Hewlett Packard Enterprise | Powered By Tech Data

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.

IoT (INTERNET OF THINGS)

REMOTE MONITORING

Welcome! We produced the following roadmap to provide you with in-depth knowledge of how IoT can enhance remote monitoring applications in your business.

GET STARTED

COMMON UNITY = Community

REMOTE 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 the predictive maintenance landscape.

CONTENTS

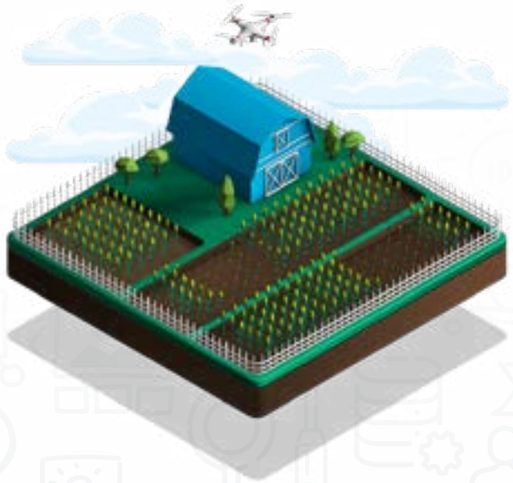
REMOTE MONITORING

INTRODUCTION

Whether it's by using analytics to drive down energy spend, employing data to increase crop yields or improving access to quality healthcare, IoT solutions allow you to do more. With IoT, you can monitor devices, equipment and machines from any location, at any time.

EQUIPMENT MONITORING

SMART FARMING



REMOTE PATIENT MONITORING

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.

THE 7 BUILDING BLOCKS OF IOT

Defined Business Model
Identify the data and how it can solve organizational problems and add value. Have an end-goal in sight, one that solves challenges for users and your organization.

Device Hardware
Determine how many hardware devices your IoT project requires. Consider power and connectivity, and whether your devices are equipped with sensors.

User Applications
Enable both mobile and web applications, which will allow users to manage and monitor their connections to the IoT system.

Connected Product Management (CPM) Platform
The data that your IoT project gathers will need to be managed. That's where a CPM platform comes in, paving the way for real-time data interactions.

Product Support
The right CRM platform should offer integration. Ensure that your chosen platform enables 360-degree support for your products, over the short and long term.

Data Integration
With the right data integration tools, you're on your way to delivering new insights from the data gathered through IoT implementation.

Product Analytics
Now it's time to make data actionable. Make sure that other, appropriate users can access the data you've harnessed and put it to use.

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:

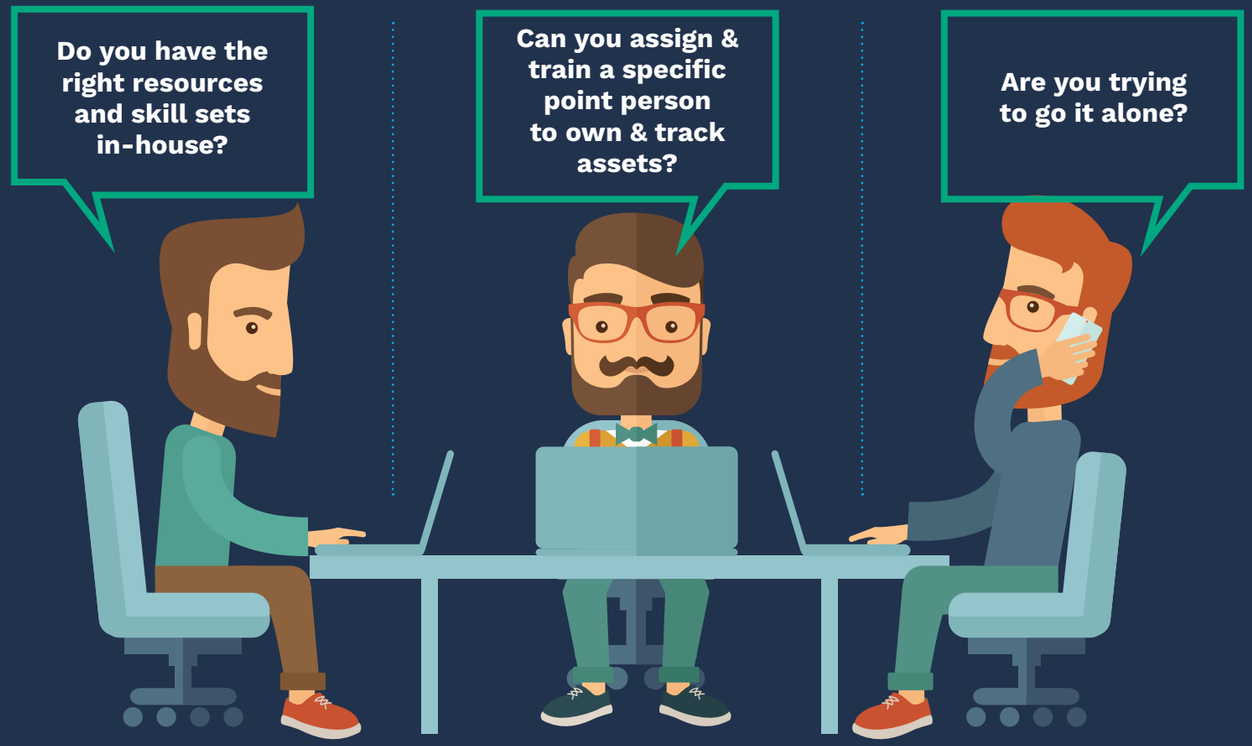
Finally, your MVP should align with a simple data point that you want your IoT project to address. If it does, and if it meets the criteria, you're ready to move to your next step.

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."

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



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.

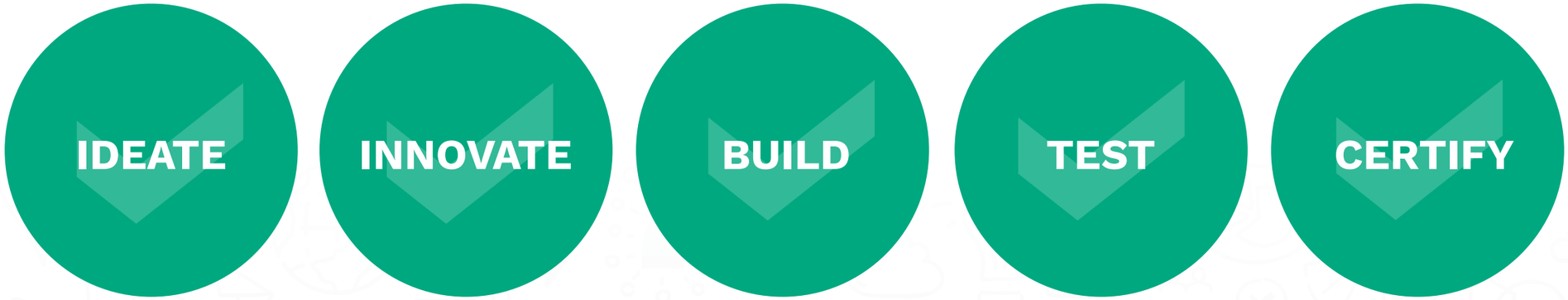
4 STEPS TO GET STARTED

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.



Think about the possibilities and concept at a high level.

Share your vision and articulate what you want to achieve.

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

Perform tests with specialized controllers, sensors or cloud services.

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 use technology to schedule equipment maintenance, track soil composition and irrigation schedules, or remotely monitor patient health, we have the right resources for you.

CONTACT US

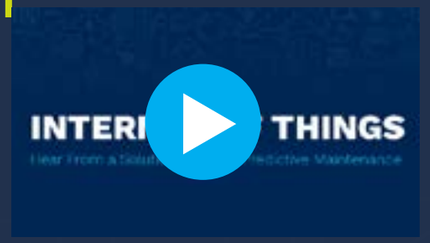
We look forward to partnering with you to successfully put IoT to work for your business!

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.

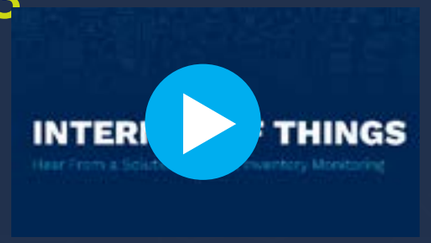
RESOURCE LIBRARY

Function 01



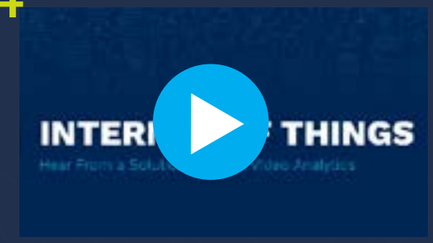
Predictive Maintenance
Get Roadmap

Function 03



Inventory Monitoring
Get Roadmap

Function 04



Video Analytics
Get Roadmap

SUCCESS WITH IoT STARTS NOW!

HPE IoT: Roadmap Sources, Remote 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://www.iotforall.com/iot-tackling-data-access-remote-patient-monitoring/