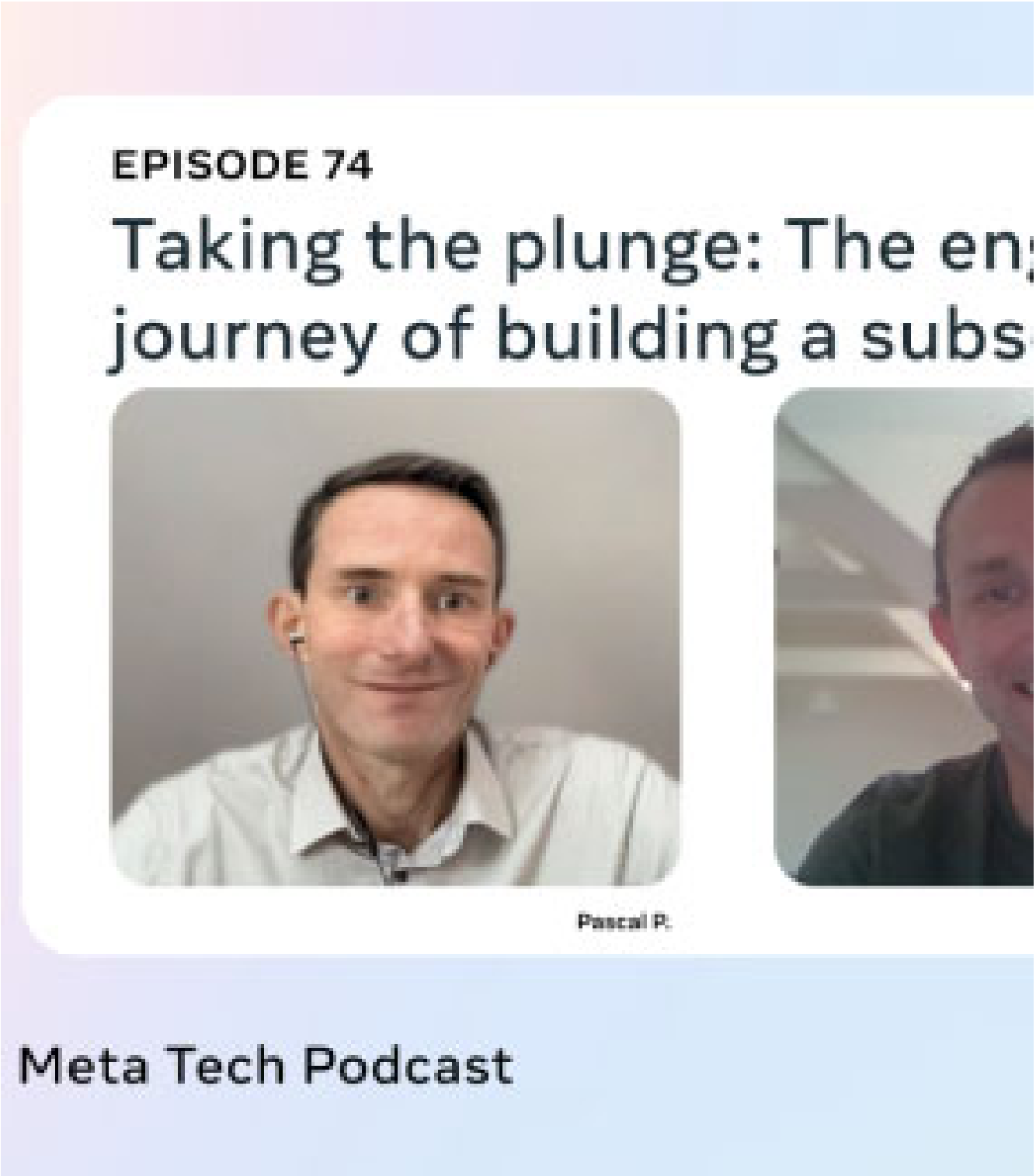

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