IETF

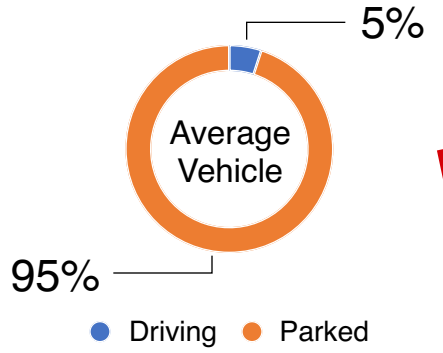
AECC
AUTOMOTIVE EDGE
COMPUTING CONSORTIUM

AutomotiveEdge GenAI Migration and MultiUse

Sharon Barkai

AEC GenAI MultiUse

- Mapping and Intelligent Driving Transitioning to Gen AI Models
- The combined Automotive Edge/ VehicleFarEdge: train, prompt, proxy.. models cost effectively!
- The resulting Edge Network can be extended to meet AI demand



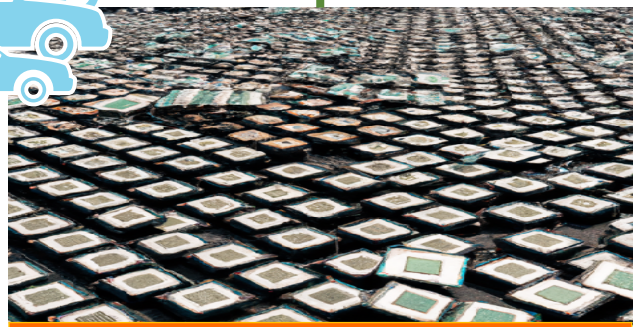
Massive Idle Vehicle FarEdge Compute

Replace Legacy Code/Data-structure

Leverage In-Vehicle Compute/Electrification

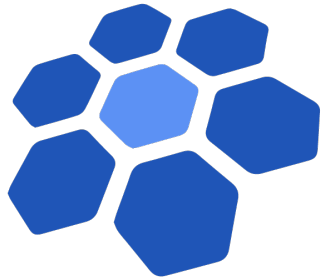
Edge GeoTwin Agents: Steer Train, Prompt GenAI Models

Perception and GenAI (Driving)



Generative AI (Parked)

AEC GenAI MultiUse



Vocabulary
& Federation

Maps & Driving
Large Language **Models vN+1**

SaaS

Geolocation Edge Agents/Compute Locations

Tokens & Embedding Datasets

Proxy GenAI Model as a Service

Tokens & Embedding Dataset

Last seen geolocation datasets

Dataflow Virtualization
(Overlay Edge Routers)

Perception Upload
for Training

Regional Subscribed Channels
Tokens & Embedding **Prompts**

Driving Vehicle
Perception

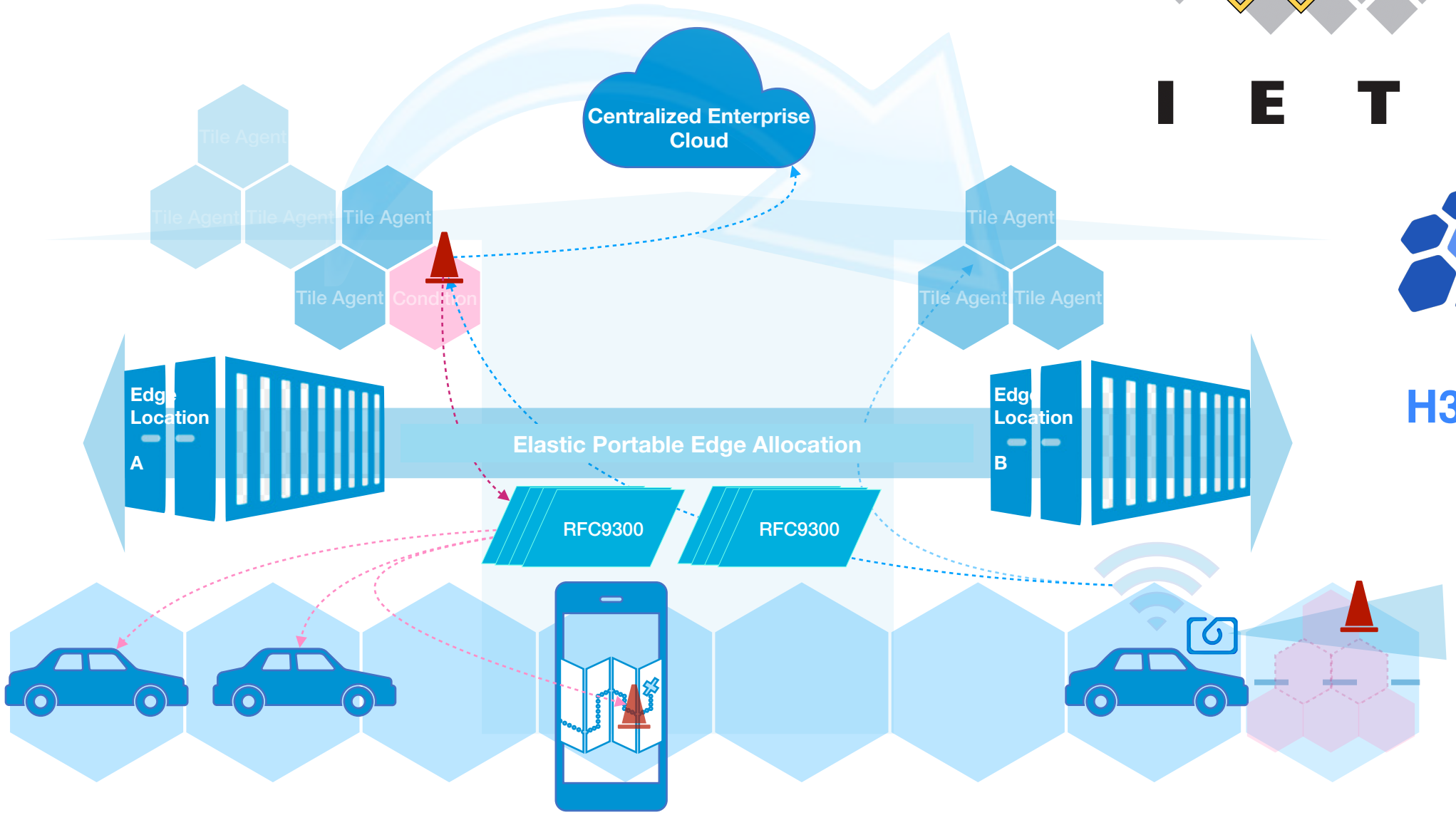
Parked Vehicle
Generative Model

0.01 cents / query
Green B-TFLOPS

Driving Vehicle Perception & **Models vN**

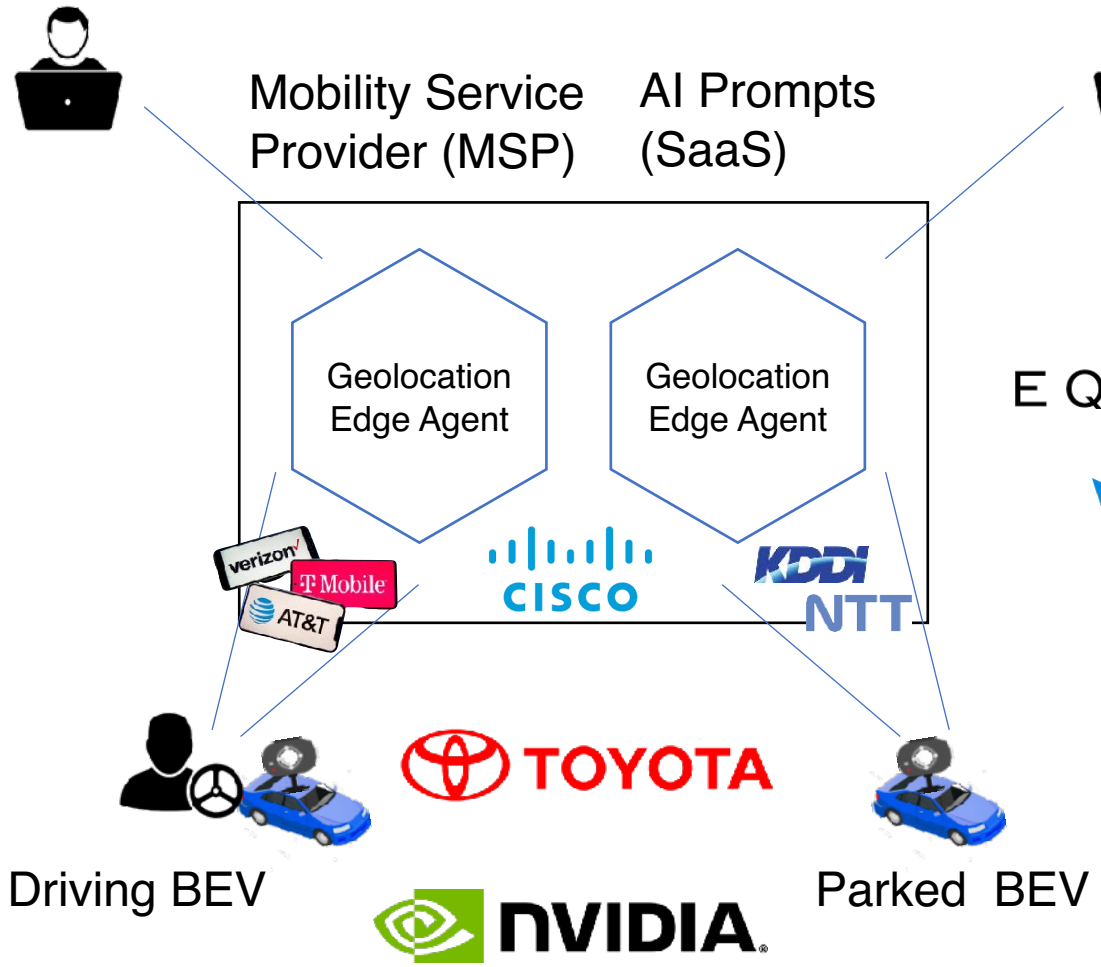
https://datatracker.ietf.org/doc/html/draft-ietf-lisp-nexagon-50

AEC GenAI Routing



H3Geo

AEC GenAI MultiUse Stake Holders



EQUINIX

Vapor

- Auto and SoC OEMs
- Carriers and Networkers
- Edge Compute Provides
- Large fleets for hire
- MSPs SaaS BigTech

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Thank You
Backup