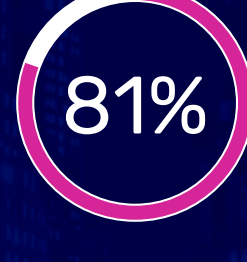
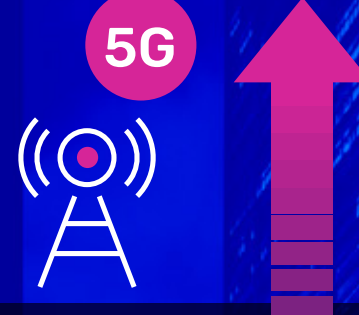


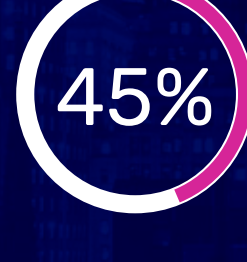
TOWARD A MORE SECURE 5G WORLD

A NEW INDUSTRY SURVEY BY THE BUSINESS PERFORMANCE INNOVATION (BPI) NETWORK AND A10 NETWORKS FINDS THAT MOBILE OPERATORS BELIEVE THE INDUSTRY IS MAKING RAPID PROGRESS TOWARD BUILDING A MORE SECURE 5G WORLD. 5G SECURITY REMAINS A TOP CONCERN. THE NEW STUDY FOLLOWS AN EARLIER SURVEY CONDUCTED A YEAR AGO.

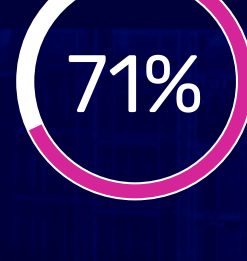
PROGRESS TOWARD 5G COMMERCIALIZATION



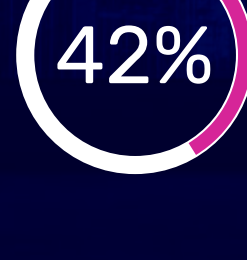
>>> Say industry **progress toward 5G** is either **rapid** or in line with expectations.



>>> Say their companies are **moving rapidly toward commercial deployment**. Up from 26% a year earlier.

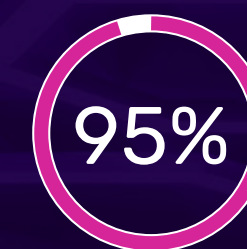
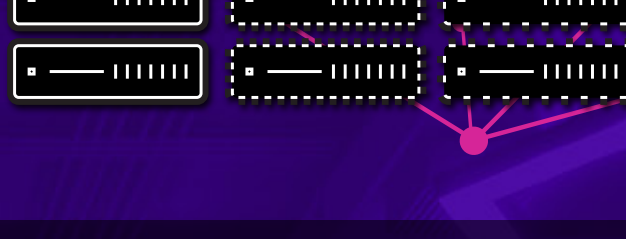


>>> **Will start 5G network build-outs within 18 months**, including one-third by the end of 2020.

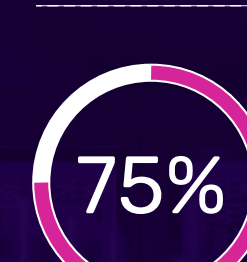


>>> **Are actively planning for standalone 5G deployments**. While current build-outs are for non-standalone 5G.

NETWORK CLOUDIFICATION



>>> Say **virtualizing network functions** is **important** to their 5G plans.

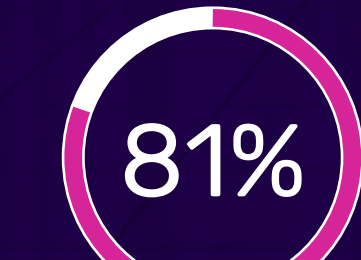


>>> Say they **are well on their way** or making good progress in virtualization.

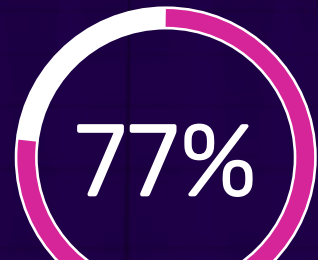
VAST MAJORITY

>>> Say containers will be important to network development, **but only 7% are moving rapidly** toward full-scale adoption.

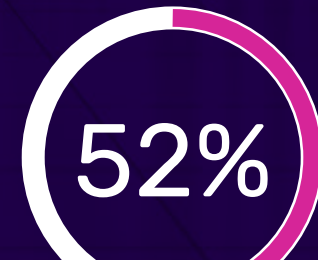
THE TOP BENEFITS OF VIRTUALIZATION AND CONTAINERS



Faster Deployment of Network Services



Scalability

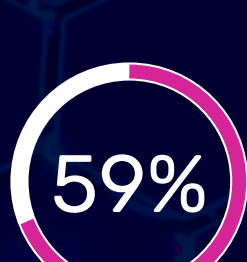


Application Portability

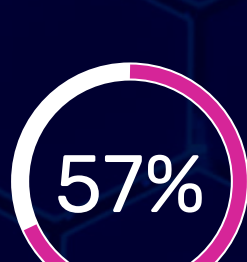
CHALLENGES: THE SECURITY MANDATE



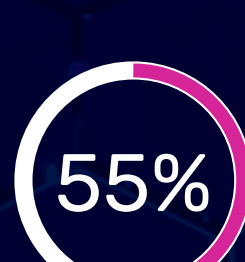
TOP CHALLENGES



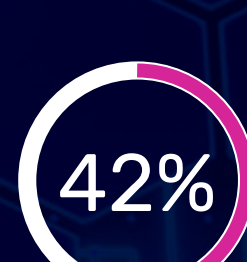
Heavy Cost of Network Build-Outs



Network Security



New Technical Skills & Competencies



Lack of 5G-enabled Devices

99% >>>

Believe security is important to planning for 5G networks

99% >>>

Expect 5G networks will increase security and reliability concerns

93% >>>

Have or may change security investments in light of 5G

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