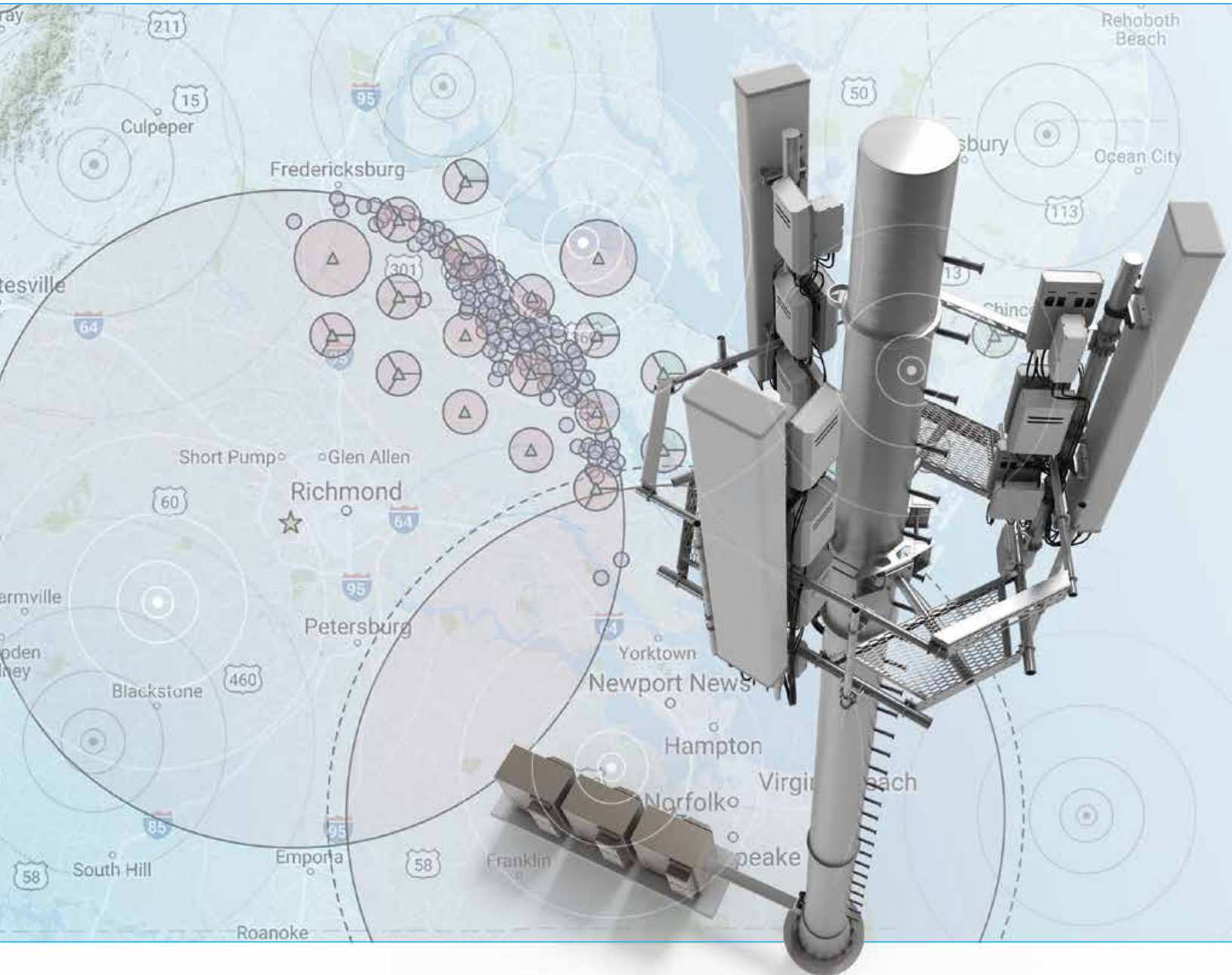




In the clear

Comsearch™ helps wireless carriers access 600-megahertz (MHz) airwaves

As a wireless carrier, you'll soon be able to access and use former TV broadcast airwaves to help you meet the growing demand for data on the go. For the next 3½ years, the Federal Communications Commission (FCC) will be repacking 84 MHz of former TV spectrum, making it available for wireless use.

As part of this repacking, TV stations will move from the 600-megahertz band or go off the air. TVclearSM from Comsearch makes it easy for you to prepare for deployment now—before the repacking is completed. The TVclear solution helps you find and resolve interference issues and comply with FCC rules.

Meeting consumers' spectrum needs

As more people use tablets, smartphones and other mobile devices, they need more bandwidth. The FCC's initiative will pave the way by easing congestion on wireless networks—laying the groundwork for 5G wireless services and applications.

The reallocation process may take until 2020 to complete, as TV stations have 39 months to move off the airwaves. During this transition, you'll have to share the spectrum with TV stations.

DIGITAL MEDIA USAGE EXPLODES

The amount of mobile data traffic in the U.S. rose by 44 percent in 2016

(Source: Cisco VNI Mobile)

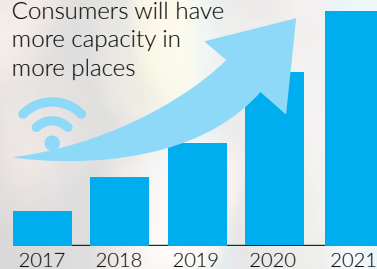
The amount of mobile data usage is expected to grow by about 44 percent each year through 2021

(Source: Global Mobile Data Forecast)

44% GROWTH each year UNTIL 2021

More spectrum means faster and more reliable wireless service

Consumers will have more capacity in more places



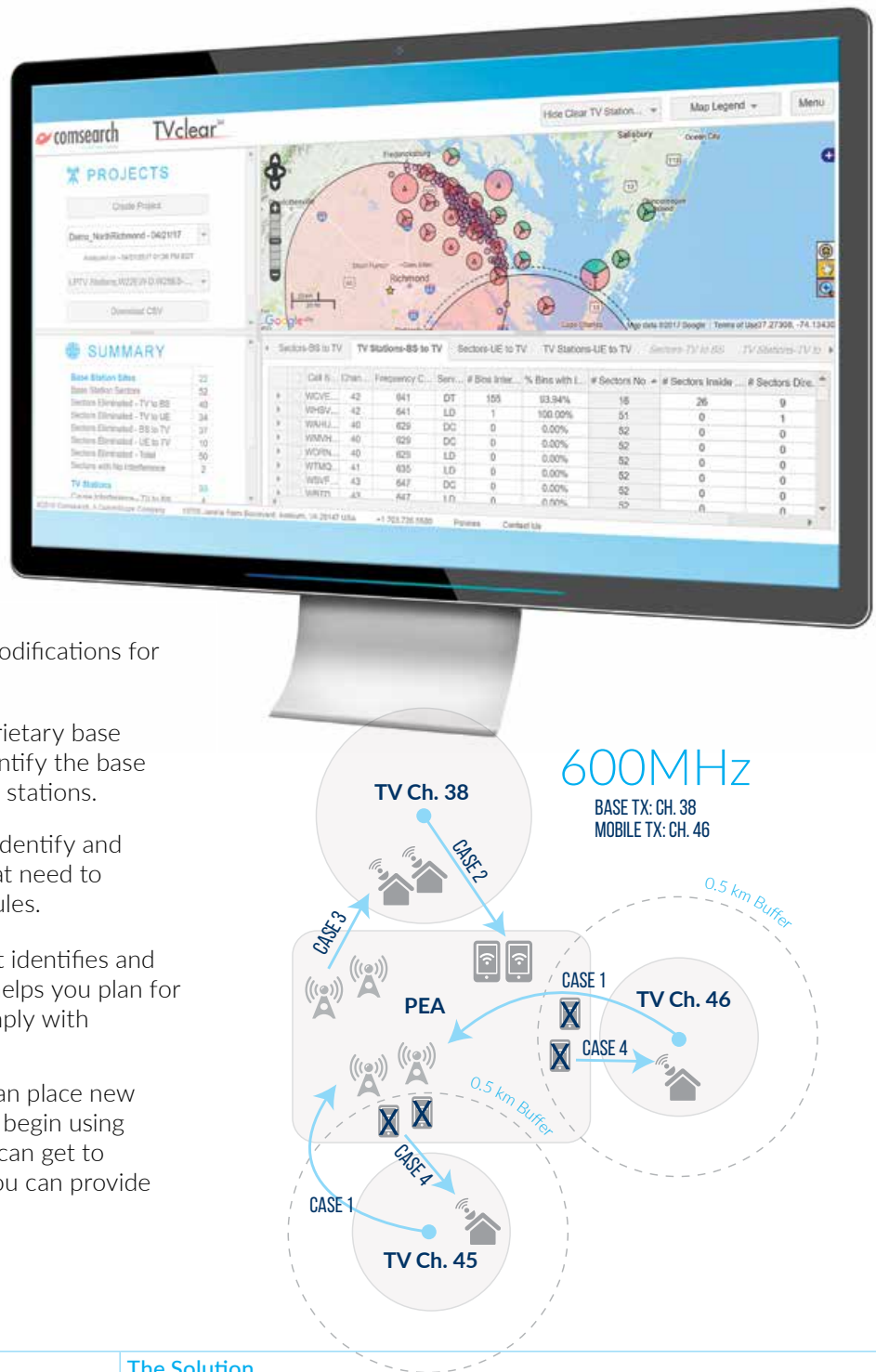
TVclearSM solution

The comprehensive TVclear solution includes software and project management services from Comsearch that help you:

- **Manage broadcaster relationships.** Coordinate with broadcasters to ensure their transitions are on schedule.
- **Assess spectrum availability.** Analyze interference potential between wireless systems and TV stations to identify transitional sharing opportunities.
- **Evaluate interference mitigation.** TVclear enables you to evaluate cell parameter modifications for interference mitigation.
- **Expedite deployment.** Our proprietary base sector-elimination algorithms identify the base stations that can coexist with TV stations.
- **Manage low-power TV impact.** Identify and notify low-power TV stations that need to vacate your spectrum per FCC rules.

TVclear is a full-service solution that identifies and addresses interference challenges, helps you plan for deployment and enables you to comply with FCC requirements.

Comsearch shows you where you can place new cell sites quickly and effectively and begin using TV spectrum safely. The faster you can get to market, the more mobile capacity you can provide your customers.



The challenge	The Solution
Program management	Comsearch has the experience to manage interference and mitigation complexities, saving you time and money.
Time it takes to conduct analysis using multiple tools	TVclear is a single tool that does it all. It can save up to 90 percent of your time to get a complete picture of which base stations can co-exist with TV stations.
Learning curve for understanding interference issues	TVclear assesses all interference scenarios between wireless systems and TV stations—allowing you to determine which cell sites can be built and brought online without affecting TV stations.
Data updates	TVclear automatically updates TV data daily.

Everyone communicates. It's the essence of the human experience. *How* we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.



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