



Managing an Autonomous System (AS) with Linux

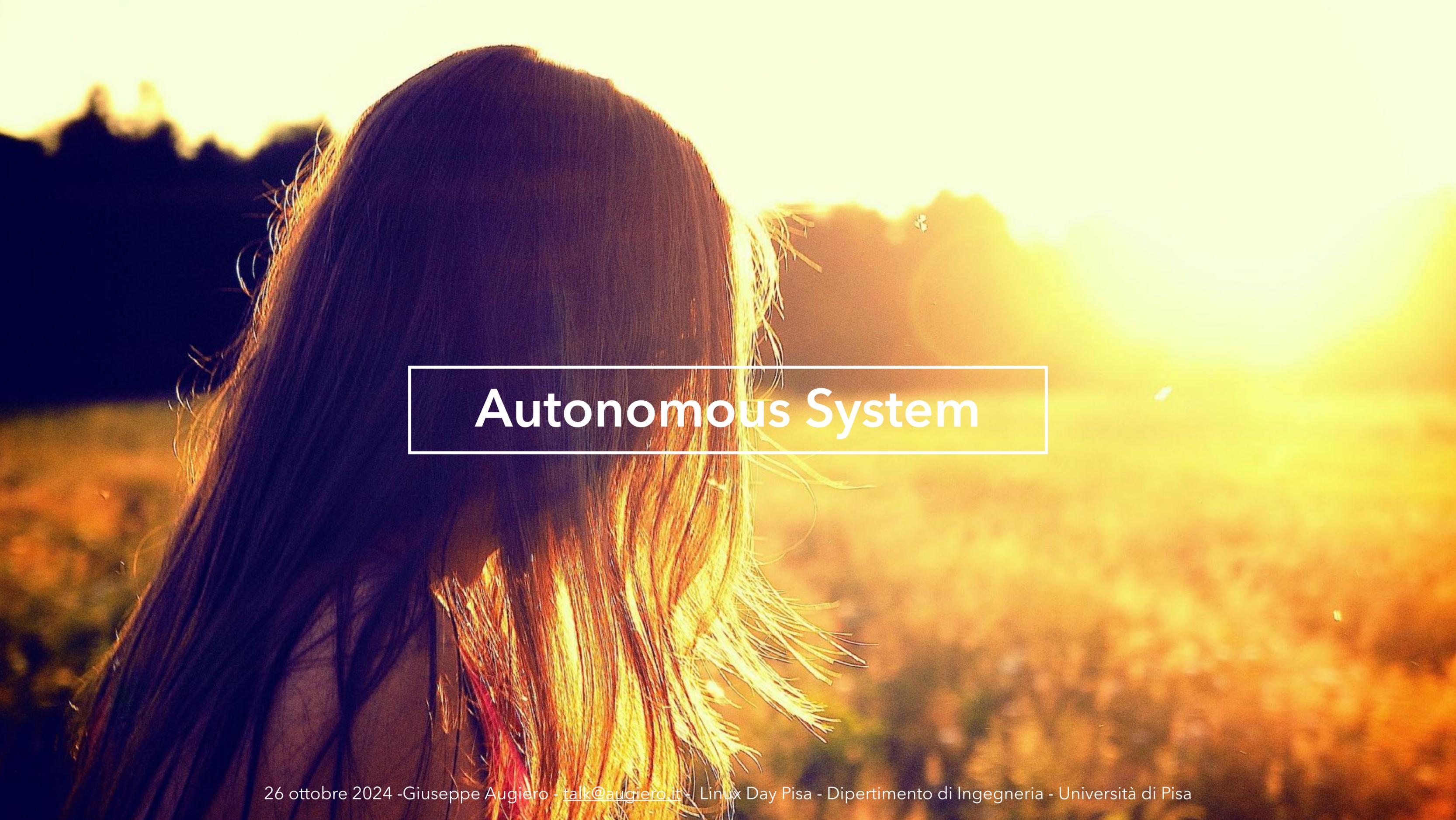
Giuseppe Augiero

26 ottobre 2024 - Giuseppe Augiero - talk@augiero.it - Linux Day Pisa - Dipartimento di Ingegneria - Università di Pisa

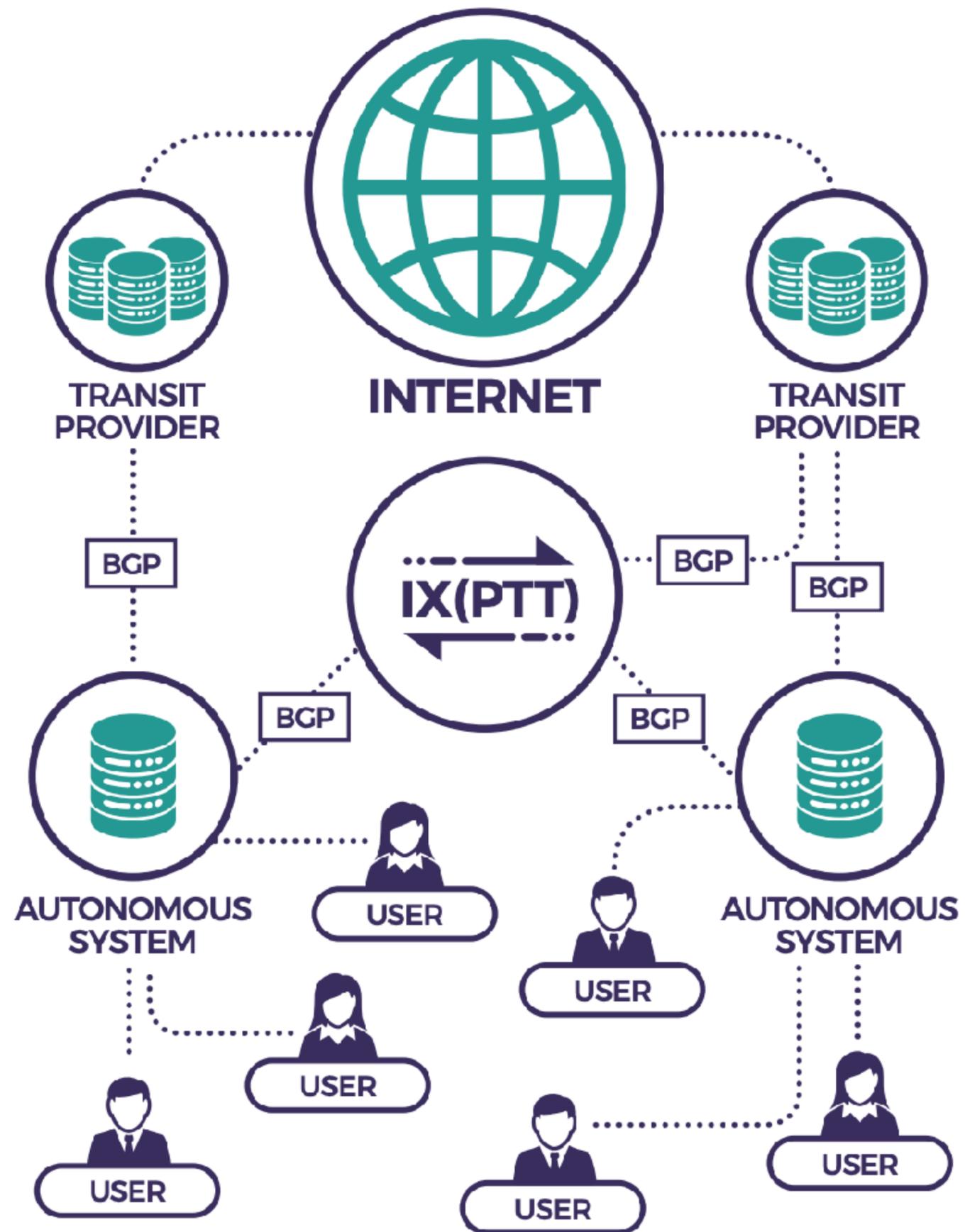


An aerial night view of a complex highway interchange with multiple levels of overpasses and ramps. The scene is illuminated by streetlights and the lights of moving vehicles, creating a vibrant, multi-colored glow. Overlaid on the image is a network diagram consisting of white lines connecting various points, symbolizing a network or data flow. The word "Networking" is centered in a white box.

Networking

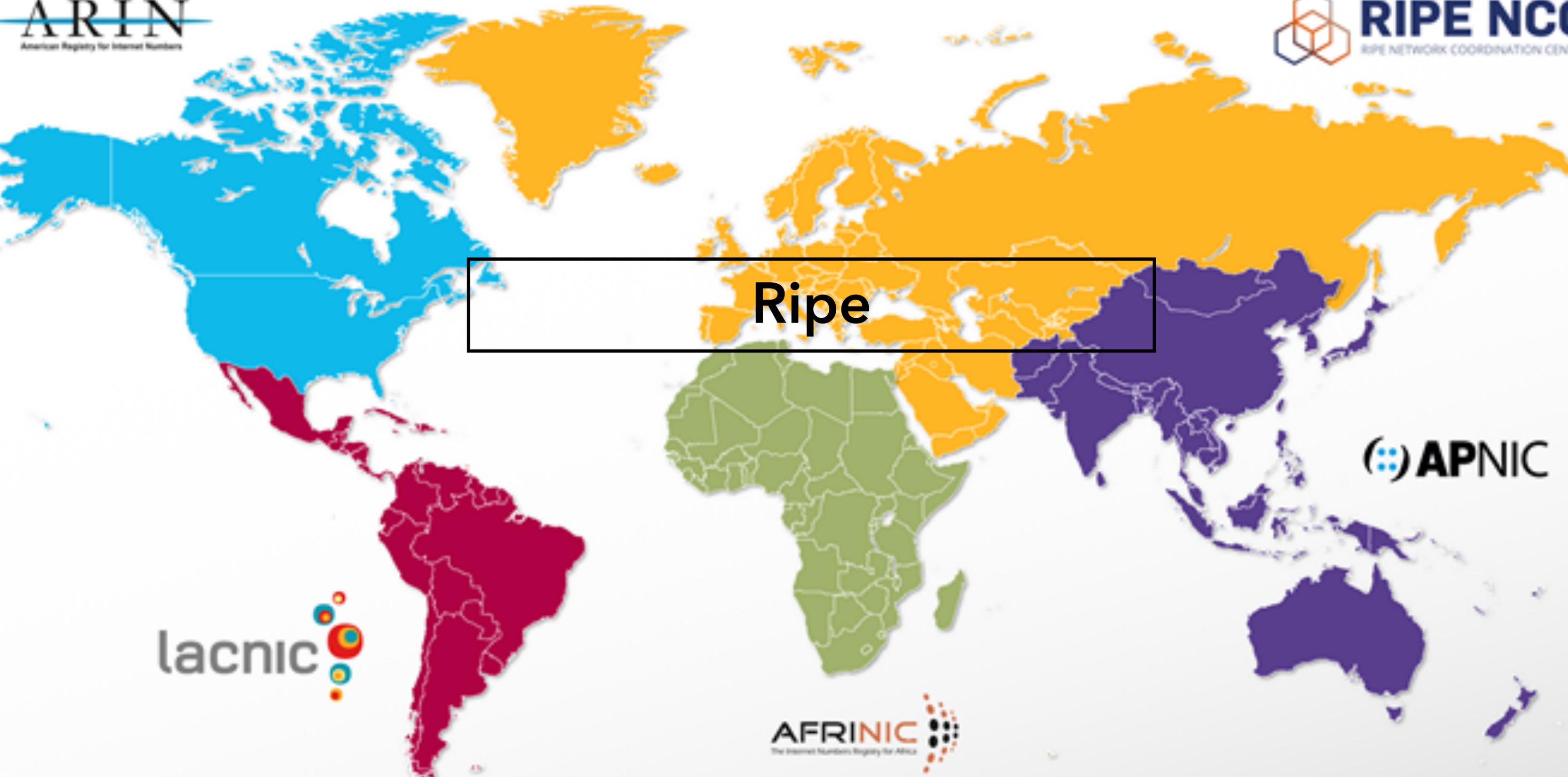


Autonomous System



A detailed illustration of the Space Shuttle Columbia in flight, ascending from the Earth's surface. The shuttle is shown from a low-angle perspective, with the orange External Tank and white Solid Rocket Boosters clearly visible. The orbiter is attached to the bottom of the tank. The background features a blue sky with scattered white clouds and a view of the Earth's surface below. A white rectangular box with a thin black border is centered over the middle of the shuttle, containing the text "ASN and IP Space".

ASN and IP Space



Ripe

Buy IPs



IRR: Internet Routing Registry



A close-up photograph of two people in business attire shaking hands over a wooden desk. The desk is cluttered with various office items: a laptop, several sheets of paper with charts and graphs, a pen, and a pair of glasses. The background is softly blurred, showing a window with bright light and some greenery. The word "Peering" is overlaid in white text within a white rectangular box in the center of the image.

Peering



IP Transit



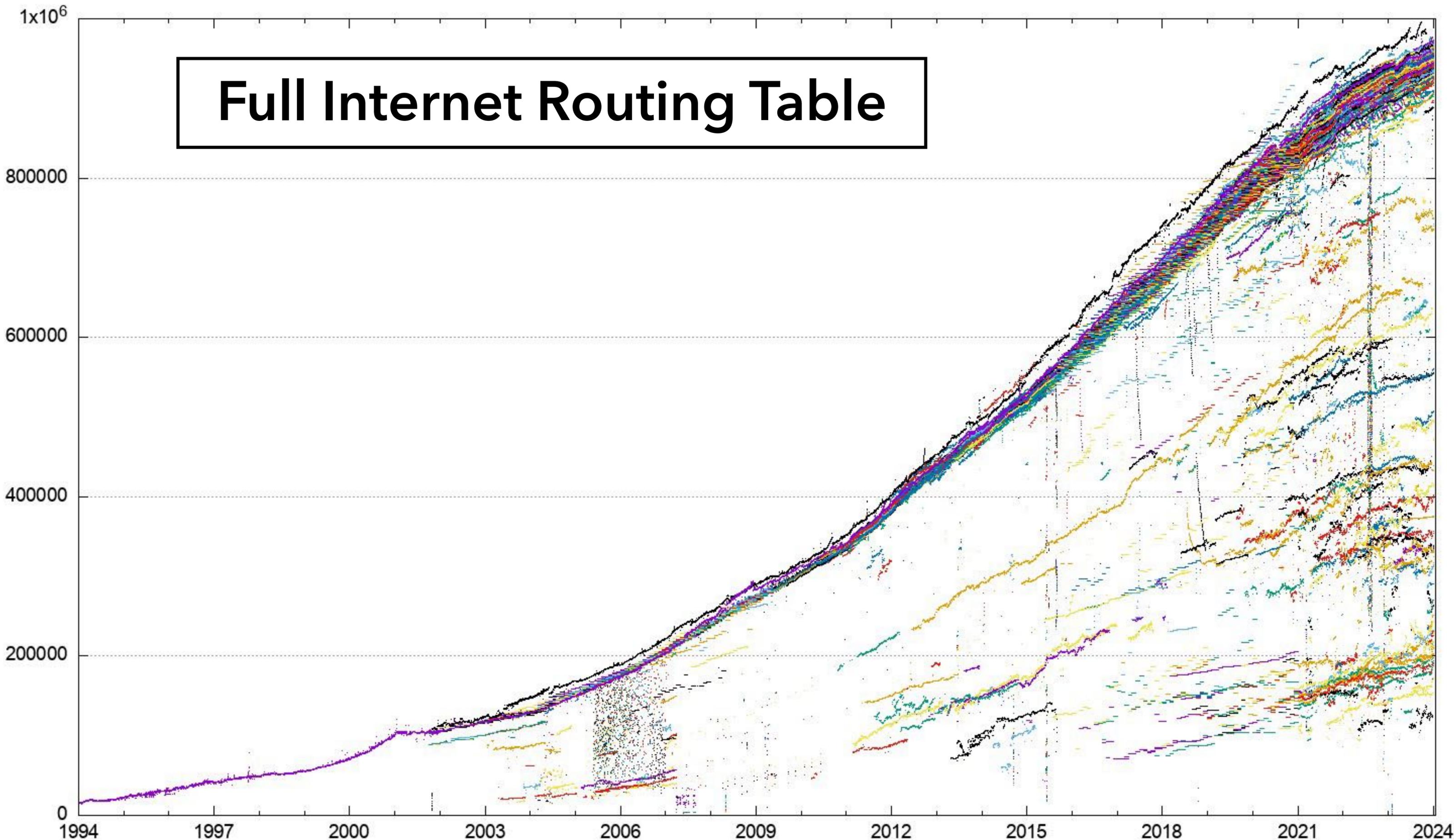
IX: Internet Exchange

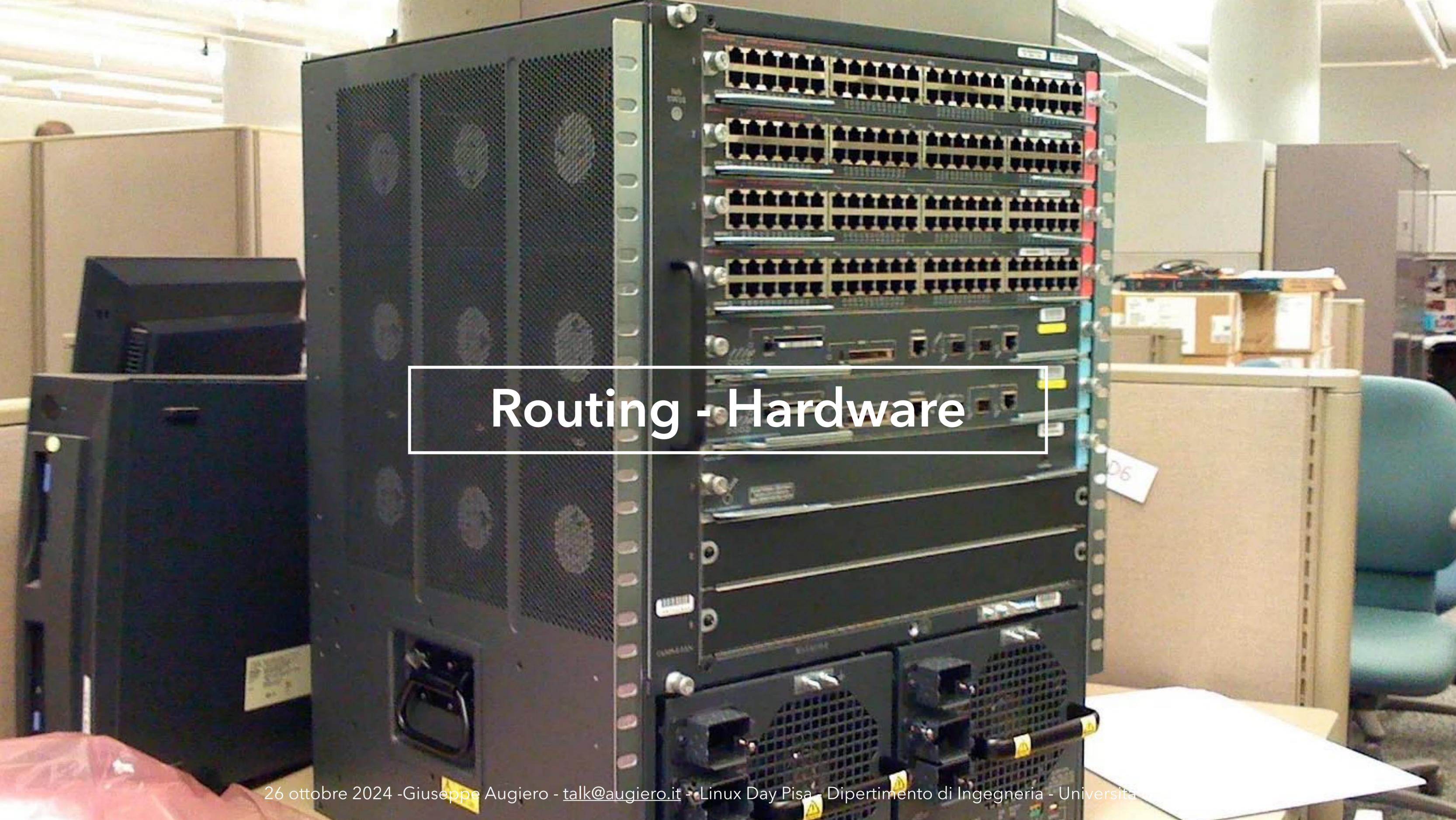
A close-up photograph of a person wearing glasses and a dark t-shirt, focused on working with server hardware in a data center. The person's hands are visible, with one hand pointing at a component on a server rack. The background is filled with server racks and various cables, creating a complex technical environment. The lighting is cool and blue-toned.

BGP: Routing

Full Internet Routing Table

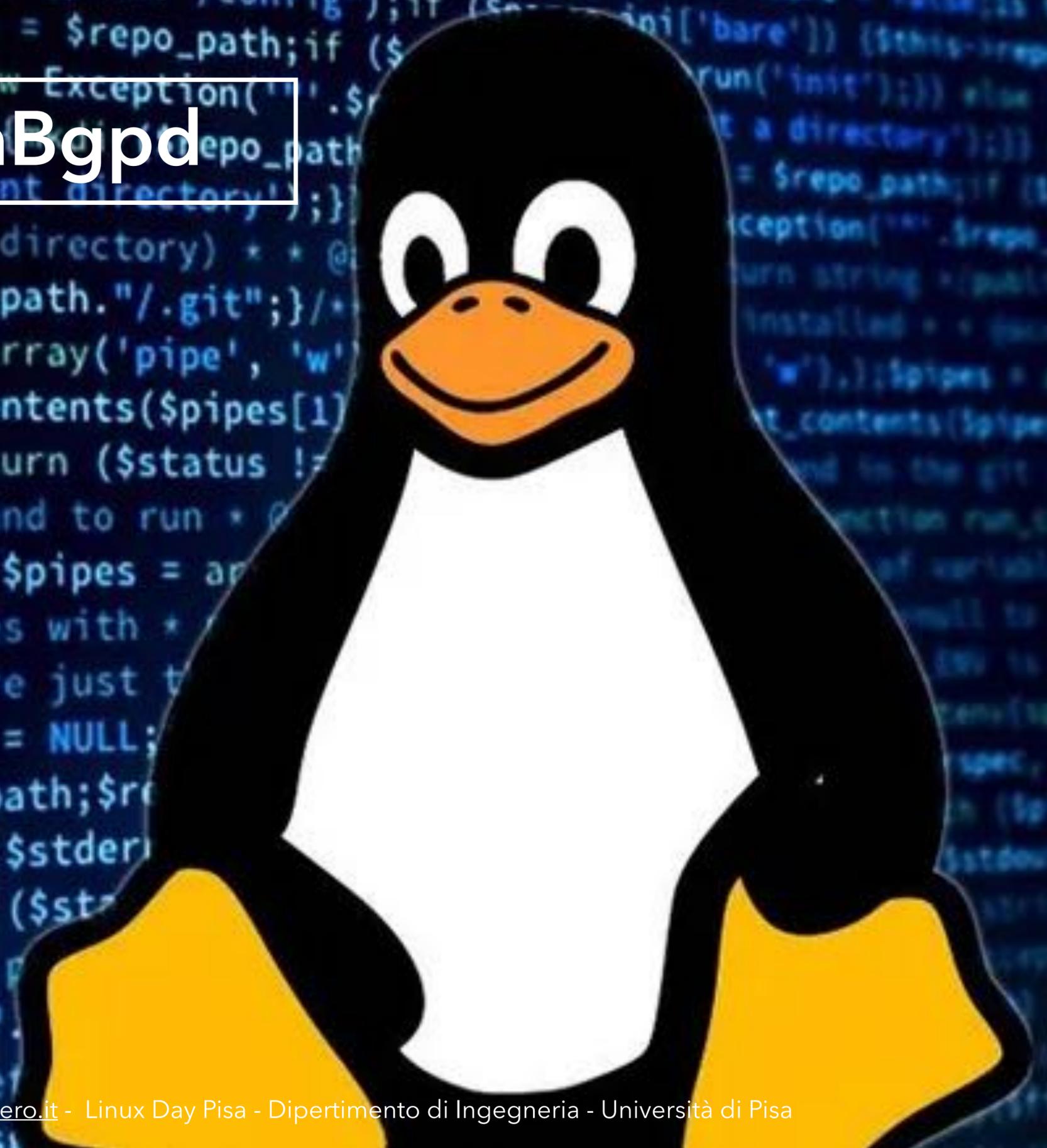
BGP V4 RIB Entries





Routing - Hardware

Quagga - Bird - OpenBgpd



Route Reject

ACCEPT

REFUSE



Reputation

SCORE

Management & Monitoring



Performance

LOADING...





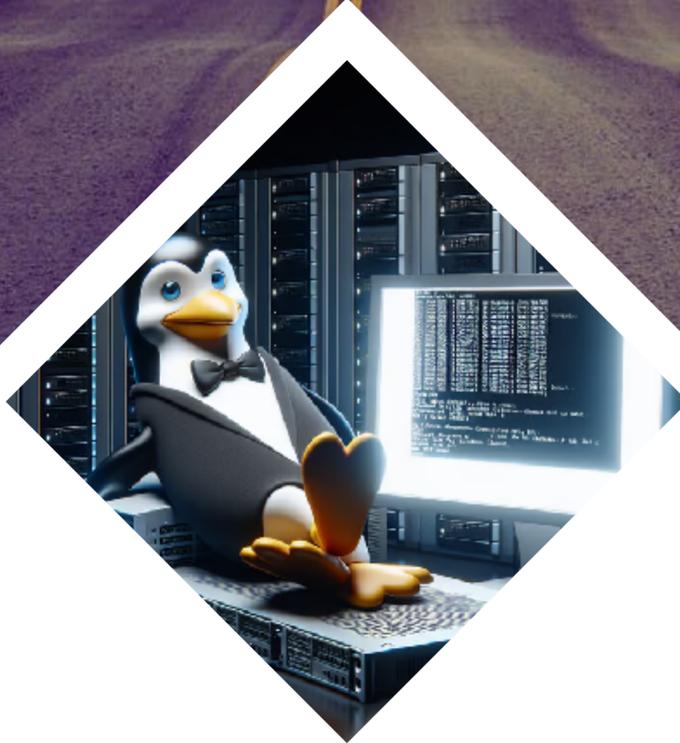
RIPE NCC

RIPE Atlas

A sunset scene with a large, bright sun in the sky. The sun is positioned in the upper right quadrant. The sky is a warm, golden-yellow color. In the foreground, there is a dark, silhouetted field. A person is walking across the field from right to left. In the background, there are palm trees and utility poles. The word "Conclusions" is written in white, bold, sans-serif font, centered in the image. The text is enclosed in a white rectangular box.

Conclusions

Web: augiero.it
Email: talk@augiero.it



Managing an Autonomous System (AS) with Linux

Giuseppe Augiero

