

SCION from an innovation point of view

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Introduction

AMS-IX is a neutral member-based association that operates multiple **interconnection platforms** around the world. Our leading platform in Amsterdam has been at the core of the internet for more than 30 years and is one of the world's largest **hubs for internet traffic**. Connecting to AMS-IX ensures customers, such as internet service providers, telecom companies, and cloud providers, that their global IP traffic is routed in an efficient, fast, secure, stable, and cost-effective way. This allows them to offer low-latency, engaging online experiences for end users.



Sentiment



BGP, RPKI, ROV, ASPA

We don't know which problem it solves



It warrants our Attention

SCION presents a modern, scalable perspective on Internet fundamentals and encourages a reconsideration of how networking is approached.



Does it matter?



What matters is: what's next?

- Splinternet
- Digital Sovereignty
- Big Tech



Scenarios



Scenario 1

- Active government
- Convergent technology
- Geopolitical instability

Grinding halt race

Navigating geopolitical uncertainty in the era of emerging technologies



Scenario 2

- Active government
- Closed system
- Geopolitical stability

The firewall paradox

Closed systems in an era of distrust interconnectivity



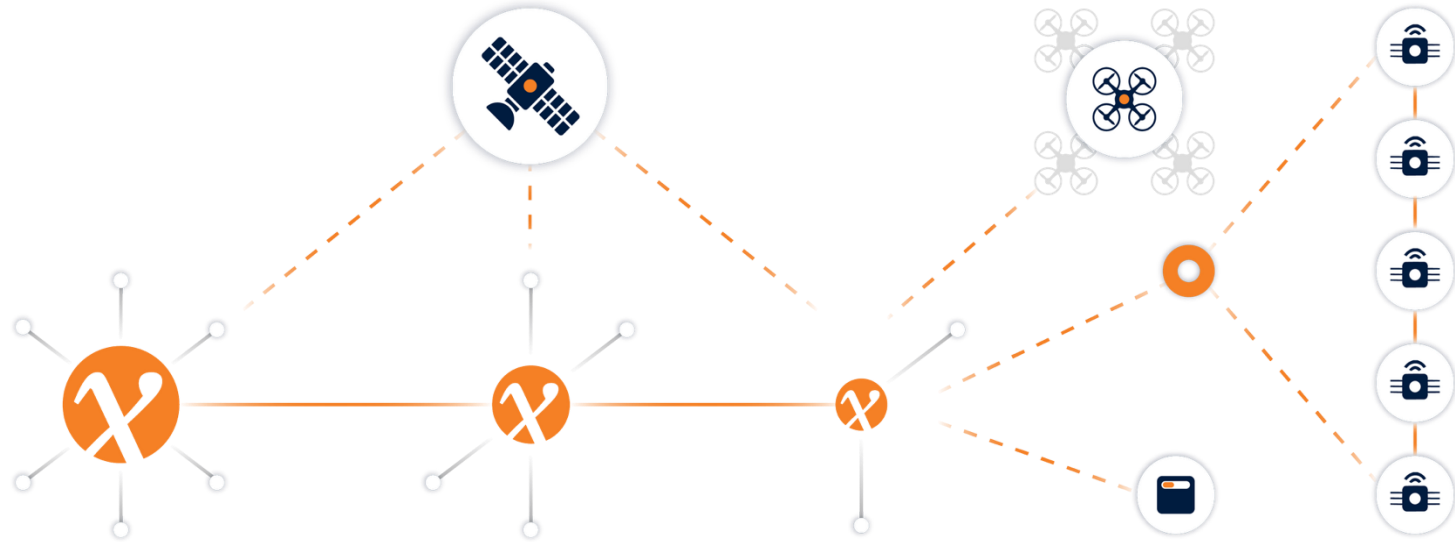
Scenario 3

- Active government,
- Convergent technology
- Well-being focus

The new prosperity

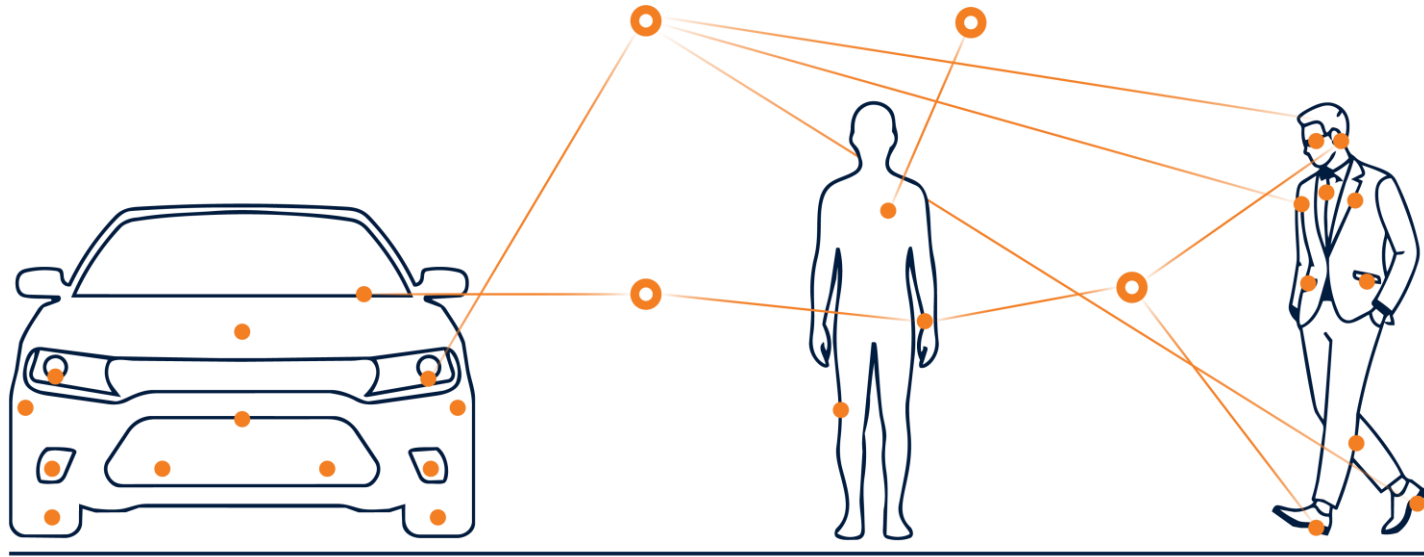
Shifting from welfare to wellbeing

Space: the next frontier



Beyond today's Layer-2, hardware-based interconnection, connectivity will evolve into virtual IXs operating in space, at the edge, and at the far edge.

Sane

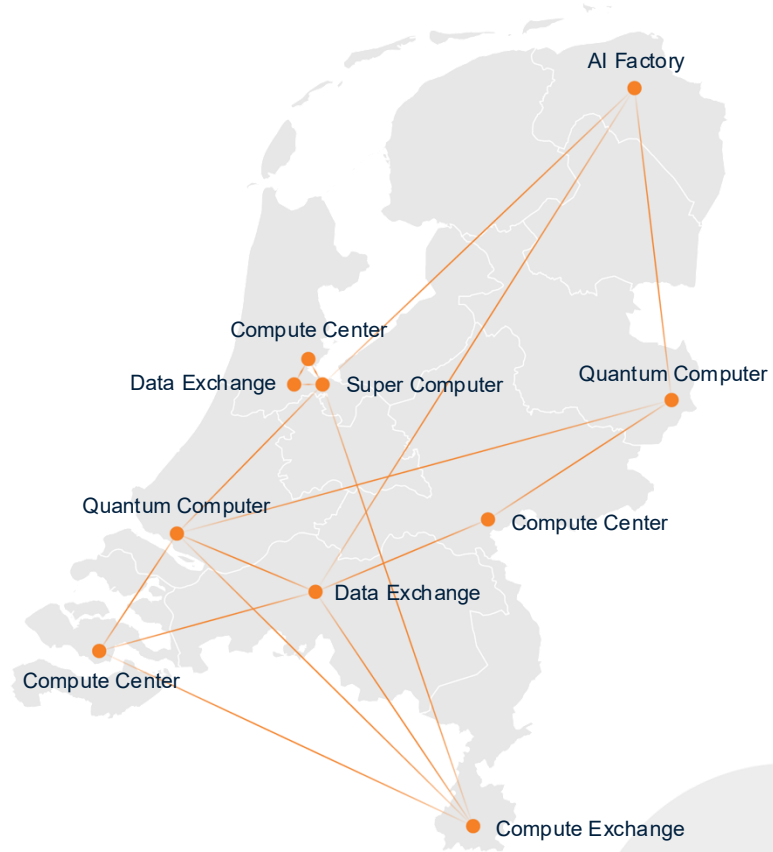


Sane: safe autonomous network entities.

Dynamic local networks that will communicate with sensors and devices nearby on a need-to-know basis to optimise their own operation.

Ring of trust

Beyond providing trusted hardware connections, Internet Exchanges will serve as **trust anchors**, establishing a ring of trust among diverse compute cores and specialised digital ecosystems while safeguarding digital sovereignty.



SO SCION @ AMS-IX

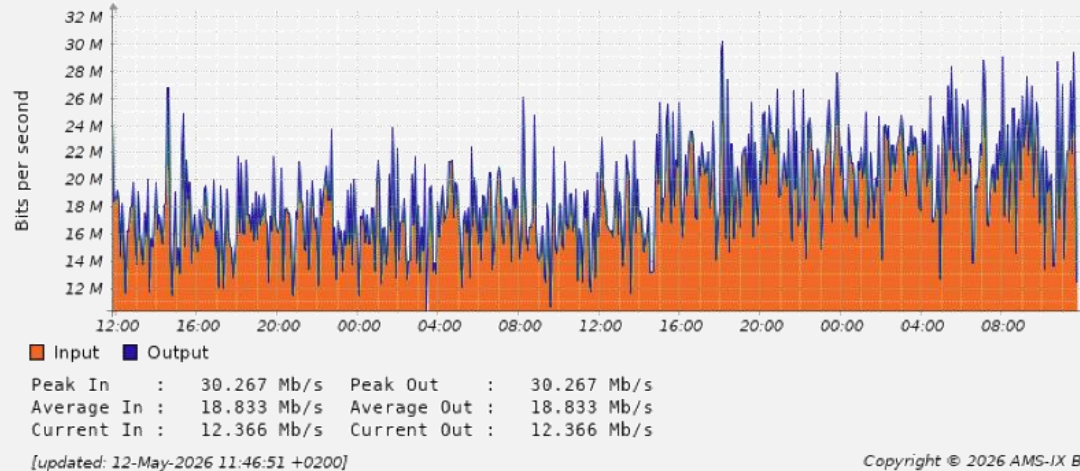


Our role

- We believe that an IX should be **transparent**.
- An ISD is not transparent, so we will not be part of an ISD.
- An IX should serve as a gateway between ISDs, providing **redundancy and resilience**.
- An independent RIR should assign the ISDs and SCION ASNs (discussion started in 2020)



Our set-up



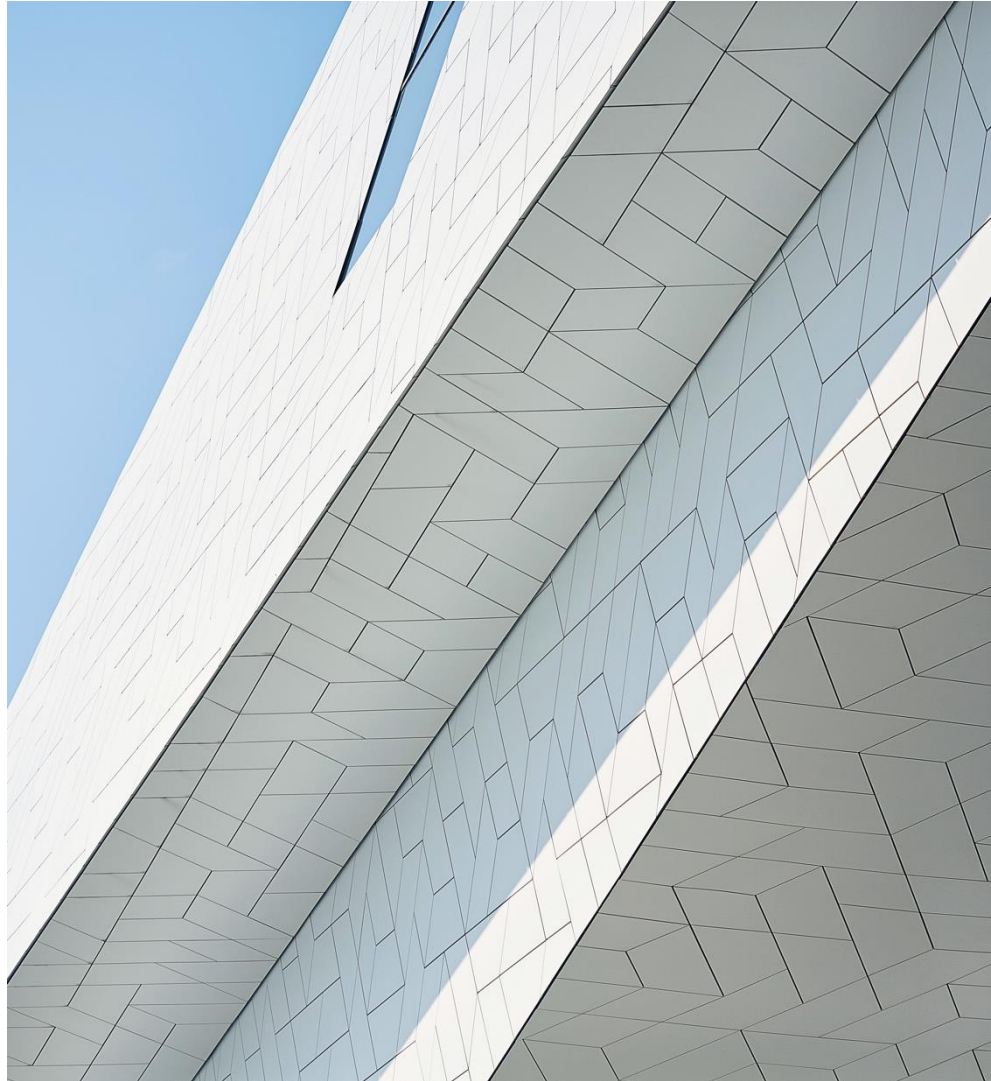
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We have a VLAN where SURF, SIDN Labs, Varity and Anapaya are connected to exchange data on SCION Exchange.

Final remarks

AMS-IX will

- Provide a platform for our clients where they can learn and experiment
- Facilitate the discussion
- Keep an open mind



anyway...



Information is the most fundamental unit of the universe, not energy, not matter.

John Barrow - Cosmologist and Mathematician
Frank Tipler - Mathematical Physicist and Cosmologist,
James Lovelock - Independent Scientist, Environmentalist and Futurist
Demis Hassabis = CEO of Google DeepMind

Any questions?

