#### **Brochure**

More information from http://www.researchandmarkets.com/reports/2373716/

# Heterogeneous Networks (HetNets): Small Cells & Carrier Wi-Fi Market: Global Advancements, Adoption Trends, Technology Roadmaps, Market Forecasts & Analysis (2013 - 2018)

#### Description:

Mobile operators are in the need of a cost effective way to handle the ever growing demand for mobile data. Traditional methods for handling both capacity and coverage issues require operators to install multiple macro base stations within the cell site, thereby making this technique both expensive and unsustainable, in the long run. With the mobile data demand following an exponential trajectory, HetNets are being seen as a cost effective and technically efficient solution, for improving mobile networks' capacity and coverage.

MarketsandMarkets estimates the HetNets market to be worth \$880.73 million in 2012 and is expected to grow to \$16.04 billion by 2018 at a CAGR of 62.22%. Being a complex interoperation between macro cells, small cells and Wi-Fi network elements; HetNets are to set to help mobile operators in enabling innovative network deployment models and to provide high quality of experience for customers. HetNets, not just provides a cost effective solution to cope up with the increasing demand in mobile data, but also caters to the increasing need for hot spot distribution and spectral efficiency.

The HetNets market is primarily segmented by products & services. The report encompasses Greenfield and Brownfield deployments, spanning across verticals such as Consumer & Residential, Commercial & Office Buildings, Utilities, Public Safety & Security, Transportation & Logistics, Academia & Education, Travel & Hospitality and Others. The report provides insights on five major geographies including North America (NA), Europe, Middle East & Africa (MEA), Asia-Pacific (APAC), and Latin America (LA). The report also analyzes global advancements, adoption trends, technology roadmaps, and market forecasts for different segments of HetNets solutions.

## Scope of the Report

This research report provides revenue segmentation of HetNets Market on the basis of products, services, deployment scenarios, verticals and geographies.

#### On the basis of Products

- Femtocells
- Picocells
- Microcells
- Carrier Wi-Fi

#### On the basis of Services

- Design & Consulting
- RF Planning
- Integration
- Testing
- Training

## On the basis of Deployment

- Greenfield deployment
- Brownfield deployment

## On the basis of Verticals

- Consumer & Residential
- Commercial & Office buildings
- Utilities Energy, Oil & Gas
- Public Safety & Security

- Transportation & Logistics
- Academia & Education
- Travel & Hospitality

## On the basis of Geographies

- North America (NA)
- Europe (EU)
- Middle-East Africa (MEA)
- Asia-Pacific, incl. Japan (APAC)
- Latin America (LA)

## Contents:

- 1 INTRODUCTION
- 1.1 KEY TAKE-AWAYS
- 1.2 REPORT DESCRIPTION
- 1.3 MARKETS COVERED
- 1.4 STAKEHOLDERS
- 1.5 RESEARCH METHODOLOGY

## 2 EXECUTIVE SUMMARY

- 3 MARKET OVERVIEW
- 3.1 MARKET DEFINITION HETNETS
- 3.2 MARKET EVOLUTION & NEED
- 3.3 MARKET SEGMENTATION
- 3.4 OVERALL MARKET SIZE
- 3.5 MARKET DYNAMICS
- 3.5.1 DRIVERS
- 3.5.1.1 Mobile Data Traffic Growth
- 3.5.1.2 Attractive Cost Effective Means of Data Offload
- 3.5.1.3 Lack of available spectrum
- 3.5.2 RESTRAINTS
- 3.5.2.1 Adapting SON
- 3.5.2.2 HetNet Wireless Security
- 3.5.2.3 Wireless Backhaul Technology Development
- 3.5.2.4 Deployment Issues
- 3.5.2.5 Lack of Operator Commitment
- 3.5.3 OPPORTUNITIES
- 3.5.3.1 Small Cell as a Service
- 3.5.3.2 Cost Savings and Better Efficiency
- 3.5.3.3 Integration of Wi-Fi within Network
- 3.6 IMPACT ANALYSIS OF DROS
- 3.7 HETNETS ARCHITECTURE
- 3.8 SMALL CELLS ECOSYSTEM

## 4 HETNETS: TECHNICAL CONSIDERATIONS, WIRELESS BACKHAUL SOLUTIONS & APPLICATIONS

- 4.1 TECHNICAL CONSIDERATIONS
- 4.1.1 MOBILITY
- 4.1.2 QUALITY OF SERVICE
- 4.1.3 SECURITY
- 4.1.4 SELF ORGANIZING NETWORK (SON)
- 4.2 BACKHAUL SOLUTIONS
- 4.2.1 LINE-OF-SIGHT (LOS): 11 GHZ TO 42 GHZ BANDS
- 4.2.2 E-BAND LOS: 60GHZ BAND
- 4.2.3 NON-LINE-OF-SIGHT (NLOS): SUB 6GHZ LICENSED TDDSPECTRUM
- 4.3 BACKHAUL APPLICATION AND CHALLENGES
- **4.3.1 STREETS**
- 4.3.2 RAILWAY STATIONS
- 4.3.3 HIGH-RISE BUILDINGS
- 4.3.4 SMALL OFFICES
- 4.3.5 TOWN SQUARE

- 5 HETNETS: MARKET SIZE, ANALYSIS & FORECAST BY PRODUCTS
- 5.1 OVERVIEW BY PRODUCT TYPES
- 5.2 FEMTOCELLS
- 5.2.1 OVERVIEW
- 5.2.2 MARKET SIZE AND FORECAST BY UNIT SHIPMENTS
- 5.2.3 MARKET SIZE & FORECAST BY REVENUES
- 5.3 PICOCELLS
- 5.3.1 OVERVIEW
- 5.3.2 MARKET SIZE & FORECAST BY UNIT SHIPMENTS
- 5.3.3 MARKET SIZE & FORECAST BY REVENUES
- 5.4 MICROCELLS
- 5.4.1 OVERVIEW
- 5.4.2 MARKET SIZE & FORECAST BY UNIT SHIPMENTS
- 5.4.3 MARKET SIZE & FORECAST BY REVENUES
- 5.5 CARRIER WI-FI
- 5.5.1 OVERVIEW
- 5.5.2 MARKET SIZE & FORECAST BY UNIT SHIPMENTS
- 5.5.3 MARKET SIZE & FORECAST BY REVENUES
- 6 HETNETS: MARKET SIZE, ANALYSIS & FORECAST BY SERVICES
- 6.1 OVERVIEW-BY SERVICES TYPES
- 6.2 DESIGN & CONSULTING
- 6.2.1 OVERVIEW
- 6.2.2 MARKET SIZE & FORECAST
- 6.3 RF PLANNING
- 6.3.1 OVERVIEW
- 6.3.2 MARKET SIZE & FORECAST
- 6.4 INTEGRATION
- 6.4.1 OVERVIEW
- 6.4.2 MARKET SIZE & FORECAST
- 6.5 TESTING
- 6.5.1 OVERVIEW
- 6.5.2 MARKET SIZE & FORECAST
- 6.6 TRAINING
- 6.6.1 OVERVIEW
- 6.6.2 MARKET SIZE & FORECAST
- 7 HETNETS: MARKET SIZE, ANALYSIS & FORECAST BY DEPLOYMENTS
- 7.1 OVERVIEW-BY DEPLOYMENTS TYPES
- 7.2 GREENFIELD DEPLOYMENTS
- 7.2.1 OVERVIEW
- 7.2.2 MARKET SIZE & FORECAST
- 7.3 BROWNFIELD DEPLOYMENTS
- 7.3.1 OVERVIEW
- 7.3.2 MARKET SIZE & FORECAST
- 8 HETNETS MARKET SIZE, ANALYSIS & FORECAST BY VERTICALS
- 8.1 OVERVIEW BY TYPES
- 8.2 CONSUMER & RESIDENTIAL
- 8.2.1 OVERVIEW
- 8.2.2 MARKET SIZE & FORECAST
- 8.3 COMMERCIAL & OFFICE BUILDINGS
- 8.3.1 OVERVIEW
- 8.3.2 MARKET SIZE & FORECAST
- 8.4 UTILITIES ENERGY, OIL & GAS
- 8.4.1 OVERVIEW
- 8.4.2 MARKET SIZE & FORECAST
- 8.5 PUBLIC SAFETY & SECURITY
- 8.5.1 OVERVIEW
- 8.5.2 MARKET SIZE & FORECAST
- 8.6 TRANSPORTATION & LOGISTICS
- 8.6.1 OVERVIEW
- 8.6.2 MARKET SIZE & FORECAST

- 8.7 ACADEMIA & EDUCATION
- 8.7.1 OVERVIEW
- 8.7.2 MARKET SIZE & FORECAST
- 8.8 TRAVEL & HOSPITALITY
- 8.8.1 OVERVIEW
- 8.8.2 MARKET SIZE & FORECAST
- 8.9 OTHERS
- 8.9.1 OVERVIEW
- 8.9.2 MARKET SIZE & FORECAST
- 9 HETNETS: MARKET SIZE, ANALYSIS & FORECASTS BY GEOGRAPHIES
- 9.1 OVERVIEW-BY GEOGRAPHIES
- 9.2 NORTH AMERICA
- 9.2.1 OVERVIEW
- 9.2.2 MARKET SIZE & FORECAST: PRODUCTS
- 9.2.3 MARKET SIZE & FORECAST: SERVICES
- 9.3 EUROPE
- 9.3.1 OVERVIEW
- 9.3.2 MARKET SIZE & FORECAST: PRODUCTS
- 9.3.3 MARKET SIZE & FORECAST: SERVICES
- 9.4 ASIA-PACIFIC (INCLUDING JAPAN)
- 9.4.1 OVFRVIFW
- 9.4.2 MARKET SIZE & FORECAST: PRODUCTS
- 9.4.3 MARKET SIZE & FORECAST: SERVICES
- 9.5 MIDDLE EAST & AFRICA
- 9.5.1 OVERVIEW
- 9.5.2 MARKET SIZE & FORECAST: PRODUCTS
- 9.5.3 MARKET SIZE & FORECAST: SERVICES
- 9.6 LATIN AMERICA
- 9.6.1 OVERVIEW
- 9.6.2 MARKET SIZE & FORECAST: PRODUCTS
- 9.6.3 MARKET SIZE & FORECAST: SERVICES
- 10 HETNETS: ADOPTIONS BENEFITS & FUTURE TRENDS
- **10.1 ADOPTION BENEFITS**
- 10.1.1 INCREASED NETWORK CAPACITY & ENHANCED USER EXPERIENCE
- 10.1.2 RANGE EXPANSION
- 10.1.3 BROADBAND EXPERIENCE
- 10.1.4 NETWORK LOAD BALANCING
- 10.2 FUTURE TRENDS & ROADMAP
- 10.2.1 FUTURE TRENDS & CONSIDERATIONS
- 10.2.2 TECHNOLOGY & MARKET ROADMAP
- 10.2.3 SMALL CELL AS A SERVICE
- 11 COMPETITIVE LANDSCAPE
- 11.1 MERGERS AND ACQUISTIONS
- 11.2 VENTURE CAPITAL FUNDING
- 12 HETNETS: NETWORK STRATEGIES, DEPLOYMENT CHOICES, ROADMAP & OPPORTUNITIES
- 12.1 MOBILE NETWORK STRATEGIES
- 12.1.1 NETWORK TRAFFIC OFFLOAD VIA MICROCELLS & PICOCELLS
- 12.1.2 NETWORK TRAFFIC OFFLOAD VIA FEMTOCELLS
- 12.1.3 NETWORK TRAFFIC OFFLOAD VIA WI-FI
- 12.2 DEPLOYMENT TIMELINES & OPPORTUNITIES
- 12.2.1 SERVICE PROVIDER & OPERATOR OUTLOOK
- 12.2.2 NEW OPPORTUNITIES & MARKETS
- 13 COMPANY PROFILES (Overview, Products & Services, Strategy & Analyst Insights)\*
- 13.1 AIRHOP COMMUNICATIONS
- 13.2 AIRVANA LLC
- 13.3 ALCATEL-LUCENT
- 13.4 ALVARION
- 13.5 AT&T

- 13.6 BLINO NETWORKS
- 13.7 CAMBRIDGE BROADBAND NETWORKS
- 13.8 CISCO SYSTEMS
- 13.9 CLOUDBERRY MOBILE
- 13.10 ERICSSON
- 13.11 HUAWEI TECHNOLOGIES
- 13.12 IP.ACCESS
- 13.13 MINDSPEED TECHNOLOGIES INC
- 13.14 NEC CORPORATION
- 13.15 NETGEAR INC
- 13.16 NOKIA SIEMENS NETWORKS
- 13.17 QUALCOMM
- 13.18 RADISYS CORPORATION
- 13.19 RUCKUS WIRELESS
- 13.20 SAMSUNG
- 13.21 TAQUA
- 13.22 TARANA WIRELESS
- 13.23 TEXAS INSTRUMENTS
- 13.24 TELEFONICA O2
- 13.25 ZTE CORPORATION
- \*Details on financials, product & services, strategy, and developments might not be captured in case of unlisted companies.

#### LIST OF TABLES

- TABLE 1 GLOBAL HETNETS MARKET REVENUE, 2012 2018 (\$MILLION)
- TABLE 2 GLOBAL HETNETS MARKET REVENUE, 2012 2018 (\$MILLION)
- TABLE 3 IMPACT ANALYSIS OF DROS
- TABLE 4 HETNETS MARKET REVENUE BY PRODUCT TYPES, 2012 2018 (\$MILLION)
- TABLE 5 HETNETS MARKET REVENUE BY PRODUCT TYPES, 2012 2018, Y-O-Y (%)
- TABLE 6 UNIT SHIPMENTS IN FEMTOCELLS BY GEOGRAPHIES, 2012 2018 (IN THOUSANDS)
- TABLE 7 Y-O-Y GROWTH FOR FEMTOCELLS UNITS SHIPMENTS BY GEOGRAPHIES, 2012- 2018 (%)
- TABLE 8 HETNETS MARKET REVENUES FOR FEMTOCELLS BY GEOGRAPHIES, 2012 2018 (\$MILLION)
- TABLE 9 Y-O-Y GROWTH FOR FEMTOCELLS REVENUES BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 10 UNIT SHIPMENTS IN PICOCELLS BY GEOGRAPHIES, 2012 2018 (IN THOUSANDS)
- TABLE 11 Y-O-Y GROWTH FOR PICOCELLS UNIT SHIPMENTS BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 12 HETNETS MARKET REVENUES FOR PICOCELLS BY GEOGRAPHIES, 2012 2018 (\$MILLION)
- TABLE 13 Y-O-Y GROWTH FOR PICOCELLS REVENUES BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 14 UNIT SHIPMENTS IN MICROCELLS BY GEOGRAPHIES, 2012 2018 (IN THOUSANDS)
- TABLE 15 Y-O-Y GROWTH FOR MICROCELLS UNIT SHIPMENTS BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 16 HETNETS MARKET REVENUES FOR MICROCELLS BY GEOGRAPHIES, 2012 2018 (\$MILLION)
- TABLE 17 Y-O-Y GROWTH FOR MICROCELLS REVENUES BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 18 UNIT SHIPMENTS IN CARRIER WI-FI BY GEOGRAPHIES, 2012 2018 (IN THOUSANDS)
- TABLE 19 Y-O-Y GROWTH FOR CARRIER WI-FI UNIT SHIPMENTS BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 20 HETNETS MARKET REVENUES FOR CARRIER WI-FI BY GEOGRAPHIES, 2012 2018 (\$MILLION)
- TABLE 21 Y-O-Y GROWTH FOR CARRIER WI-FI REVENUES BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 22 HETNETS MARKET REVENUE BY SERVICES TYPES, 2012 2018 (\$MILLION)
- TABLE 23 HETNETS MARKET REVENUE BY SERVICES TYPES, 2012 2018, Y-O-Y (%)
- TABLE 24 HETNETS SERVICES MARKET REVENUES FROM DESIGN & CONSULTING BY GEOGRAPHIES, 2012 2018 (\$MILLION)
- TABLE 25 Y-O-Y GROWTH OF REVENUES FOR DESIGN & CONSULTING BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 26 HETNETS MARKET REVENUES FROM RF PLANNING SERVICES BY GEOGRAPHIES, 2012 2018 (\$MILLION)
- TABLE 27 Y-O-Y GROWTH FOR MARKET REVENUES FROM RF PLANNING SERVICES BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 28 HETNETS MARKET REVENUES FROM INTEGRATION SERVICES BY GEOGRAPHIES, 2012 2018 (\$MILLIONS)
- TABLE 29 Y-O-Y GROWTH FOR MARKET REVENUES FROM INTEGRATION SERVICES BY GEOGRAPHIES, 2012 2018 (%)
- TABLE 30 HETNETS MARKET REVENUES FROM TESTING SERVICES BY GEOGRAPHIES, 2012 2018 (\$MILLIONS)

```
TABLE 31 Y-O-Y GROWTH FOR MARKET REVENUES FROM TESTING SERVICES BY GEOGRAPHIES, 2012 – 2018 (%)
```

TABLE 32 HETNETS MARKET REVENUES FROM TRAINING SERVICES BY GEOGRAPHIES, 2012 – 2018 (\$MILLIONS)

TABLE 33 Y-O-Y GROWTH FOR MARKET REVENUES FROM TRAINING SERVICES BY GEOGRAPHIES, 2012 – 2018 (%)

TABLE 34 HETNETS MARKET REVENUE BY DEPLOYMENTS TYPES, 2012 – 2018 (\$MILLION)

TABLE 35 HETNETS MARKET REVENUE BY DEPLOYMENTS TYPES, 2012 – 2018, Y-O-Y (%)

TABLE 36 HETNETS DEPLOYMENTS MARKET REVENUES FROM GREENFIELD BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLION)

TABLE 37 Y-O-Y GROWTH OF REVENUES FOR GREENFIELD BY PRODUCTS & SERVICES, 2012 - 2018 (%)

TABLE 38 HETNETS DEPLOYMENTS MARKET REVENUES FROM BROWNFIELD BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLION)

TABLE 39 Y-O-Y GROWTH OF REVENUES FOR BROWNFIELD BY PRODUCTS & SERVICES, 2012 - 2018 (%)

TABLE 40 HETNETS MARKET REVENUE BY VERTICALS TYPES, 2012 – 2018 (\$MILLION)

TABLE 41 HETNETS MARKET REVENUE BY VERTICALS TYPES, 2012 - 2018, Y-O-Y (%)

TABLE 42 HETNETS MARKET REVENUES FROM CONSUMER & RESIDENTIAL VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLION)

TABLE 43 Y-O-Y GROWTH OF REVENUES FOR CONSUMER & RESIDENTIAL VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 44 HETNETS MARKET REVENUES FROM COMMERCIAL & OFFICE BUILDINGS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 45 Y-O-Y GROWTH FOR MARKET REVENUES FROM COMMERCIAL & OFFICE BUILDINGS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 46 HETNETS MARKET REVENUES FROM UTILITIES - ENERGY, OIL & GAS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 47 Y-O-Y GROWTH FOR MARKET REVENUES FROM UTILITIES - ENERGY, OIL & GAS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 48 HETNETS MARKET REVENUES FROM PUBLIC SAFETY & SECURITY VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 49 Y-O-Y GROWTH FOR MARKET REVENUES FROM PUBLIC SAFETY & SECURITY VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 50 HETNETS MARKET REVENUES FROM TRANSPORTATION & LOGISTICS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 51 Y-O-Y GROWTH FOR MARKET REVENUES FROM TRANSPORTATION & LOGISTICS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 52 HETNETS MARKET REVENUES FROM ACADEMIA & EDUCATION VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 53 Y-O-Y GROWTH FOR MARKET REVENUES FROM ACADEMIA & EDUCATION VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 54 HETNETS MARKET REVENUES FROM TRAVEL & HOSPITALITY VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 55 Y-O-Y GROWTH FOR MARKET REVENUES FROM TRAVEL & HOSPITALITY VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 56 HETNETS MARKET REVENUES FROM OTHERS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 57 Y-O-Y GROWTH FOR MARKET REVENUES FROM OTHERS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018 (%)

TABLE 58 HETNETS GLOBAL PRODUCTS MARKET REVENUE BY GEOGRAPHIES, 2012 – 2018 (\$MILLION)

TABLE 59 HETNETS GLOBAL PRODUCTS MARKET REVENUE BY GEOGRAPHIES, 2012 - 2018, Y-O-Y (%)

TABLE 60 HETNETS GLOBAL SERVICES MARKET REVENUE BY GEOGRAPHIES, 2012 – 2018 (\$MILLION)

TABLE 61 HETNETS GLOBAL SERVICES MARKET REVENUE BY GEOGRAPHIES, 2012 - 2018, Y-O-Y (%)

TABLE 62 HETNETS MARKET REVENUES FROM NORTH AMERICA BY PRODUCTS, 2012 – 2018 (\$MILLION)

TABLE 63 Y-O-Y GROWTH OF REVENUES FOR NORTH AMERICA BY PRODUCTS, 2012 – 2018 (%)

TABLE 64 HETNETS MARKET REVENUES FROM NORTH AMERICA BY SERVICES, 2012 – 2018 (\$MILLION)

TABLE 65 Y-O-Y GROWTH OF REVENUES FOR NORTH AMERICA BY SERVICES, 2012 - 2018 (%)

TABLE 66 HETNETS MARKET REVENUES FROM EUROPE BY PRODUCTS, 2012 – 2018 (\$MILLIONS)

TABLE 67 Y-O-Y GROWTH FOR MARKET REVENUES FROM EUROPE BY PRODUCTS, 2012 – 2018 (%)

TABLE 68 HETNETS MARKET REVENUES FROM EUROPE BY SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 69 Y-O-Y GROWTH FOR MARKET REVENUES FROM EUROPE BY SERVICES, 2012 - 2018 (%)

TABLE 70 HETNETS MARKET: REVENUES FROM ASIA-PACIFIC (INCLUDING JAPAN) BY PRODUCTS, 2012 – 2018 (\$MILLION)

TABLE 71 Y-O-Y GROWTH FOR MARKET REVENUES FROM ASIA-PACIFIC(INCLUDING JAPAN) BY PRODUCTS,

2012 - 2018 (%)

TABLE 72 HETNETS MARKET REVENUES FROM ASIA-PACIFIC (INCLUDING JAPAN) BY SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 73 Y-O-Y GROWTH FOR MARKET REVENUES FROM ASIA-PACIFIC (INCLUDING JAPAN) BY SERVICES, 2012 – 2018 (%)

TABLE 74 HETNETS MARKET REVENUES FROM MIDDLE EAST & AFRICA BY PRODUCTS, 2012 – 2018 (\$MILLIONS)

TABLE 75 Y-O-Y GROWTH FOR MARKET REVENUES FROM MIDDLE EAST & AFRICA BY PRODUCTS, 2012 – 2018 (%)

TABLE 76 HETNETS MARKET REVENUES FROM MIDDLE EAST & AFRICA BY SERVICES, 2012 – 2018 (\$MILLIONS) TABLE 77 Y-O-Y GROWTH FOR MARKET REVENUES FROM MIDDLE EAST & AFRICA BY SERVICES, 2012 – 2018 (%)

TABLE 78 HETNETS MARKET REVENUES FROM LATIN AMERICA BY PRODUCTS, 2012 – 2018 (\$MILLIONS)

TABLE 79 Y-O-Y GROWTH FOR MARKET REVENUES FROM LATIN AMERICA BY PRODUCTS, 2012 - 2018 (%)

TABLE 80 HETNETS MARKET REVENUES FROM LATIN AMERICA BY SERVICES, 2012 – 2018 (\$MILLIONS)

TABLE 81 Y-O-Y GROWTH FOR MARKET REVENUES FROM LATIN AMERICA BY SERVICES, 2012 – 2018 (%)

TABLE 82 IMPACT ANALYSIS OF MERGERS & ACQUISITIONS IN HETNETS MARKET

TABLE 83 VC FUNDING IN HETNETS MARKET

TABLE 84 OPERATOR DEPLOYMENT OUTLOOK

TABLE 85 DEPLOYMENT STRATEGY OUTLOOK

#### LIST OF FIGURES

FIGURE 1 GLOBAL HETNETS MARKET REVENUE VS Y-O-Y GROWTH, 2012 - 2018

FIGURE 2 HETNETS ECOSYSTEM

FIGURE 3 HETNETS MARKET REVENUE BY PRODUCT TYPES VS Y-O-Y GROWTH, 2012 - 2018 (\$MILLIONS)

FIGURE 4 HETNETS MARKET BY PRODUCT TYPES Y-O-Y, 2012 - 2018

FIGURE 5 HETNETS MARKET: Y-O-Y GROWTH IN UNIT SHIPMENTS OF FEMTOCELLS (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 6 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES OF FEMTOCELLS (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 7 HETNETS MARKET: Y-O-Y GROWTH IN UNIT SHIPMENTS OF PICOCELLS (%), BY GEOGRAPHIES, 2012

FIGURE 8 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES OF PICOCELLS (%), BY GEOGRAPHIES, 2012 – 2018 FIGURE 9 HETNETS MARKET: Y-O-Y GROWTH IN UNIT SHIPMENTS OF MICROCELLS (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 10 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES OF MICROCELLS (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 11 HETNETS MARKET: Y-O-Y GROWTH IN UNIT SHIPMENTS OF CARRIER WI-FI (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 12 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES OF CARRIER WI-FI (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 13 HETNETS MARKET REVENUE BY SERVICES TYPES VS Y-O-Y GROWTH, 2012 – 2018 (\$MILLIONS) FIGURE 14 HETNETS MARKET BY SERVICES TYPES Y-O-Y, 2012 – 2018

FIGURE 15 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES FROM DESIGN & CONSULTING SERVICES (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 16 HETNETS MARKET: Y-O-Y GROWTH IN REVENUES FROM RF PLANNING SERVICES BY GEOGRAPHIES (%), BY GEOGRAPHIES, 2012 – 2018

FIGURE 17 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM INTEGRATION SERVICES BY GEOGRAPHIES, 2012 – 2018

FIGURE 18 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM TESTING SERVICES BY GEOGRAPHIES, 2012 – 2018

FIGURE 19 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM TRAINING SERVICES BY GEOGRAPHIES, 2012 – 2018

FIGURE 20 HETNETS MARKET REVENUE BY DEPLOYMENTS TYPES VS Y-O-Y GROWTH, 2012 – 2018 (\$MILLIONS & %)

FIGURE 21 HETNETS MARKET BY DEPLOYMENTS TYPES Y-O-Y, 2012 - 2018

FIGURE 22 HETNETS MARKET: Y-O-Y GROWTH IN REVENUES FROM GREENFIELD DEPLOYMENTS (%), BY PRODUCTS & SERVICES 2012 – 2018

FIGURE 23 HETNETS MARKET: Y-O-Y GROWTH IN REVENUES FROM BROWNFIELD DEPLOYMENTS (%), BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 24 HETNETS MARKET REVENUE BY VERTICALS TYPES VS Y-O-Y GROWTH, 2012 – 2018 (\$MILLIONS) FIGURE 25 HETNETS MARKET BY VERTICALS TYPES Y-O-Y, 2012 – 2018

FIGURE 26 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES FROM CONSUMER & RESIDENTIAL VERTICAL (%), BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 27 HETNETS MARKET: Y-O-Y GROWTH IN REVENUES FROM COMMERCIAL & OFFICE BUILDINGS VERTICAL BY PRODUCTS & SERVICES (%), 2012 – 2018

FIGURE 28 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM UTILITIES - ENERGY, OIL & GAS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 29 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM PUBLIC SAFETY & SECURITY VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 30 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM TRANSPORTATION & LOGISTICS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 31 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM ACADEMIA & EDUCATION VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 32 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM TRAVEL & HOSPITALITY VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 33 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM OTHERS VERTICAL BY PRODUCTS & SERVICES, 2012 – 2018

FIGURE 34 HETNETS GLOBAL PRODUCTS MARKET REVENUE BY GEOGRAPHIES VS Y-O-Y GROWTH, 2012 – 2018 (\$MILLIONS)

FIGURE 35 HETNETS GLOBAL PRODUCTS MARKET REVENUE BY GEOGRAPHIES Y-O-Y, 2012 – 2018 FIGURE 36 HETNETS GLOBAL SERVICES MARKET REVENUE BY GEOGRAPHIES VS Y-O-Y GROWTH, 2012 – 2018 (\$MILLION)

FIGURE 37 HETNETS GLOBAL SERVICES MARKET REVENUE BY GEOGRAPHIES Y-O-Y, 2012 – 2018 FIGURE 38 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES FROM NORTH AMERICA SERVICES (%), BY PRODUCTS, 2012 – 2018

FIGURE 39 HETNETS MARKET: Y-O-Y GRWOTH IN REVENUES FROM NORTH AMERICA (%), BY SERVICES, 2012 – 2018

FIGURE 40 HETNETS MARKET: Y-O-Y GROWTH IN REVENUES FROM EUROPE BY PRODUCTS (%), 2012 – 2018 FIGURE 41 HETNETS MARKET: Y-O-Y GROWTH IN REVENUES FROM EUROPE BY SERVICES (%), 2012 – 2018 FIGURE 42 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES ASIA-PACIFIC (INCLUDING JAPAN) BY PRODUCTS, 2012 – 2018

FIGURE 43 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM ASIA-PACIFIC (INCLUDING JAPAN) BY SERVICES, 2012 – 2018

FIGURE 44 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM MIDDLE EAST & AFRICA BY PRODUCTS, 2012 – 2018

FIGURE 45 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM MIDDLE EAST & AFRICA BY SERVICES, 2012 – 2018

FIGURE 46 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM LATIN AMERICA BY PRODUCTS, 2012 – 2018

FIGURE 47 HETNETS MARKET: Y-O-Y GROWTH FOR MARKET REVENUES FROM LATIN AMERICA BY SERVICES, 2012 – 2018

FIGURE 48 DEPLOYING MICRO & PICOCELLS WITHIN THE SAME FREQUENCY CHANNEL AS MACRO FIGURE 49 WI-FI OFFLOADS OVER 3G NETWORKS.

Order Online - http://www.researchandmarkets.com/reports/2373716/

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets, Guinness Centre, Taylors Lane, Dublin 8, Ireland.

## RESEARCHANDMARKETS Page 1 of 2

## Fax Order Form

To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit

http://www.researchandmarkets.com/contact/

## **Order Information**

Please verify that the product information is correct and select the format(s) you require.

Product Name: Heterogeneous Networks (HetNets): Small Cells & Carrier Wi-Fi Market: Global

Advancements, Adoption Trends, Technology Roadmaps, Market Forecasts &

Analysis (2013 - 2018)

Web Address: http://www.researchandmarkets.com/reports/2373716/

Office Code: OC8DIRPLROVTVR

Quantity

## **Product Formats**

Please select the product formats and quantity you require:

Electronic (PDF) -

Single User	r: Goyan
Electronic ( 1 - 5 Users:	
Electronic ( Site License	
Electronic ( Enterprise	
tact Information	
	ation below in <b>BLOCK CAPITALS</b>
Title:	Mr
First Name:	Last Name:
Email Address: *	
Job Title:	
Organisation:	
Address:	
City:	
Postal / Zip Code:	
Country:	
Phone Number:	

<sup>\*</sup> Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)

# RESEARCHANDMARKETS Page 2 of 2

## **Payment Information**

American Express  Diners Club  Master Card  Visa Cardholder's Name  Cardholder's Signature  Expiry Date  Card Number  CVV Number  Issue Date  (for Diners Club only)	
Master Card Visa Cardholder's Name Cardholder's Signature Expiry Date Card Number CVV Number Issue Date	
Visa Cardholder's Name Cardholder's Signature Expiry Date Card Number CVV Number Issue Date	
Cardholder's Name  Cardholder's Signature  Expiry Date  Card Number  CVV Number  Issue Date	
Cardholder's Signature Expiry Date Card Number CVV Number Issue Date	
Expiry Date  Card Number  CVV Number  Issue Date	
Card Number  CVV Number  Issue Date	I
CVV Number Issue Date	
Issue Date	
	I
(i.e. billers class chily)	
Please post the check, ac	ccompanied by this form, to:
Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland.	
Please transfer funds to:	
Account number	833 130 83
Sort code	98-53-30
Swift code	ULSBIE2D
IBAN number	IE78ULSB98533083313083
Bank Address	Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland.
e enter it below:	
	Research and Markets, Guinness Center, Taylors Lane, Dublin 8, Ireland.  Please transfer funds to: Account number Sort code Swift code IBAN number Bank Address

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp