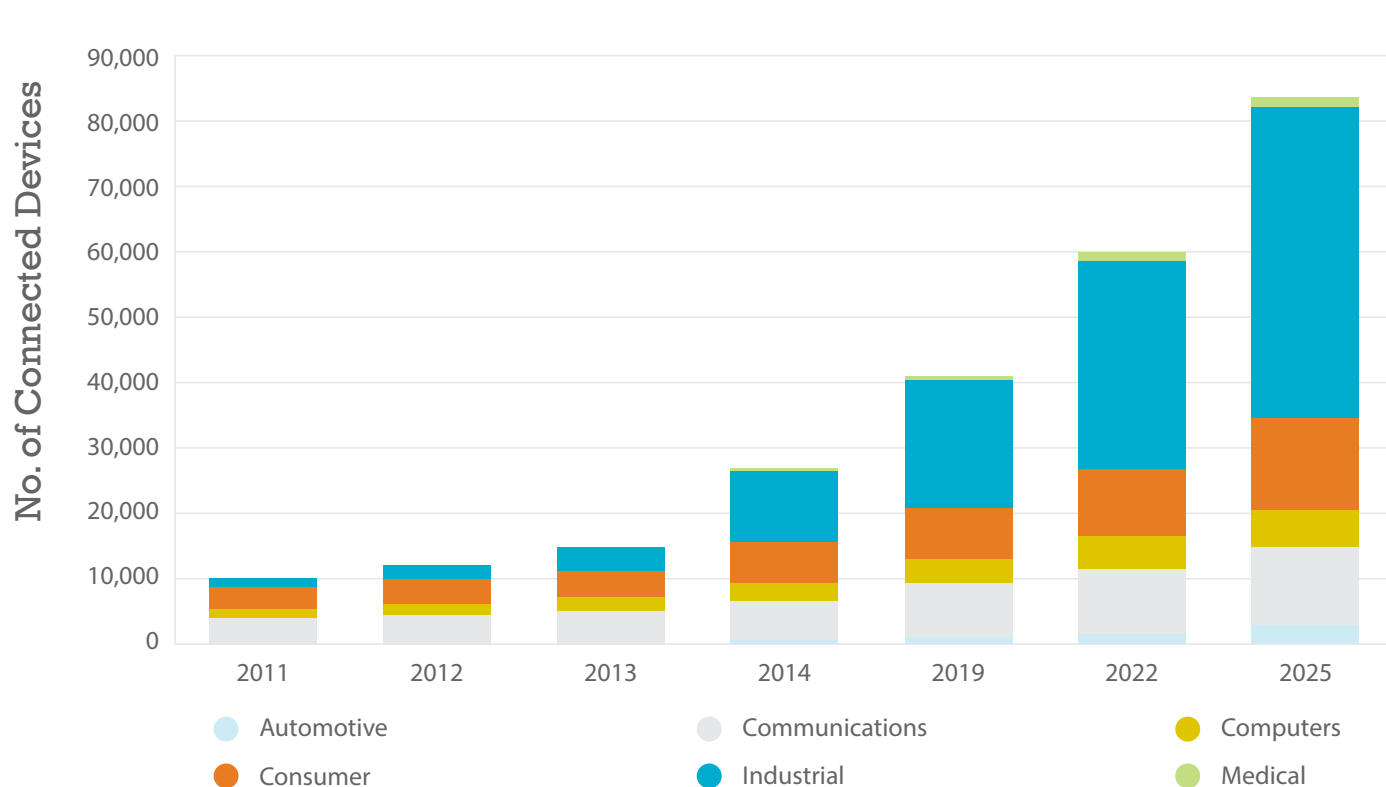


## IOT EDGE SERVER REQUIRED FOR

# Successful System Integration

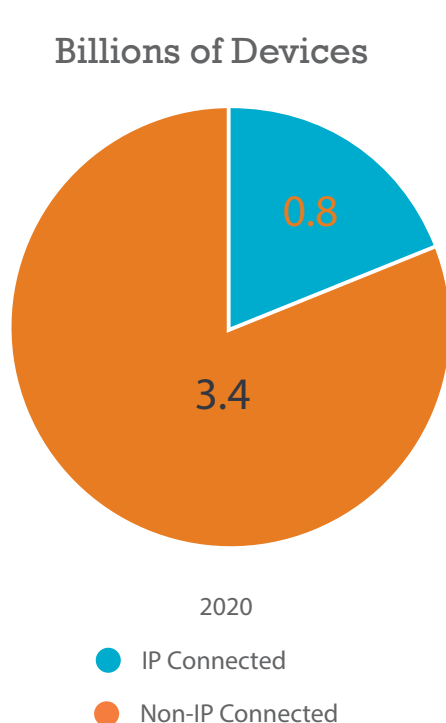
1

**OPPORTUNITIES WITHIN THE INDUSTRIAL SECTOR OF IOT ARE IN HYPER GROWTH <sup>1</sup>**



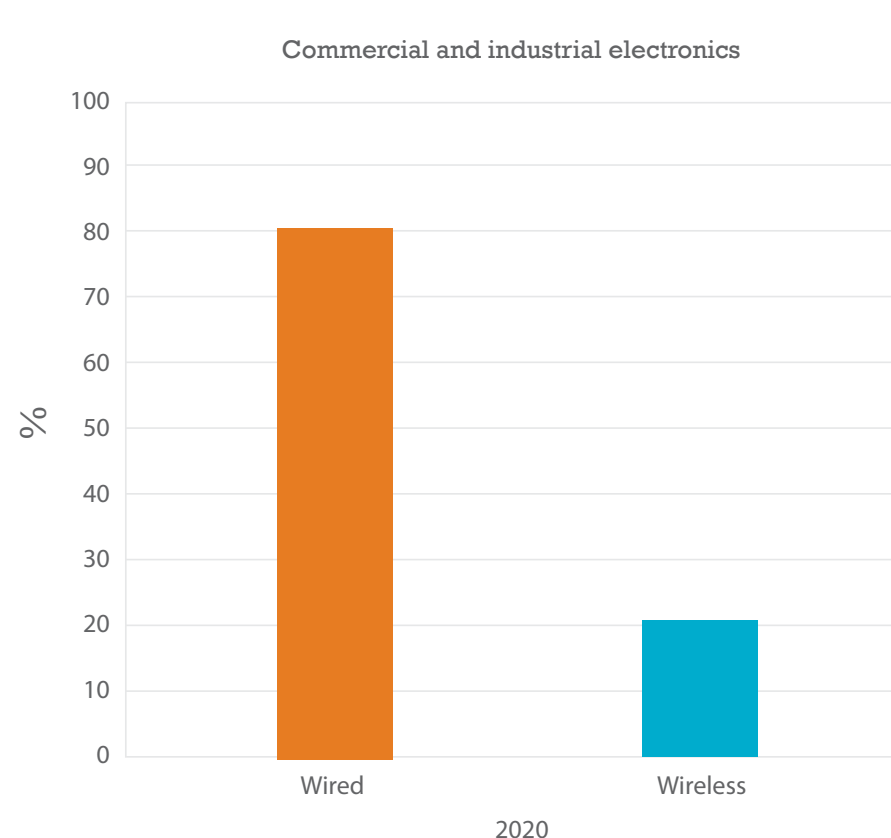
2

**BUT NOT ALL DEVICES ARE IP BASED <sup>2</sup>**

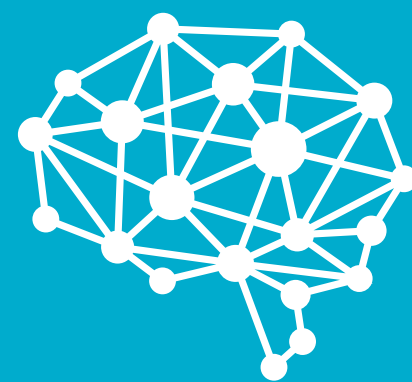


3

**FIELD PROTOCOLS BASED ON WIRED CONNECTIVITY CONTINUE TO BE MAINSTREAM, BUT WILL NEED TO INTEGRATE WITH EMERGING WIRELESS USE CASES <sup>3</sup>**



**REAL TIME DECISION MAKING AND APPLICATION RESILIENCY REQUIRES INTELLIGENCE AT THE EDGE OF THE NETWORK**

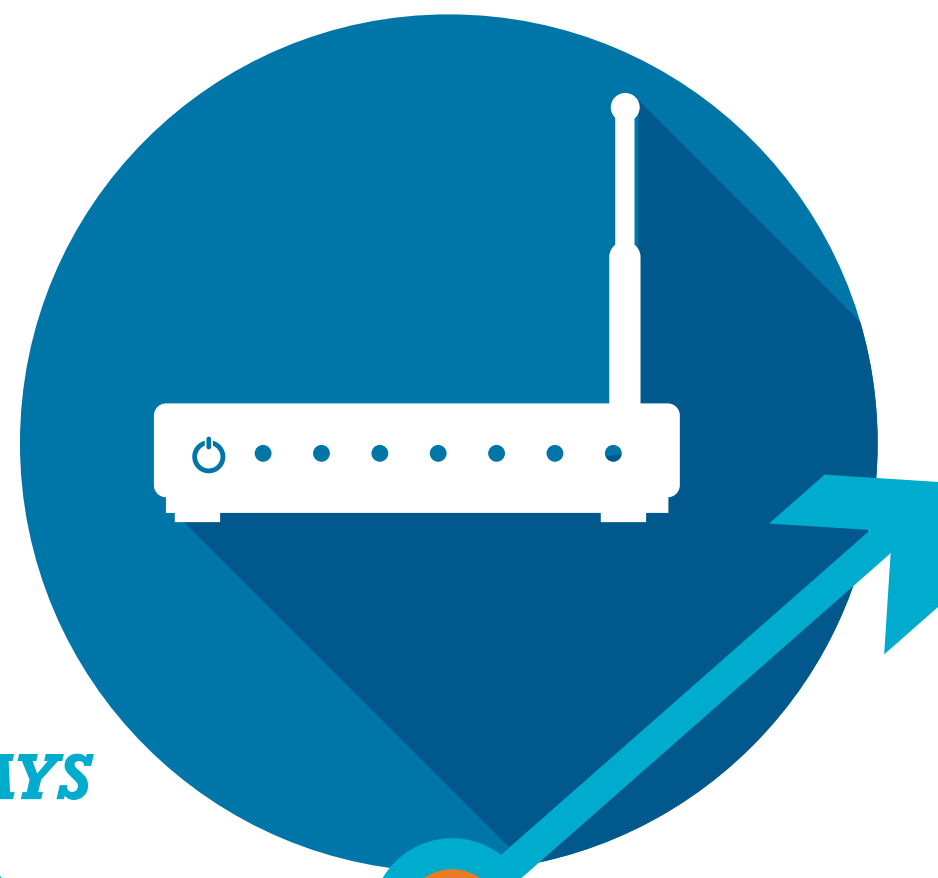


4

**THEREFORE, ALMOST ALL INDUSTRIAL IOT SOLUTIONS REQUIRE GATEWAYS<sup>4</sup>**

**90%** OF IOT PROJECTS UTILIZE A GATEWAY DEVICE <sup>5</sup>

**HOWEVER, LARGE SCALE, OR COMPLEX IOT INTEGRATION CALLS FOR EDGE SERVERS WITH CAPABILITIES BEYOND THOSE OF SIMPLE GATEWAYS**



## TOP 5 CONSIDERATIONS FOR CHOOSING AN INDUSTRIAL EDGE SERVER:

1

### FIELD PROTOCOL COMPATIBLE

MUST NOT ONLY MONITOR DATA FROM SENSORS AND DEVICES, BUT ALSO PROVIDE CONTROL AND AUTOMATION FUNCTIONALITY TO ESTABLISHED OPEN PROTOCOL INDUSTRIAL NETWORKS.

2

### SECURE OPEN IT AND OT INTERFACES

MUST HAVE SECURE CLIENT INTERFACE TO CONNECT WITH INDUSTRIAL MANAGEMENT AND SCADA SYSTEMS ALONGSIDE CLOUD SERVICES AND AI/ANALYTICS APPLICATIONS.

3

### SEAMLESS DATA ACCESS AND FLOW

MUST UTILIZE EFFICIENT MESSAGING ARCHITECTURE THAT CAN PROVIDE UNIFORM CAPABILITIES HORIZONTALLY AND VERTICALLY TO FORM A DISTRIBUTED, RESILIENT NETWORK.

4

### END-TO-END

MUST SUPPORT END-TO-END SYSTEM INTEGRATION WITH OUT-OF-THE-BOX LOW- OR NO-CODE PROGRAMMING/SEQUENCING TOOLS AND WEB-BASED USER INTERFACE TO DESIGN, CREATE AND DEPLOY LARGE IOT NETWORKS AND SYSTEMS.

5

### EXTENSIBLE

MUST BE FUTURE PROOF WITH OPEN, FREELY AVAILABLE APIS FOR CREATING CUSTOM DRIVERS TO COMMUNICATE WITH ANY DEVICE, AND CUSTOM APPLICATIONS THAT RUN LOCALLY OR REMOTELY.

FOR MORE INFORMATION VISIT  
[dialog-semiconductor.com/products/industrial-edge-computing](https://dialog-semiconductor.com/products/industrial-edge-computing)



<sup>1</sup><https://www.avnet.com/wps/portal/us/resources/technical-articles/article/iot/ensuring-robust-connectivity-in-the-industrial-internet-of-things/>

<sup>2</sup>2017 IHS data - Industrial IoT Segment

<sup>3</sup>IHS Markit, "Connectivity Technologies"

<sup>4</sup>Moor Insights, "The Future of IoT Gateways: Civilizing the Wild West of the IoT"

<sup>5</sup>Gartner, "Exploring the Rules of IoT Gateways in Five Use Cases"