H3-LISP Draft-Nexagon

Call for Adoption

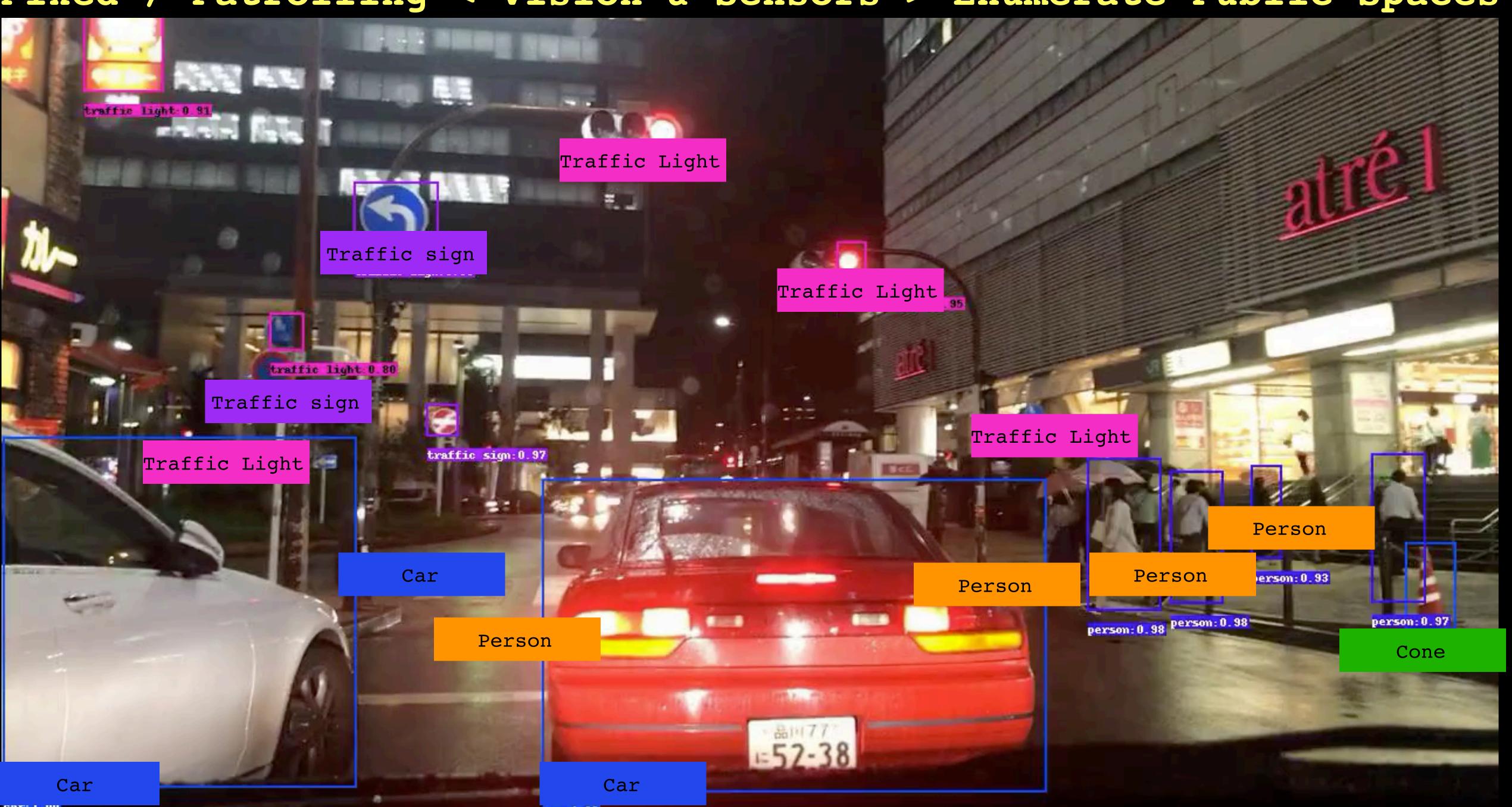
Content

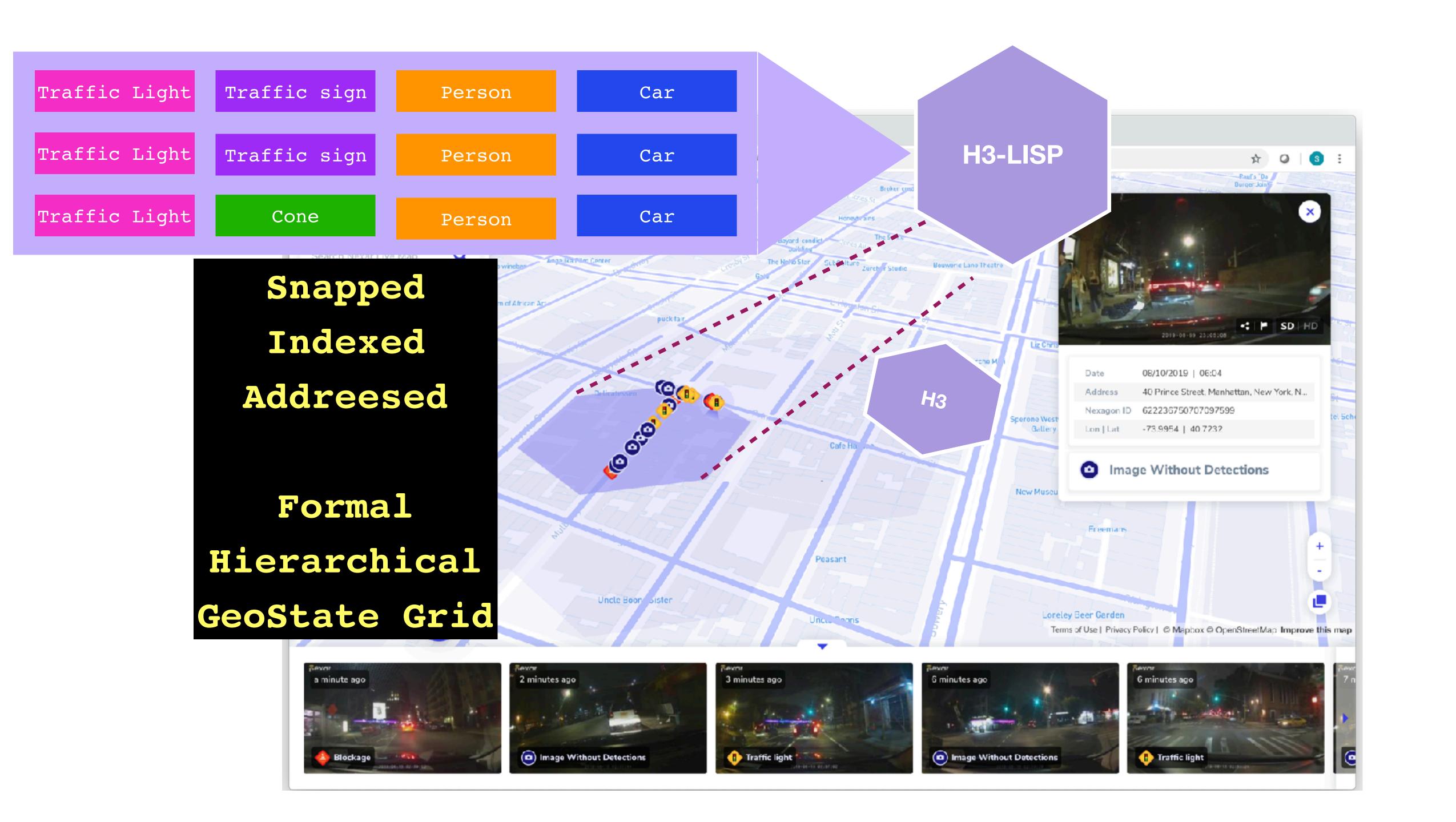
- 1. GeoState Network Objects
 - H3 Indexed
 - EID addressable
 - LISP routable
- 2. Updates to draft since 105
- 3. Value of Mobility LISPEdge



https://tools.ietf.org/html/draft-barkai-lisp-nexagon-11

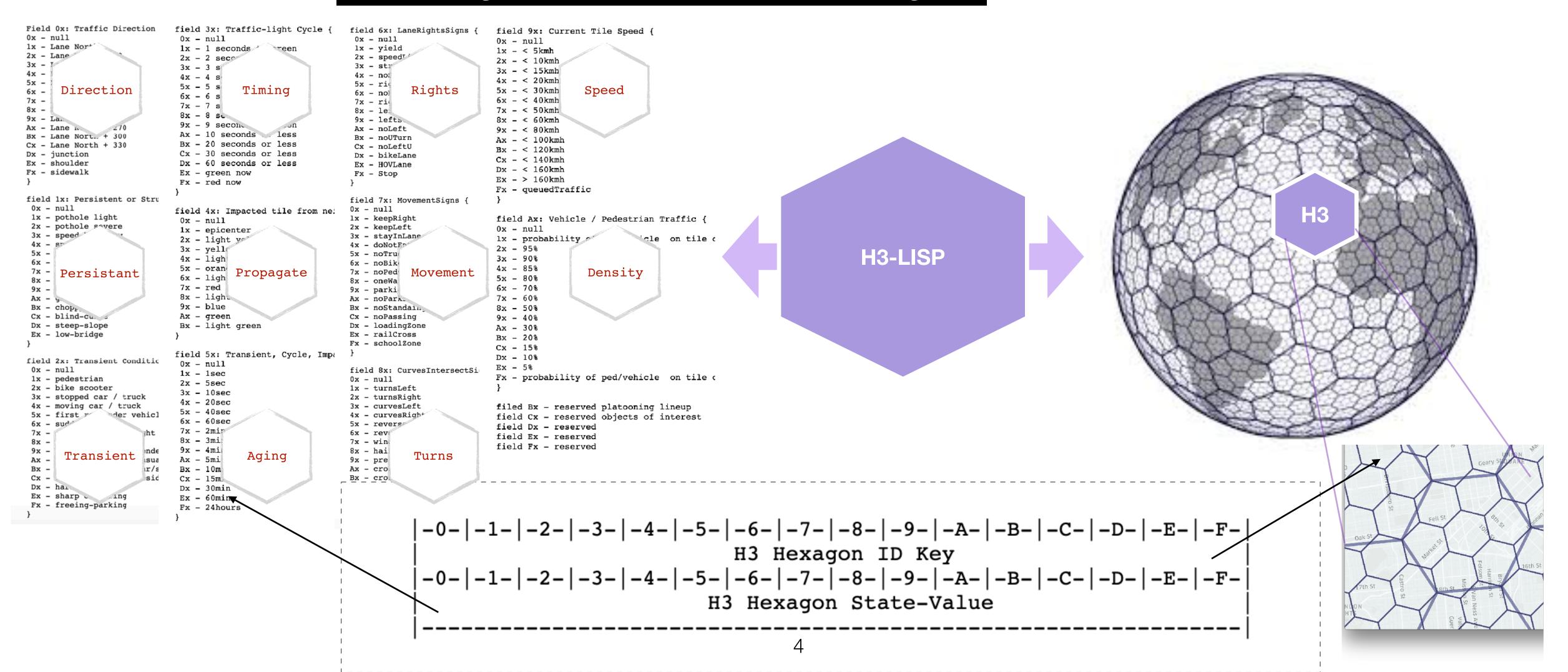
Fixed / Patrolling < Vision & Sensors > Enumerate Public-Spaces



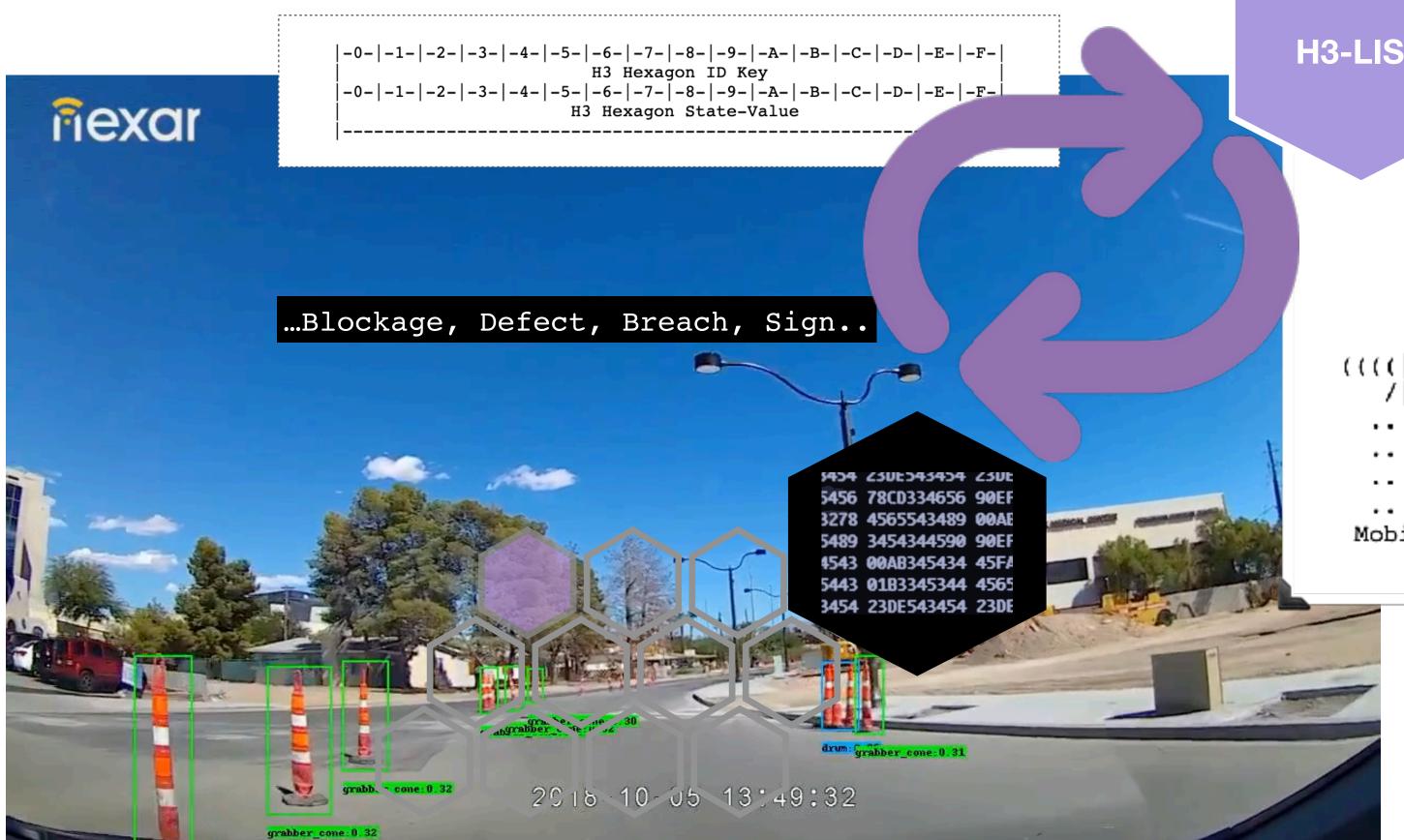


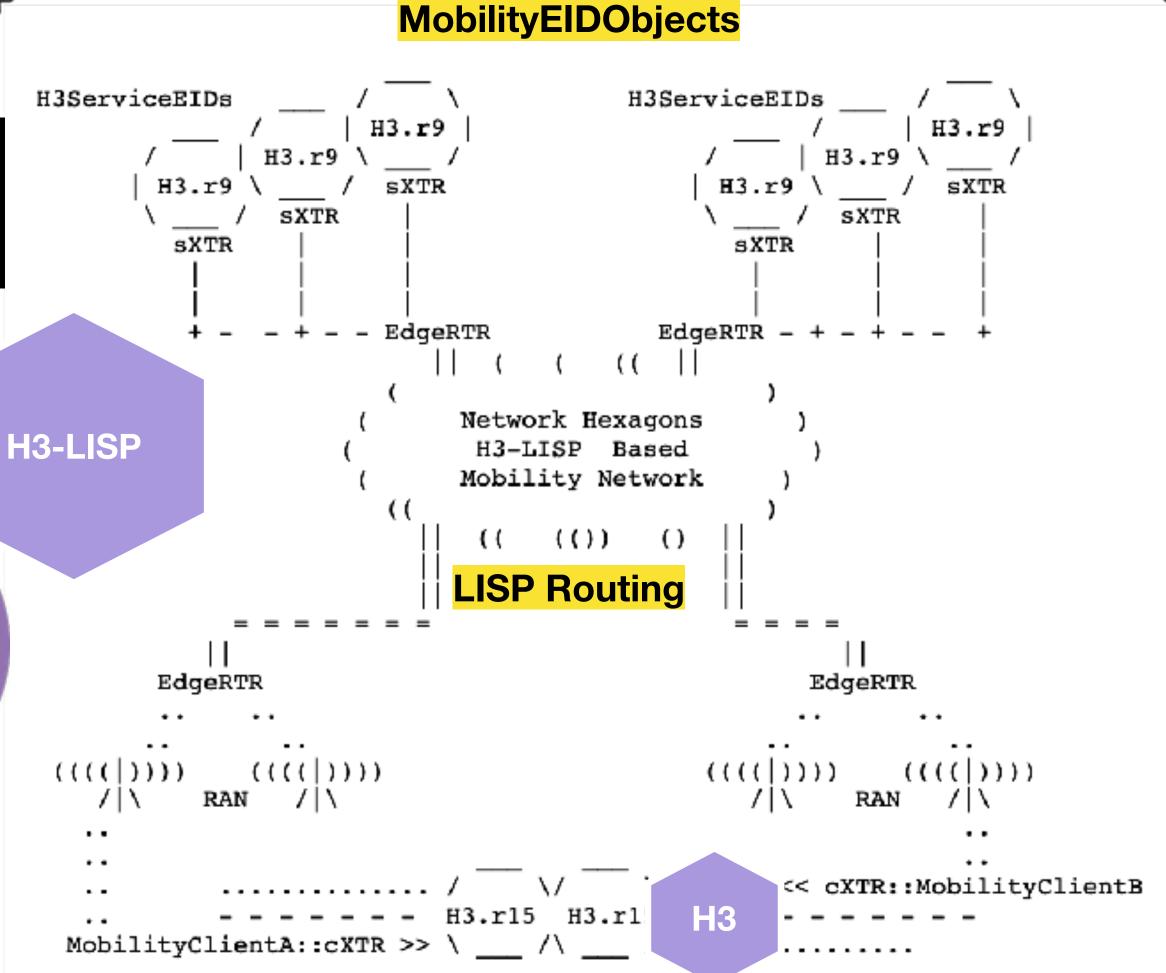
Snap-Pub-Sub: Enums <> EID-Grid

...Blockage, Defect, Breach, Sign..



EID Addressable - LISP Routable Publish Ucast - Subscribe Mcast

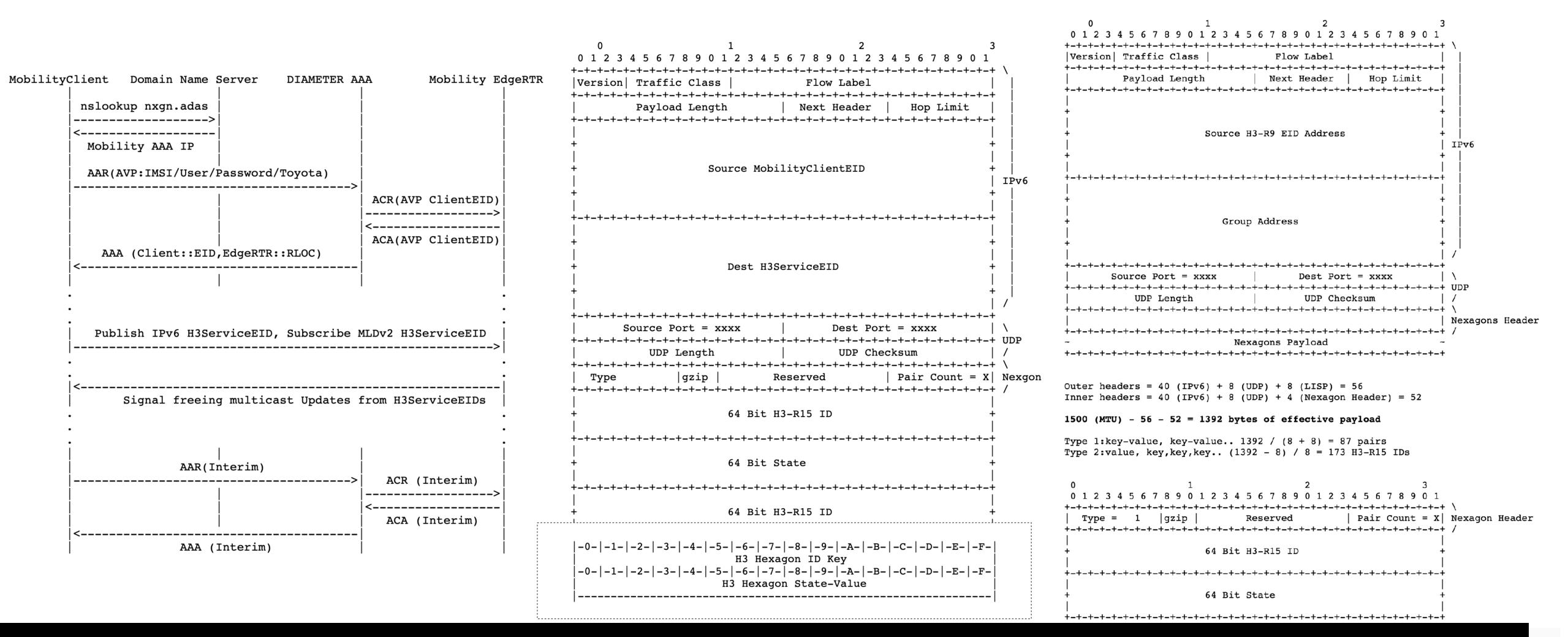




MobilityEIDClients

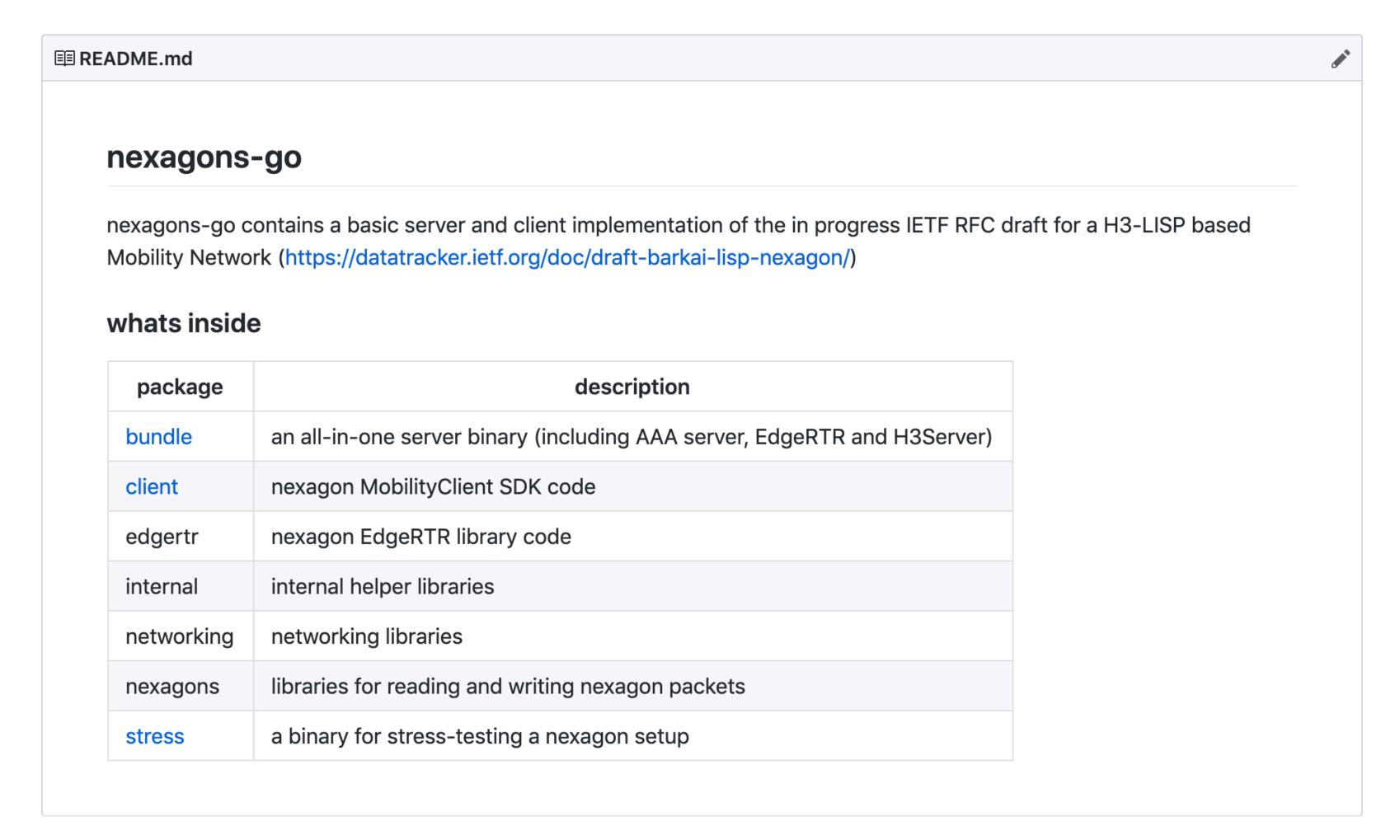
Snap-Pub-Sub to Grid

Since 105



AAA Procedure: Get (MobilityClient EID, EdgeRTR RLOC)
Ucast/Mcast: [EID Source:Dest (S,G), Flags, Count, KV,KV,KV...]

Also Since 105

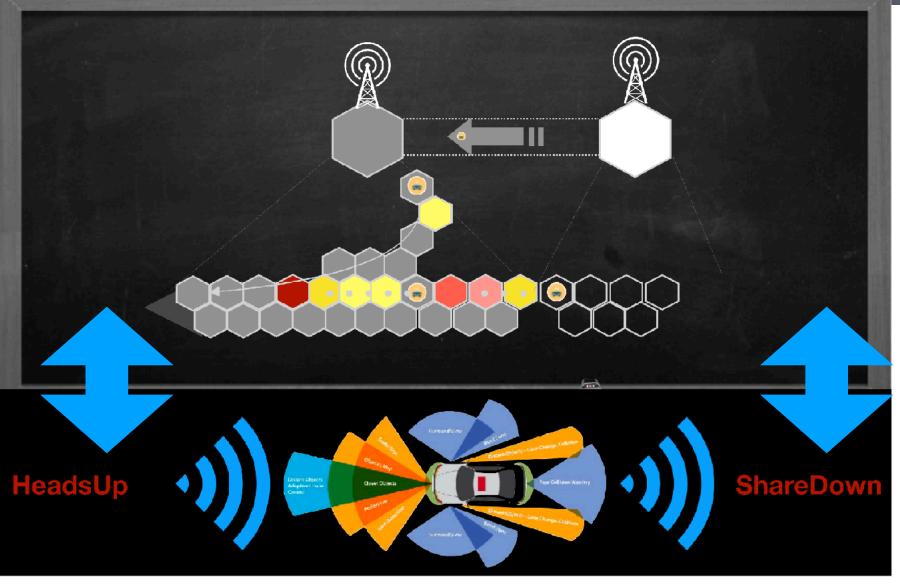


OpenSource Client SDK Based On Diameter, H3, LISP, GZIP, OpenSource Stacks + All In One Edge for Client Debug

Value to Customers

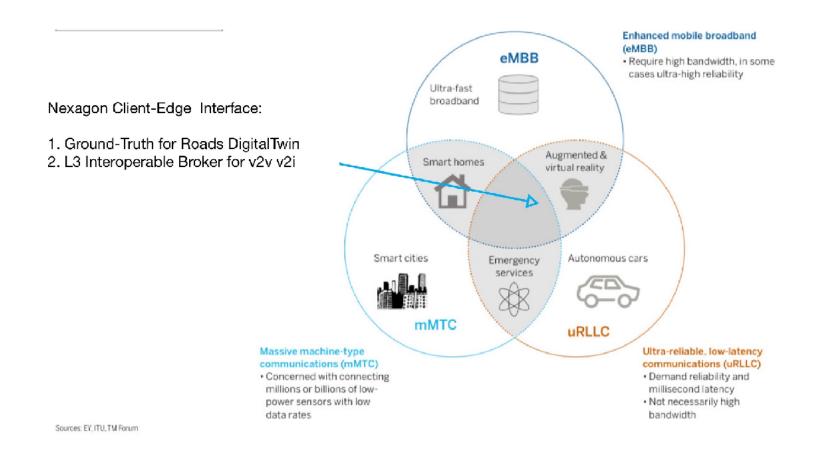
- Muni-DoT: cheaper-fresher surveys of signs, lights, marks, rails, holes, stopped vehicles, construction, ...
- OEM-Drivers: park-assist, blockages, slow-downs, hard-breaks, sharpturns.. beyond line-of-site
- Enterprise: curb-side conditions, track-routes, ped-vehicle traffic, store-fronts, cams-complied..

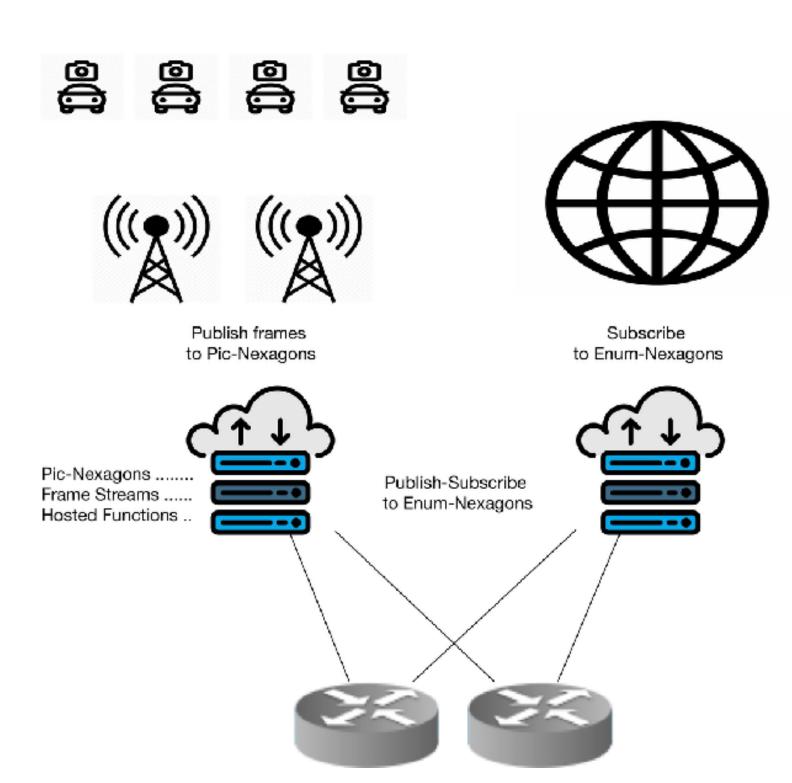




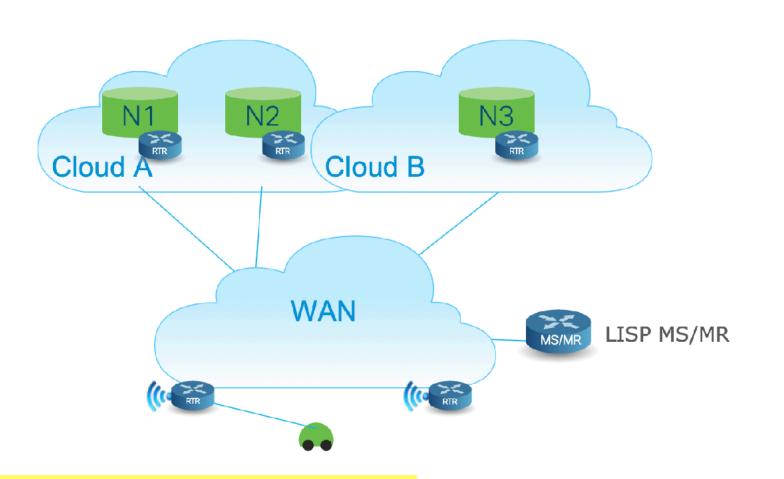
Value To The Edge

DigitalTwin City Ground-Truth
L3 v2v v2i Broker ==
Interoperability





Value of LISP Edge



As part of ongoing Innovation work around Edge cloud we are looking into this Draft and supporting it.

- in the effort of CSP network to support smart-sensor data-sharing:
 - safety, predictive-maintenance, logistics, business-intelligence
 - on behalf of gov-muni, enterprises, and connected-car customers
- CSPs faced two extreme options:
 - specialized narrow-focused, purpose-built DSRC/C-V2X mobility infrastructure
- commodity hosting-connectivity of proprietary-fragmented per brand backends
- <u>nexagon</u> geo-state-network standard allows us to offer stable 5G/LTE edge interface:
 - compile interoperable fresh-data from multiple sources per geo-state - streamline as-as-service to gov/ent/oem subscribers per application

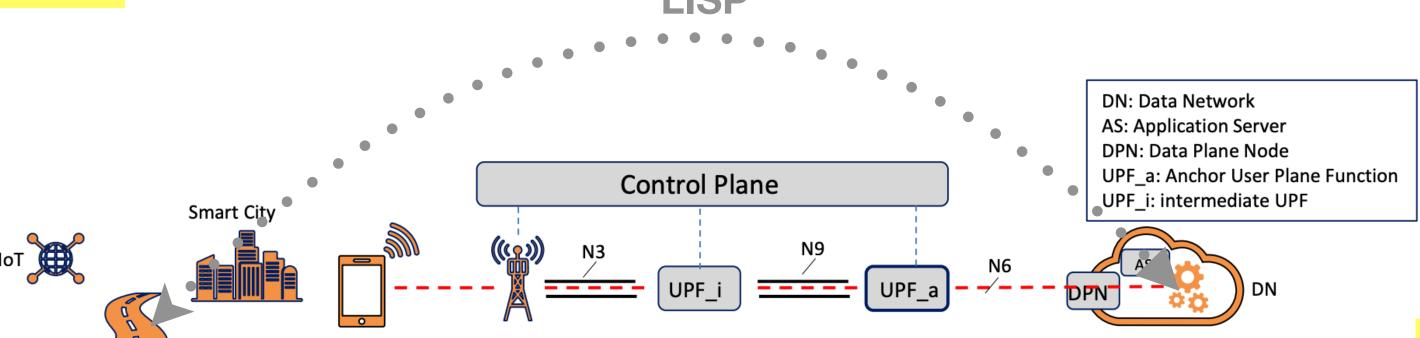
 - 1. We are working with both tech-companies / customers to position use-cases 2. We have been show-casing low-latency brokered solutions offering safety
 - 3. Proving network-brokered edge relays alerts of breaches in sub 20 msec
 - 4. We support adoption of the nexagon draft as part of lisp virtual-ip standard
 - 5. Leverage ots edge routers for geo-state privacy, latency, security, subscription

Thanks,

Source: Nir ATT Foundry@Dox

Lead Innovation Coach

Source: Fabio Alberto Cisco



Source: Marco NEC

Privacy, Latency, Security, Subscription, Scoping, Sharding by LISP Routing MEC Slicing, Steering, CoS by EID Parsing, Gi N6 Routers <=> 5G EPC