



SALT LAKE IRON & STEEL LTD. CO.



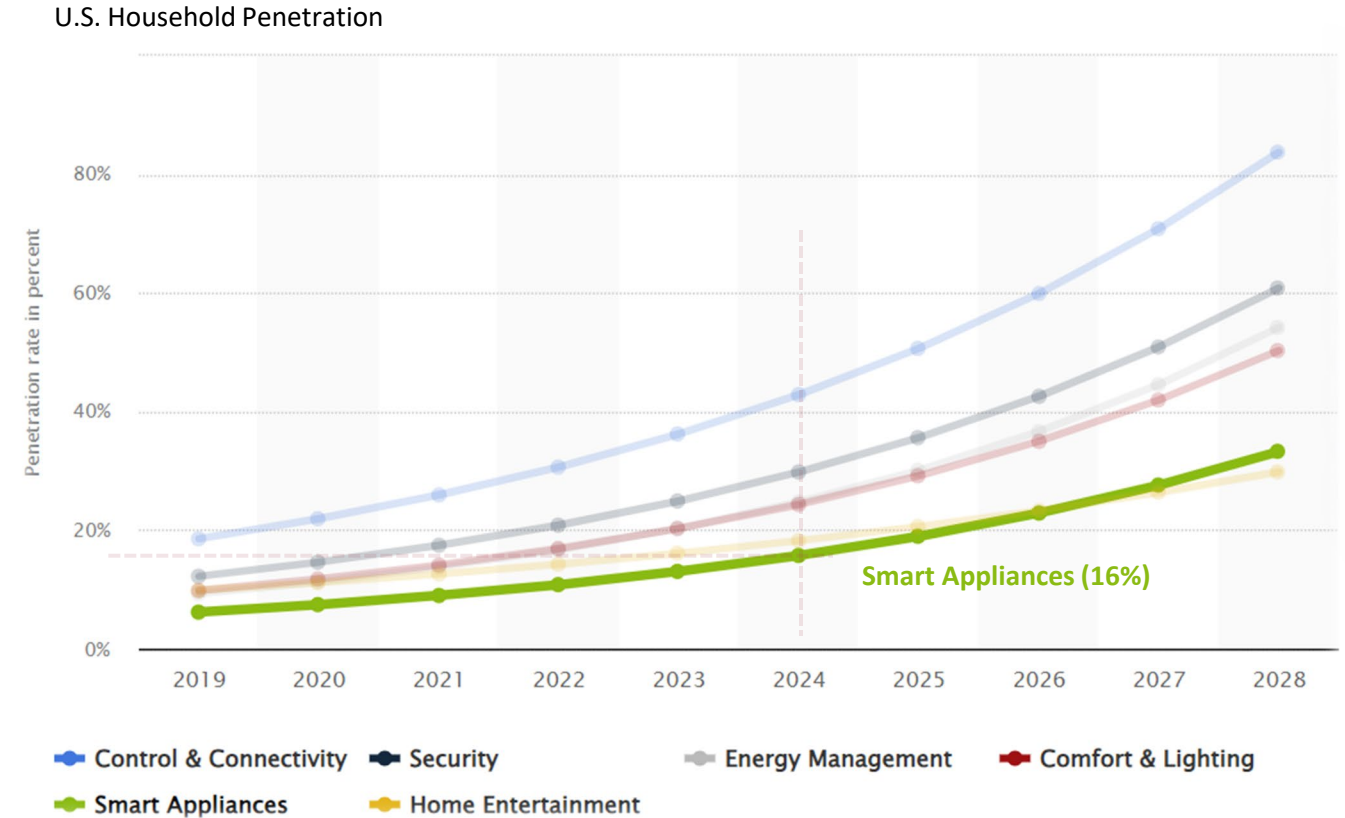
NETWORK CONNECTIVITY WITHOUT LIMITS

- FAILURE OF TODAY'S IOT APPLIANCES
- OUR VISION
- THE SOLUTION
- MARKET OPPORTUNITY
- BUSINESS PLAN

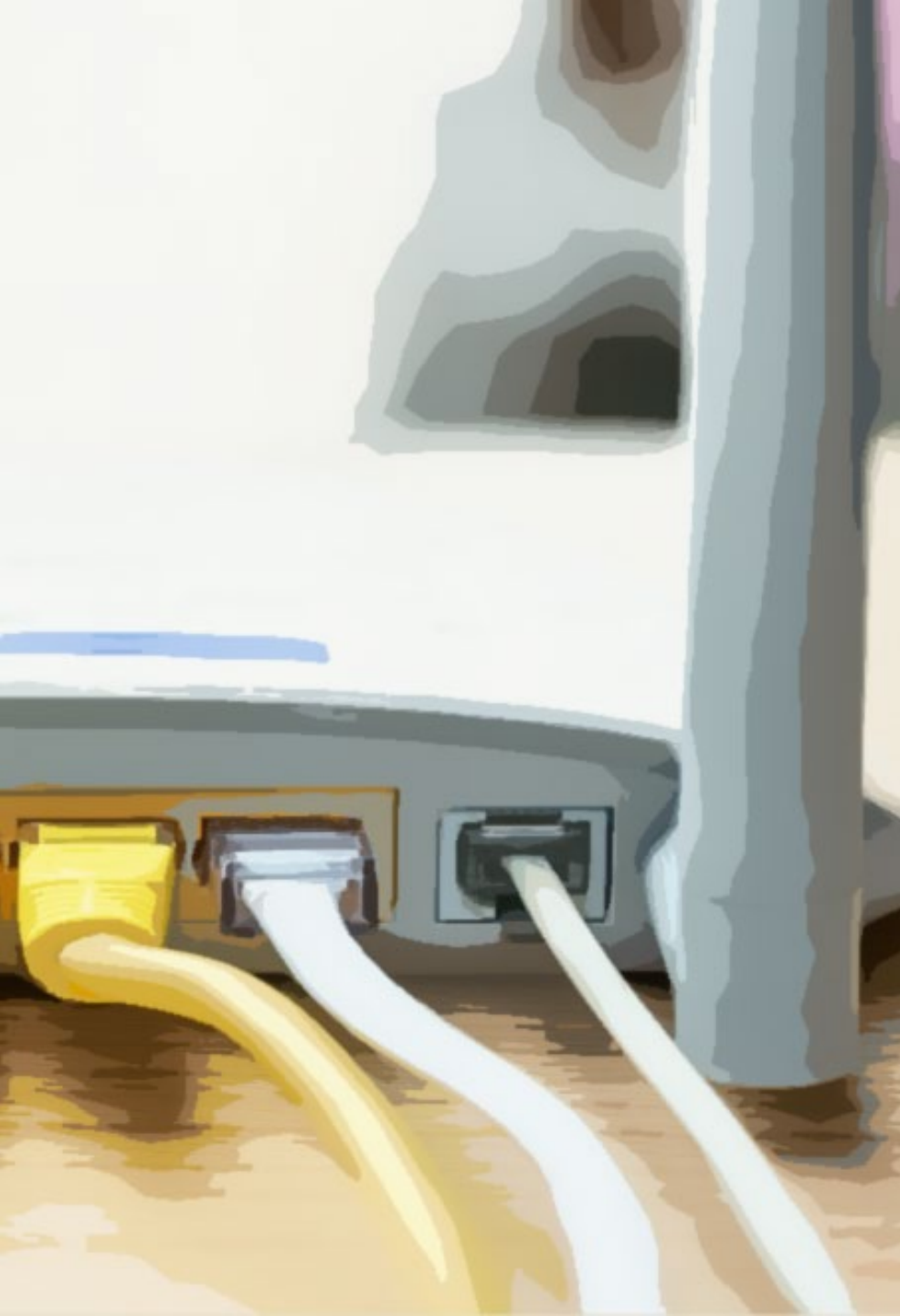
THE POWER OF CONNECTIVITY

THE PROMISE OF IOT APPLIANCES HAS FALLEN SHORT

- Mobile phone adoption, and the apps running on them, have successfully seamlessly linked the consumer to the cloud.
- Smart Home technologies in Security, Comfort & Lighting, and Energy Management have higher embedment rates than Home Appliances (the lowest of all tracked home IOT categories.)
- Home Appliances, relying on a consumer's existing Wi-Fi network, have not enjoyed the same adoption.



Why?



THE PROBLEM

- Today's IOT appliances are connected to Wi-Fi because that is what is “around.”
- Today's Wi-Fi networks have been developed to stream data rich content, not to deliver an optimal smart home experience.
- Appliances rely on the end consumer to establish and maintain connection.
- Smart home connectivity remains fragmented and Wi-Fi dependent.
- Wi-Fi congestion and user-managed setup reduce reliability.
- Security vulnerabilities in standard networks hinder GX data integration.

Most major home appliances are not being effectively leveraged for data collection.

OUR VISION

- Appliances connect directly to their own network, and then to the cloud — no router, no setup.
- Continuous encrypted communication for diagnostics and optimization.
- Enables service-based ownership models (leasing, pay-per-use).
- Supports Tokyo's GX targets through predictive maintenance and energy analytics.

CUT THE CORD

IMAGINE A WORLD WHERE...

**Appliances connect directly to the cloud;
no pre-established network needed:**

- Uninterrupted data streams
- Hassle-free warranty resolutions
- Continuous monitoring and support

Monetization of the durable can be reimaged:

- Service Contracts
- Consumable subscriptions
- Rent-to-own over time vs. upfront shock of purchase and installation.
- Consumers benefit from improved owner experience versus reliance on user experience to drive adoption.

THE SOLUTION

1. SLIS Multi-node Wide Area Network (MNNAN)

- a. Meshing transceivers to create wide area network available for Wi-SUN capable radio use.

2. SLIS Appliance Local Area Network (ALAN) Architecture

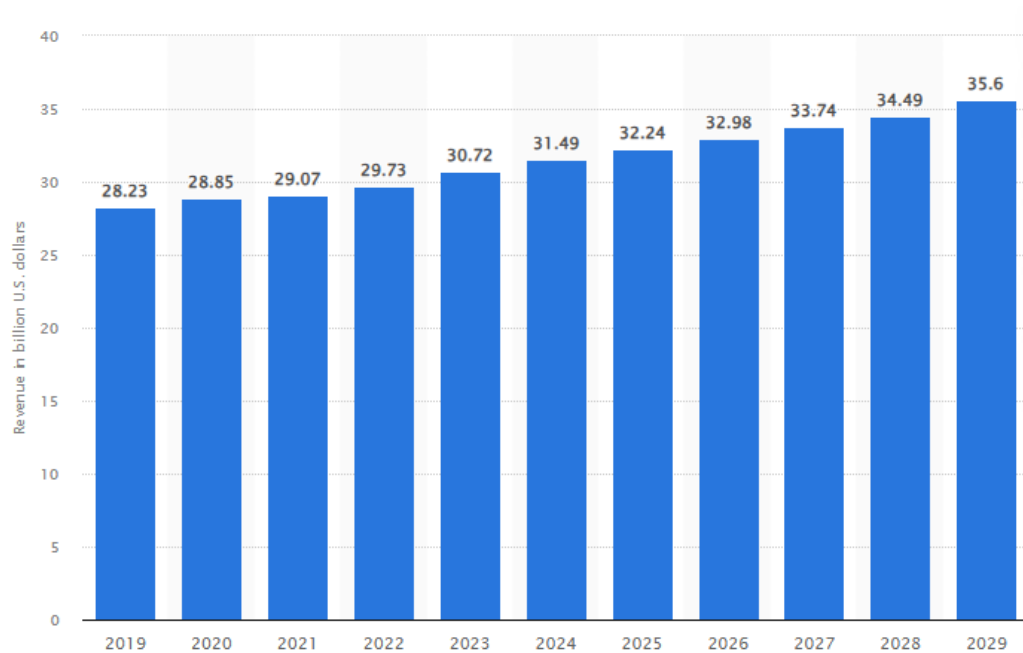
- a. Leveraging home appliances in mesh to coordinate edge computing activities with minimal backhaul to the cloud.

Specifications:

- ALAN (920 MHz Wi-SUN mesh): Links appliances securely.
- MNNAN (LTE-M/NB-IoT backhaul): Digi XBee 3 module provides carrier-grade uplink.
- Private key authentication ensures data integrity.
- Independent of Wi-Fi; self-forming, self-healing network.

MARKET OPPORTUNITY

U.S. Major Appliance Industry Revenue
(in billions of U.S. dollars)



Major Appliance \$31.5B revenue in the U.S. is forecast to continuously increase between 2024 and 2029 by in total \$4.1B (+13%).

Total U.S. household appliances market size is valued at \$99.43B in 2023.¹

The total global home appliance industry (with major, utility, and small appliances included)

- **2/3rd trillion dollar** market with retail sales expected to generate around \$670B in 2024.²
- The overall appliance market is forecast to grow further over the next few years to more than \$850B in value by 2029 (+19%).

Graphic Source: U.S.: major appliances revenue 2019-2029 | Statista

1. [U.S. Household Appliances Market Size, Share Report, 2030](#)

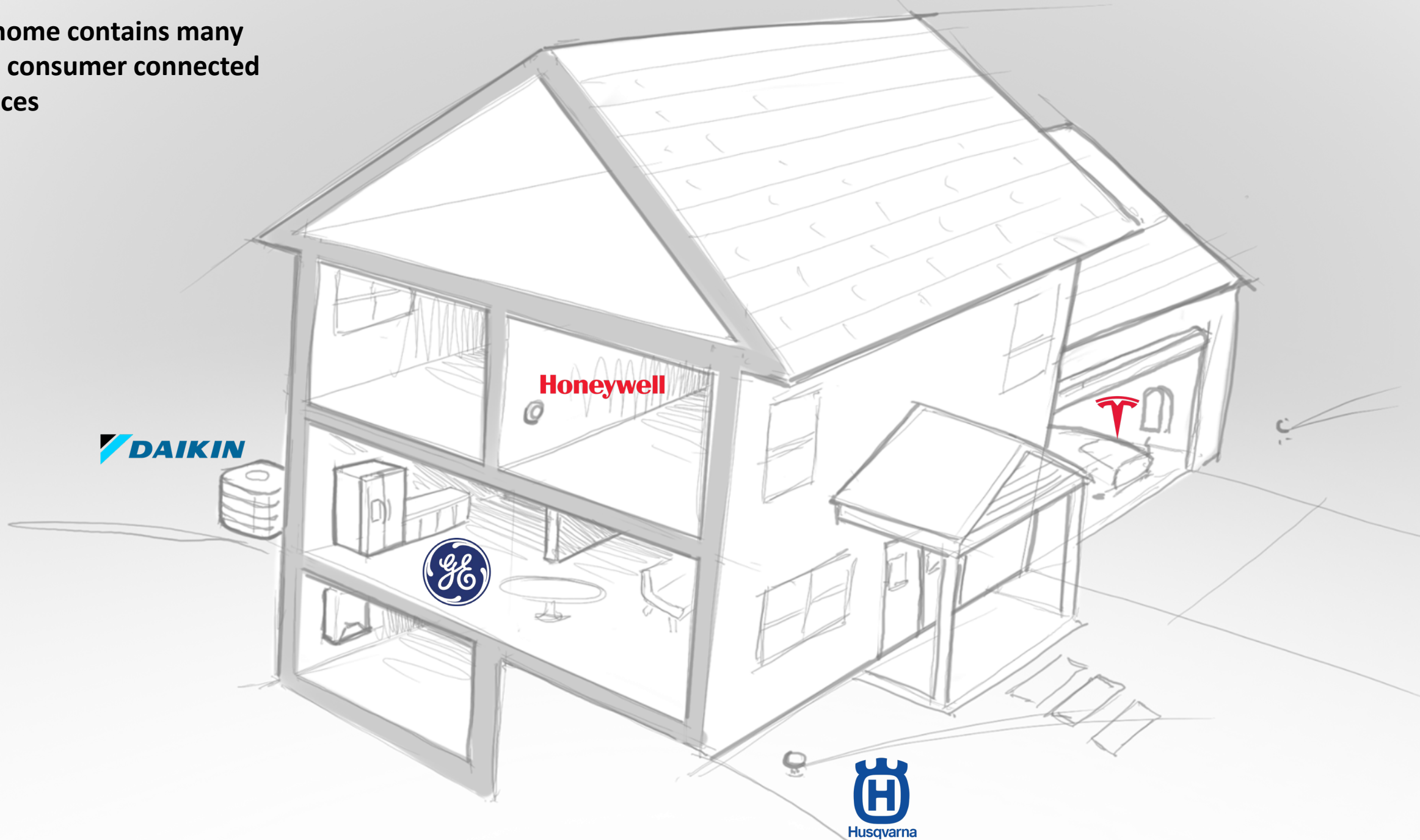
2. [Household Appliances: market data & analysis | Statista](#)

Major Appliance = washing, drying, cooking, and refrigeration

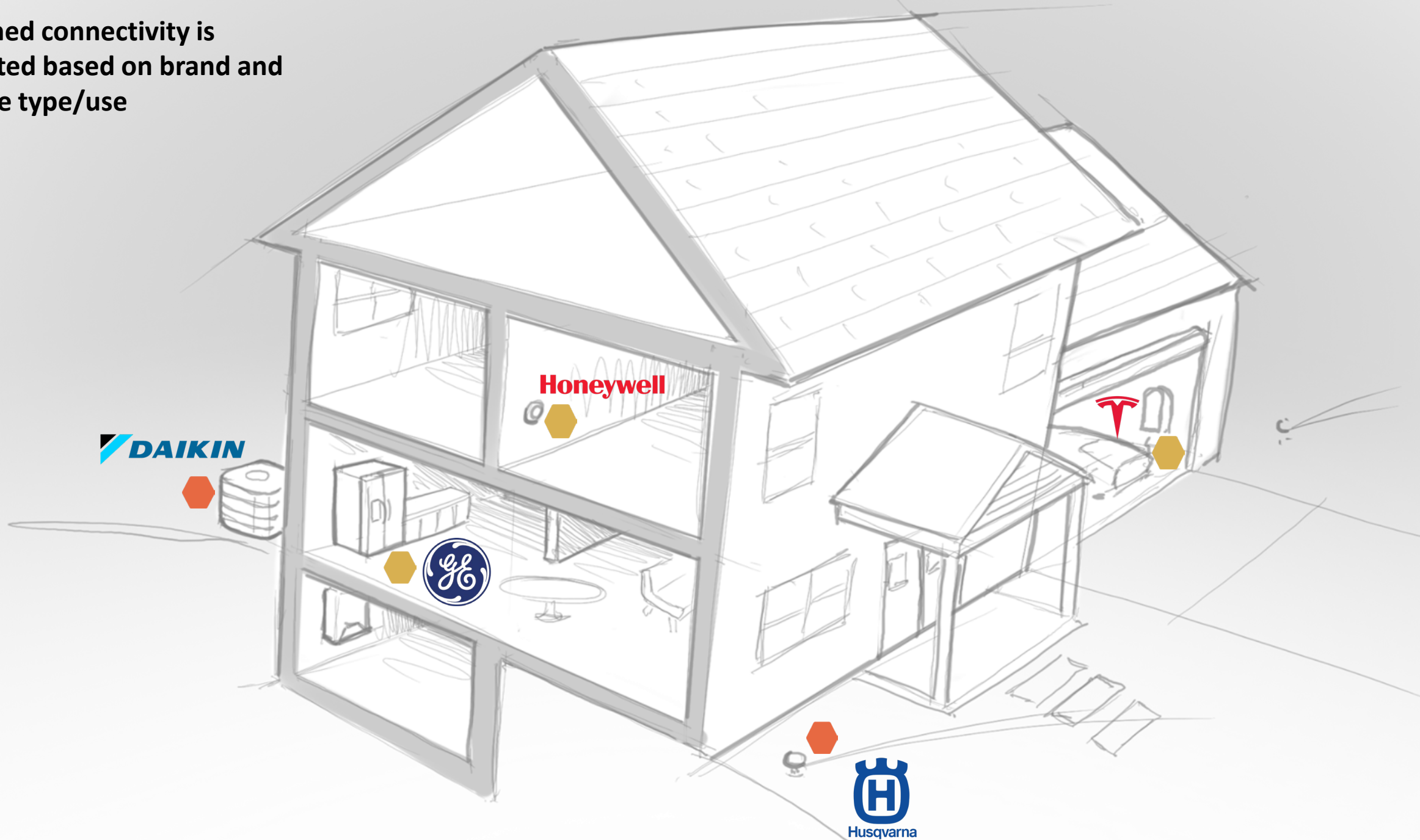
Utility Appliance = HVAC, Hot Water, Water Softening

Small Appliance = Kitchen countertop Appliances

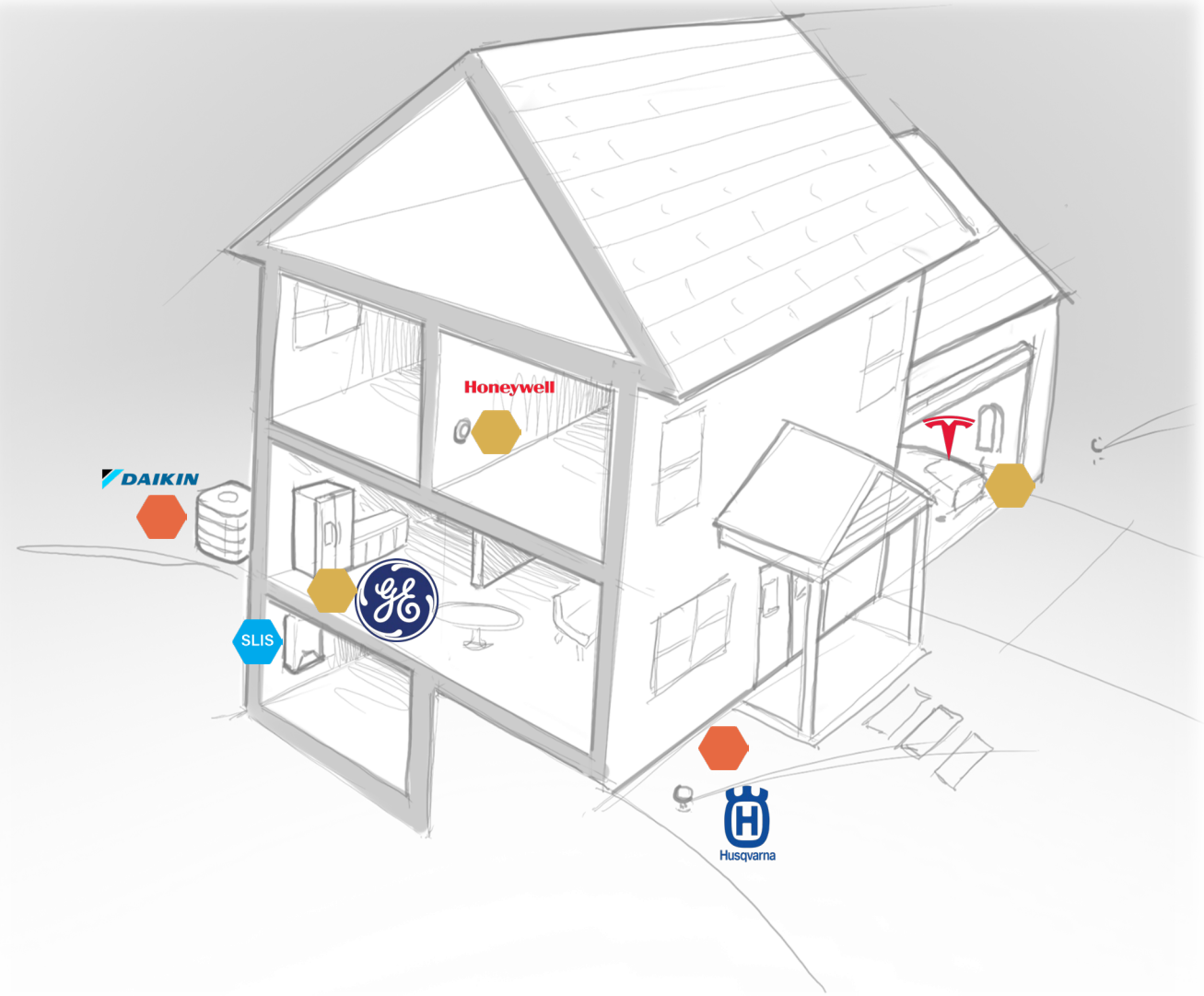
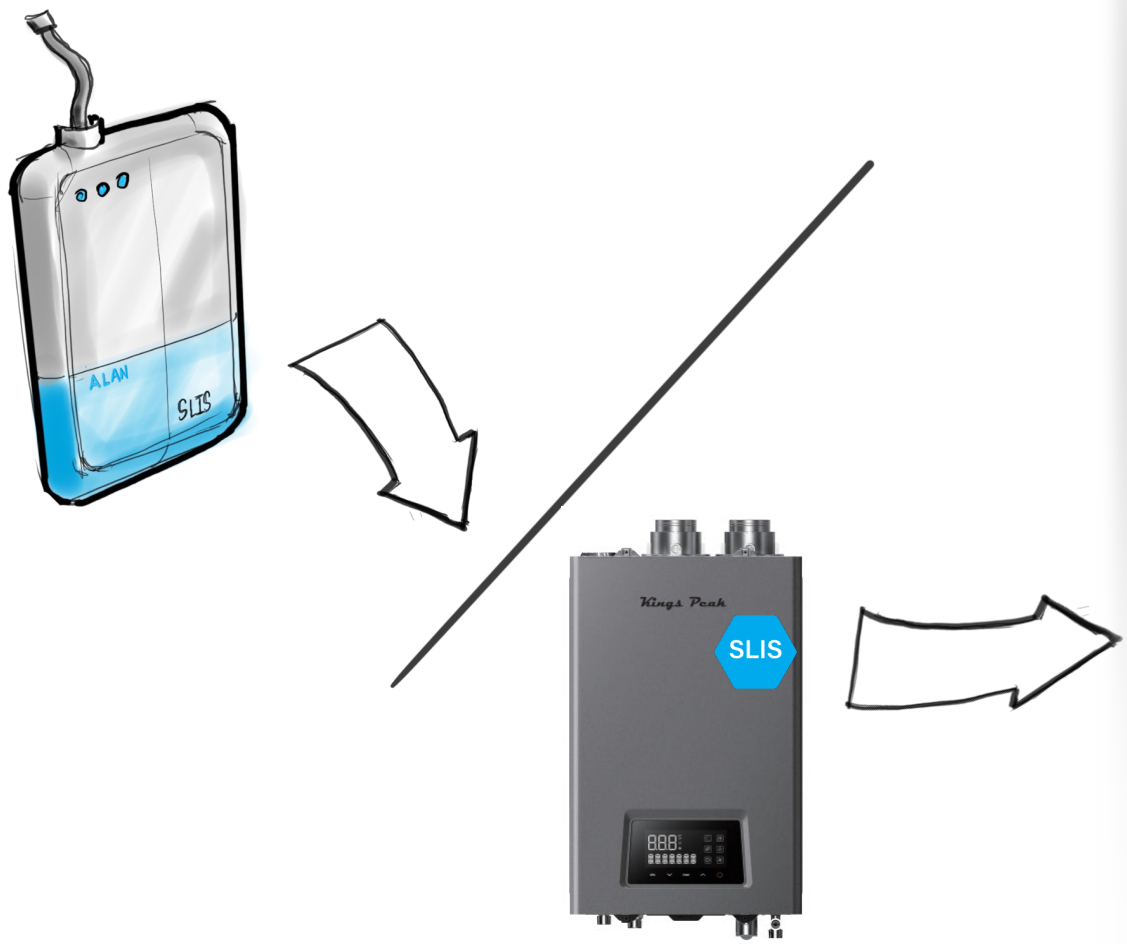
Today's home contains many
different consumer connected
experiences



Maintained connectivity is
fragmented based on brand and
appliance type/use

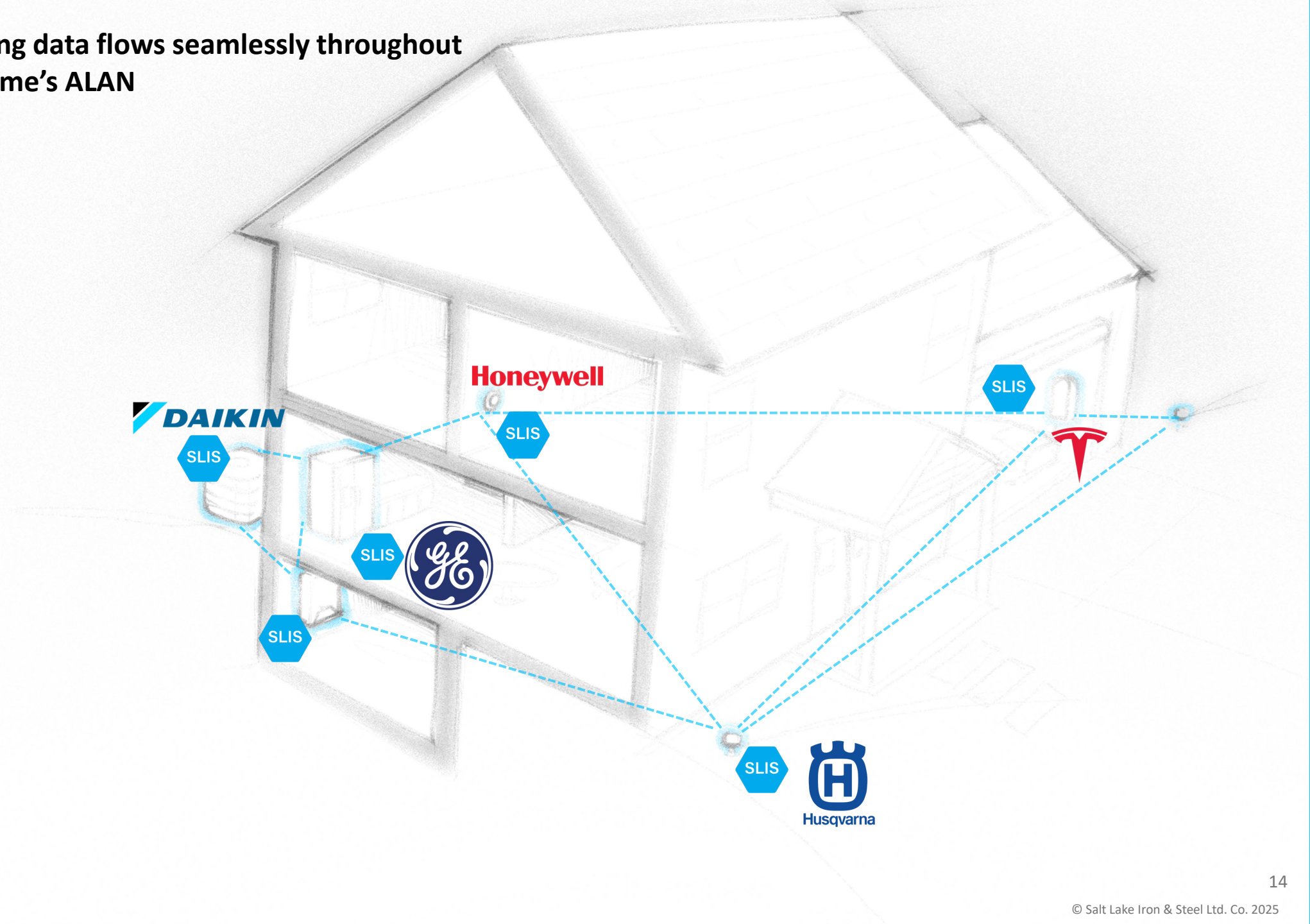


Inside every home, ALAN has the potential to link smart appliances securely through the SLIS network



independent of a preexisting network connection for edge data storage and relay to the cloud.

Ensuring data flows seamlessly throughout the home's ALAN



Today's network connections are also individual residence dependent, with connectivity rates of home devices varying significantly



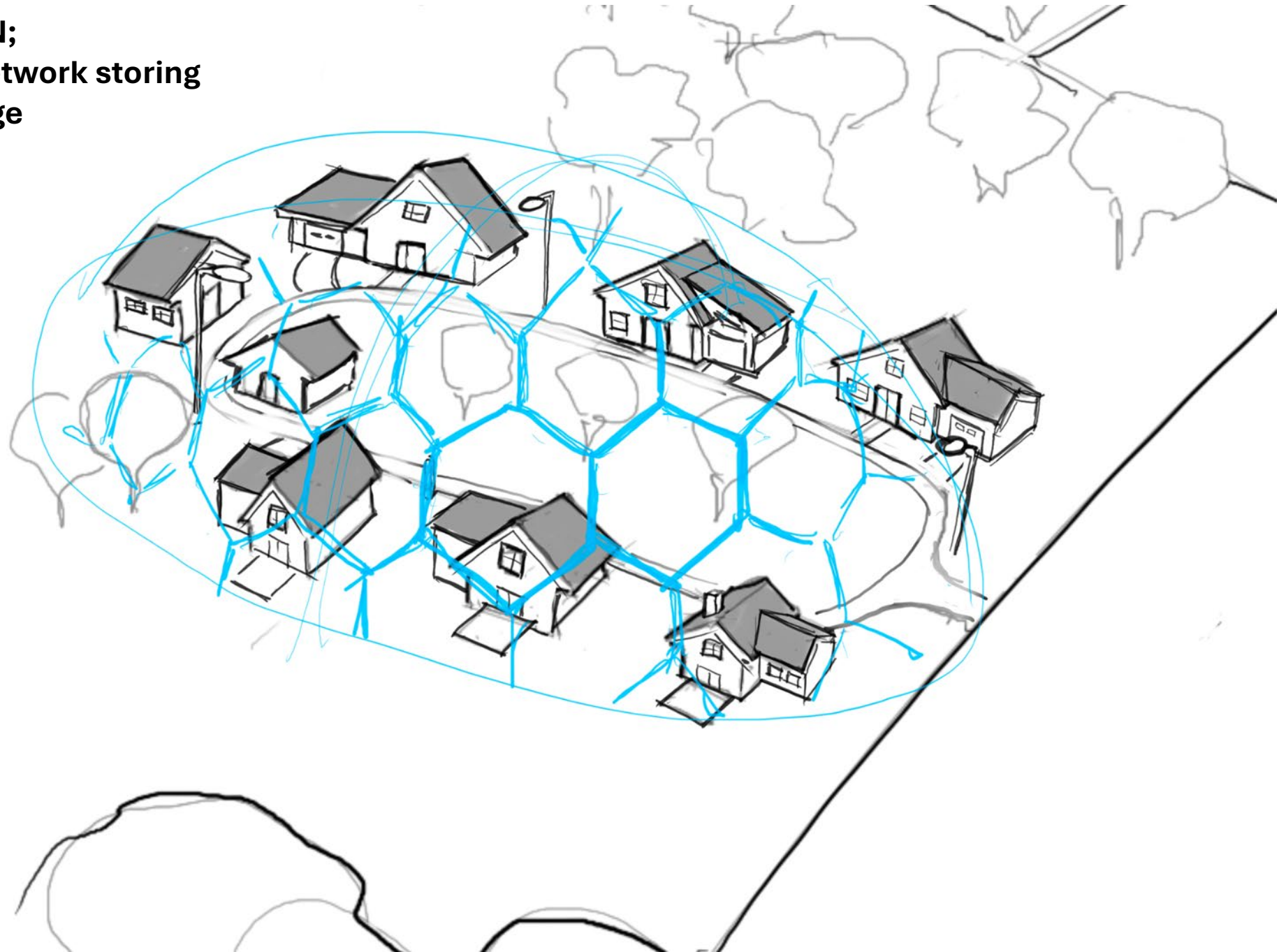
As deployment of SLIS connected devices increases, the scalability of the SLIS mesh network seamlessly expands in tandem

Automatically extends without having to lay cables or build towers, simply plug in an additional appliance outside the existing network coverage

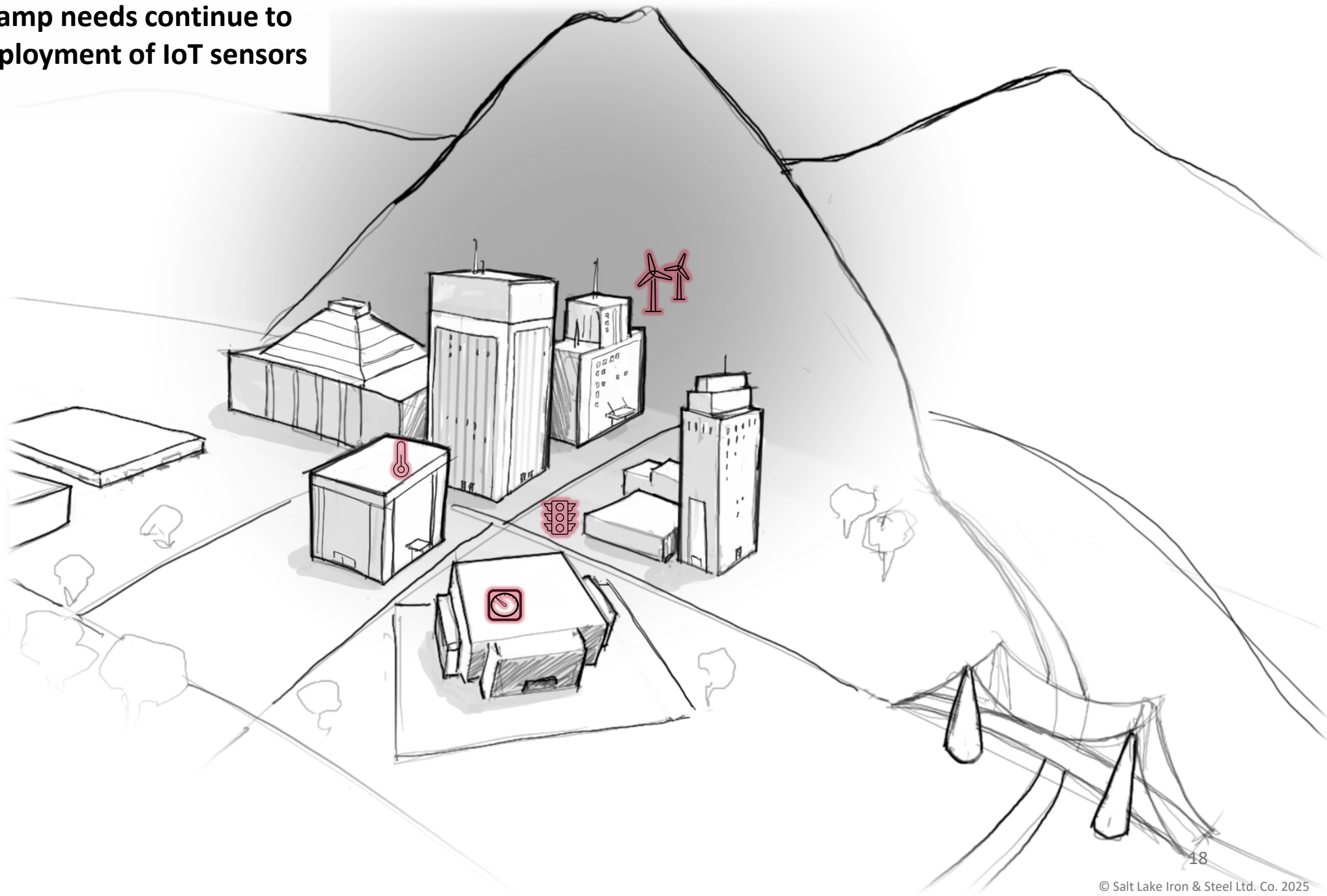


**Creating a SLIS ALAN + WAN;
A self-healing, always on network storing
and relaying data on the edge**

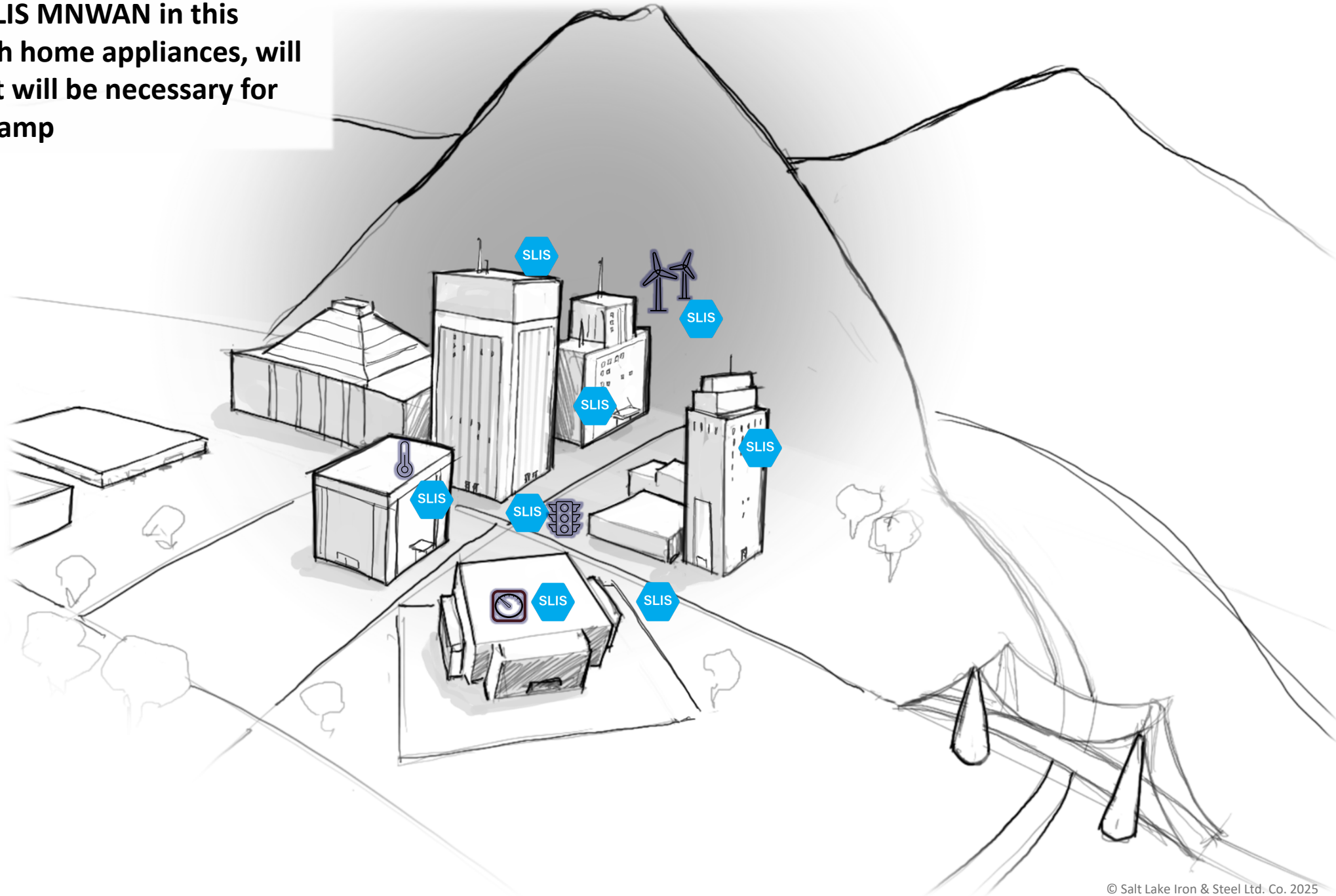
Mesh formation is
organic, with no
central ISP needed



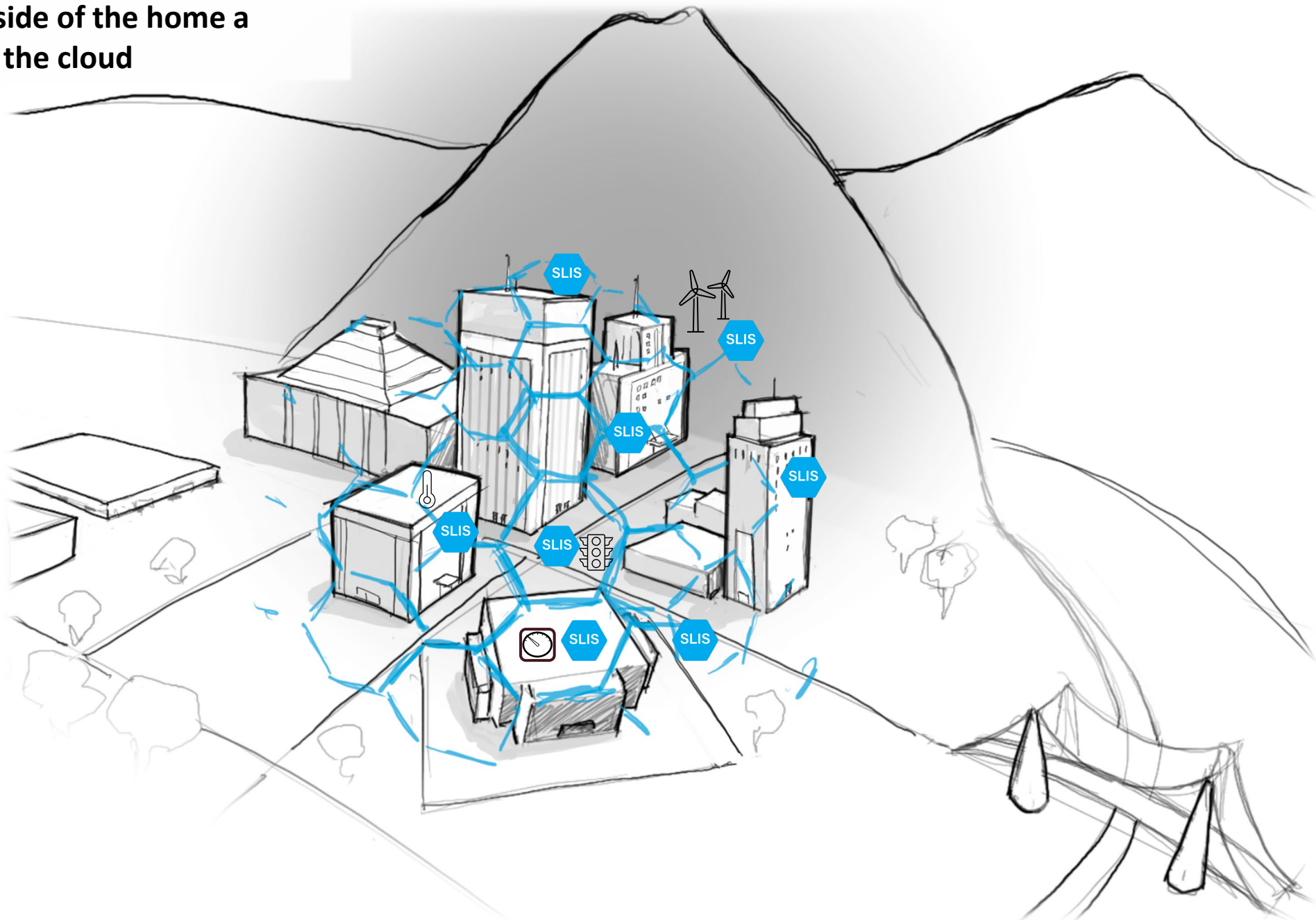
Smart city cloud on-ramp needs continue to increase based on deployment of IoT sensors and devices



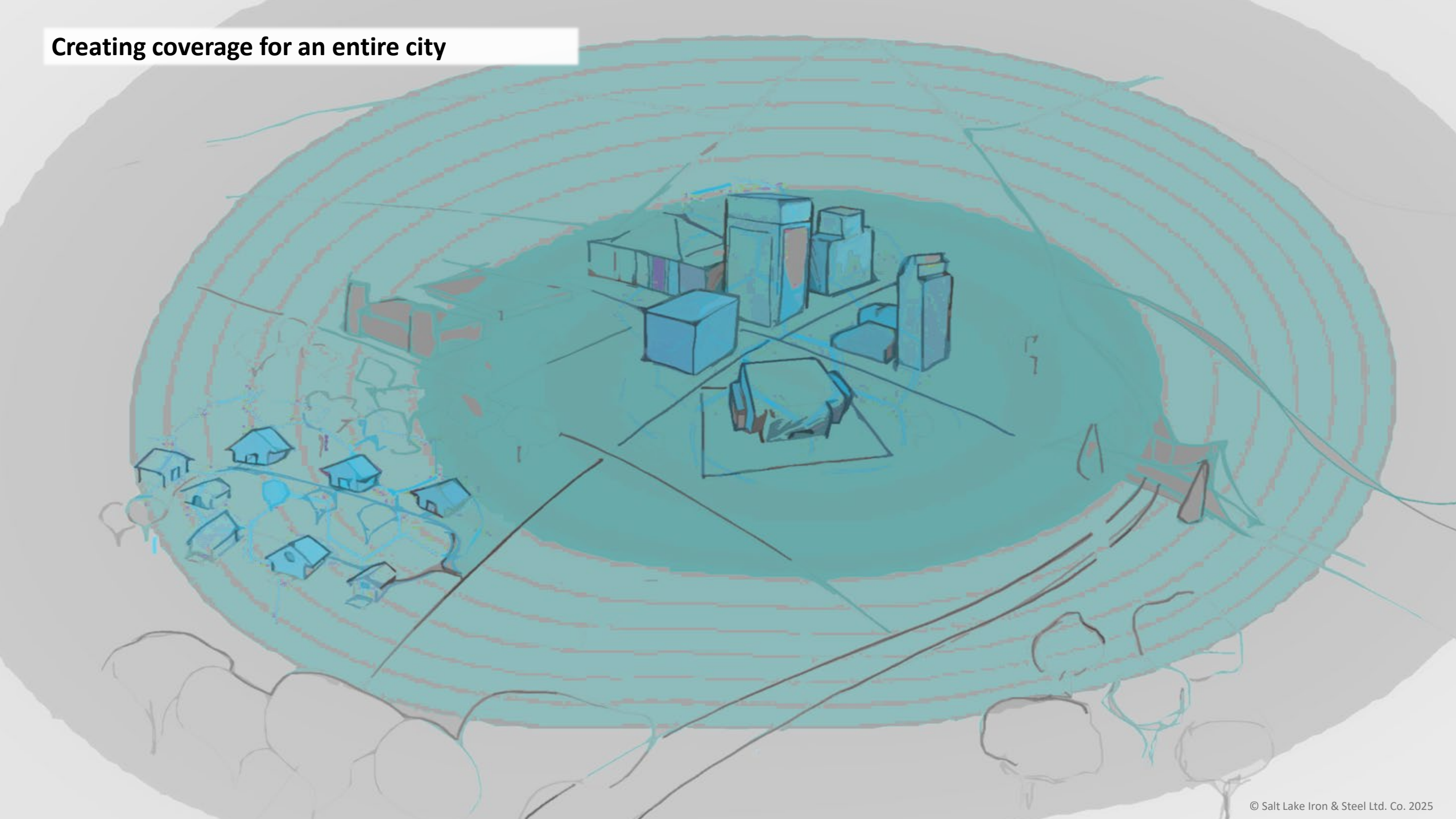
Deployment of the SLIS MNWAN in this environment, through home appliances, will create the nodes that will be necessary for these devices to on-ramp



Allowing devices outside of the home a seamless pathway to the cloud



Creating coverage for an entire city



WHY NOW?

- Growing need for more secure communication solution.
 - Separating Wi-Fi and our network improves security of the appliances.
- Consumers and manufacturers seek value beyond initial purchase.
 - Upfront costs becoming prohibitive for many consumers.
 - New revenue streams through consumable bundles and services.
- Expanding to Japan to support Green Transformation (GX) and smart-city innovation.

TECHNOLOGY READINESS & CERTIFICATION PLAN

MIC (GITEKI): LTE-m + 920 mhz.

JATE: Telecom compliance using SLIS comms module test data.

JIA: Gas appliance inspection certification for KNG199ICW.

PSE: Electrical safety compliance (2026).

ARIB T108/T111: Wi-SUN HAN/FAN conformance.

JAPAN EXPANSION STRATEGY (2025–2026)

PHASE 1 (2025)

Incorporate SLIS Japan GK Via A2T; Initiate Certification And OEM Talks.

PHASE 2 (EARLY 2026)

Pilot 20–50 Connected Units With Leoplace21 / Tokyu Housing Lease.

PHASE 3 (EARLY–LATE 2027)

Launch GX-funded rollout with Japanese Domestic OEM Partner(s) after market test pilot.

TARGET PARTNERSHIPS IN JAPAN

Appliance OEMs: Rinnai, Noritz, Daikin, Fujitsu General, Chofu.

Property Operators: Leoplace21, Tokyu Housing Lease, Daito Trust, Mitsui Fudosan.

Network Partners: Softbank IoT, KDDI IoT Connect, NTT Docomo Open Innovation Cloud.

Pilot Project Proposal (A2T / GX Demonstration)

Location: Greater Tokyo Multi-unit Residential Property.

Scope: 50–100 Kng199icw Smart Heaters Connected Via SLIS MNWAN Gateway.

Goal: Demonstrate Data Reliability, Energy Savings, And Cloud Control.

Support Sought: A2T Facilitation, GX Funding, OEM Participation.

WHY TOKYO / WHY NOW

- Alignment with TMG's GX and Smart City priorities.
- Japanese OEMs are global leaders — SLIS enhances their connectivity layer.
- Public-private co-development opportunity for secure smart-home infrastructure.
- SLIS ready for incorporation, pilot, and local manufacturing partnership.