NET NOD
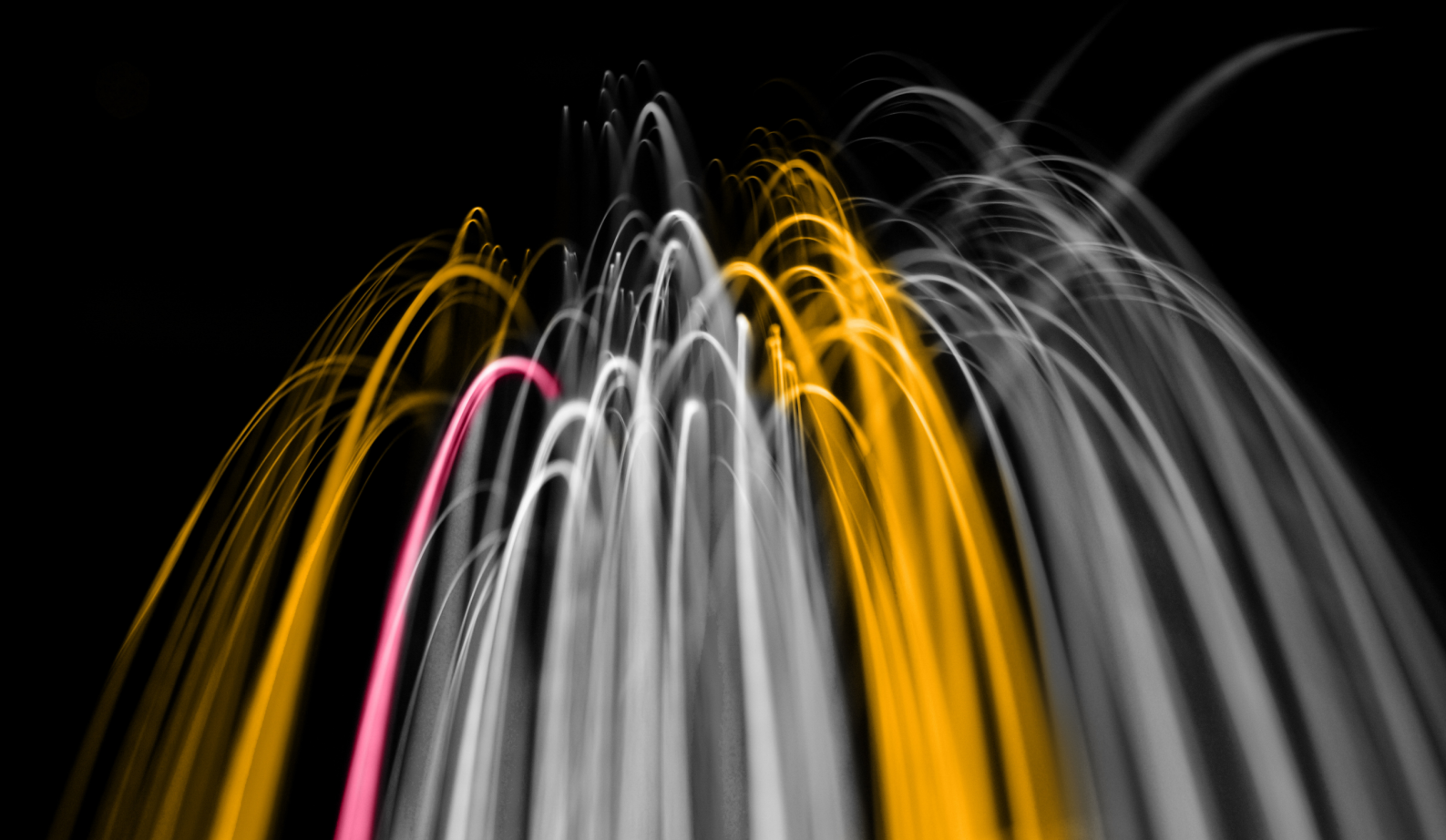
Netnod IX Helsinki:
unlocking connectivity solutions for Finland

How a Finnish telco uses remote peering in Stockholm
and easy upgrades to improve network performance

Lounea

What is the business challenge that Lounea solves? Who are your main customers?

Lounea is a nationwide Finnish telecommunication and ICT company that builds and offers fibre-based, ultrafast broadband to consumers and businesses. Lounea has focused on developing more fibre networks in Finland investing 170M EUR in the last 10 years. Since 2021, Lounea has expanded its footprint across Finland bringing its fibre network to more than 50 cities. As part of this development, Lounea has started to peer at Internet Exchanges to ensure higher quality, lower latency and scalable bandwidth.

"Remote peering over the Netnod IX brings us closer to the CDNs peering in Stockholm"
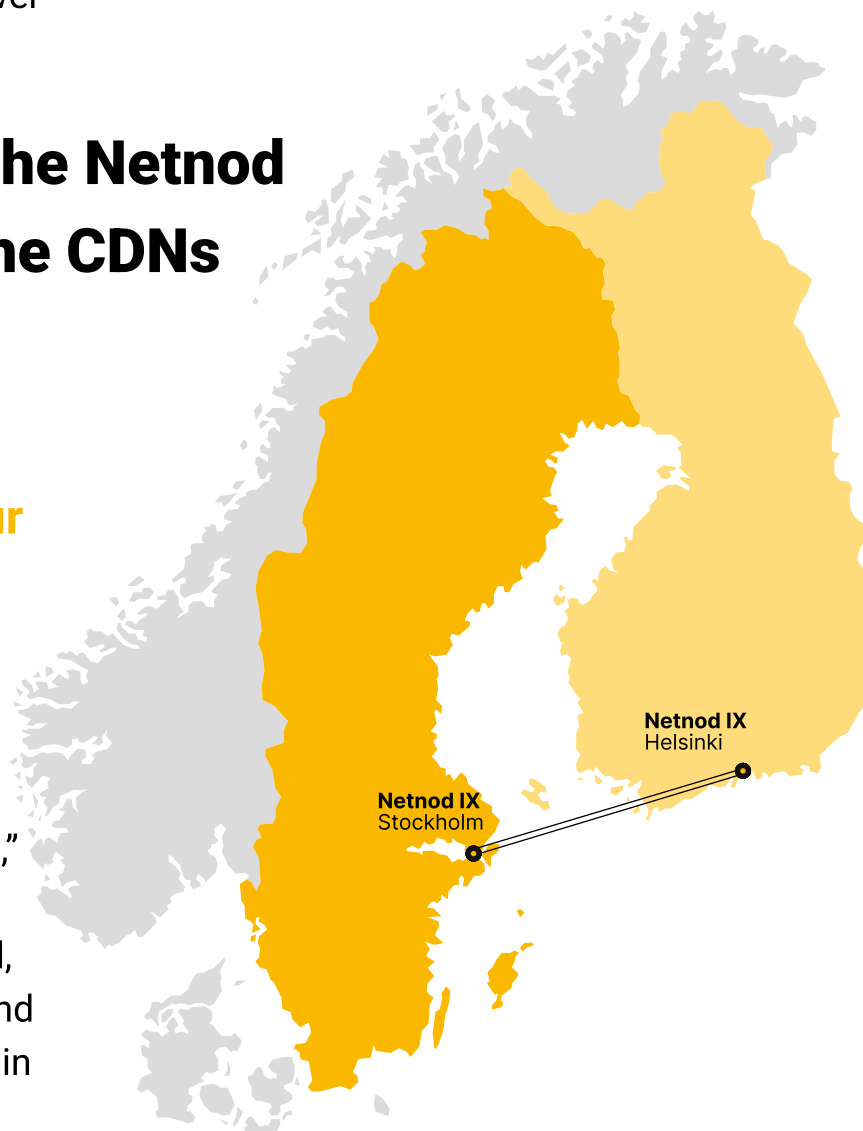
How does connecting at the Netnod IX in Helsinki help your business?

"We had considered building our own WDM network to connect Helsinki to Stockholm but this would have been a huge investment in time and resources," says Riku Päärni, CTO, Lounea. "When the Netnod IX Helsinki launched, we realised we could connect locally and use our port in Helsinki to remote peer in

Stockholm over the same connection. We could start peering immediately in Stockholm with no CAPEX cost on our side and with the option of peering elsewhere in the Nordics over the same connection in the future."

"Our first goal was to peer with the big CDNs in Stockholm to give better quality of service and lower latency for our customers in Finland," adds Päärni. "Remote peering over the Netnod IX brings us closer to the CDNs peering in Stockholm which is essential especially when it comes to services like video streaming."

Netnod IX
Helsinki

Netnod IX
Stockholm

NET NOD

You connected to Netnod using redundant, shaped ports. Can you explain why?

"Connecting with redundant ports is just good sense! We have connected to separate switches at the Netnod IX Helsinki which means we have redundancy locally as well as multiple, redundant routes between Helsinki and Stockholm," says Panu Kotilainen, Head of Service Production, Lounea.

"Within a few days, we had filled our 10Gbps service with traffic between Helsinki and Stockholm. Now we will upgrade which will be very simple: just a few clicks thanks to shaped ports."

"We started with two 100GE ports shaped to a 10Gbps service. It is much easier to scale if you start off with 100GE ports, rather than having to replace equipment later when the traffic grows."

"We connected in October 2023 and started remote peering immediately with the big CDNs in Stockholm," says Riku Päärni, CTO, Lounea."Within a few days, we had filled our 10Gbps service with traffic between Helsinki and Stockholm. Now we will upgrade which will be very simple: just a few clicks thanks to shaped ports."

About Lounea

Lounea´s story began as early as 1887 as a local telephone company, from where Lounea has evolved through automation and digitalization to become a modern, nationwide Finnish telecommunication and ICT company. Lounea has been building and offering fiber based ultrafast broadband for consumers and businesses for more than 15 years. Our investments in the last 10 years to fiber infrastructure nationwide have been more than 170 million euros, and Lounea's network already reaches close to half a million Finns. Lounea is known as technology leader in fiber broadband and is Finland's current Speedtest Awards Winner for fixed network speed during Q1-Q2 2023.

More information is available at: lounea.fi

Netnod

Netnod provides critical infrastructure support ranging from interconnection services and Internet Exchanges to time services, DNS services and root server operations. With a worldwide reputation for its services and the expertise of its staff, Netnod ensures a stable and secure Internet for the Nordics and beyond. Established in 1996 as a neutral and independent Internet infrastructure organisation, Netnod is fully owned by the non-profit foundation TU-stiftelsen (Stiftelsen för Telematikens utveckling).

More information is available at: www.netnod.se