

# COMMON UNITY = Community

The power of technology to nurture innovation and benefit the greater good. Brought to you by HPE and Tech Data, Common Unity is packed with solutions to help your community stay ahead.



ANY DEVICE



ANYBODY



ANYWHERE



ANY BUSINESS



ANY NETWORK



ANYTIME

## IoT (INTERNET OF THINGS)

### INVENTORY MONITORING

Welcome! We created the following roadmap to help you apply IoT to your inventory monitoring needs and derive greater value from data.

## INVENTORY MONITORING

In our roadmap, you'll find detailed steps to get your IoT project going, a proof of concept checklist, an IoT architecture diagram, and access to a resource library stocked with IoT success stories.

Plus, check out our short video for first-hand insights on opportunities in inventory monitoring.

INVENTORY MONITORING

# INTRODUCTION

From the warehouse to the highway to the store, IoT influences the journey a product travels to make its way into a consumer's hands. Use our roadmap for direction on how to drive better business outcomes through IoT.

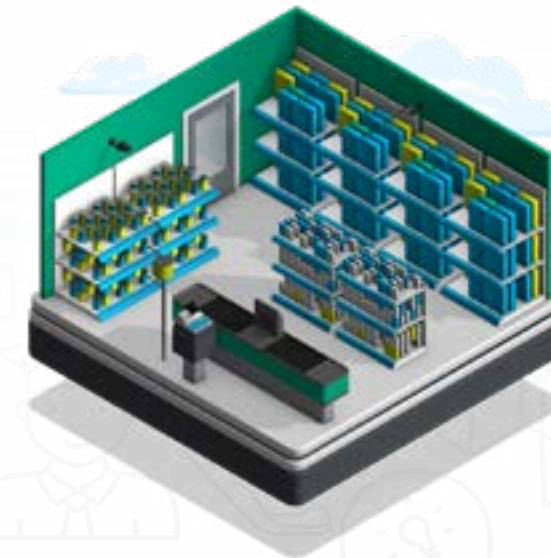
## SUPPLY CHAIN FULFILLMENT



## TRANSPORTATION MANAGEMENT



## SMART RETAIL

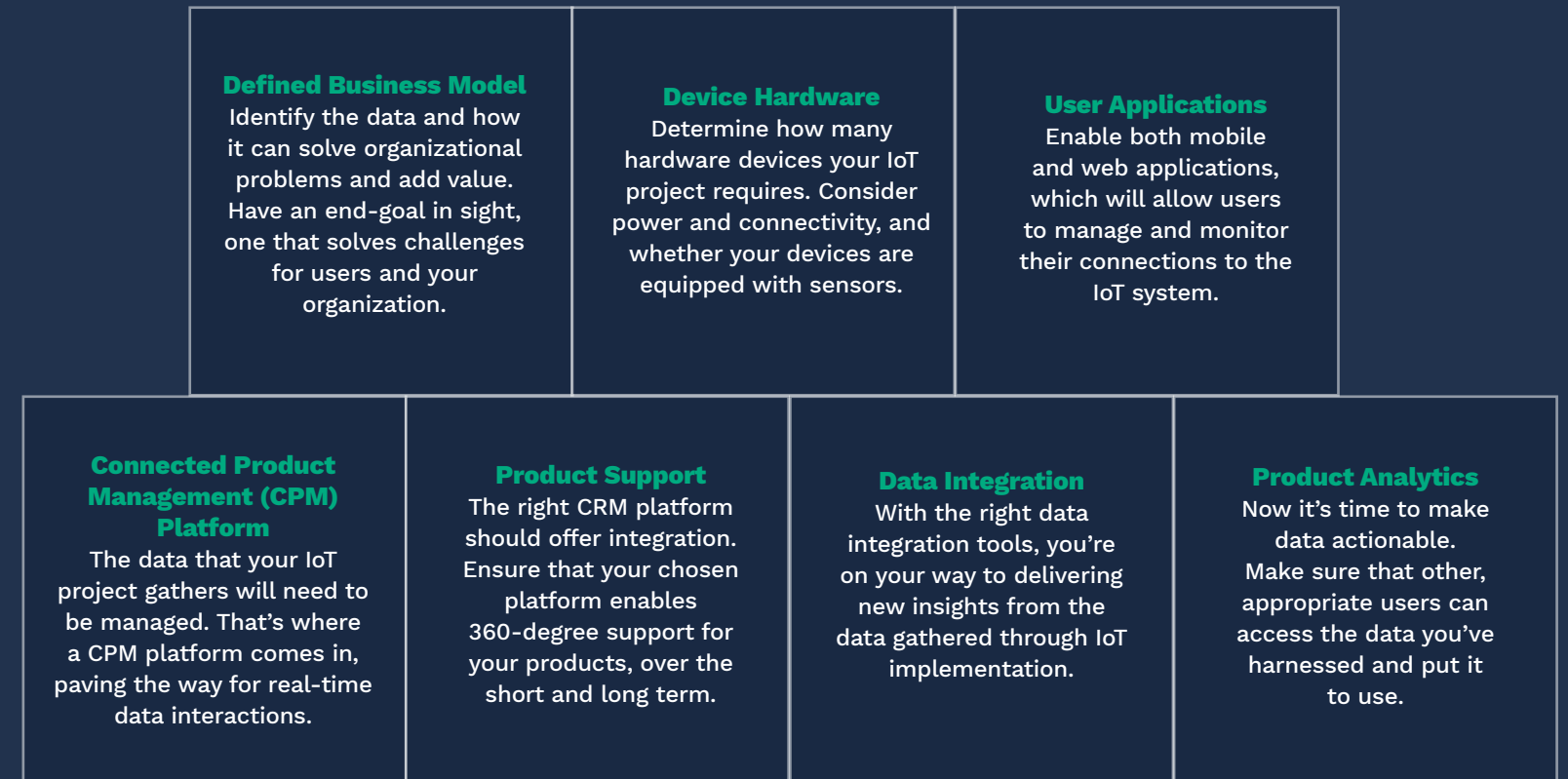


## THE 7 BUILDING BLOCKS OF IOT

### 4 STEPS TO GET STARTED

# 01 KNOW THE BASICS

To kick off your project, get familiar with the seven building blocks of IoT. Chances are, you already have many in your wheelhouse. While you may not need all seven for a successful IoT project, it's helpful to familiarize yourself with the composition of most IoT applications.



4 STEPS TO GET STARTED

## 02 IDENTIFY OPPORTUNITIES FOR ENTRY

Next, ascertain your best point of entry into putting IoT to work for your business. How? By identifying your minimum viable product (MVP). Defined as a product with enough features to satisfy early customers and provide feedback for future development, your MVP is your low-hanging fruit. It allows you to do your simplest work first.

### YOUR MVP SHOULD MEET THE FOLLOWING CRITERIA:



Finally, your MVP should align with a simple data point that you want your IoT project to address. If it does, and if it meets the criteria, you're ready to move to your next step.

TO HELP YOU OVERCOME POTENTIAL CHALLENGES, ANSWER THESE 3 QUESTIONS.

4 STEPS TO GET STARTED

# 03 SPOT AND TACKLE POTENTIAL BARRIERS

Even if your budget permits, you don't want to implement the most complex IoT solution. Doing so can potentially set you off course and throw up barriers to entry. Remember the mantra of "start small."



Do you have the right resources and skill sets in-house?

Can you assign & train a specific point person to own & track assets?

Are you trying to go it alone?

He or she doesn't have to be a data scientist, but must be able to manage the data – from maintenance to administration to communicating it to the right people.

If you answered yes, it's time to look for a partner you can trust. The right IoT solutions provider can help you identify and activate IoT applications that match your business goals.

4 STEPS TO GET STARTED

# 04 CREATE A TIMELINE AND BUDGET

Now it's time to plot the right resources for your IoT project. Use our checklist to craft a basic IoT implementation timeline and budget.



# PROOF OF CONCEPT CHECKLIST

As with any project, you want to set your business up for success. That's where a proof of concept (PoC) becomes an indispensable tool. Why? Because a PoC tests your idea and demonstrates feasibility. Follow these PoC milestones and actions to validate your IoT project.

**IDEATE**

Think about the possibilities and concept at a high level.

**INNOVATE**

Share your vision and articulate what you want to achieve.

**BUILD**

Experiment to validate a use case, the things and the data at hand.

**TEST**

Perform tests with specialized controllers, sensors or cloud services.

**CERTIFY**

Deploy a rigorously tested IoT solution on-site.



# BUILDING AN IOT SYSTEM: A FOUR-STAGE ARCHITECTURE

In tandem with your PoC, you'll also want to invest in the four-stage architecture, or framework, that underpins most IoT solutions. Each stage is integrated and progresses to the next. The result: real-time data that will inform business decisions and enhance outcomes.



**STAGE 1**  
**Wireless Sensors/  
Actuators**  
Comprised of all networked things. Data is sensed and things are controlled.

**STAGE 2**  
**Access/Control**  
Includes data aggregation systems as well as digitized and pre-processed data conversion.

**STAGE 3**  
**Edge IT**  
Real-time analytics are conducted; data is computed and pre-processed.

**STAGE 4**  
**Cloud/Data Center**  
Data is analyzed, managed and archived.

Operational Technology (OT)

Information Technology (IT)

## **SUCCESS WITH IoT STARTS NOW**

Are you ready to put IoT to work and start gleaning insights that will propel your business forward? If you answered yes, then it's time for a partnership – one with an IoT solutions provider who can meet your needs.

At HPE, we match you with IoT experts who are aligned to your business goals. So, whether you're applying IoT to your supply chain needs or simply want to know more about smart shelves and RFID technology, we have the right resources for you.

[CONTACT US](#)

**We look forward to partnering with you to successfully put IoT to work for your business!**

# OTHER IoT APPLICATIONS

We also offer support across other IoT applications. Watch brief clips from our team of IoT specialists to learn about rich opportunities. Be sure to visit the Common Unity resource library, where you'll find case studies, white papers, tools and assets – all curated to guide you on your IoT journey.

Function  
01



Function  
02



Function  
04



## SUCCESS WITH IoT STARTS NOW!

**HPE IoT: Roadmap Sources, Inventory Monitoring**

1. <https://www.mckinsey.com/featured-insights/internet-of-things/our-insights/the-future-of-connectivity-enabling-the-internet-of-things>
2. <https://www.scnsoft.com/blog/iot-predictive-maintenance-guide>
3. <https://www.inc.com/comcast/what-can-the-iot-do-for-you.html>
4. <https://www.iotforall.com/iot-explained-how-does-an-iot-system-actually-work/>
5. <https://internetofthingsagenda.techtarget.com/blog/IoT-Agenda/Three-ways-IoT-is-transforming-inventory-management>
6. <https://www.digitalistmag.com/digital-supply-networks/2018/05/17/retail-iot-streamline-inventory-supply-chains-06166681>