

# Ovum Core Research

## Q3, 2019 Edition



- Welcome to Ovum's Core Research List. This document provides a 12-month forward view of Ovum's core research program as at Q3, 2019, for each of our research services. The document is updated and issued on a quarterly basis.
- Please note that this does NOT represent the entirety of the research deliverables for each service, but instead lists the major items of planned output that form the core of the service.
- We endeavour to deliver the core agenda items according to the listed schedule, but there may be some variation based on client feedback, and change in the priority of topics, or specific authors.
- Additional (unlisted) data and analysis will also be delivered based on industry and market events, including product launches, mergers and acquisitions and emerging technology topics.
- If you have any questions on the contents of the Core Research List, please contact your Ovum account manager or our Client Services team via [askananalyst@ovum.com](mailto:askananalyst@ovum.com)

# Consumer & Entertainment Research



## BROADBAND & MULTIPLAY

Data	Forecast	Broadband Bundle Subscription Forecast	2019-Q4	Nicole McCormick
Data	Forecast	Consumer Broadband Subscription and Revenue Forecast	2020-Q1	Michael Philpott

## SURVEYS

Data	Survey	Digital Consumer Insights: Broadband and Multiplay Services survey tool	2019-Q4	Nicole McCormick
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## TRACKERS

Data	Tracker	Broadband pricing tracker 2019	2019-Q3	Kamalini Ganguly
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## REPORTS

Report	Report	Broadband FMS and FMC Forecast Analysis	2019-Q3	Kamalini Ganguly
Report	Report	Broadband Pricing Tracker 2019: Mobile Broadband Analysis	2019-Q3	Nicole McCormick
Report	Report	Consumer Broadband Subscription and Revenue Forecast: H2 Report	2020-Q1	Kamalini Ganguly
Report	Report	Innovative Broadband Pricing Strategies: 2020	2020-Q1	Nicole McCormick

## COMMS & SOCIAL

## FORECASTS

Data	Forecast	Social Media Forecast	2019-Q4	Charlotte Palfrey
Data	Forecast	RCS user and traffic Forecast	2019-Q4	Charlotte Palfrey
Data	Forecast	OTT Messaging Forecast	2020-Q1	Pamela Clark-Dickson

## SURVEYS

Data	Survey	Digital Consumer Insights: Communications Apps and Services survey tool	2019-Q3	Pamela Clark-Dickson
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## TRACKERS

Data	Tracker	Social media tracker 1H2019	2019-Q3	Charlotte Palfrey
Data	Tracker	Enhanced telco communications tracker: Q2 2019	2019-Q3	Pamela Clark-Dickson
Data	Tracker	Enhanced telco communications tracker: Q3 2019	2019-Q4	Pamela Clark-Dickson
Data	Tracker	Enhanced telco communications tracker: Q4 2019	2020-Q1	Pamela Clark-Dickson
Data	Tracker	Social media tracker 2H2018	2020-Q1	Charlotte Palfrey

## REPORTS

Report	Report	Role of telco: Future of messaging	2020-Q1	Pamela Clark-Dickson
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## CONSUMER TECHNOLOGY

**FORECASTS**

Data	Forecast	Mobile handset forecast (includes mobile AR)	2019-Q4	Daniel Gleeson
Data	Forecast	Wearable forecast	2019-Q4	Rishi Kaul
Data	Forecast	TV set top box (STB) forecast (incl. Android TV)	2019-Q4	Ismail Patel
Data	Forecast	Smart home devices forecast	2020-Q1	Daniel Gleeson
Data	Forecast	TV sets forecast	2020-Q1	Rishi Kaul
Data	Forecast	AI devices forecast	2020-Q1	Daniel Gleeson
Data	Forecast	Games consoles forecast	2020-Q2	Matthew Bailey
Data	Forecast	Media streamer forecast	2020-Q2	Rishi Kaul
Data	Forecast	Mobile handset forecast (includes mobile AR)	2020-Q2	Daniel Gleeson

**SURVEYS**

Data	Survey	Digital Consumer Insights: Future Devices survey tool	2019-Q3	Ronan de Renesse
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**TRACKERS**

Data	Tracker	5G device tracker	2019-Q3	Daniel Gleeson
Data	Tracker	5G device tracker	2019-Q3	Daniel Gleeson
Data	Tracker	TV technology tracker	2019-Q4	Ismail Patel
Data	Tracker	Wearables tracker	2019-Q4	Rishi Kaul
Data	Tracker	5G device tracker	2019-Q4	Daniel Gleeson
Data	Tracker	5G device tracker	2020-Q1	Daniel Gleeson
Data	Tracker	TV technology tracker	2020-Q2	Ismail Patel
Data	Tracker	Wearables tracker	2020-Q2	Rishi Kaul
Data	Tracker	5G device tracker	2020-Q2	Daniel Gleeson

**REPORTS**

Report	Report	Apple WWDC: Key Consumer and Entertainment Trends	2019-Q3	Ronan De Renesse
Report	Report	AI devices forecast report	2019-Q3	Daniel Gleeson
Report	Report	TV STB technology outlook report	2019-Q4	Ismail Patel
Report	Report	CES 2020: Key Consumer and Entertainment Trends	2020-Q1	Ronan De Renesse
Report	Report	Smart home devices forecast report	2020-Q1	Daniel Gleeson
Report	Report	Media Streamer Forecast Report	2020-Q2	Rishi Kaul
Report	Report	Games consoles forecast report	2020-Q2	Matthew Bailey
Report	Report	Google I/O: Key Consumer and Entertainment Trends	2020-Q2	Rob Gallagher
Report	Report	MWC 2020: Key Consumer and Entertainment Trends	2020-Q2	Ronan De Renesse

**MEDIA & ENTERTAINMENT**

**FORECASTS**

Data	Forecast	Pay TV and FTA forecasts – Europe and North America	2019-Q3	Adam Thomas
Data	Forecast	App ecosystem forecast (incl. AR breakdown)	2019-Q3	Guillermo Escofet
Data	Forecast	Pay TV and FTA forecasts – MEA and APAC	2019-Q3	Ismail Patel
Data	Forecast	Video advertising forecast	2019-Q3	Matthew Bailey
Data	Forecast	Pay OTT video forecast (Tony)	2019-Q3	Tony Gunnarsson
Data	Forecast	Video Games Forecast	2019-Q4	Media & Entertainment Team
Data	Forecast	Esports Revenue Forecast	2019-Q4	Dominic Tait
Data	Forecast	Carrier billing forecast	2019-Q4	Guillermo Escofet
Data	Forecast	Digital advertising forecast	2019-Q4	Matthew Bailey
Data	Forecast	Recorded-Music Retail Sales Forecast, Inc. Streaming Music Subscribers	2019-Q4	Simon Dyson
Data	Forecast	Network traffic forecast: 2019-24	2019-Q4	Nidhir Maudgalya
Data	Forecast	Multi-subscription TV forecast	2020-Q1	Adam Thomas

**SURVEYS**

Data	Survey	Digital Consumer Insights: TV and Video	2019-Q4	Jonathan Doran
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**TRACKERS**

Data	Tracker	Digital music bundling tracker	2019-Q3	Simon Dyson
Data	Tracker	Pay TV and telco TV leaders benchmark	2019-Q3	Jonathan Doran
Data	Tracker	OTT video bundling and partnership tracker	2019-Q4	Jonathan Doran
Data	Tracker	Digital music bundling tracker	2020-Q1	Simon Dyson
Data	Tracker	OTT Video Service Provider Tracker	2020-Q1	Tony Gunnarsson
Data	Tracker	OTT video bundling and partnership tracker	2020-Q2	Jonathan Doran

**REPORTS**

Report	Report	Pay TV and FTA forecasts Report – Europe and North America	2019-Q3	Adam Thomas
Report	Report	App ecosystem forecast report	2019-Q3	Guillermo Escofet
Report	Report	Pay TV and FTA forecasts Report – MEA and APAC	2019-Q3	Ismail Patel
Report	Report	OTT video forecast report	2019-Q3	Tony Gunnarsson
Report	Report	Evaluating the new wave of aggregated broadcaster OTT video platforms	2019-Q3	Ed Barton
Report	Report	Evaluating the new wave of D2C video platforms	2019-Q4	Ed Barton
Report	Report	Advertising forecast report (Digital, TV and Video)	2019-Q4	Matthew Bailey, Adam Thomas
Report	Report	Video Games Forecast	2019-Q4	Media & Entertainment Team
Report	Report	Esports Revenue Forecast	2019-Q4	Dominic Tait
Report	Report	Carrier billing forecast report	2019-Q4	Guillermo Escofet

Report	Report	Recorded-Music retail sales forecast report	2019-Q4	Simon Dyson
Report	Report	Apple OTT video strategy report	2020-Q1	Tony Gunnarsson
Report	Report	Multi-subscription TV forecast report	2020-Q2	Adam Thomas
Report	Report	Multi-subscription TV forecast: Country outlooks	2020-Q2	Adam Thomas

## SMART LIVING

### FORECASTS

Data	Forecast	Consumer TMT Context and Household Revenue Model	2019-Q3	Michael Philpott
Data	Forecast	Broadband Gateway Forecast	2020-Q2	Michael Philpott
Data	Forecast	Consumer TMT Context and Household Revenue Model	2020-Q2	Michael Philpott

### SURVEYS

Data	Survey	Digital Consumer Insights: Communications, Media, & Commerce survey tool	2019-Q3	Eden Zoller
Report	Report	Market Radar: Smart Home Cybersecurity	2019-Q3	Michael Philpott
Data	Survey	Digital Consumer Insights: Smart Living survey tool	2019-Q3	Michael Philpott

### TRACKERS

Data	Tracker	Smart home opportunity index tool 2019	2019-Q3	Michael Philpott
Data	Tracker	Smart home broadband service provider tracker	2019-Q3	Mariana Zamoszczyk
Data	Tracker	AI assistant tracker 1H2019	2019-Q4	Mariana Zamoszczyk
Data	Tracker	AI assistant tracker	2020-Q2	Mariana Zamoszczyk
Data	Tracker	Smart home opportunity index tool 2019	2020-Q2	Michael Philpott

### REPORTS

Report	Report	Consumer TMT Revenue Context Model analysis, 2018–23	2019-Q3	Michael Philpott
Report	Report	Digital Insights Snapshot: Consumer AI	2019-Q3	Eden Zoller
Report	Report	Mobile money in emerging markets	2019-Q4	Eden Zoller
Report	Report	Digital Consumer Insights Snapshot: Smart Home	2019-Q4	Michael Philpott
Report	Report	Implementing a 5G home network strategy	2019-Q4	Michael Philpott
Report	Report	Smart Home Leaders: Google	2020-Q1	Mariana Zamoszczyk
Report	Report	Smart home service forecast analysis	2020-Q1	Michael Philpott
Report	Report	Operators & AI: consumer services & engagement	2020-Q1	Eden Zoller

# Internet of Things Research



## INTERNET OF THINGS

Data	Forecast	IoT Forecast 2017-2022: Connections, Devices, Service Revenues, Verticals	2019-Q3	IoT Team
Data	Forecast	IoT Forecast: Automotive / Connected Car 2019-2024	2020-Q1	IoT Team
Data	Forecast	IoT Forecast: Industrial IoT 2019-2024	2020-Q1	IoT Team

## SURVEYS

Data	Survey Report	IoT Enterprise Survey 2019: Summary Findings	2019-Q3	Alexandra Rehak, Pablo Tomasi
Data	Survey Tool	IoT Enterprise Survey 2019 - Survey data	2019-Q3	Alexandra Rehak, Pablo Tomasi
Data	Survey Report	IoT Enterprise Survey 2019: Regional Trends Asia-Pacific	2019-Q4	IoT Team
Data	Survey Report	IoT Enterprise Survey 2019: Regional Trends Europe	2019-Q4	IoT Team

## TRACKERS

Data	Tracker	IoT Investment Tracker 1H 2019	2019-Q3	IoT Team
Data	Tracker	Smart Cities IoT Project Tracker – 2019	2019-Q3	Carrie Pawsey
Data	Tracker	IoT Service Provider Contracts Tracker 2H 2019	2019-Q3	Carrie Pawsey
Data	Tracker	IoT & LPWAN Deployment Tracker 1H 2019	2019-Q4	IoT Team
Data	Tracker	IoT Investment Tracker 2H 2019	2020-Q1	IoT Team
Data	Tracker	IoT Service Provider Contracts Tracker 2H 2019	2020-Q1	IoT Team
Data	Tracker	IoT & LPWAN Deployment Tracker 2H 2019	2020-Q2	IoT Team

## REPORTS

Report	Market Report	Connected + autonomous vehicles – IoT Opportunity Framework	2019-Q3	John Canali
Report	Market Report	CSP Strategies For Industrial IoT: IoT Market Radar	2019-Q4	Pablo Tomasi
Report	Market Report	CSP Strategies for Connected and Autonomous Vehicles: IoT Market Radar	2019-Q4	John Canali
Report	Market Report	Smart Cities Investment and Business Models – smart parking, smart lighting, waste mgmt.	2019-Q4	Carrie Pawsey
Report	Market Report	IoT and Edge Computing Solutions: Emerging Technology Outlook	2019-Q4	IoT Team
Report	Trends Report	Trends to Watch 2020: IoT	2019-Q4	Alexandra Rehak, IoT Team
Report	Company report	IoT Vendor Strategy Profiles (ongoing - leading vendors)	2019-all Qs	IoT team
Report	Company report	IoT Service Provider Strategy Profiles (ongoing - leading CSPs)	2019-all Qs	IoT team
Report	Market Report	5G IoT Strategies: the most compelling use cases	2020-Q1	IoT Team
Report	Market Report	IoT Security Solutions: Market Radar	2020-Q1	IoT Team

Report	Market Report	AI-Enabled IoT: Emerging Technology Outlook	2020-Q1	IoT Team
Report	Market Report	IoT Pricing Models: Update and Evolution	2020-Q2	IoT Team
Report	Market Report	Industrial IoT Leaders: Market Radar	2020-Q2	IoT Team
Report	Company report	IoT Vendor Strategy Profiles (ongoing - leading vendors)	2020-all Qs	IoT team
Report	Company report	IoT Service Provider Strategy Profiles (ongoing - leading CSPs)	2020-all Qs	IoT team

# Enterprise Services Research



## ADVANCED DIGITAL SERVICES

Data	Forecast	ICT Total Addressable Markets Forecast Report: Major Opportunities	2019-Q3	Enterprise Team
REPORTS				
Report	Market Report	Service Providers: Transforming Themselves to Better Serve Enterprise	2019-Q3	Hansa Iyengar
Report	Trends Report	Trends to Watch 2020: Key Trends in Enterprise Services and How to Adapt	2019-Q4	Adrian Ho, Hansa Iyengar
Report	Trends Report	Trends to Watch 2020: Automation	2019-Q4	Enterprise Team
Report	Trends Report	Trends to Watch 2020: Application Services	2019-Q4	Hansa Iyengar
Report	Market Report	Global Services Outlook: 2020	2019-Q4	David Molony
Report	Assessment	Ovum Market Radar: BPM Providers	2020-Q1	Hansa Iyengar
Report	Ovum Decision Matrix	Ovum Decision Matrix: SI Media Services	2020-Q1	Hansa Iyengar

## NETWORK TRANSFORMATION & CLOUD

FORECASTS				
Data	Forecast	Enterprise Fixed Voice Subscription and Revenue Forecast: 2018-24	2019-Q3	Evan Kirchheimer
Data	Forecast	Business Fixed Broadband 2018-2024	2019-Q3	Brian Washburn
Data	Forecast	Enterprise WAN Markets 2017-2023	2019-Q4	Brian Washburn
Data	Forecast	Enterprise Fixed Voice Subscription and Revenue Forecast: 2018-24	2020-Q1	Evan Kirchheimer
REPORTS				
Report	Market Report	How Major Cloud Providers Will Win Enterprise Network Services	2019-Q3	Brian Washburn
Report	Trends Report	Trends to Watch 2020: Network Transformation & Cloud	2019-Q4	Brian Washburn
Report	Market Report	Enterprise NFV: Opportunities Outside the Telco Ecosystem	2019-Q4	Brian Washburn
Report	Assessment	Tata Communications Network Services Assessment	2020-Q1	Brian Washburn

## SOHO AND SME SERVICES

TRACKERS				
Data	Tracker	B2B Competitor Tracker H2 2019: A Global Roundup of Market Leading Case Studies	2019-Q3	Camille Mender, Alexander Harrowell
REPORTS				
Report	Assessment	Market Radar: Managed Security for Micro Firms to the Midmarket	2019-Q2	Alexander Harrowell

Report	Trends Report	2020 Trends to Watch: SoHo and SME Services	2019-Q4	Camille Mendler, Alexander Harrowell
<b>WORKSPACE SERVICES</b>				
<b>FORECASTS</b>				
Data	Forecast	Corporate-liable Mobile Subscriptions and Revenue Forecast: 2018–24	2019-Q3	Pauline Trotter
Data	Forecast	Employee-liable mobile (BYOD) Subscriptions Forecast: 2018–24	2019-Q3	Pauline Trotter
Data	Forecast	Managed and Hosted Unified Communications Services	2019-Q4	Hwee Xian Tan
Data	Forecast	Corporate-liable Mobile Subscriptions and Revenue Forecast: 2018–24	2020-Q1	Pauline Trotter
Data	Forecast	Employee-liable mobile (BYOD) Subscriptions Forecast: 2018–24	2020-Q1	Pauline Trotter
<b>SURVEYS</b>				
Data	Survey	Digital Enterprise Insights: New Buying Centers for Workspace Services	2020-Q1	Tim Banting
<b>REPORTS</b>				
Report	Market Report	CPaaS: Service Provider Strategies	2019-Q3	Tim Banting
Report	Market Report	Building the Modern Workplace	2019-Q4	Adam Holtby
Report	Market Report	The Service Provider Case for Enterprise 5G	2019-Q3	Adam Holtby, Alexander Harrowell
Report	Trends Report	Trends to Watch 2020: Workspace Services	2019-Q4	Pauline Trotter, Adam Holtby, Hwee Xian Tan

# Service Provider Markets Research



## SERVICE PROVIDER STRATEGIES

Data	Forecast	Mobile Subscription and Revenue Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Mobile Broadband Subscription Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Mobile Connections Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Smartphone Connections Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Total Fixed Broadband Subscription and Revenue Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Fixed Broadband Connections Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Total Fixed Voice Subscription and Revenue Forecast: 2019–24	2019-Q3	Markets Team
Data	Forecast	Mobile, Broadband, and Pay-TV Integrated Forecasts: 2019–24	2019-Q3	Markets Team
Data	Forecast	Network traffic forecast: 2019-24	2019-Q4	Nidhir Maudgalya
Data	Forecast	Mobile Subscription and Revenue Forecast: 2019–24	2020-Q1	Markets Team
Data	Forecast	Mobile Broadband Subscription Forecast: 2019–24	2020-Q1	Markets Team
Data	Forecast	Mobile Connections Forecast: 2019–24	2020-Q1	Markets Team
Data	Forecast	Smartphone Connections Forecast: 2019–24	2020-Q1	Markets Team
Data	Forecast	Total Fixed Broadband Subscription and Revenue Forecast: 2019–24	2020-Q1	Markets Team
Data	Forecast	Fixed Broadband Connections Forecast: 2019–24	2020-Q1	Markets Team
Data	Forecast	Total Fixed Voice Subscription and Revenue Forecast: 2019–24	2020-Q1	Markets Team

## TRACKERS

Data	Tracker	Telco Services Innovation Radar: 2Q19	2019-Q3	Paul Lambert
Data	Tracker	Telco Services Innovation Radar: 3Q19	2019-Q4	Paul Lambert
Data	Tracker	Telco Services Innovation Radar: 4Q19	2020-Q1	Paul Lambert
Data	Tracker	Telco Services Innovation Radar: 1Q20	2020-Q2	Paul Lambert
Data	Tracker	Communications Provider Revenue & Capex Tracker: 2Q19	2019-Q4	Gaurav Shukla
Data	Tracker	Communications Provider Revenue & Capex Tracker: 3Q19	2020-Q1	Gaurav Shukla
Data	Tracker	Communications Provider Revenue & Capex Tracker: 4Q19	2020-Q2	Gaurav Shukla
Data	Tracker	World Telecoms Financial Benchmarks –1Q19	2019-Q3	Upin Dattani
Data	Tracker	World Telecoms Financial Benchmarks – 2Q19	2019-Q4	Upin Dattani
Data	Tracker	World Telecoms Financial Benchmarks – 3Q19	2020-Q1	Upin Dattani

Data	Tracker	World Telecoms Financial Benchmarks – 4Q19	2020-Q2	Upin Dattani
REPORTS				
Report	Market Report	FAANG: Impact on Service Providers	2019-Q4	Matt Reed
Report	Market Report	Growth strategies, segments & lessons from the world's leading developed markets	2019-Q4	Armita Satari & Markets Team
Report	Market report	Ovum's Innovative Service of the Month	2019-Q3	Paul Lambert
Report	Market report	Ovum's Innovative Service of the Month	2019-Q4	Paul Lambert
Report	Market report	Ovum's Innovative Service of the Month	2020-Q1	Paul Lambert
Report	Market report	Ovum's Innovative Service of the Month	2020-Q2	Paul Lambert
Report	Market Report	Communications Provider Revenue & Capex Forecast Highlights: 2019–2024	2019-Q3	Upin Dattani
Report	Market Report	Communications Provider M&A: 2Q19 Review & Outlook	2019-Q3	Gaurav Shukla
Report	Market Report	Communications Provider M&A: 3Q19 Review & Outlook	2019-Q4	Gaurav Shukla
Report	Market Report	Communications Provider M&A: 4Q19 Review & Outlook	2020-Q1	Gaurav Shukla
Report	Market Report	Communications Provider M&A: 1Q20 Review & Outlook	2020-Q2	Gaurav Shukla
Report	Market Report	Communications Provider Revenue & Capex Highlights: 1Q19	2019-Q3	Gaurav Shukla
Report	Market Report	Communications Provider Revenue & Capex Highlights: 2Q19	2019-Q4	Gaurav Shukla
Report	Market Report	Communications Provider Revenue & Capex Highlights: 3Q19	2020-Q1	Gaurav Shukla
Report	Market Report	Communications Provider Revenue & Capex Highlights: 4Q19	2020-Q2	Gaurav Shukla
5G ACCELERATOR				
FORECASTS				
Data	Forecast	5G Mobile and Fixed Subscription Forecast: 2019-24	2019-Q3	Mike Roberts
TRACKERS				
Data	Market tracker	5G Service Provider Tracker: 2Q19	2019-Q3	Paul Lambert
Data	Market tracker	5G Service Provider Tracker: 3Q19	2019-Q4	Paul Lambert
Data	Market tracker	5G Service Provider Tracker: 4Q19	2020-Q1	Paul Lambert
Data	Market tracker	5G Service Provider Tracker: 1Q20	2020-Q2	Paul Lambert
REPORTS				
Report	Market report	5G in the China: Market Update and Outlook	2019-Q3	Ramona Zhao
Report	Market report	5G in MEA: Market Update and Outlook	2019-Q4	Matt Reed
Report	Market report	5G in Europe: Market Update and Outlook	2020-Q1	Paul Lambert
Report	Market report	5G: Key Market Developments 2Q19	2019-Q3	Paul Lambert
Report	Market report	5G: Key Market Developments 3Q19	2019-Q4	Paul Lambert
Report	Market report	5G: Key Market Developments 4Q19	2020-Q1	Paul Lambert

Report	Market report	5G: Key Market Developments 1Q20	2020-Q2	Paul Lambert
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## AMERICAS

### FORECASTS

Data	Forecast	Canada: Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q3	Kristin Paulin
Data	Forecast	Mexico: Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q4	Sonia Agnese
Data	Forecast	US: Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q1	Mike Roberts
Data	Forecast	Brazil: Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q2	Ari Lopes

### REPORTS

Report	Company report	Digital Profile: Telefonica	2019-Q3	Ari Lopes
Report	Company report	CSP Profile: Verizon	2019-Q3	Kristin Paulin
Report	Company report	Digital Profile: AT&T	2019-Q4	Kristin Paulin
Report	Company report	CSP Profile: America Movil	2019-Q4	Sonia Agnese
Report	Company report	CSP Profile: Sprint	2020-Q1	Kristin Paulin
Report	Company report	CSP Profile: Comcast	2020-Q2	Kristin Paulin
Report	Country report	Canada: Mobile, Broadband, TV and OTT Video Report	2019-Q3	Kristin Paulin
Report	Country report	Mexico: Mobile, Broadband, TV and OTT Video Report	2019-Q4	Sonia Agnese
Report	Country report	US: Mobile, Broadband, TV, and OTT Video Report	2020-Q1	Kristin Paulin
Report	Country report	Brazil: Mobile, Broadband, TV and OTT Video Report	2020-Q2	Ari Lopes
Report	Trends report	2020 Trends to Watch: US	2019-Q3	Kristin Paulin
Report	Trends report	2020 Trends to Watch: Latin America	2019-Q4	Ari Lopes, Sonia Agnese
Report	Trends report	2020 Trends to Watch: Brazil	2020-Q2	Ari Lopes

## ASIA

### FORECASTS

Data	Forecast	Japan Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q3	Ramona Zhao
Data	Forecast	Indonesia Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q4	Inderpreet Kaur
Data	Forecast	China Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q1	Ramona Zhao
Data	Forecast	India Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q2	Inderpreet Kaur

### REPORTS

Report	Company report	Digital Profile: NTT	2019-Q3	Inderpreet Kaur
Report	Company report	CSP Profile: NTT DoCoMo	2019-Q3	Maosen Xia
Report	Company report	Digital Profile: SingTel	2019-Q4	Inderpreet Kaur

Report	Company report	CSP Profile: Axiata	2019-Q4	David Kennedy
Report	Company report	Digital Profile: Hutchison	2020-Q2	Ramona Zhao
Report	Company report	CSP Profile: Bharti Airtel	2020-Q2	Inderpreet Kaur
Report	Country report	Japan: Mobile, Broadband, TV and OTT Video Report	2019-Q3	Ramona Zhao
Report	Country report	Indonesia: Mobile, Broadband, TV and OTT Video Report	2019-Q4	Inderpreet Kaur
Report	Country report	China: Mobile, Broadband, TV and OTT Video Report	2020-Q1	Maosen Xia
Report	Country report	India: Mobile, Broadband, TV and OTT Video Report	2020-Q2	Inderpreet Kaur
Report	Trends report	2020 Trends to Watch: Asia	2019-Q3	David Kennedy
Report	Market report	5G in China: Market Update and Outlook	2019-Q3	Ramona Zhao
Report	Trends report	2021 Trends to Watch: India	2020-Q2	Inderpreet Kaur

## EUROPE

### FORECASTS

Data	Forecast	Germany Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q3	Markets Team
Data	Forecast	UK Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q4	Markets Team
Data	Forecast	France: Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q1	Markets Team
Data	Forecast	Russia Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q2	Markets Team

### REPORTS

Report	Company report	Digital Profile: Vodafone	2019-Q3	Markets Team
Report	Company report	Digital Profile: Telenor	2019-Q4	Markets Team
Report	Company report	CSP Profile: Orange	2019-Q4	Markets Team
Report	Company report	Digital Profile: DTAG	2020-Q2	Markets Team
Report	Country report	UK: Mobile, Broadband, TV and OTT Video Report	2019-Q4	Markets Team
Report	Trends report	Trends to Watch 2020: Europe	2019-Q4	Markets Team
Report	Trends report	Switzerland: Mobile, Broadband, TV and OTT Video Report	2020-Q1	Markets Team
Report	Country report	Russia: Mobile, Broadband, TV and OTT Video Report	2020-Q2	Markets Team

## MIDDLE EAST & AFRICA

### FORECASTS

Data	Forecast	Turkey Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q3	Markets Team
Data	Forecast	Saudi Arabia Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2019-Q4	Markets Team
Data	Forecast	Nigeria Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q1	Markets Team
Data	Forecast	South Africa Mobile, Broadband, TV and OTT Video Forecasts: 2019-24	2020-Q2	Markets Team

REPORTS				
Report	Country report	Digital Profile: Zain	2019-Q3	Markets Team
Report	Country report	CSP Profile: Turkcell	2019-Q3	Markets Team
Report	Country report	Digital Profile: Etisalat	2019-Q4	Markets Team
Report	Country report	CSP Profile: STC	2019-Q4	Markets Team
Report	Company report	Digital Profile: MTN	2020-Q2	Markets Team
Report	Company report	CSP Profile: Vodacom	2020-Q2	Markets Team
Report	Country report	Turkey: Mobile, Broadband, TV and OTT Video Report	2019-Q3	Markets Team
Report	Country report	Saudi Arabia: Mobile, Broadband, TV and OTT Video Report	2019-Q4	Markets Team
Report	Country report	Nigeria: Mobile, Broadband, TV and OTT Video Report	2020-Q1	Markets Team
Report	Country report	South Africa: Mobile, Broadband, TV and OTT Video Report	2020-Q2	Markets Team
Report	Trends report	Trends to Watch 2020: MEA	2019-Q3	Matt Reed
REGULATION				
MARKET DATA				
Data	Benchmark	Wholesale Broadband Access Benchmarks – 3Q19	2019-Q3	Regulation Team
Data	Benchmark	Interconnection Benchmarks – 1Q20	2020-Q2	Regulation Team
TRACKERS				
Data	Tracker	OTT Regulatory Initiatives Tracker	2019-Q3	Regulation Team
Data	Tracker	Universal Broadband Tracker	2019-Q4	Regulation Team
Data	Tracker	Fixed NGA Tracker	2019-Q4	Regulation Team
REPORTS				
Report	Country report	Country Regulation Overview: South Africa	2019-Q3	Regulation Team
Report	Country report	Country Regulation Overview: France	2019-Q3	Regulation Team
Report	Country report	Country Regulation Overview: UK	2019-Q4	Regulation Team
Report	Market report	Spectrum Auction Tracker Report	2019-Q4	Regulation Team
Report	Trends report	2019 Trends to Watch: Regulation	2019-Q3	Regulation Team
Report	Country report	Country Regulation Overview: India	2020-Q1	Regulation Team
Report	Country report	Country Regulation Overview: Spain	2020-Q1	Regulation Team
Report	Country report	Country Regulation Overview: China	2020-Q1	Regulation Team
Report	Country report	Country Regulation Overview: Mexico	2020-Q2	Regulation Team
Report	Country report	Country Regulation Overview: US	2020-Q2	Regulation Team

## WHOLESALE

### REPORTS

Report	Market report	Strategies for Effective Transitions in Wholesale	2019-Q3	David James
Report	Market report	Developments in Wholesale Hubbing Services	2019-Q3	David James
Report	Market report	European Wholesale Market Share	2019-Q4	David James
Report	Trends report	2020 Trends to Watch: Wholesale Telecoms	2020-Q1	David James
Report	Market report	Wholesale Innovation Analyzer	2020-Q2	David James

# Service Provider Technology Research



## COMPONENTS, TRANSPORT & ROUTING

Data	Forecast	Optical Component forecast	2019-Q3	Julie Kunstler
Data	Forecast	100G to 400G Optical Components Forecast: 2019-24	2019-Q3	Lisa Huff
Data	Forecast	Total Optical Components Forecast: 2019-24	2019-Q4	Lisa Huff
Data	Forecast	SPRS Forecast Spreadsheet with SDN and Service provider Router VNF: 2020-25	2020-Q2	Don Frey
Data	Forecast	DataComm Optical Components Forecast: 2020-25	2020-Q2	Lisa Huff

## MARKET DATA

Data	Market Share	Market Share Spreadsheet: 1Q19 Optical Components	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 1Q19 SP Switching & Routing	2019-Q3	Tanya Harris
Data	Market Share	Telecom Equipment Capex and Revenue Highlights: 1Q19	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 Optical Components	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 SP Switching & Routing	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 SP Switching & Routing EMEA and AP subregional	2019-Q4	Tanya Harris
Data	Market Share	Telecom Equipment Capex and Revenue Highlights: 2Q19	2019-Q4	Tanya Harris
Data	Market Report	Global-Data-Center-Analyzer-2019	2019-Q4	Ian Redpath
Data	Market Share	Market Share Spreadsheet: 3Q19 Optical Components	2020-Q1	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 SP Switching & Routing	2020-Q1	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 SP Switching & Routing EMEA and AP subregional	2020-Q1	Tanya Harris
Data	Market Share	Telecom Equipment Capex and Revenue Highlights: 3Q19	2020-Q1	Tanya Harris

## REPORTS

Report	Market Report	Data Center Market Watch	2019-Q3	Ian Redpath
Report	Market Report	Optical Networks Forecast Report: 2019-2024	2019-Q4	Ian Redpath

## NETWORK INFRASTRUCTURE & SOFTWARE

### FORECASTS

Data	Forecast	ON Forecast Spreadsheet: 2019-24	2019-Q4	Don Frey
Data	Forecast	Mobile Backhaul & Fronthaul forecast: 2019-24	2019-Q4	Don Frey
Data	Forecast	SDN-Transport/Packet Controller Forecast: 2019-24	2019-Q4	Don Frey

Data	Forecast	Network traffic forecast: 2019-24	2019-Q4	Nidhir Maudgalya
Data	Forecast	RAN revenue forecast	2020-Q2	Daryl Schoolar
Data	Forecast	SDN/NFV forecast	2020-Q2	Stephanie Gibbons

#### MARKET DATA

Data	Market Share	Market Share Spreadsheet: 1Q19 Data Center Interconnect (DCI)	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 1Q19 FTTX, DSL and CMTS (Revenues)	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 1Q19 FTTX, DSL and CMTS (Units)	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 1Q19 Optical Networking	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 1Q19 Optical Networking EMEA and AP subregional	2019-Q3	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 Data Center Interconnect (DCI)	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 FTTX, DSL and CMTS (Revenues)	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 FTTX, DSL and CMTS (Units)	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 Optical Networking	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 2Q19 Optical Networking EMEA and AP subregional	2019-Q4	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 Data Center Interconnect (DCI)	2020-Q1	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 FTTX, DSL and CMTS (Revenues)	2020-Q1	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 FTTX, DSL and CMTS (Units)	2020-Q1	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 Optical Networking	2020-Q1	Tanya Harris
Data	Market Share	Market Share Spreadsheet: 3Q19 Optical Networking EMEA and AP subregional	2020-Q1	Tanya Harris

#### REPORTS

Report	Market Report	RAN vendor 2019 market update	2019-Q3	Daryl Schoolar
Report	Market Report	Optimising spectrum use for 5G	2019-Q3	Julian Bright
Report	Market Report	Overview of NFV Market Update	2019-Q3	Stephanie Gibbons
Report	Market Report	Challenges in multivendor VNF onboarding and service function chaining (SFC)	2019-Q4	Stephanie Gibbons
Report	Market Report	Wireline access equipment quarterly (1Q-19)	2019-Q3	Jaimie Lenderman
Report	Market Report	Wireline access equipment quarterly (2Q-19)	2019-Q4	Jaimie Lenderman
Report	Trends Report	2020 Trends to Watch: Optical Networking	2019-Q4	Don Frey
Report	Trends Report	2020 Trends to Watch: RAN	2019-Q4	Daryl Schoolar
Report	Trends Report	2020 Trends to Watch: Fixed Access	2019-Q4	Julie Kunstler
Report	Trends Report	2020 Trends to Watch: SDN/NFV	2019-Q4	Stephanie Gibbons

#### TELECOMS & MEDIA TECHNOLOGY

##### FORECASTS

Data	Forecast	Telecoms IT spend forecast 2018-23	2019-Q4	Adaora Okeleke
Data	Forecast	Telecoms IT revenue forecast 2019-24	2019-Q4	Chantel Cary
Data	Forecast	Telecom vendor services forecast 2018-23	2019-Q4	Kris Szaniawski
Data	Forecast	Digital transformation ICT services forecast 2020-25	2020-Q2	Rishi Kaul
Data	Forecast	TV & Video Anti-Piracy Services forecast 2020-25	2020-Q2	Kedar Mohite
TRACKERS				
Data	Tracker	Telecom vendor services market share tracker	2019-Q3	Adaora Okeleke, Kris Szaniawski
REPORTS				
Report	Technology Report	Successful CSP strategies for Digital Transformation	2019-Q3	Kris Szaniawski
Report	Ovum Decision Matrix	ODM on Customer Engagement Platforms (CEPs) for Telecoms	2019-Q3	Adaora Okeleke
Report	Market Report	TV and video piracy detection and prevention	2019-Q3	Rishi Kaul
Report	Market Report	Digital Monetization in Telecoms	2019-Q4	Chantel Cary
Report	Trends Report	2020 Enterprise Insights in the Telecom Industry	2019-Q4	Adaora Okeleke
Report	Trends Report	2020 Trends to Watch: Telecom Operations & IT	2019-Q4	Kris Szaniawski
Report	Trends Report	ICT Enterprise Insights 2020 media technology report	2019-Q4	Kedar Mohite, Rishi Kaul
Report	Trends Report	2020 Trends to Watch: Media technology	2019-Q4	Kedar Mohite, Rishi Kaul

# Enterprise Verticals Research



## FINANCIAL SERVICES TECHNOLOGY

Data	Forecast	Wealth Management Technology Spending through 2023: Business Function	2019-Q3	Daniel Mayo
Data	Forecast	Wealth Management Technology Spending through 2023: Source Segmentation	2019-Q3	Daniel Mayo
Data	Forecast	Payments Technology Spending through 2023: Business Function	2019-Q3	Kieran Hines
Data	Forecast	Payments Technology Spending through 2023: Source Segmentation	2019-Q3	Kieran Hines

## TRACKERS

Data	Tracker	Banking Software Contracts Analytics: Q2 2019	2019-Q3	Daniel Mayo
Data	Tracker	Banking Software Contracts Analytics: Q3 2019	2019-Q4	Daniel Mayo

## REPORTS

Report	Technology Report	Platform-based Financial Services	2019-Q3	Charles Juniper
Report	Technology Report	AI and Digital Financial Services	2019-Q4	Charles Juniper
Report	Trends Report	2020 ICT Enterprise Insights in Retail Banking	2019-Q4	Daniel Mayo
Report	Trends Report	2020 ICT Enterprise Insights in Retail Payments	2019-Q4	Kieran Hines
Report	Trends Report	2020 ICT Enterprise Insights in Insurance	2019-Q4	Charles Juniper
Report	Trends Report	2020 Trends to Watch: Insurance	2019-Q4	Charles Juniper
Report	Trends Report	2020 Trends to Watch: Retail Banking	2019-Q4	Daniel Mayo
Report	Trends Report	2020 Trends to Watch: Retail Payments	2019-Q4	Kieran Hines

## PUBLIC SECTOR TECHNOLOGY

### FORECASTS

Data	Forecast	Government Technology Spending through 2023	2019-Q3	Richard Palmer
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### REPORTS

Report	Trends Report	2020 Trends to Watch: Higher Education	2019-Q4	Joyce Kim
Report	Trends Report	The Future of the Higher Education Ecosystem	2019-Q4	Richard Palmer
Report	Trends Report	2020 ICT Enterprise Insights in Higher Education	2019-Q4	Richard Palmer

# Enterprise Technology (IT) Research



## DATA & ENTERPRISE INTELLIGENCE

Report	Technology Report	Market update for artificial intelligence	2019-Q3	Tom Pringle
Report	Technology Report	How big data technologies can support customer experience	2019-Q3	Tony Baer
Report	Trends Report	Trends to Watch 2020: Analytics	2019-Q4	Tom Pringle
Report	Trends Report	Trends to Watch 2020: Big data	2019-Q4	Tony Baer
Report	Technology Report	Microsoft Azure Cloud Update	2020-Q1	Tony Baer
Report	Trends Report	The consolidation of data management and analytics: from source to insight	2020-Q1	Tom Pringle

## CUSTOMER ENGAGEMENT

Data	Forecast	Software Market Forecast: Enterprise Applications	2019-Q3	Jeremy Cox
Data	Forecast	Software Market Forecast: Workforce Optimization Technology	2019-Q3	Ken Landoline
Data	Forecast	Software Market Forecast: Global Contact Center Technology	2019-Q4	Ken Landoline

## REPORTS

Report	Technology Report	Advances in Customer Engagement Platforms	2019-Q3	Jeremy Cox
Report	Technology Report	Annual Contact Center Market/Technology Update	2019-Q3	Ken Landoline
Report	Technology Report	Ovum Market Radar: Marketing Optimization Platforms	2019-Q3	Mila D'Antonio
Report	Trends Report	Trends to Watch 2020: Customer Engagement Platforms	2019-Q4	Jeremy Cox
Report	Trends Report	Trends to Watch 2020: Contact Centers	2019-Q4	Ken Landoline
Report	Trends Report	Trends to Watch 2020: Customer Engagement	2019-Q4	Mila D'Antonio
Report	Market Report	The Role of Ethics in the Evolution of Customer Personalization	2020-Q1	Ken Landoline
Report	Market Report	The growing demand for conversational AI and analysis of future market development	2020-Q1	Mila D'Antonio

## FORECASTS

Data	Forecast	Software Market Forecast: IT Management Software	2019-Q3	Alan Rodger
Data	Forecast	Software Market Forecast: Security	2019-Q3	Rik Turner
Data	Forecast	Software Market Forecast: Global Contact Center Technology	2019-Q4	Ken Landoline
Data	Forecast	Software Market Forecast: Infrastructure Software	2019-Q4	Roy Illsley
Data	Forecast	Software Market Forecast: Integration Technology	2019-Q4	Saurabh Sharma

## REPORTS

Report	Ovum Evaluation Report	Middleware-as-a-Service (MWaaS) suites for hybrid integration: 2019-20	2019-Q3	Saurabh Sharma
Report	Ovum Evaluation Report	Cloud service providers (previously IaaS)	2019-Q3	Roy Illsley
Report	Technology Report	Cybersecurity frameworks and models	2019-Q3	Maxine Holt
Report	Technology Report	AI/machine learning (ML) lifecycle management	2019-Q3	Michael Azoff
Report	Ovum Evaluation Report	Ovum Market Radar: AI-powered Virtual Assistants	2019-Q3	Michael Azoff
Report	Trends Report	Trends to Watch 2020: Governance, Risk, Compliance	2019-Q4	Alan Rodger
Report	Trends Report	Trends to Watch 2020: Cloud-Native Computing	2019-Q4	Michael Azoff
Report	Trends Report	Trends to Watch 2020: Cybersecurity	2019-Q4	Rik Turner
Report	Trends Report	Trends to Watch 2020: Cloud computing	2019-Q4	Roy Illsley
Report	Trends Report	Trends to Watch 2020: Integration, BPM & RPA	2019-Q4	Saurabh Sharma
Report	Technology Report	IaaS and PaaS Security - from VMs to containers, serverless and beyond	2019-Q4	Rik Turner
Report	Trends Report	Trends to Watch 2020: Machine Intelligence	2020-Q1	Michael Azoff
Report	Trends Report	Trends to Watch 2020: Blockchain	2020-Q1	Saurabh Sharma
Report	Ovum Evaluation Report	Hyper-converged infrastructure – how the edge is driving adoption	2020-Q1	Roy Illsley

## ENTERPRISE ICT MANAGEMENT

### REPORTS

Report	Enterprise User Report	Rethinking the value chain for IT	2019-Q3	Enterprise ICT Team
Report	Ovum Evaluation Report	Enterprise Architecture Planning Solutions	2019-Q3	Enterprise ICT Team
Report	Enterprise User Report	2020 Trends to Watch: CIO	2019-Q4	Enterprise ICT Team

## CYBERSECURITY ACCELERATOR

### REPORTS

Report	Technology Report	Fundamentals of Next-generation Firewalls	2019-Q3	Eric Parizo
Report	Technology Report	Security tool consolidation in 2020: Aspiration or reality?	2020-Q1	Maxine Holt
Report	Technology Report	A single cloud security platform for VMs, containers and serverless	2020-Q1	Rik Turner

# Data Tools



## SURVEY INTELLIGENCE

Data	Survey	ICT Enterprise Insights 2019/2020 – Global	2019-Q4	Data & Tools Team
Data	Survey	ICT Enterprise Insights 2019/2020 – Asia-Pacific	2019-Q4	Data & Tools Team
Data	Survey	ICT Enterprise Insights 2019/2020 – Americas	2019-Q4	Data & Tools Team
Data	Survey	ICT Enterprise Insights 2019/2020 – Financial Services & Payments	2019-Q4	Data & Tools Team
Data	Survey	ICT Enterprise Insights 2019/2020 – Telecoms & Media	2019-Q4	Data & Tools Team
Data	Survey	ICT Enterprise Insights 2019/2020 – Public Services	2019-Q4	Data & Tools Team

## ICT SPENDING

Data	Spend Intelligence	ICT Spend Predictor – Americas Q3, 2019 Update	2019-Q3	Data & Tools Team
Data	Spend Intelligence	ICT Spend Predictor – Americas Q4, 2019 Update	2019-Q4	Data & Tools Team
Data	Spend Intelligence	ICT Spend Predictor – Americas Q1, 2020 Update	2020-Q1	Data & Tools Team
Data	Spend Intelligence	ICT Spend Predictor – EMEA & Asia-Pacific Q3, 2019 Update	2019-Q3	Data & Tools Team
Data	Spend Intelligence	ICT Spend Predictor – EMEA & Asia-Pacific Q4, 2019 Update	2019-Q4	Data & Tools Team
Data	Spend Intelligence	ICT Spend Predictor – EMEA & Asia-Pacific Q1, 2020 Update	2020-Q1	Data & Tools Team
Data	Spend Intelligence	ICT Sales Prospector – Q3, 2019 Update	2019-Q3	Data & Tools Team
Data	Spend Intelligence	ICT Sales Prospector – Q4, 2019 Update	2019-Q4	Data & Tools Team
Data	Spend Intelligence	ICT Sales Prospector – Q1, 2020 Update	2020-Q1	Data & Tools Team
Data	Spend Intelligence	Enterprise ICT Spend & Staffing Metrics 2020	2020-Q1	Data & Tools Team
Data	Spend Intelligence	ICT Sales Prospector – Q2, 2020 Update	2020-Q2	Data & Tools Team

## CONTRACTS DATA

Data	Tracker	IT Services Contracts Analytics – Q3, 2019 Updates	2019-Q3	Data & Tools Team
Data	Tracker	IT Services Contracts Analytics – Q4, 2019 Updates	2019-Q4	Data & Tools Team
Data	Tracker	IT Services Contracts Analytics – Q1, 2020 Updates	2020-Q1	Data & Tools Team
Data	Tracker	IT Services Contracts Analytics – Q2, 2020 Updates	2020-Q2	Data & Tools Team