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)
VIDEO ANALYTICS

Welcome! We designed the following roadmap to help you apply IoT to video analytics opportunities.

ROADMAP 4:
VIDEO ANALYTICS

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 the benefits of IoT for video analytics.

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VIDEO ANALYTICS

INTRODUCTION

Across a variety of landscapes – from public parks and office buildings to roadways, intersections and airports – data captured from video footage provides critical insights that yield better, stronger outcomes.

VIDEO SURVEILLANCE
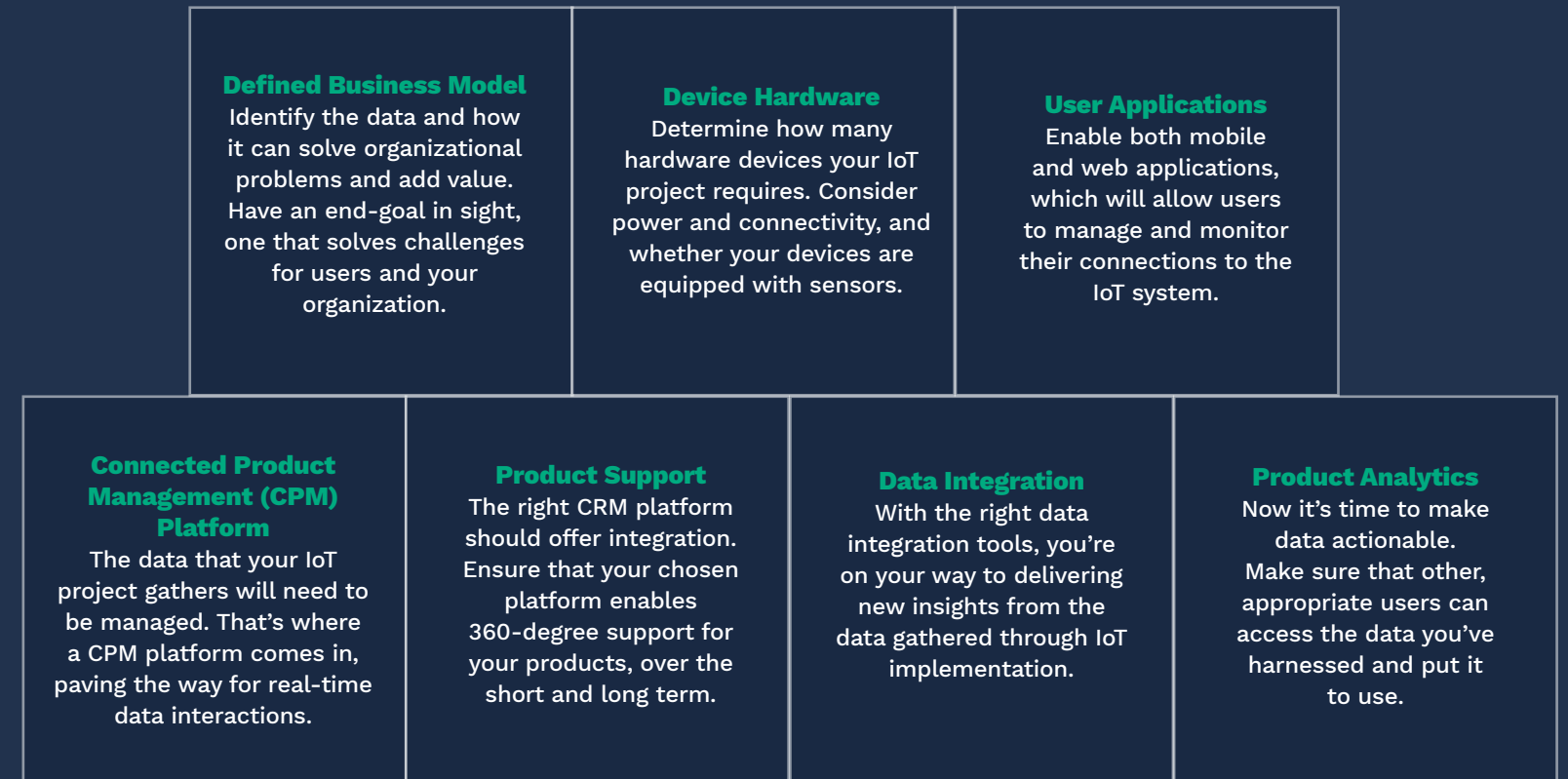
SMART CITIES

SMART AIRPORTS

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.

VIDEO ANALYTICS ROADMAP

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:

You can visualize the data you want to make actionable

You have the assets to obtain the data

You can access the data through APIs

You know who owns the data

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.

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.

VIDEO ANALYTICS ROADMAP

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.

1

DEVELOP A TASK

Log everything that needs to be completed in order for your IoT project to become a reality.

2

ASSIGN A DUE DATE

Example: Task: Determine how many hardware devices we need. Due: October 1.

3

PICK OWNERS FOR TASKS

Rather than trying to do it all yourself, take the time to identify the right person for each aspect of the job. It will pay dividends in the end.

4

KNOW YOUR CORE COSTS

These are must haves. Compare them to your total budget. If your core costs are under your total budget, you're ready to proceed.

5

MONITOR YOUR PROGRESS

Consider holding weekly project meetings to ensure that your team stays within the scope of your budget and on track for IoT success!

7

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

INNOVATE

BUILD

TEST

CERTIFY

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.

VIDEO ANALYTICS ROADMAP

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)

VIDEO ANALYTICS ROADMAP

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 conduct video surveillance, analyze data across public and urban spaces, or monitor airport terminal safety, 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!

VIDEO ANALYTICS ROADMAP

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
03

SUCCESS WITH IoT STARTS NOW!

HPE IoT: Roadmap Sources, Video Analytics
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.mckinsey.com/industries/high-tech/our-insights/video-meets-the-internet-of-things