

WHAT'S DRIVING NEXT GENERATION PKI?

September 2018

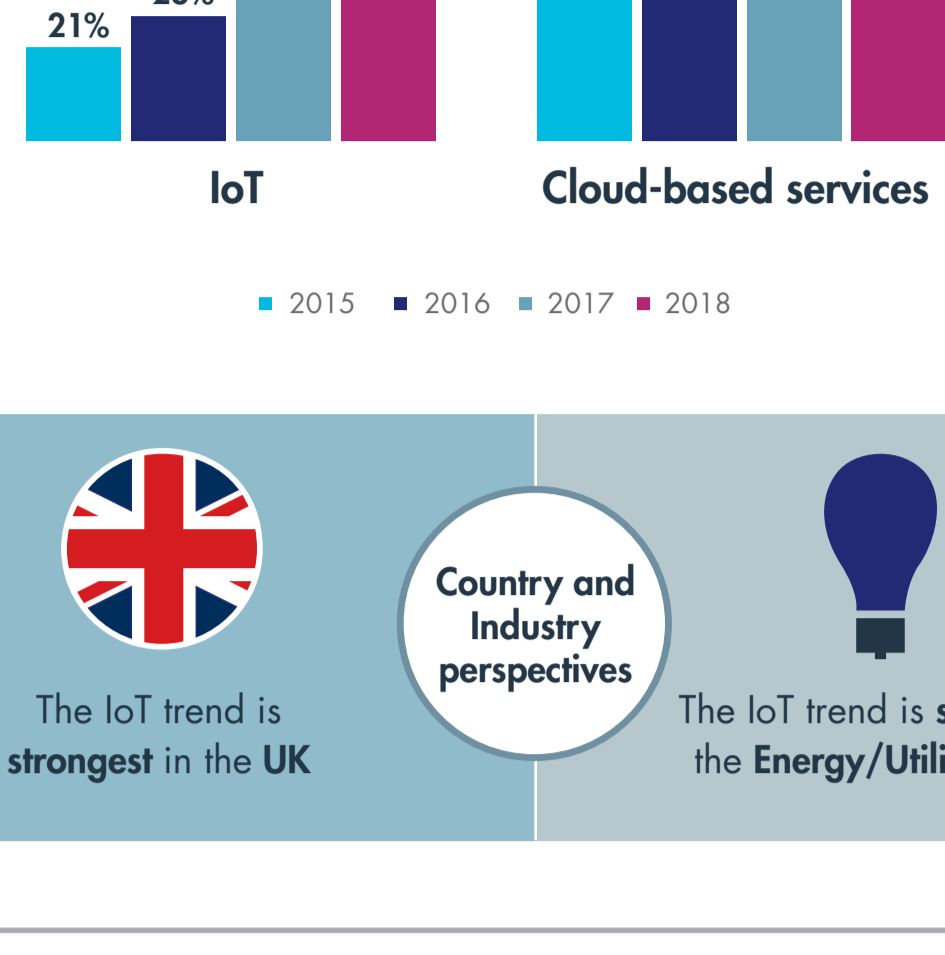
A RECENT SURVEY FOUND THAT THE INTERNET OF THINGS (IoT) IS THE FASTEST GROWING FORCE AFFECTING PKI PLANNING AND EVOLUTION

Survey results from 1,688 respondents in 12 countries

The Rise of the IoT



The IoT is the fastest growing trend driving the deployment of applications that use PKI



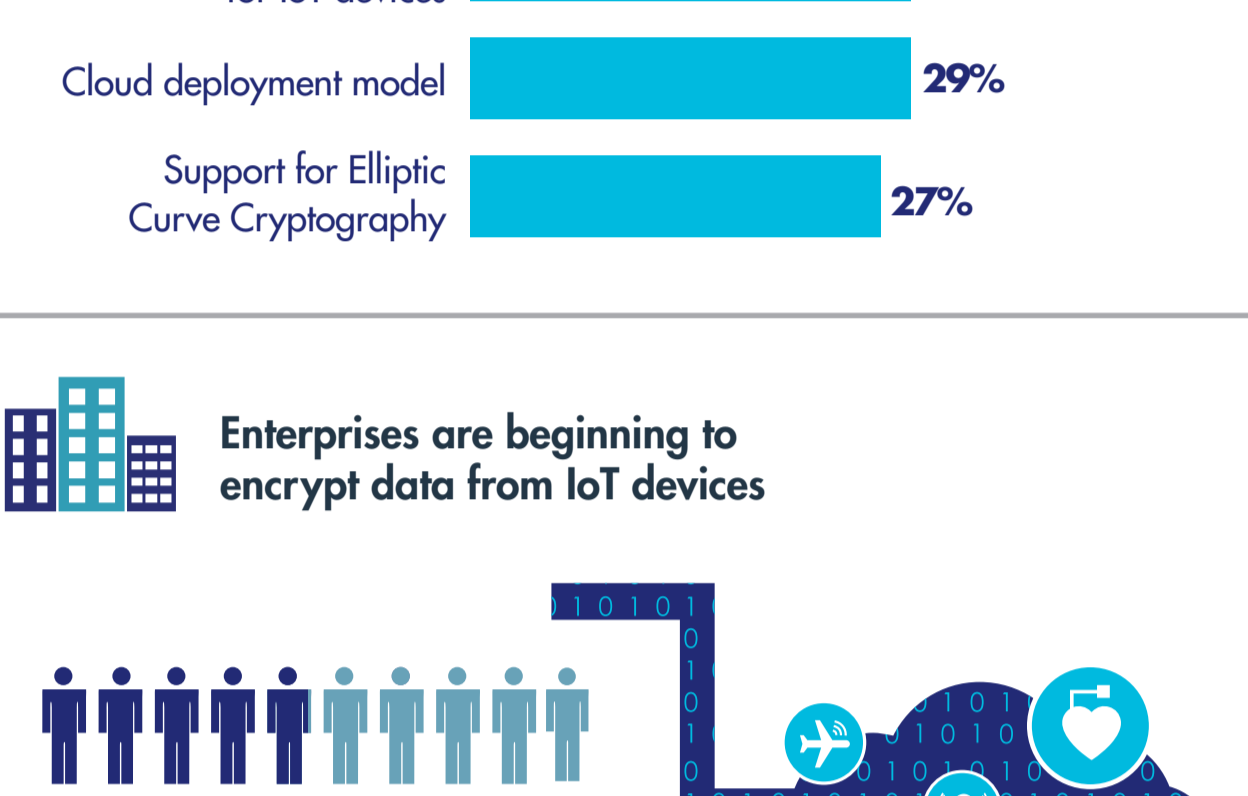
Country and Industry perspectives
The IoT trend is strongest in the **UK**
The IoT trend is strongest in the **Energy/Utilities** sector



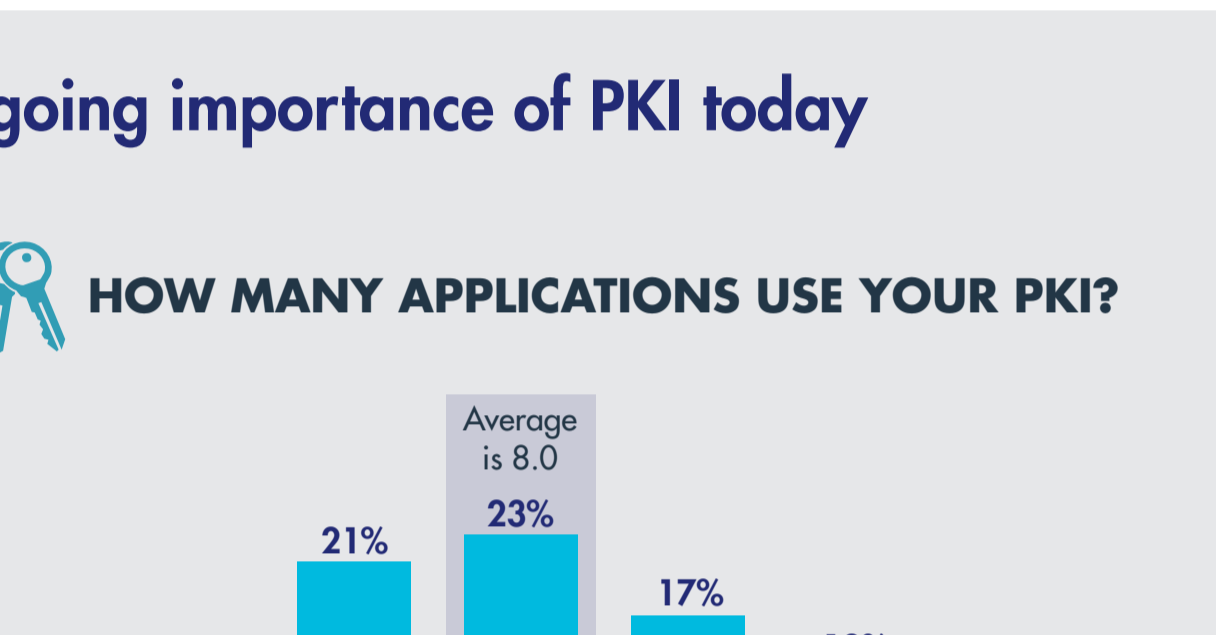
42% of IoT devices in use will use digital certificates for identification/authentication in the next two years.

Country and Industry perspectives
Led by **Germany, the US, and the UK**
Led by **Financial Services, Transportation, and Technology/Software**

The most important PKI capabilities for IoT deployments are:



Enterprises are beginning to encrypt data from IoT devices



Ongoing importance of PKI today

HOW MANY APPLICATIONS USE YOUR PKI?



Country and Industry perspectives
the **US and Germany** use their PKI for the most applications
Entertainment & Media and **Services** use PKI for the most applications

APPLICATIONS THAT MOST COMMONLY USE DIGITAL CERTIFICATES

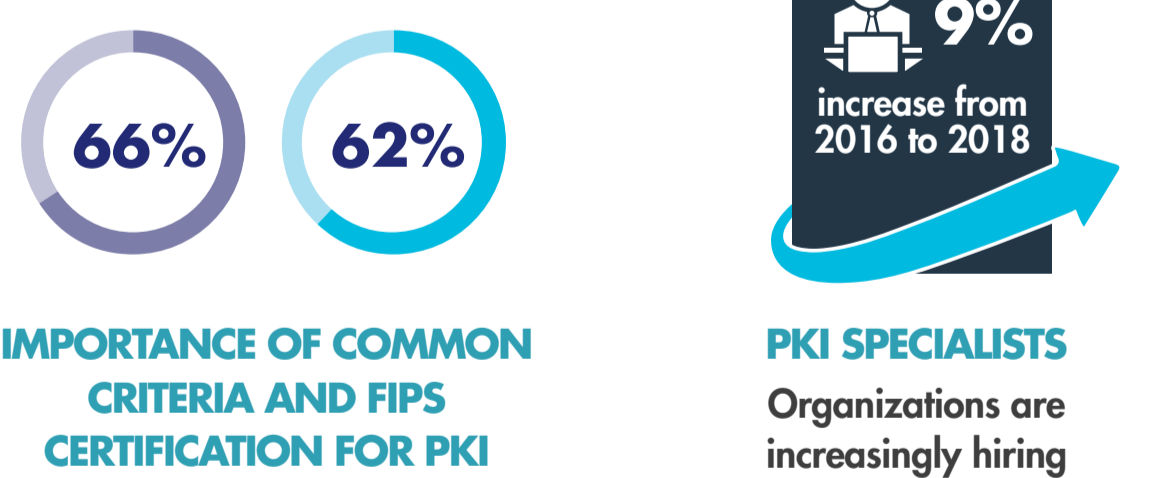


GROWTH IN CERTIFICATES ISSUED



Investment in PKI

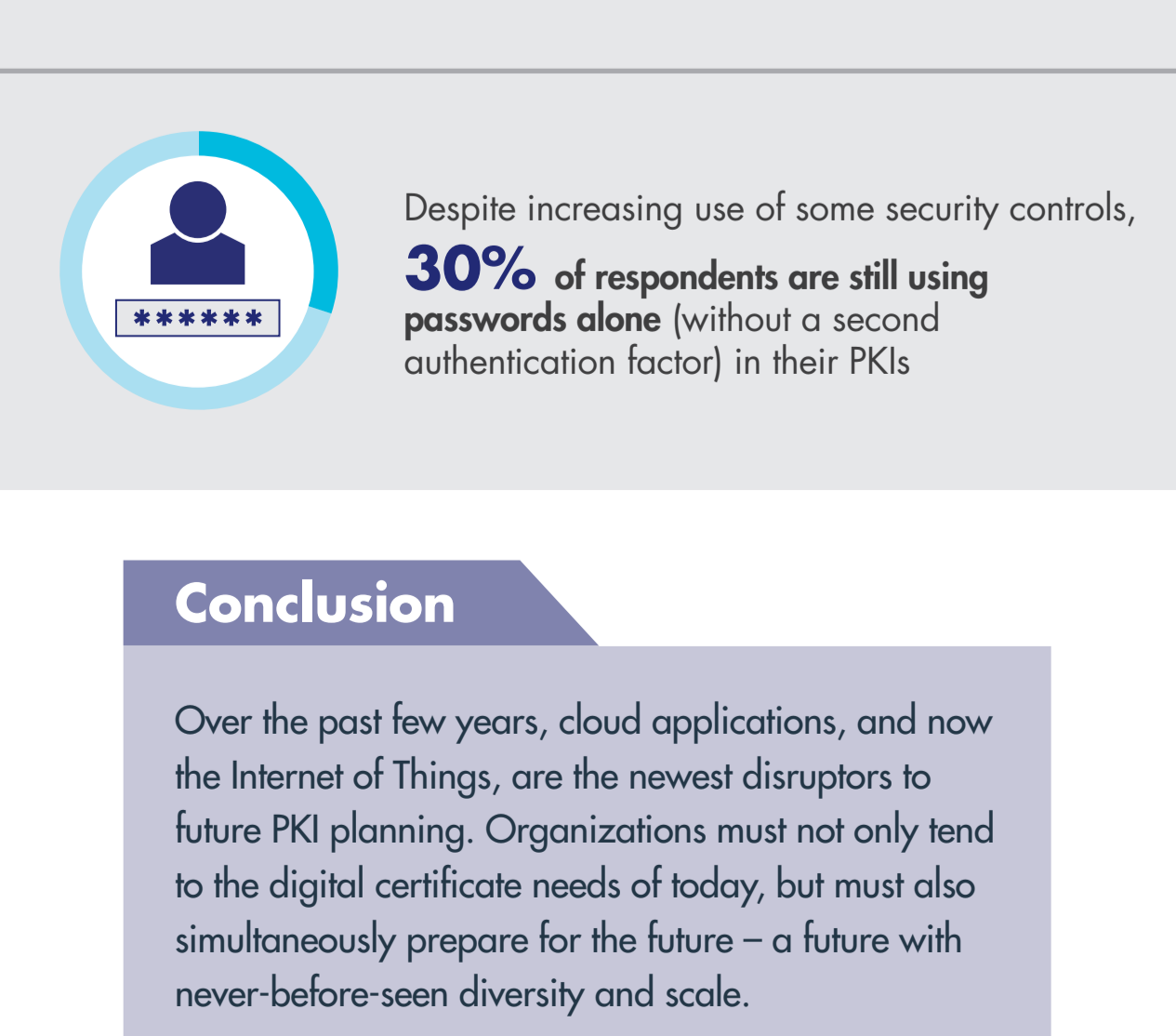
STRENGTHENING OF PKI SECURITY CONTROLS



Industry perspective
68% Financial Services companies are most likely to have PKI specialists on staff
33% Consumer products companies are the least likely

Ongoing PKI challenges

TOP CHALLENGES IN DEPLOYING/MANAGING PKI



Despite increasing use of some security controls, **30%** of respondents are still using passwords alone (without a second authentication factor) in their PKIs

Conclusion

Over the past few years, cloud applications, and now the Internet of Things, are the newest disruptors to future PKI planning. Organizations must not only tend to the digital certificate needs of today, but must also simultaneously prepare for the future – a future with never-before-seen diversity and scale.

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