

# NOKIA



## Networks for AI

How CSPs can get into the value chain of delivering AI services

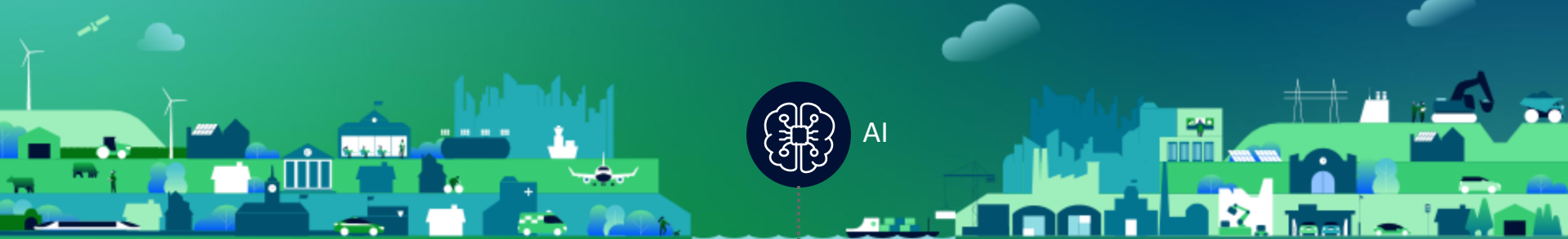
Paresh Khatri

CTO IP Networks APAC

25<sup>th</sup> May 2026



# AI is impacting and enhancing our networks



Residential



Business

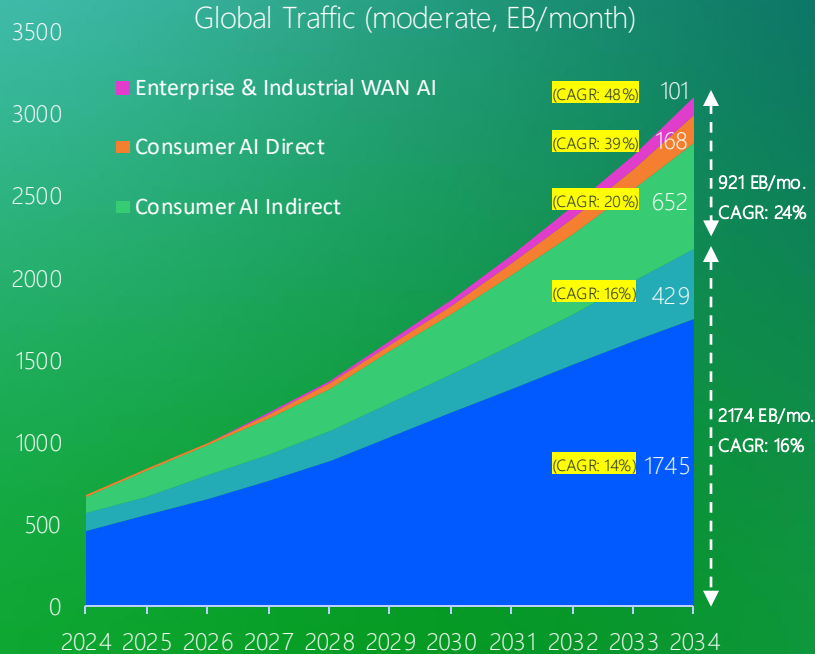


Centralized and distributed data centers

IP networks built for AI,  
powered by AI

# Networks for AI

## Traffic growth



Source: Nokia Bell Labs, Global Network Traffic Report, 2026

### GLOBAL WAN AI TRAFFIC

921 EB/month (30% of Global WAN Traffic)  
CAGR: 24%

### CONSUMER WAN AI TRAFFIC

820 EB/month (CAGR: 22%)

### ENTERPRISE WAN AI TRAFFIC

101 EB/month (CAGR: 48%)

### GLOBAL CONSUMER AI TRAFFIC: 32% of Global Consumer Traffic

### CONSUMER DIRECT AI TRAFFIC

168 EB/month (CAGR: 39%)

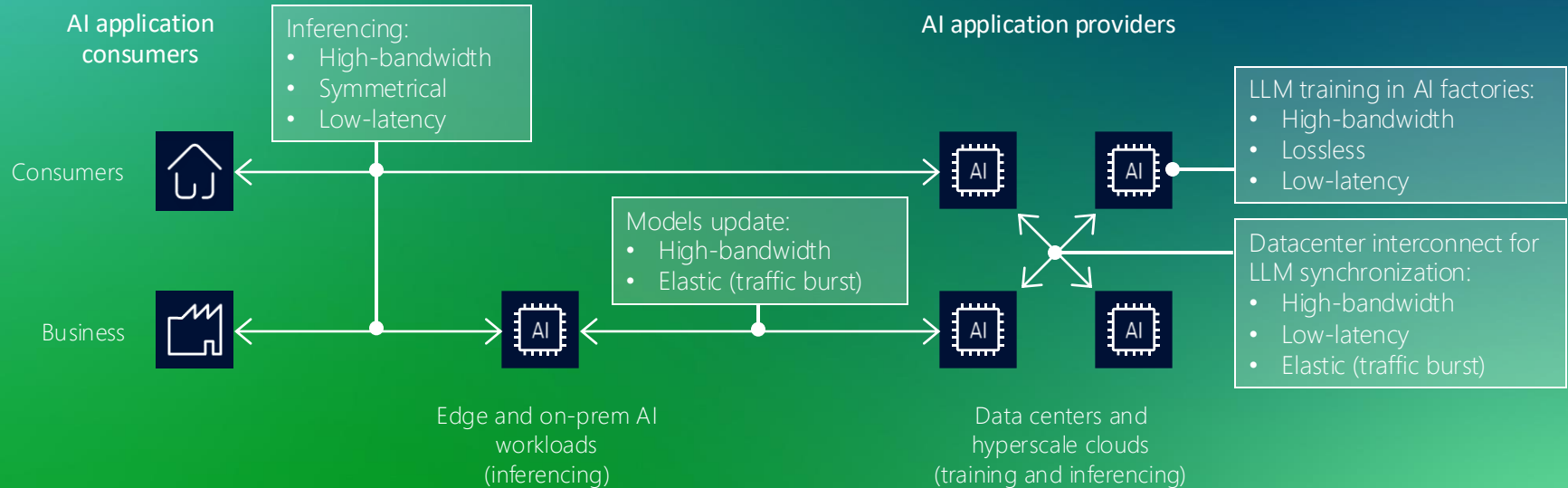
### CONSUMER IN-DIRECT AI TRAFFIC

652 EB/month (CAGR: 20%)

# Networks for AI

## GenAI network infrastructure buildout

60-70%  
of AI workloads will  
shift to real-time  
inference by 2030

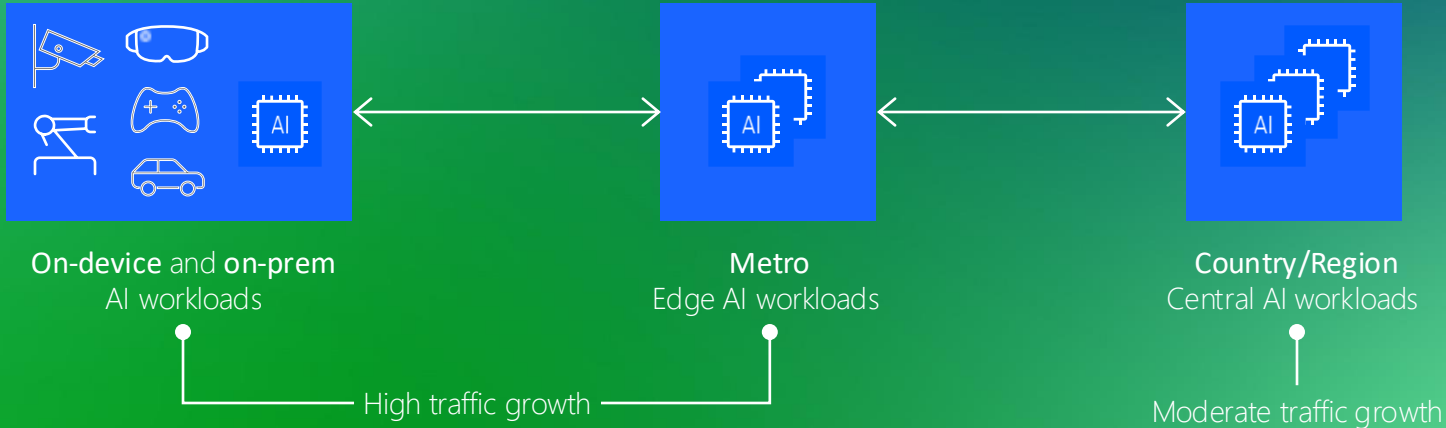


# Networks for AI

## Distribution of AI workloads

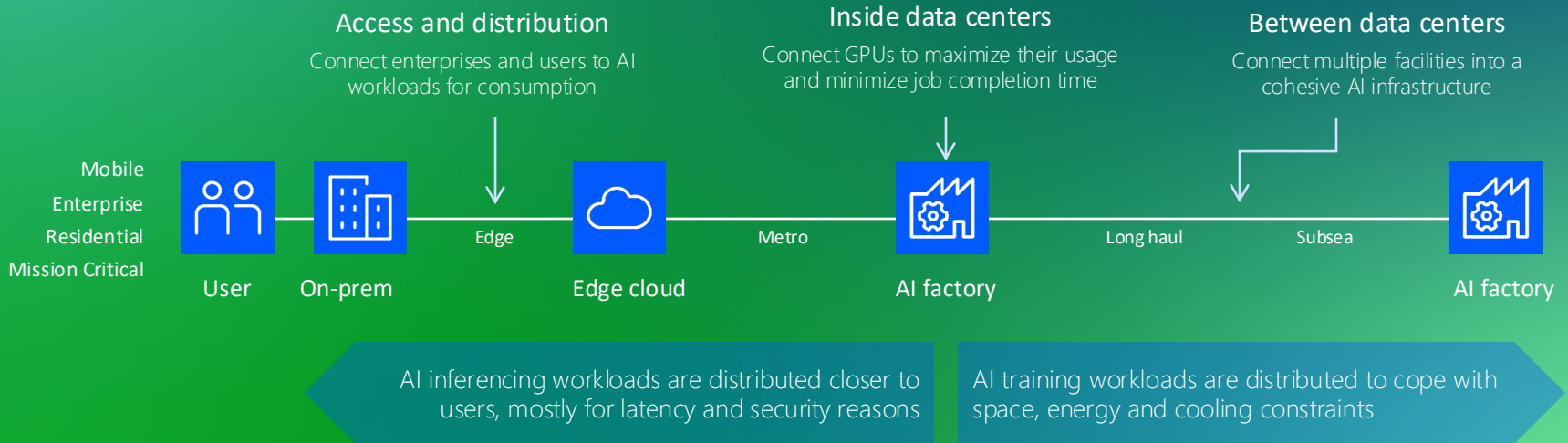
- ✓ Low latency
- ✓ High bandwidth
- ✓ High availability
- ✓ Safe data

Speed, capacity, security and energy constraints are pushing AI workloads closer to end users



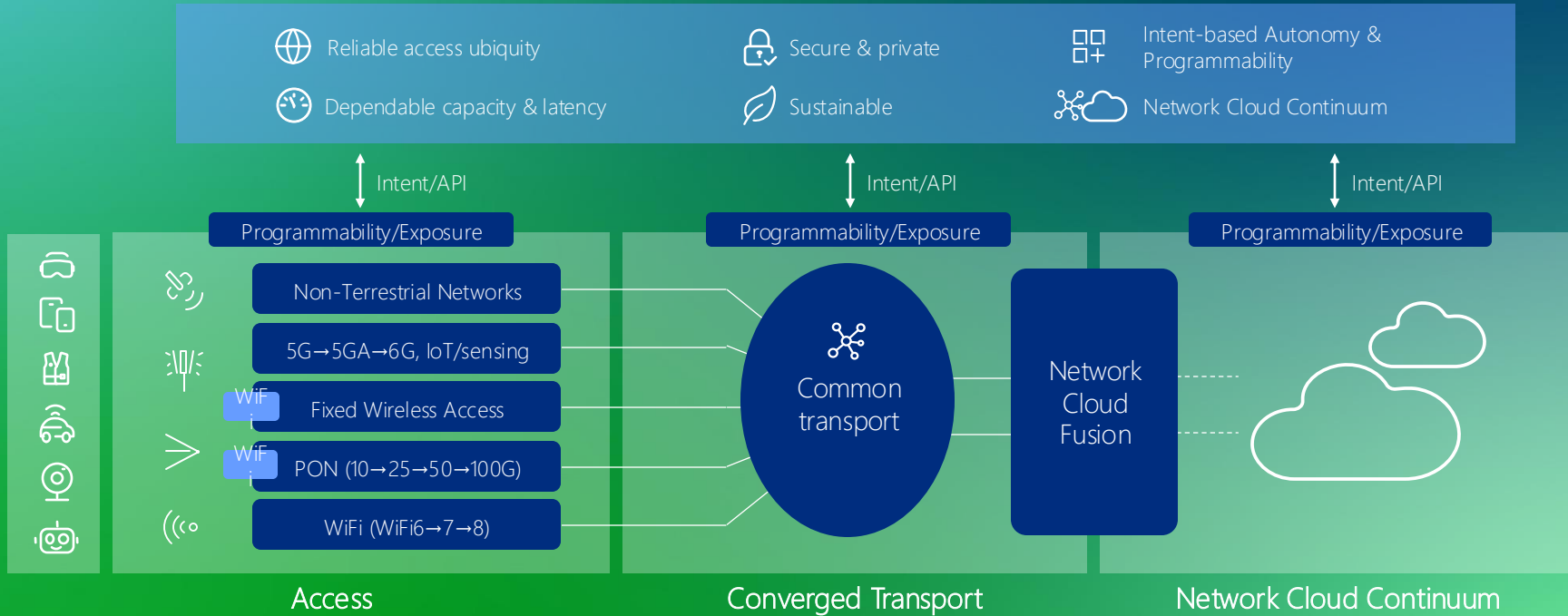
# Networks for AI

## Critical role of network infrastructure in the AI era



# Networks for AI

CSPs are key players in the AI value chain



# Networks for AI

## What value can network operators offer for AI?

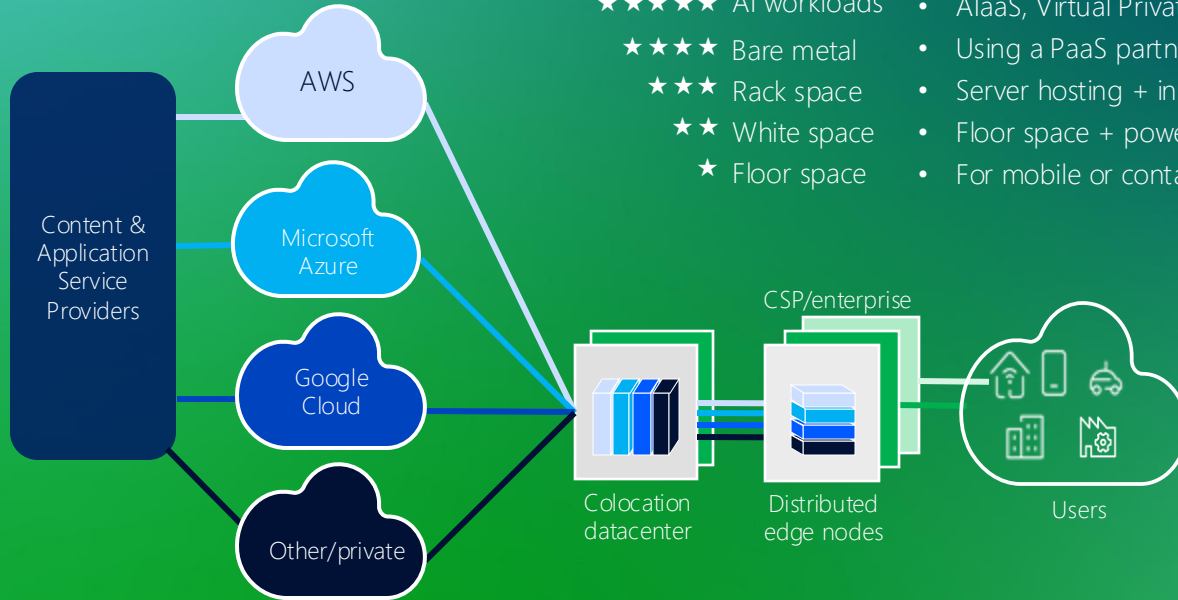
### "Edge" hosting

- ★★★★★ AI workloads
- ★★★★ Bare metal
- ★★★ Rack space
- ★★ White space
- ★ Floor space

### Amenities and services

- AlaaS, Virtual Private Cloud, Telco AI
- Using a PaaS partner or self-hosted
- Server hosting + installation + VPN
- Floor space + power + HVAC + WAN
- For mobile or container datacenter

Bundled with secure, trusted connectivity  
(connectivity+)



Move from "connectivity pipe" providers to end-to-end AI solution providers

# Networks for AI

## AI use cases for CSPs

### Capacity for AI

Capacity augmentation to stay abreast of the ramping up of AI traffic

### Connectivity+

Secure, reliable, low-latency, guaranteed bandwidth service to AI cloud on-ramps

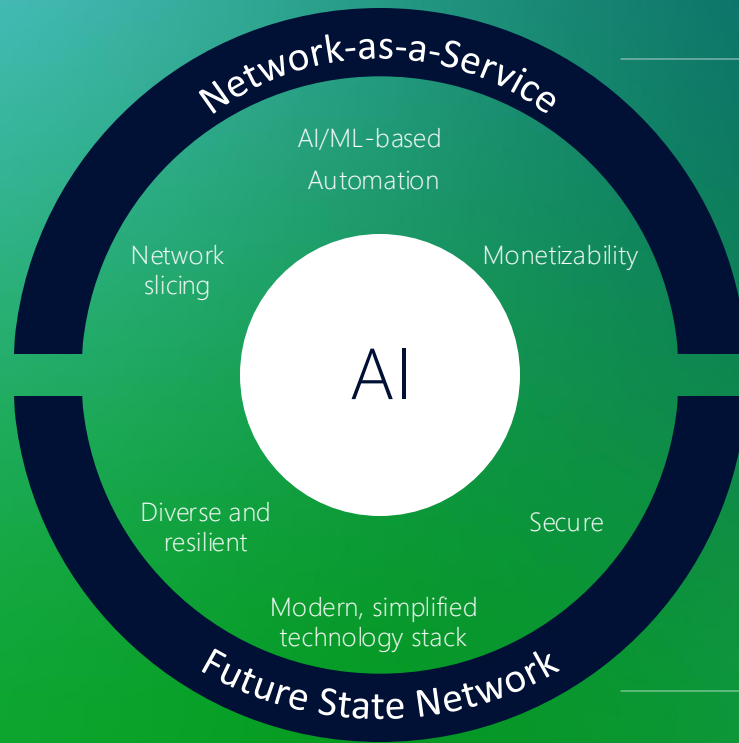
### AI Inferencing at Edge

Distributed AI inferencing leveraging key CSP assets at network edge

### Sovereign network slices

Premium 'sovereign' services for enterprise and government markets.

# Future State Architecture



## Artificial Intelligence

AI for networks  
Networks for AI



## Simplified, yet performant

scalable, multi-layer, modernized technology stack  
leveraging protocol convergence



## Resilient and secure

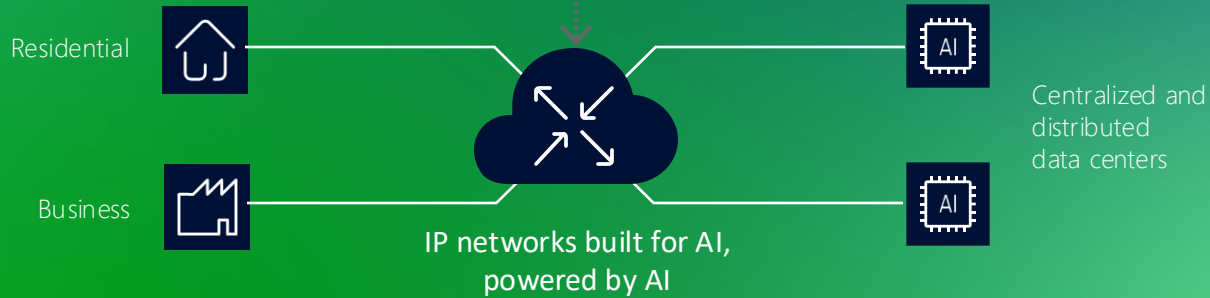
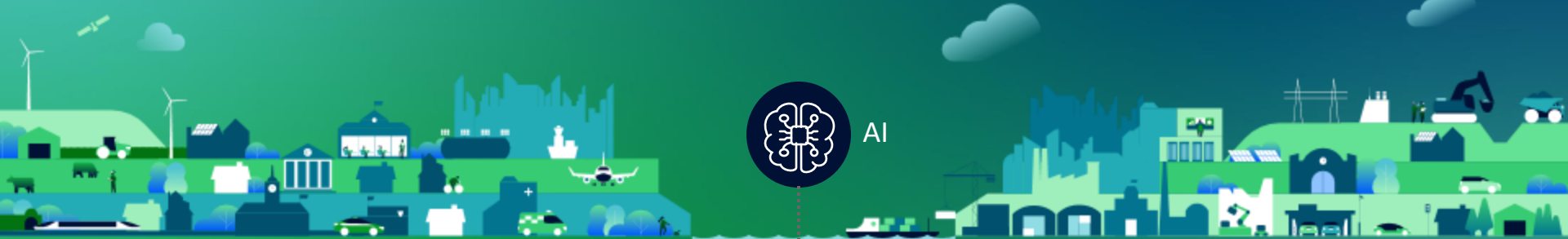
diversity at all layers with decomposable,  
loosely-coupled network building blocks



## Automated and consumable

model-driven, programmable, leveraging AI/ML,  
providing the network-as-a-service (NaaS)

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