

Génie logiciel pour la conception d'un Système d'Information

CSC4521

**Voie d'Approfondissement
Intégration et Déploiement de Systèmes d'Information
(VAP DSI)**

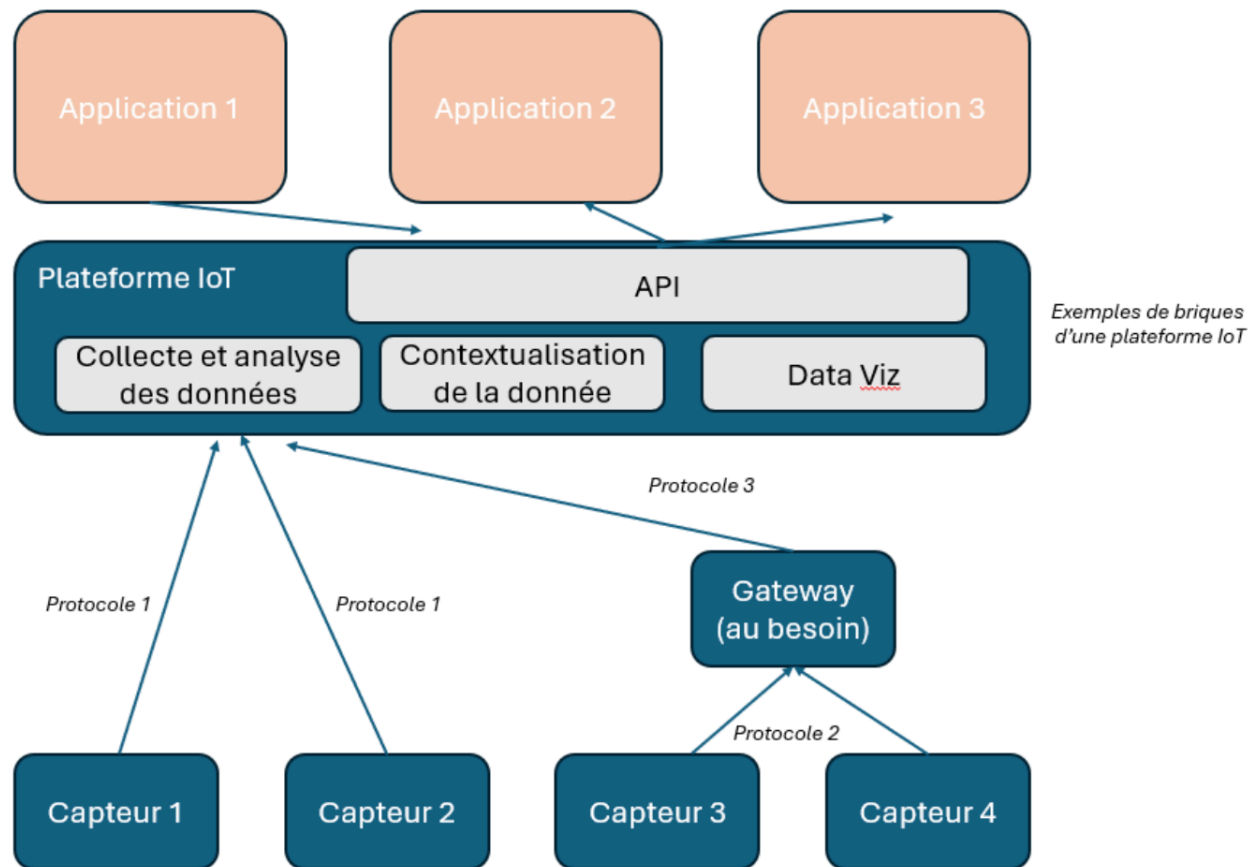
IoT Platforms

<http://jpaulgibson.synology.me/~jpaulgibson/TSP/Teaching/CSC4521/>

[.../CSC4521/CSC4521-IOT-Platforms.pdf](#)

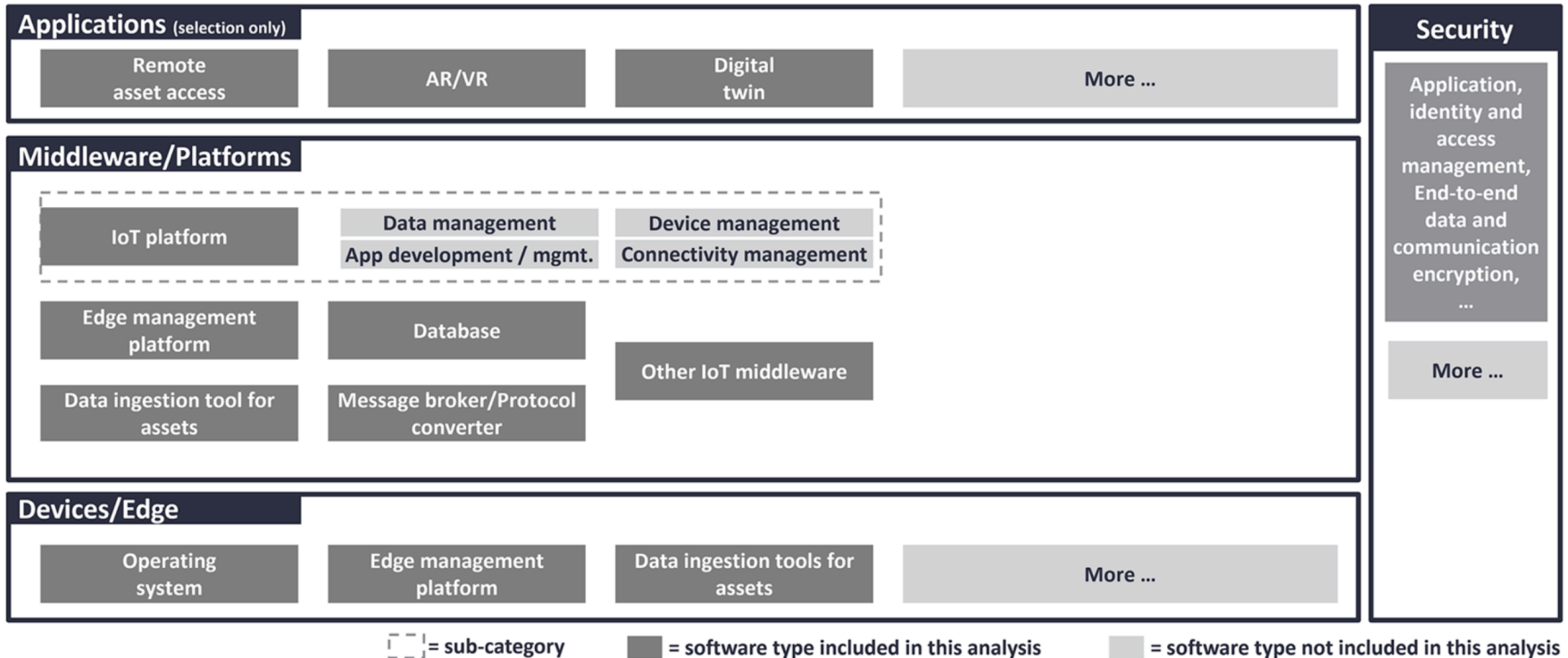
Wavestone Projets - IoT generic functional architecture

How to move to a physical architecture for deployment?
How to choose the physical platform?



The IoT software stack

The IoT Software Stack (simplified view)

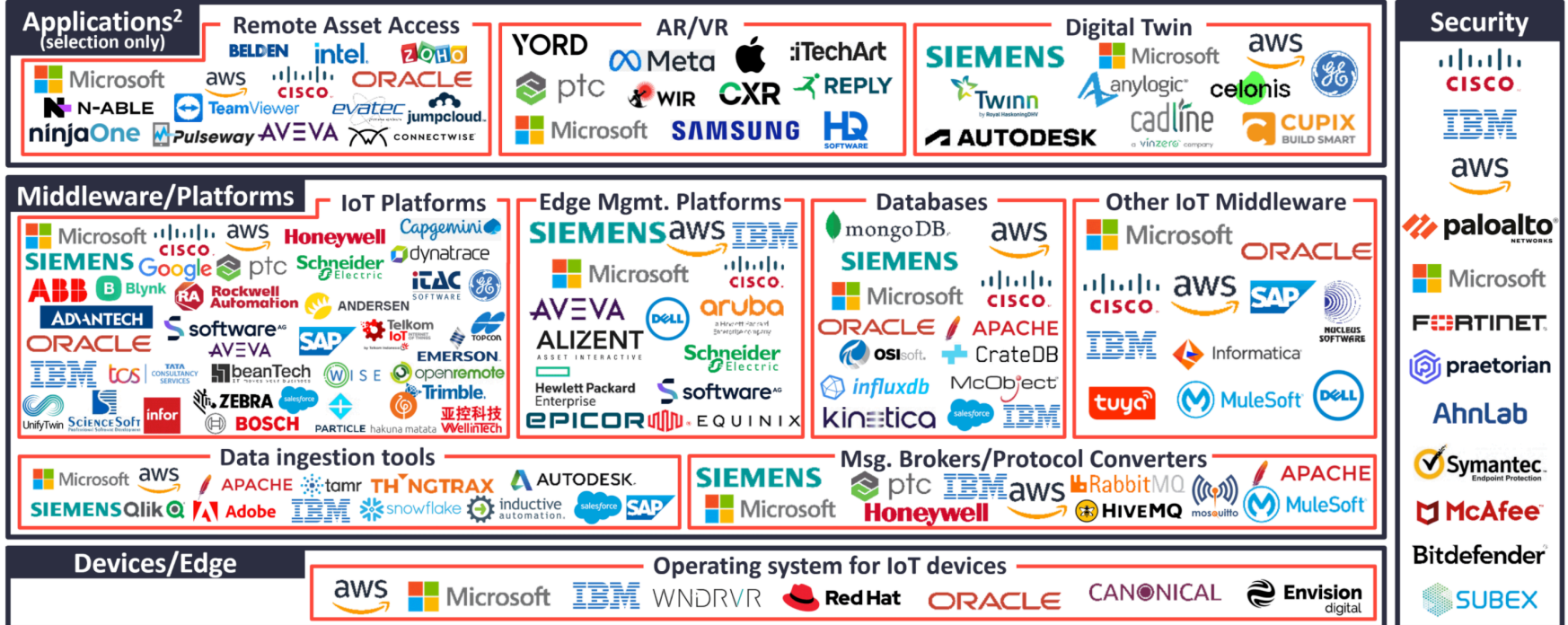


Source: IoT Analytics Research 2023. We welcome republishing of images but ask for source citation with a link to the original post or company website.

<https://iot-analytics.com/leading-iot-software-companies/>

The Leading IoT Software Companies 2023

Based on feedback from IoT adopters¹

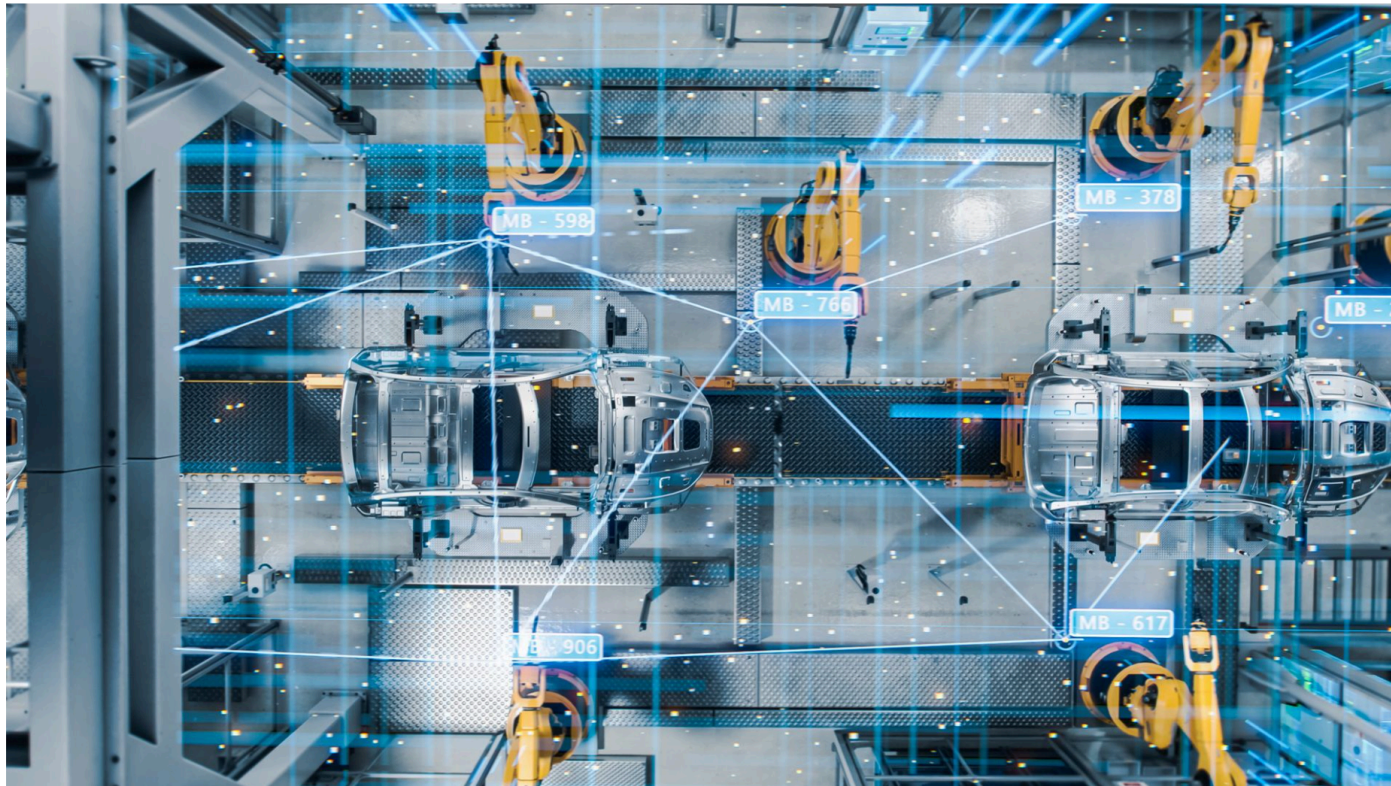


Notes: 1. The logos shown here present a non-exhaustive list of companies that were highlighted by respondents of an extensive global IoT adopter survey of 100 organizations, conducted in October 2022; 2. Only 3 selected IoT applications shown - there are many more.
Source: IoT Analytics Research 2023 – IoT Software Adoption Report 2023. We welcome republishing of images but ask for source citation with a link to the original post or company website.

<https://iot-analytics.com/leading-iot-software-companies/>

Many guides (more or less useful) on-line

Internet of Things (IoT) Buyer's Guide



https://www.softwareag.com/en_corporate/resources/iot/guide/internet-of-things-iot-buyers-guide.html

What is in this IoT Buyer's Guide?

This buyer's guide to **IoT** was created to help you find the **best IoT platform** to deliver the outcomes you want. The marketplace itself is very active! There are a lot of competitors, so it's important to have a framework to compare them all by.

This guide is divided into six sections:

1. What buyers looking for an IoT platform typically want.
2. The competitor landscape: The four categories that vendors typically fall into.
3. Use cases and the five core capabilities that all IoT projects have in common.
4. The four critical phases of an IoT project that help with competitor benchmarking.
5. Answering the question: Build or buy? And calculating total cost of ownership.
6. Conclusion, including a look at how organizational factors play a role in your IoT project success.

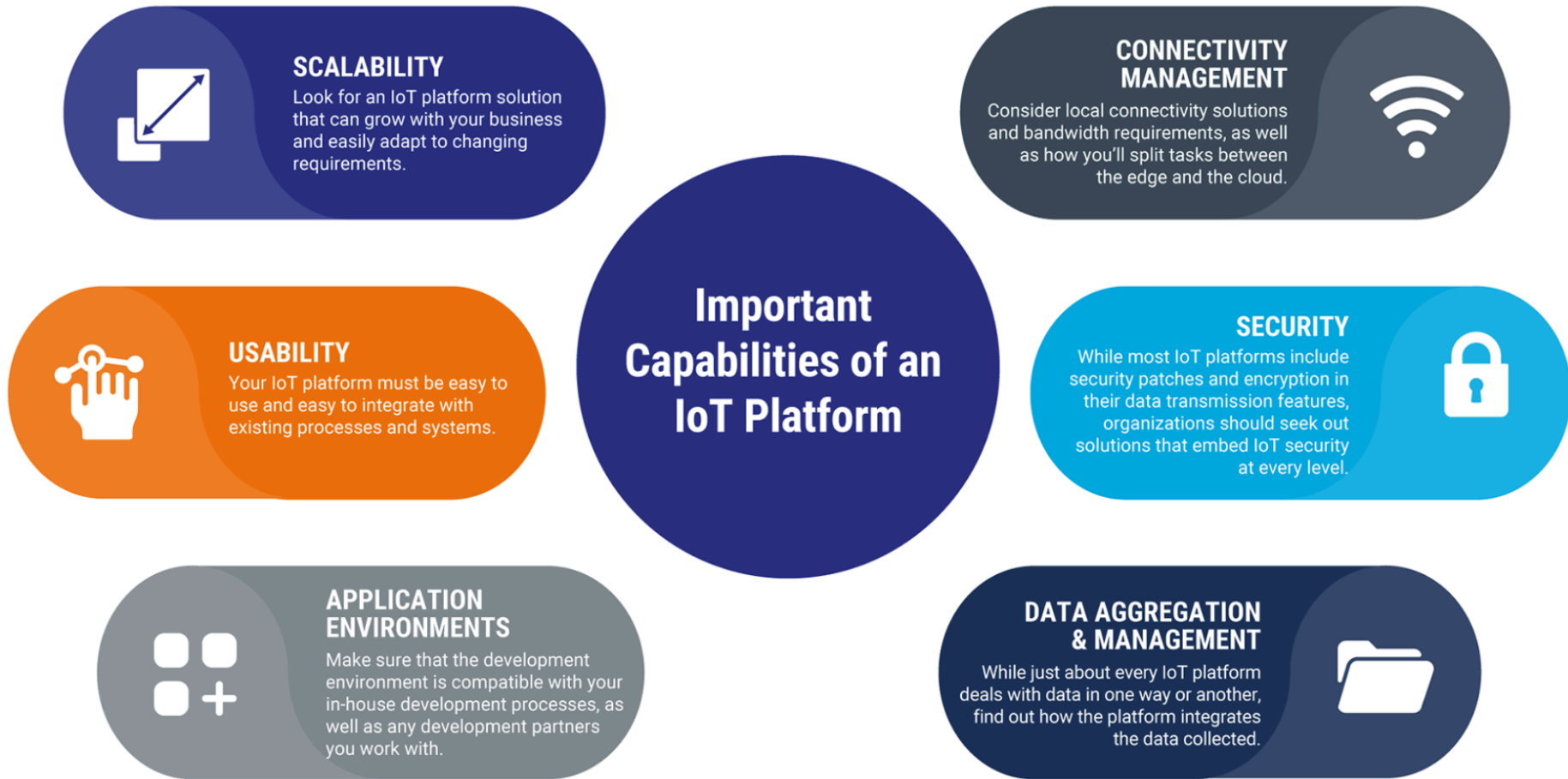


APRIL 24, 2020 | INSIGHTS | IOT

THINGS TO CONSIDER WHEN SELECTING AN IOT PLATFORM

<https://www.3pillarglobal.com/insights/things-to-consider-when-selecting-an-iot-platform>

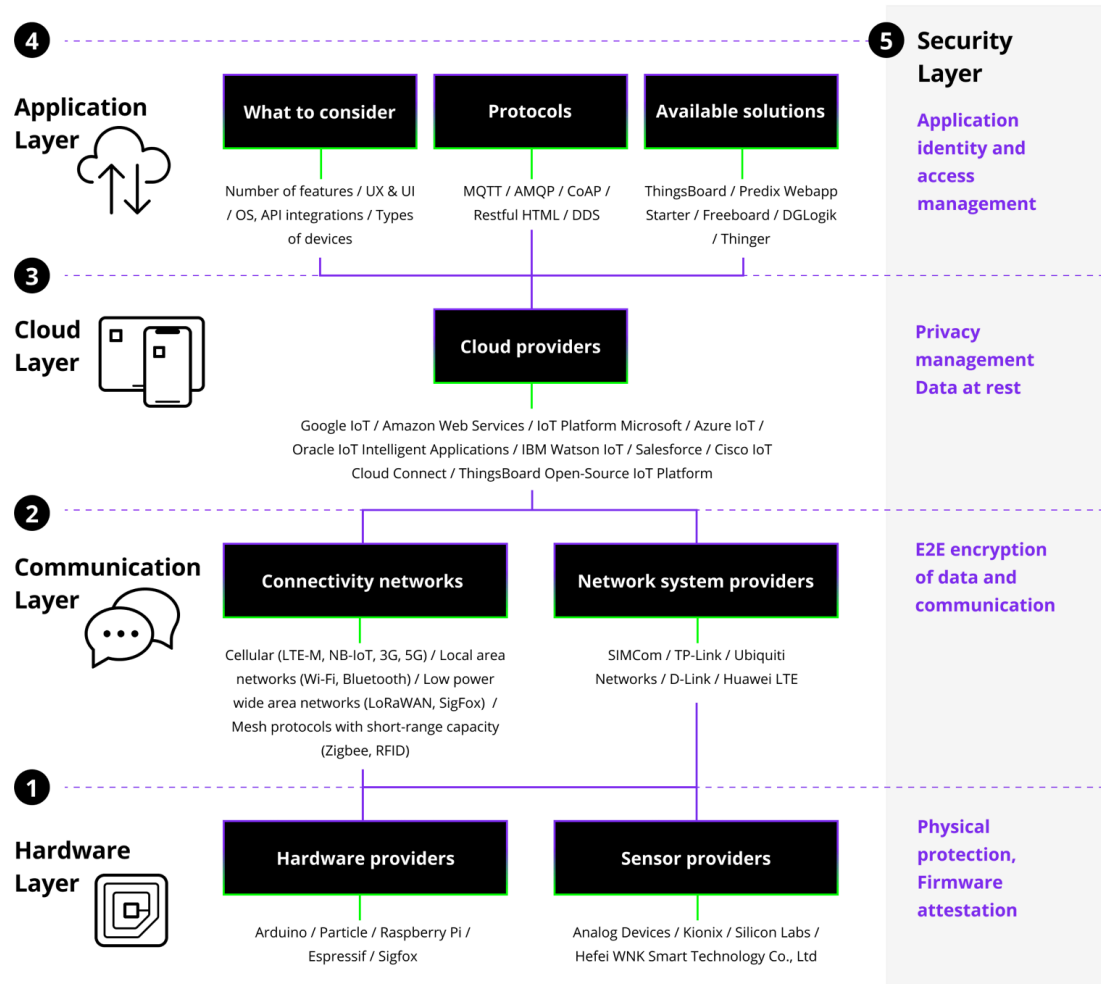
What Are the Important Capabilities of an IoT Platform?



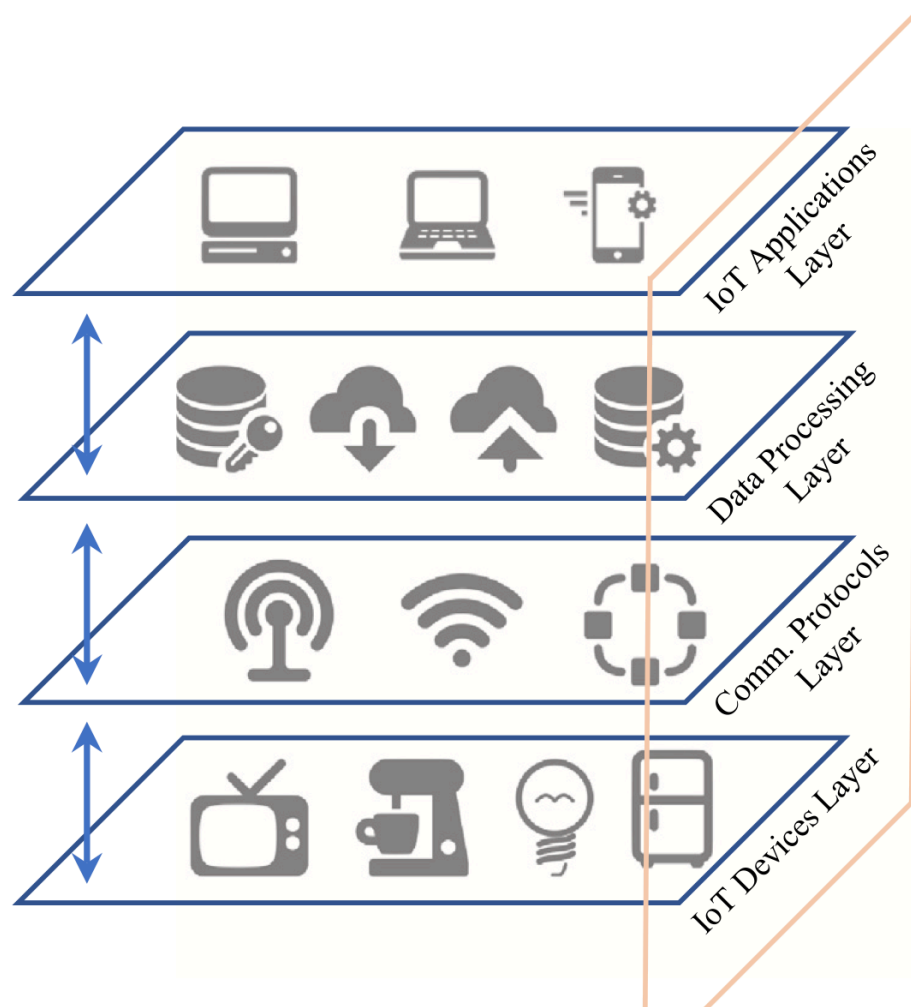
<https://www.3pillarglobal.com/insights/things-to-consider-when-selecting-an-iot-platform/>

The Cost of IoT: Ready-to-use vs. Custom IoT Solutions

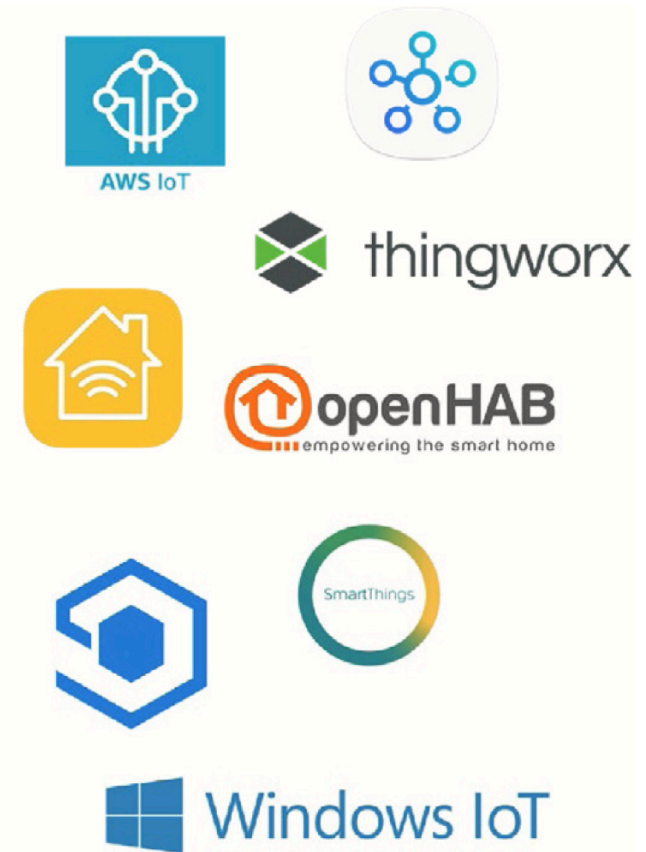
Layers of an IoT solution



<https://euristiq.com/cost-of-iot/>



Example Platforms



<https://www.sciencedirect.com/science/article/pii/S1389128621001444>

Babun, Leonardo, et al. "A survey on IoT platforms: Communication, security, and privacy perspectives." *Computer Networks* 192 (2021): 108040.

IoT Platform overview				
Platform	Payment model	Open/Close sourced	Devices	Applications
openHAB [28]	Freeware	Open	1500+	310+ extensions
SmartThings [29]	Purchase devices, premium services	Open	390+	1 official; 500+ extensions
HomeKit [30]	Purchase devices, developer access	Closed	280+	1 official; 300+ extensions
Windows IoT [31]	Commercial agreements	Open	100+	1 official; 200+ extensions
FarmBeats [32]	Not open to public	Closed	100+	1 official
AWS IoT [33]	Subscription per device	Open	800+	28 official partners
ThingWorx [34]	Pay for IoT data	Open	1200+	4 official
Watson IoT [35]	Pay for IoT data	Closed	600+	1 official

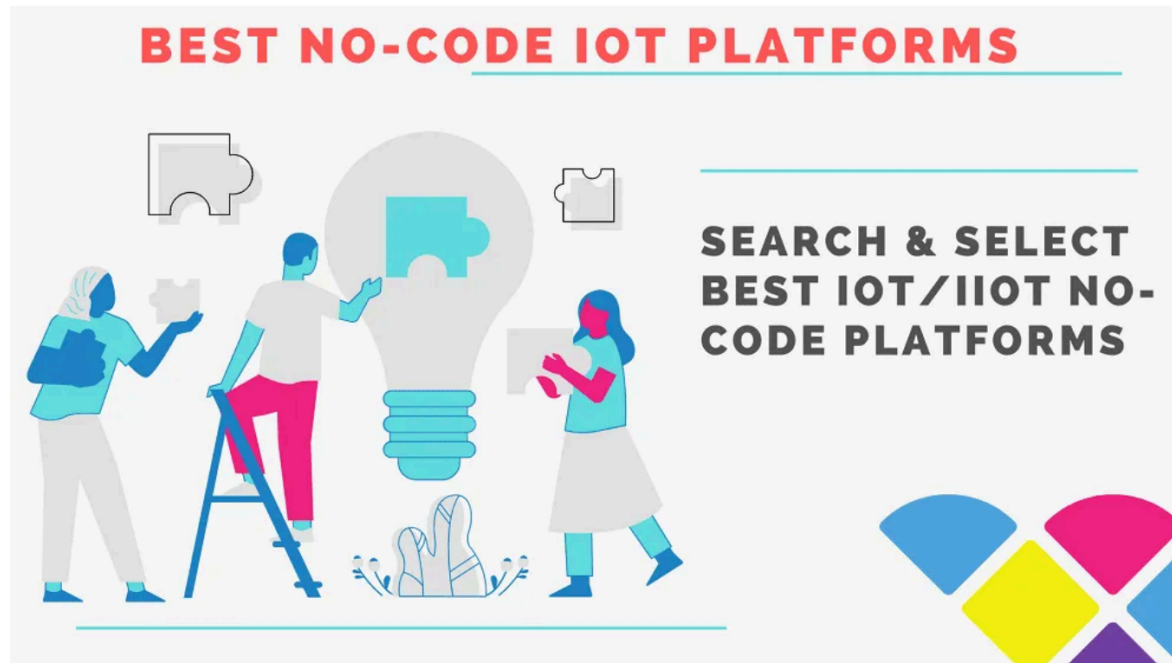
<https://www.sciencedirect.com/science/article/pii/S1389128621001444>

10 Best No-Code IoT Platforms in the Market



CodeResist · Follow

14 min read · Dec 26, 2023



<https://coderesist.medium.com/10-best-no-code-iot-platforms-in-the-market-0023c8356aa9>

Do some research and prepare some suggestions for choice of platform for your Wavestone project. What criteria will you use to make a decision?