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BOF: AllSeen Alliance, AllJoyn and OCF, IoTivity - Will We Find One Common Language for Open IOT?

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Will there ever be one common open IOT language?

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- Some say it's essential for for the market to take off.
- Others say it won't ever happen and why should I care?
- Others say the market has already taken off - just look at all the connected things we have in our homes, cars and businesses.

M2M – IOT – Smart Home?

- IOT has been around a long time - we just called it M2M or Home Automation (Smart home) depending on the market segment
- EVERYTHING you can turn on is becoming connected. As these products get more complicated and are fundamentally built with software - their suppliers can't afford to NOT connect them.
- The big hurdle for IOT? - things not working together
- The big opportunity for IOT? - things working together

IoT SDOs and Alliances Landscape (Technology and Marketing Dimensions)

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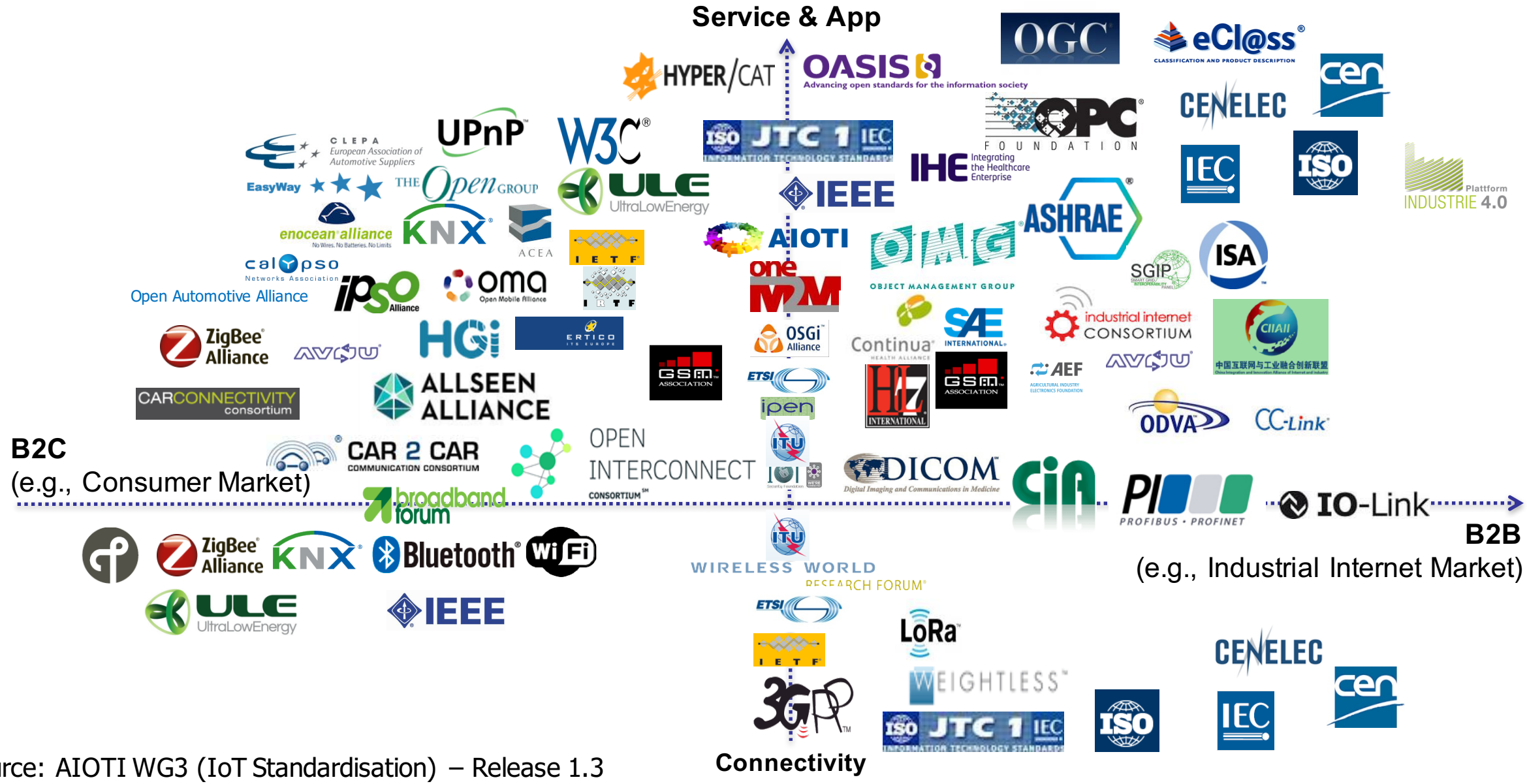

Source: AIOTI WG3 (IoT Standardisation) – Release 1.3

Why AllSeen Alliance?

- Founded 2.5 years ago
- There were too many incompatible IOT standards, so we thought we'd start another one that is soooo gooood we'd solve the problem! *(April fool! - But rings true about each new IOT group)*

The Real Story behind AllSeen Alliance

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- Consumer markets for home automation did not have an M2M based standard or technology (Z-wave, ZigBee are not M2M) - it was time for more than just lights, locks, alarms and cameras.
- The real power of connected living is things talking to things - making living scenarios work for people
- The others who saw this opportunity early have been building nice, powerful but incompatible islands. Each provides so-called open interfaces that let your products "work with" the proprietary platform who will own your customers' IDs and data.

About AllSeen Alliance

- We started AllSeen Alliance to provide the first fully open and free answer for standard IOT software and interfaces well matched to consumer electronics markets.
- We're the largest and only fully open source based IOT solution available today - both code and standard interfaces.
- AllSeen Alliance does the code and the standard interfaces together in fully open democratic governance - you don't need to join to participate, even in defining our specifications. All draft work and all code is available to the public, and free.
- It's already here, mature, robust, widely available – many "AllJoyn Certified" products with millions of devices in market today.

Solutions First with Std. Specs & Certification

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- A key differentiator - you can only become AllJoyn Certified by using the AllJoyn open source code base and passing standard AllJoyn's independent certification testing.
- With AllJoyn you never have to worry that someone will get there first with closed source implementations. This is key for building a big developer community.
- AllJoyn already interoperates with the most popular home automation protocols: Z-wave, ZigBee, BacNET, EnOcean, ULE (DECT) - many others coming.
- Finally AllJoyn is cloud native and works anywhere with fully open standard cloud service interfaces. It's easy to connect with proprietary services as well.

OCF does not equal OIC + AllSeen

- There has not been a merger of AllSeen Alliance with OIC/OCF.
- If you want to work with AllJoyn this comes from AllSeen Alliance and its members.
- If you want to work with OCF this comes from OCF and its members.
- AllJoyn has market and technology momentum.
  - Many AllJoyn Certified products in market today, many more coming
  - Important new enhancements coming in this month's 16.04 release.
  - Many more road mapped for 16.10 (October) including high capacity scaling for IIOT markets, full IPv6/6LoWPAN, and broad IOT protocols interoperability.

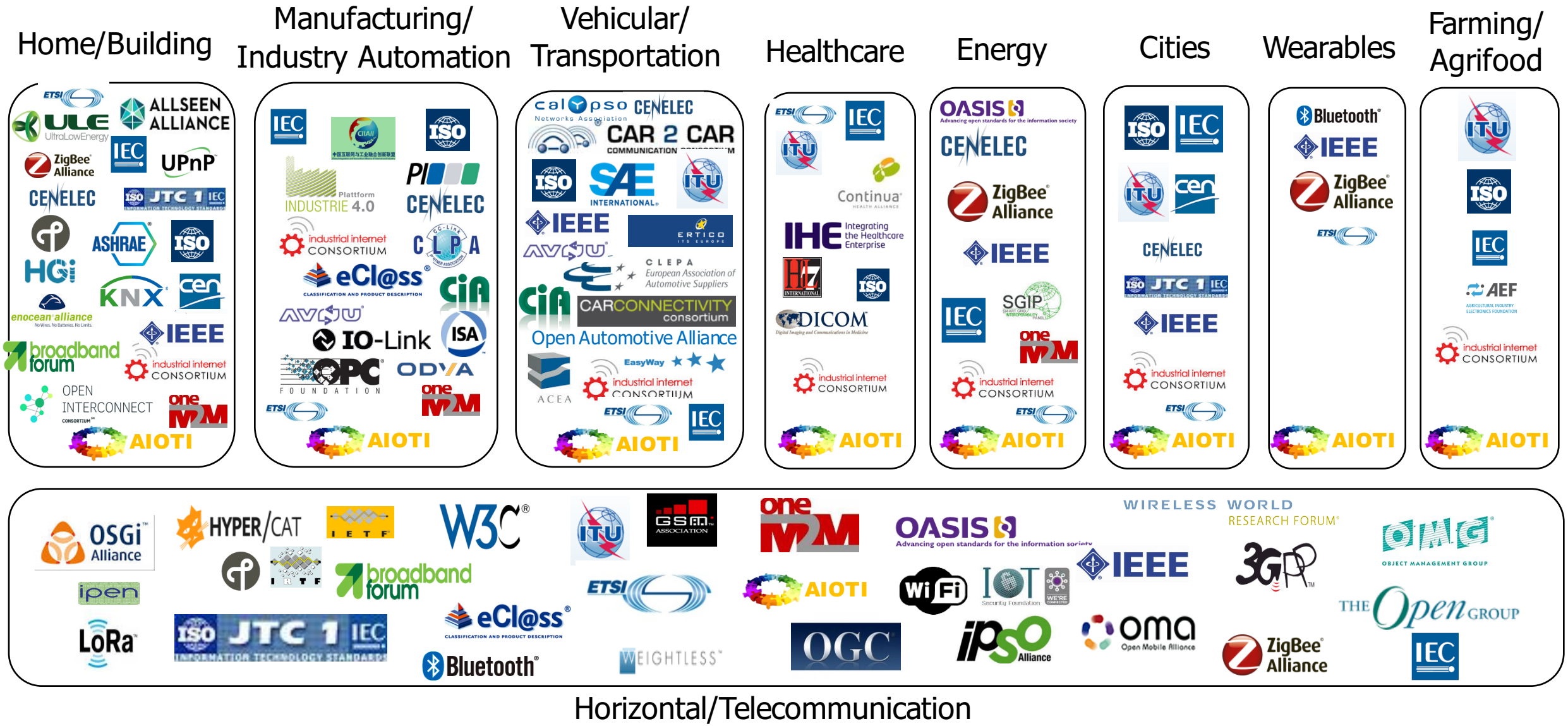
AllJoyn and OCF do have a lot in common

- We've just heard from Greg Burns a nice vision of combining best OCF and AllJoyn
- Architectures are indeed similar in many ways
  - Mesh of applications, end point to end point messaging and security
  - Paths to devices
  - Use of XMPP for remote/cloud services, including cloud native support
- The weak points on each side could be accelerated if open collaboration at both the spec and code level can be enabled.
- But it hasn't yet happened – will it?
- Ultimately the customers and the markets will decide

Open Discussion

- Will there ever be one common language for IOT?
- What is the role for open source projects for IOT working together?
- Standards – how important, which ones, and when?
- Do different markets need a different approach for IOT?
- Commercial and proprietary Eco-systems vs Free and Open Eco-systems?
- Who owns the customer, the data, privacy and interoperability?
- Industry groups, vs. Standards bodies, vs. Government regulations?
- Where do we go from here?

IoT SDOs and Alliances Landscape (Vertical and Horizontal Domains)



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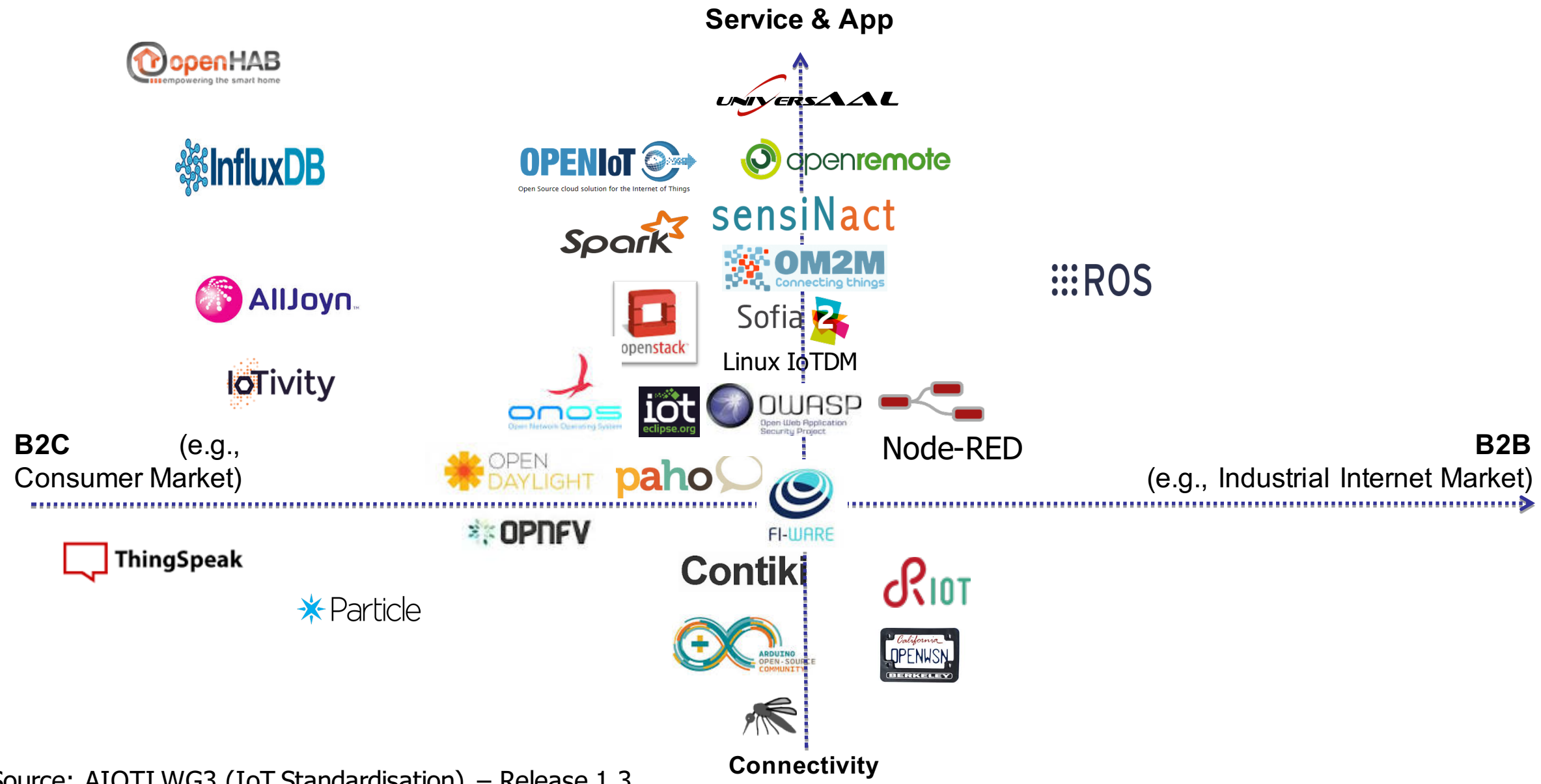
IoT Open Source Initiatives Landscape (Technology and Marketing Dimensions)



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