



**ACADEMY**  
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# Internet of things

Peter Petroff

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Intro

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Need to know

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IoT in action

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IoT future

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Q&A

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**Intro**



# OBEDIENT vs. SMART Home

An aerial photograph of a large car lot, showing rows of cars in various colors (red, white, blue, black). The left side of the image is partially obscured by a semi-transparent red overlay. The text 'ACADEMY' is written in large white letters, with 'POWERED BY ADAstra' in smaller white letters below it.

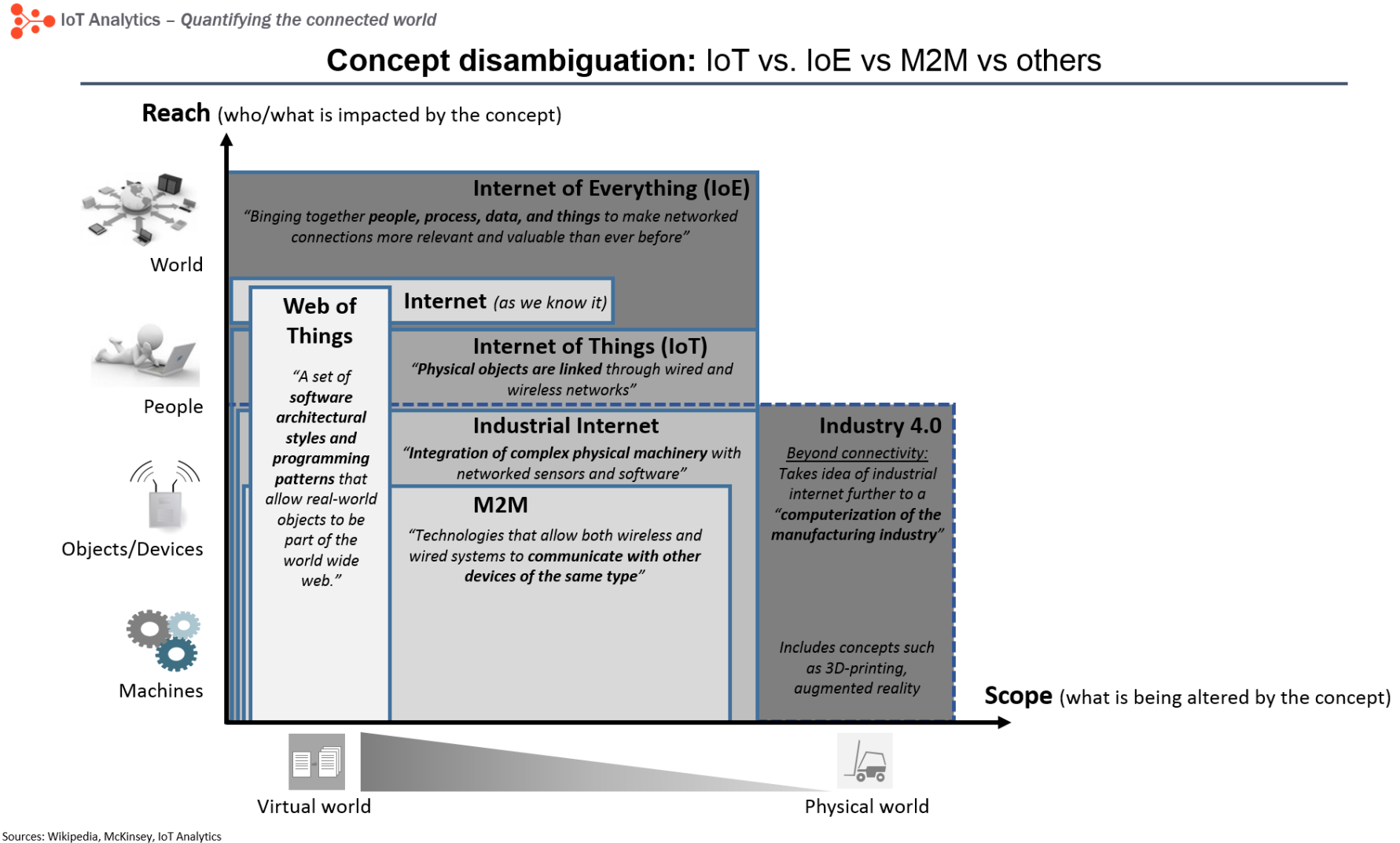
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**Need to know**

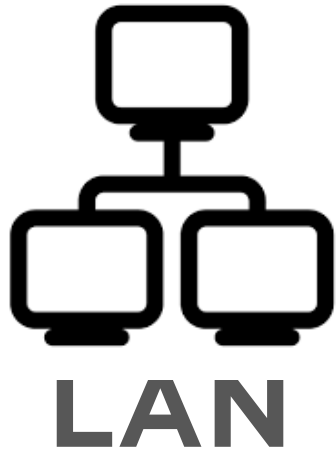
The Internet of Things (IoT), refers to the billions of physical devices around the world that are connected to the internet, all collecting and sharing data.

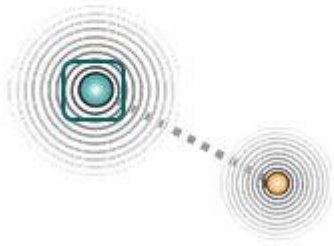


Kevin Ashton,  
inventor of the Internet of Things

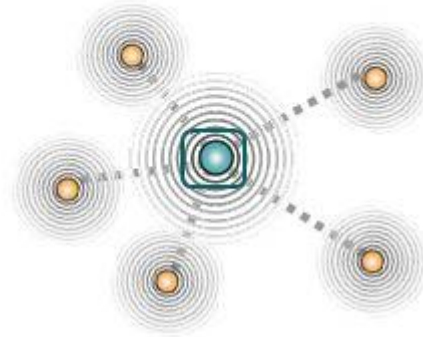




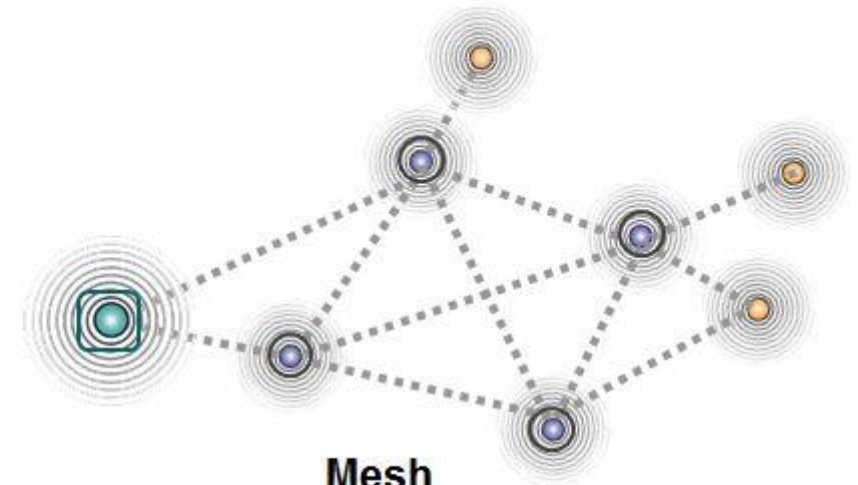




**Point-to-Point**



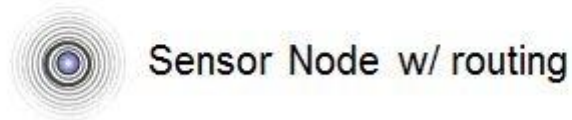
**Star**



**Mesh**



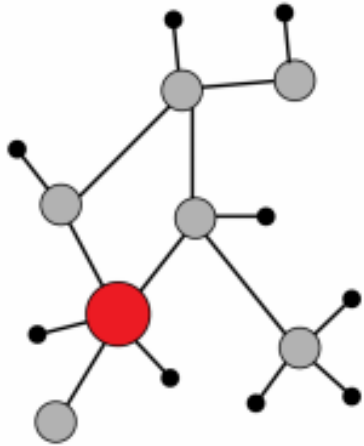
Gateway Node



Sensor Node w/ routing



Sensor Node



**Flexible  
self-organizing mesh**

**+**



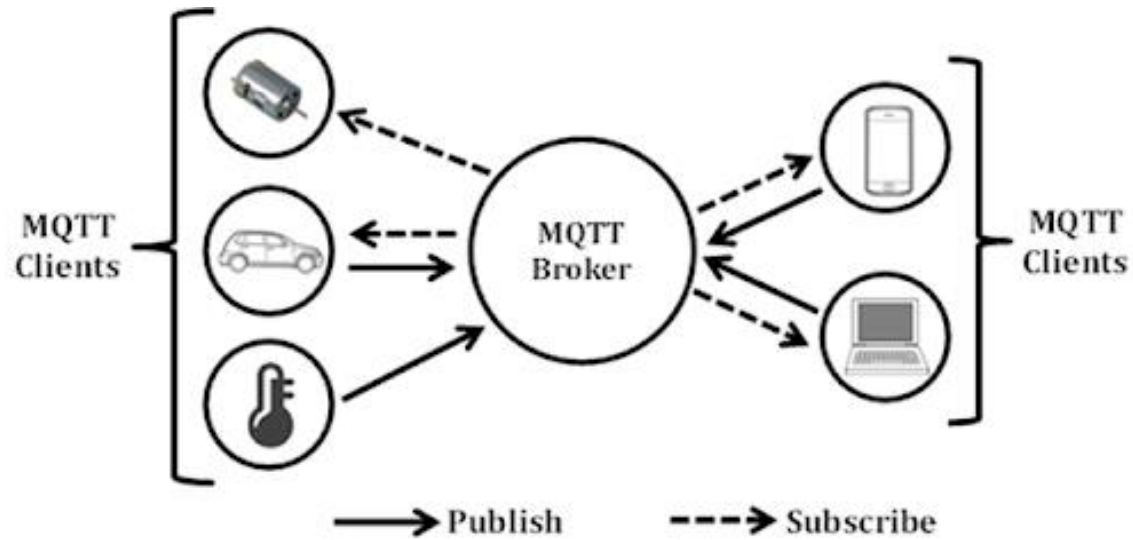
**Ultra  
low-power**

**+**



**Library of  
applications**





- **Rabbit MQ**



- **Mosquitto**

- **EMQ**



- **VerneMQ**



- **Hive**



- **Azure IoT Hub**

- **Google Cloud Pub/Sub**

- **AWS IoT**

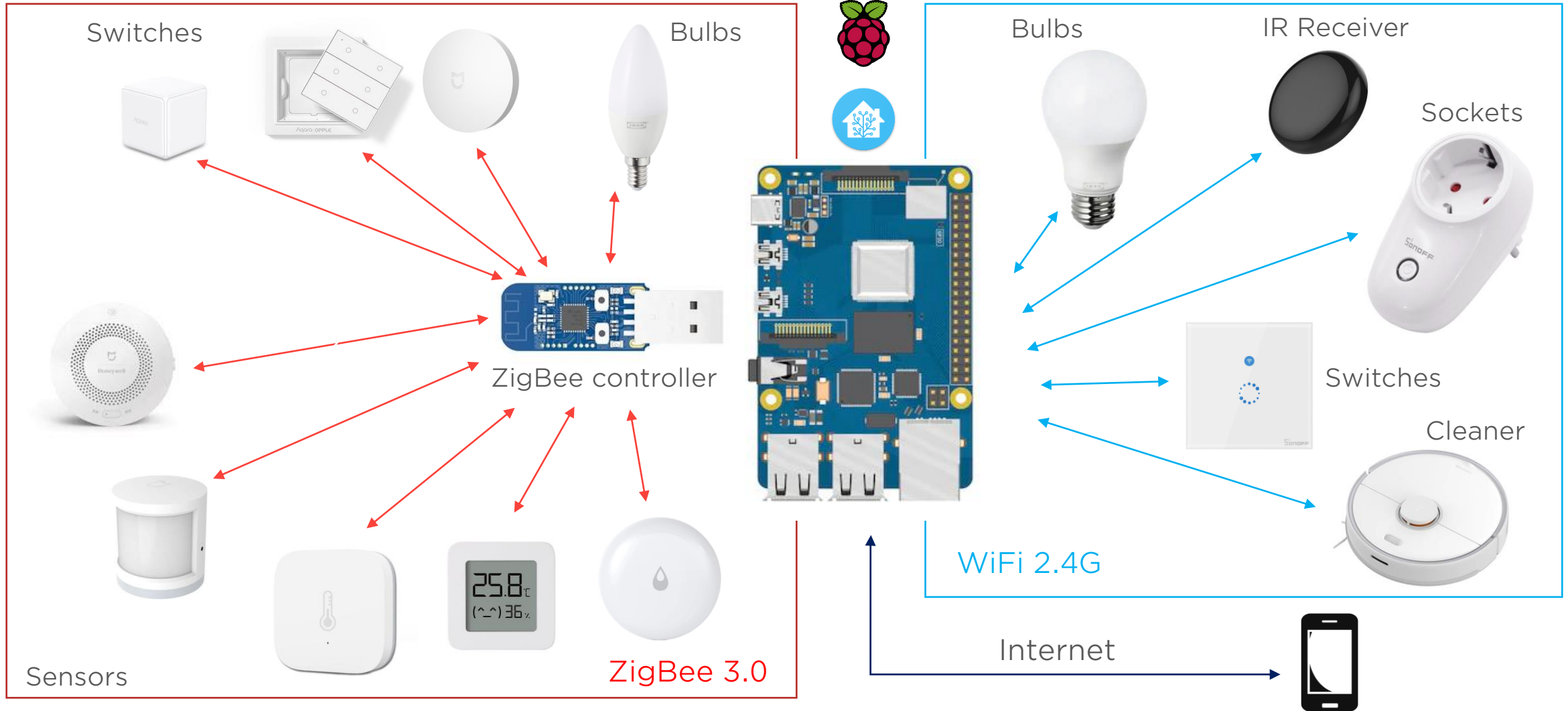


An aerial photograph of a large car lot, showing rows of cars in various colors (red, white, blue, black). The left side of the image is overlaid with a semi-transparent red shape. The text 'ACADEMY' is written in a large, white, sans-serif font, with 'POWERED BY ADASTRA' in a smaller font below it.

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**IoT in action**





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**IoT future**

- Collect data
- Move data
- Analyze data

More and more outsourced  
data and processes...



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**Q&A**

Thank you