

2013 – 2023

GLOBAL DISTRIBUTED ANTENNA SYSTEM (DAS) MARKET

BY COVERAGE, BY OWNERSHIP, BY TECHNOLOGY, BY END USER, BY REGION, COMPETITION FORECAST & OPPORTUNITIES

PUBLISHED : DECEMBER, 2017

MARKET INTELLIGENCE . CONSULTING

TABLE OF CONTENTS



Product Overview	3	
Sample Distribution	9	
User vs Non-User Analysis	10	
Non-User Adoption Preference Analysis	11	
Coverage Type Analysis	12	
Current Vendor Analysis	12	
Perception about Small Cell's Contribution	13	
DAS Ranking by Preference	14	
Challenges & Expectations		
Factors Influencing Purchase Decision	16	
Net Promoter Score		
About Us & Disclaimer	18	

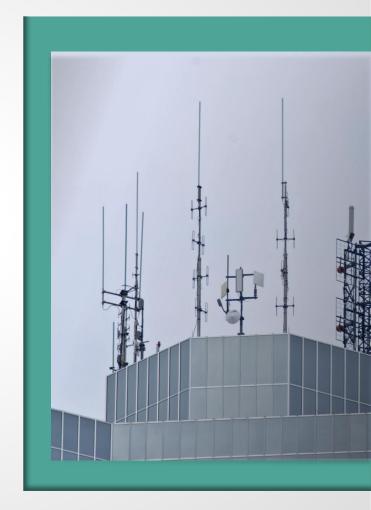
THE REAL PROPERTY

PRODUCT OVERVIEW

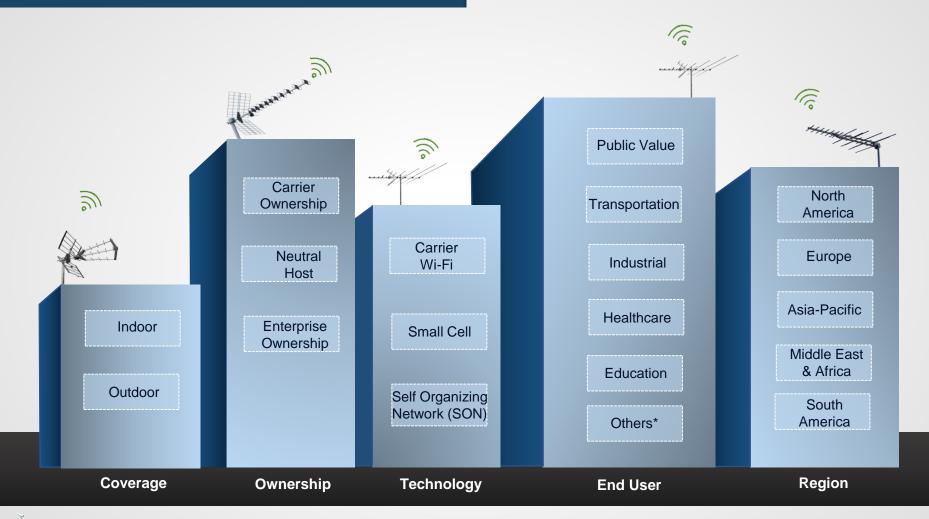


DISTRIBUTED ANTENNA SYSTEM (DAS)

- A Distributed Antenna System (DAS) comprises of a group of antennas, which are physically connected to a central controller, which is connected to the carrier network's base station or macro cell. DAS are signal boosters that strengthen the signal reception of cellular operators by removing dead spots.
- Distributed antenna system can be deployed on the basis of coverage type - Indoor (in building) and Outdoor. Adoption of indoor coverage type is growing at as it is being increasingly used in malls, shopping centers, medical centers, etc. for improving the network coverage.
- Distributed Antenna System are being used across various end user sectors including public venues, transit terminals (airports, metro stations, etc.), industrial establishments, medical facilities, education institutions, etc. as they offer numerous benefits to users such as lower interference and better coverage, especially in areas that cannot be effectively covered with traditional sites.



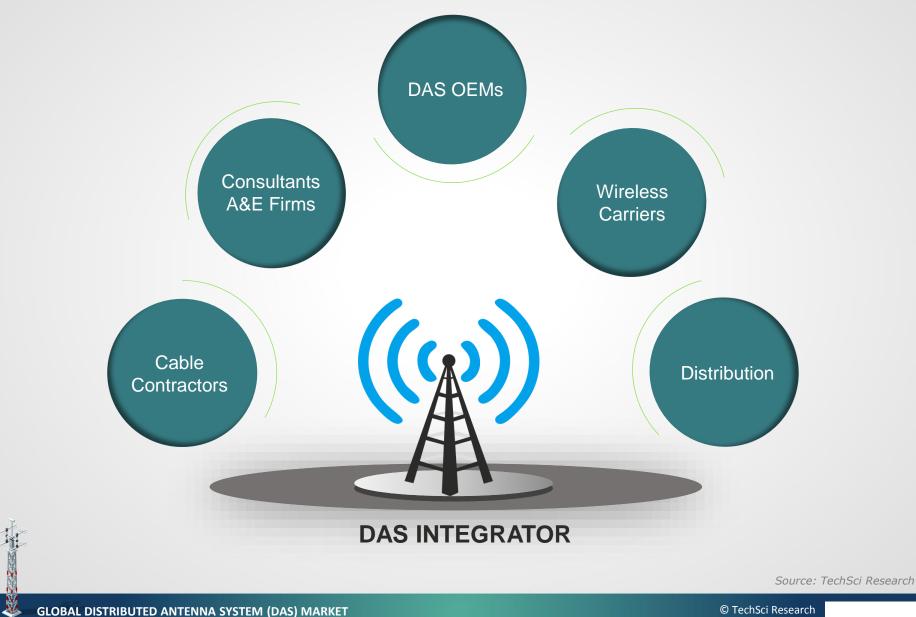
DISTRIBUTED ANTENNA SYSTEM (DAS)



Others*- include Hospitality, Residential, etc. Source: TechSci Research

PRODUCT OVERVIEW

TECHSCI RESEARCH from NOW to NEXT



PRODUCT OVERVIEW

С

THE REAL PROPERTY IN



DEFINITION

		Drives demand for DAS
ENTITY		
Customer		Manufactures DAS components and also provides support to the integrators with product training
DAS OEM		Set the design standards. Also provides Radio Frequency (RF) source with participation in funding
Brie o Lini		
Wireless Carrier		
Distributor		Supplies inventory locally. In addition, distributor works with partners to generate/tap market opportunities
Cable Contractor		
		Installs DAS cable infrastructure
Consultant and A&E Firm		
DAS Integrator		Develop & publish bid specification along with evaluating bid responses
Interfaces with all accounter players		
		Interfaces with all ecosystem players to ensure successful deploymen DAS. Designs, implements and supports the DAS. Coordinates in c

funding and integration.

Source: TechSci Research

VOICE OF CUSTOMER

SAMPLE DISTRIBUTION

TECHSCI **Researc**i from NOW to NEXT

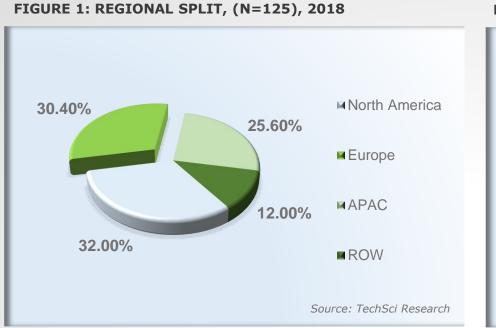
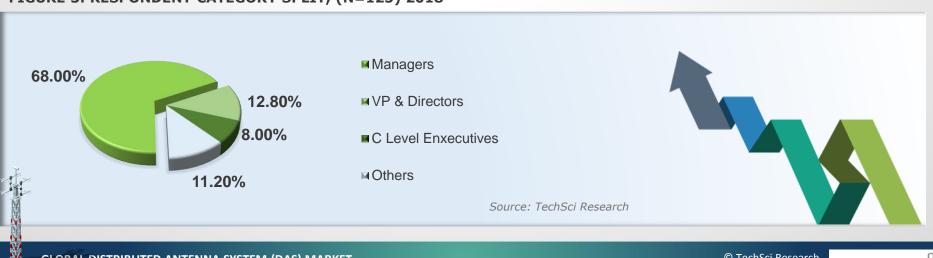


FIGURE 3: RESPONDENT CATEGORY SPLIT, (N=125) 2018



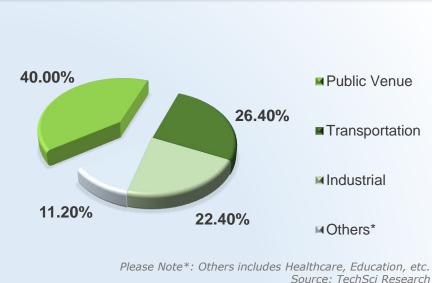
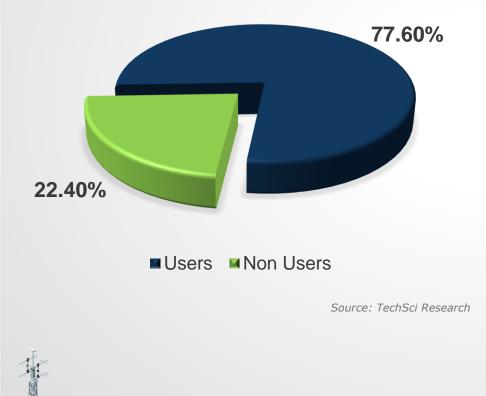


FIGURE 2: END USER SPLIT, (N=125), 2018

GLOBAL DISTRIBUTED ANTENNA SYSTEM (DAS) MARKET

VOICE OF CUSTOMER – USER VS NON-USER GROUP ANALYSIS





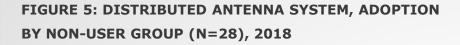
In considered sample size it is found that the penetration of DAS in five different region, globally is **more than 75%.** Remaining percentage of the respondents are using alternate technologies which is available in the market.

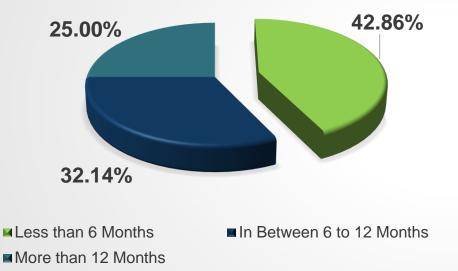
ECHSCI RESEAR

from NOW to NEX



VOICE OF CUSTOMER – NON-USER ADOPTION PREFERENCE ANALYSIS





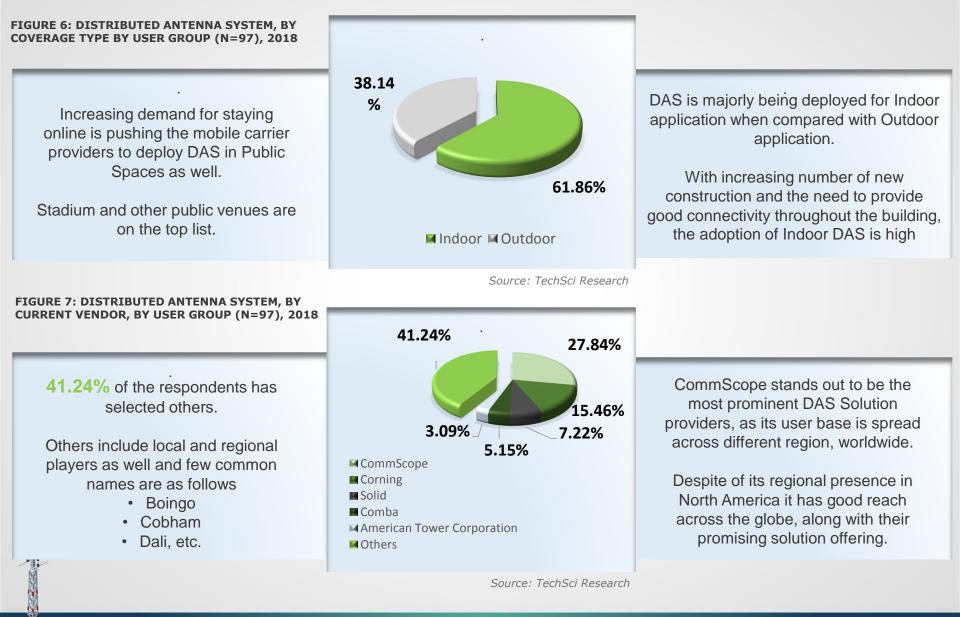
Source: TechSci Research

42.86% of the non-user are already in the planning phase to integrate DAS on different sites to boost the signal and maintain the connectivity. Majority of the respondents comprise of Enterprises and Public Venues which are primarily focusing on enhancing the connectivity to provide flawless services to the commuters & existing user base.



VOICE OF CUSTOMER – BY COVERAGE TYPE & CURRENT VENDOR ANALYSIS





ECHSCI RESEAA from NOW to NEXT

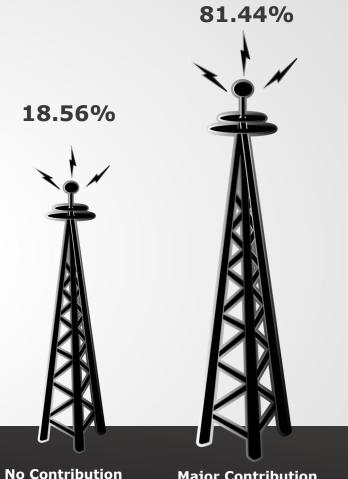


FIGURE 8: SMALL CELL'S CONTRIBUTION FOR FURTHER **DEVELOPMENT OF DAS, BY USER GROUP (N=97), 2018**

Major Contribution

Source: TechSci Research

Small cells were developed to support a single band of services, for e.g. 2G, 3G, 4G, etc. Hence, small cell will not be able to support current scenario.

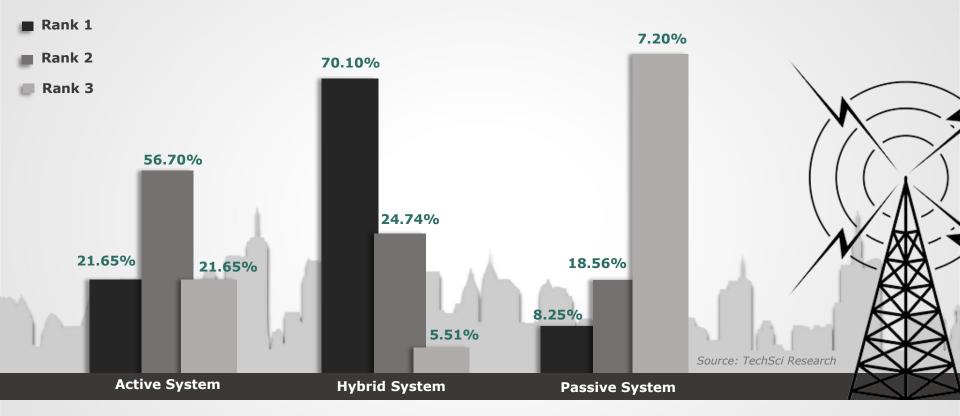
Parallel technologies like SON which could be a better option

Majority of the respondents suggested that Small Cells integration with DAS will enhance the coverage and capacity of reach in different venues. As, Small Cells are comprised of a fiber optic transport network and multiple wireless access points, which will help in extended reach.

Also, they identified that Small Cell can withstand more than 70% work done by DAS

VOICE OF CUSTOMER – DAS PREFERENCE: USER GROUP ANALYSIS

FIGURE 9: DAS PREFERRED SYSTEM RANKING, BY USER GROUP (MULTIPLE SELECT, N=97), 2018



Majority of the respondents Ranked Hybrid DAS setup to be the first priority and as per them this is the best available option in the market.

- Hybrid DAS combines both the Active & Passive DAS for signal distribution.
- This also has less signal loss when it is compared with the Passive DAS.



FIGURE 10: DISTRIBUTED ANTENNA SYSTEM (DAS) MARKET CHALLENGES, (N=97), 2018

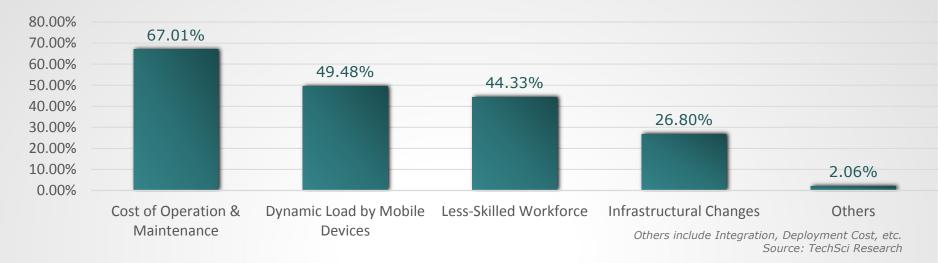


Figure 11: Distributed Antennas System (DAS), By Customer Expectation (N=97), 2018



Source: TechSci Research

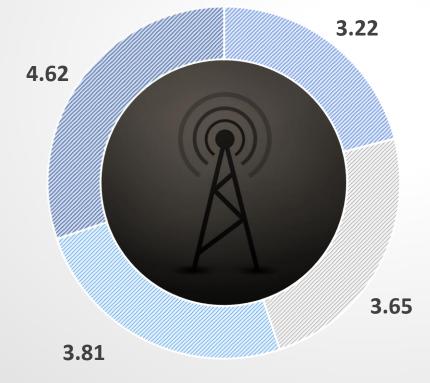
FIGURE 12: PARAMETERS INFLUENCING PURCHASE DECISION OF DISTRIBUTED ANTENNA SYSTEM (DAS), BY USER GROUP (1-2=LEAST IMPORTANT, 3=NEUTRAL AND 4-5=EXTREMELY IMPORTANT, N=97), 2018

High Coverage Area

Lower Infrastructure Cost

📨 Throughput





Efficient Signal Propagation:

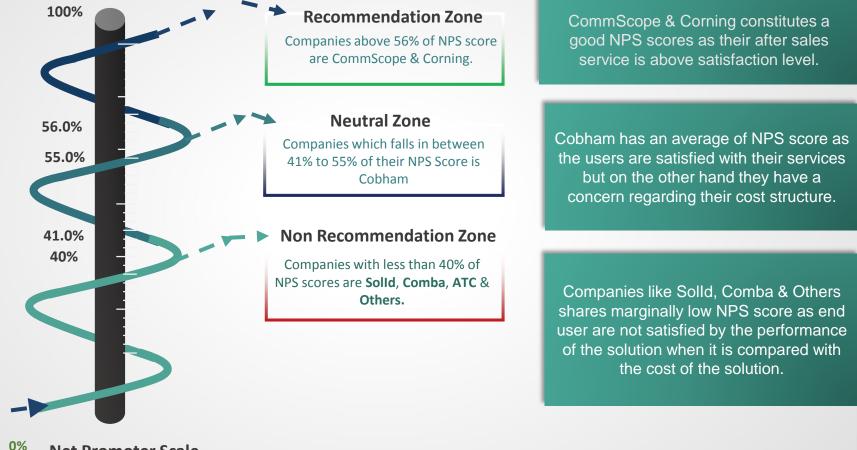
CHSCI RESEOS

from NOW to NEXT

Majorly in Active & Hybrid DAS Signal Propagation becomes an important factor as, proper connectivity is a must. Also, both of these setup need to transmit the signal in high obstruction scenario.



FIGURE 13: NET PROMOTER SCORE, (N=97), 2018



^{0%} Net Promoter Scale

ABOUT US & DISCLAIMER

ABOUT US

TechSci Research is a global market research and consulting company with offices in the US, the UK and India. TechSci Research provides market research reports in a number of areas to organizations. The company uses innovative business models that focus on improving productivity, while ensuring creation of high-quality reports. The proprietary forecasting models use various analyses of both industry-specific and macroeconomic variables on a state-by-state basis to produce a unique 'bottom-up' model of a country, regional and global industry prospects. Combined with the detailed analysis of company activity and industry trends, the result is a uniquely rich evaluation of the opportunities available in the market.

Related Reports

Global DAS Market Forecast and Opportunities, 2021 India Elevators & Escalators Market Forecast and Opportunities, 2021 India Building Automation Market Forecast and Opportunities, 2021

Partial List of Clients



Disclaimer

The contents of this report are based on information generally available to the public from sources believed to be reliable. No representation is made that it is timely, accurate or complete. TechSci Research has taken due care and caution in compilation of data as this has been obtained from various sources including which it considers reliable and first hand. However, TechSci Research does not guarantee the accuracy, adequacy or completeness of any information and it is not responsible for any errors or omissions or for the results obtained from the use of such information and especially states that it has no financial liability whatsoever to the subscribers / users of this report. The information herein, together with all estimates and forecasts, can change without notice. All the figures provided in this document are indicative of relative market size and are strictly for client's internal consumption. Usage of the same for purpose other than internal will require prior approval of TechSci Research.

TechSci Research – North America 708 Third Avenue, Manhattan, New York, United States Tel: +1- 646- 360- 1656 Email: sales@techsciresearch.com www.techsciresearch.com

TechSci Research – Europe 54, Oldbrook, Bretton, Peterborough, United Kingdom Email: sales@techsciresearch.com www.techsciresearch.com

TechSci Research – Asia-Pacific B – 44, Sector – 57, Noida, National Industrial Region, U.P. – India Tel: +91-120-4523900 Email: sales@techsciresearch.com www.techsciresearch.com

FOLLOW US

