

September 2023



Analysys Mason DataHub: introduction to key features and content overview



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Research Director



The DataHub, our database tool, enables clients to access our key data products from a single online portal

80+ countries, 8 regions, worldwide



'Telco' portal: around 3000 metrics in the actuals (300) and forecasts (2700) tabs



'Telco actuals' updated quarterly
'Telco forecasts' once a year



Actuals: around 600 operators, normalised and as-reported data (including financial KPIs for Groups)



'Telco forecasts' for core, IoT, business services, pay-TV metric sets and more



'SMB Technology Forecaster' portal: 120 000+ metrics on business spend on 130+ ICT categories



Key

TELCO Actuals

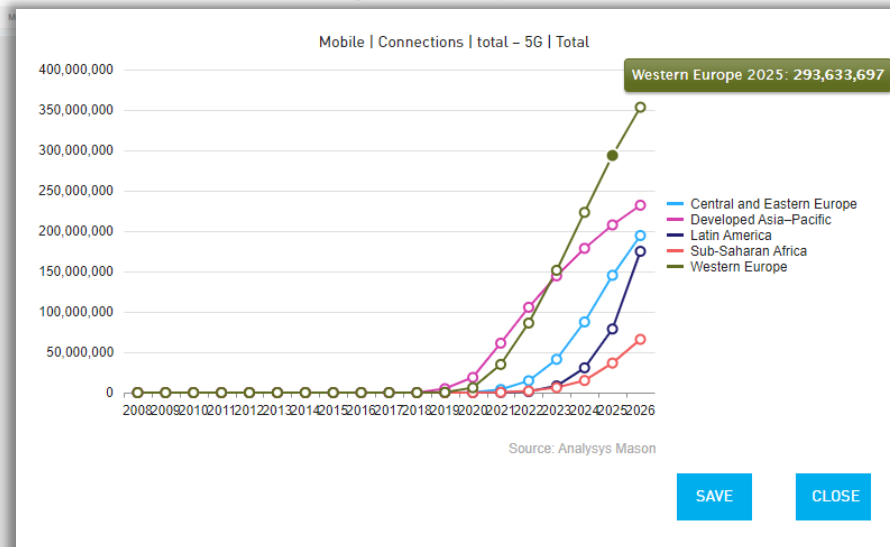
TELCO Forecasts

SMB Technology Forecaster

16 RESULTS 3 countries, 2008-2030, 2 metrics

Options: USD current Rounded

Network	Metric type	Metric	Segment	Info	Geography	Unit	Chart	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
<input type="checkbox"/> Mobile	Connections	total - 5G	Total		NA	(k)	Line	1	3,775	39,605	110,802	179,288	252,067	316,733	367,828	407,273	437,233
<input checked="" type="checkbox"/> Mobile	Connections	total - 5G	Total		LATAM	(k)	Line	0	0	27	146	1,256	8,260	35,686	78,790	174,896	
<input checked="" type="checkbox"/> Mobile	Connections	total - 5G	Total		WE	(k)	Line	0	357	6,075	34,895	86,128	151,451	223,162	293,034	353,368	
<input checked="" type="checkbox"/> Mobile	Connections	total - 5G	Total		CEE	(k)	Line	0	54	520	3,773	14,648	41,200	87,506	145,210	194,487	
<input checked="" type="checkbox"/> Mobile	Connections	total - 5G	Total		DVAP	(k)	Line	0	4,854	18,765	61,201	105,623	144,554	178,606	207,629	232,020	
<input type="checkbox"/> Mobile	Connections	total - 5G	Total		EMAP	(k)	Line	0	10,488	321,597	737,022	958,156	1,261,762	1,594,250	1,967,726	2,305,432	
<input type="checkbox"/> Mobile	Connections	total - 5G	Total		MENA	(k)	Line	0	249	1,661	6,902	23,627	46,196	79,534	121,947	168,943	223,167
<input checked="" type="checkbox"/> Mobile	Connections	total - 5G	Total		SSA	(k)	Line	0	0	67	330	1,949	6,247	14,983	26,572	65,927	
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		NA	%	Line	0.0%	0.9%	9.3%	25.2%	39.9%	55.0%	68.0%	77.9%	85.2%	90.5%
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		LATAM	%	Line	0.0%	0.0%	0.0%	0.0%	0.2%	1.2%	4.3%	11.1%	24.5%	
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		WE	%	Line	0.0%	0.1%	1.1%	6.5%	15.9%	27.8%	41.0%	54.1%	65.1%	
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		CEE	%	Line	0.0%	0.0%	0.1%	0.7%	2.7%	7.7%	16.3%	27.0%	36.3%	
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		DVAP	%	Line	0.0%	1.5%	6.0%	19.6%	33.7%	45.8%	56.4%	65.4%	73.1%	
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		EMAP	%	Line	0.0%	0.3%	8.4%	19.0%	23.9%	30.7%	37.9%	45.8%	52.8%	
<input type="checkbox"/> Mobile	Connections	total - 5G share	Total		MENA	%	Line	0.0%	0.1%	0.3%	1.3%	4.2%	8.0%	13.5%	20.3%	27.6%	35.8%



Export to Excel for further analysis



On-screen charts, easy comparisons



Save and re-load searches



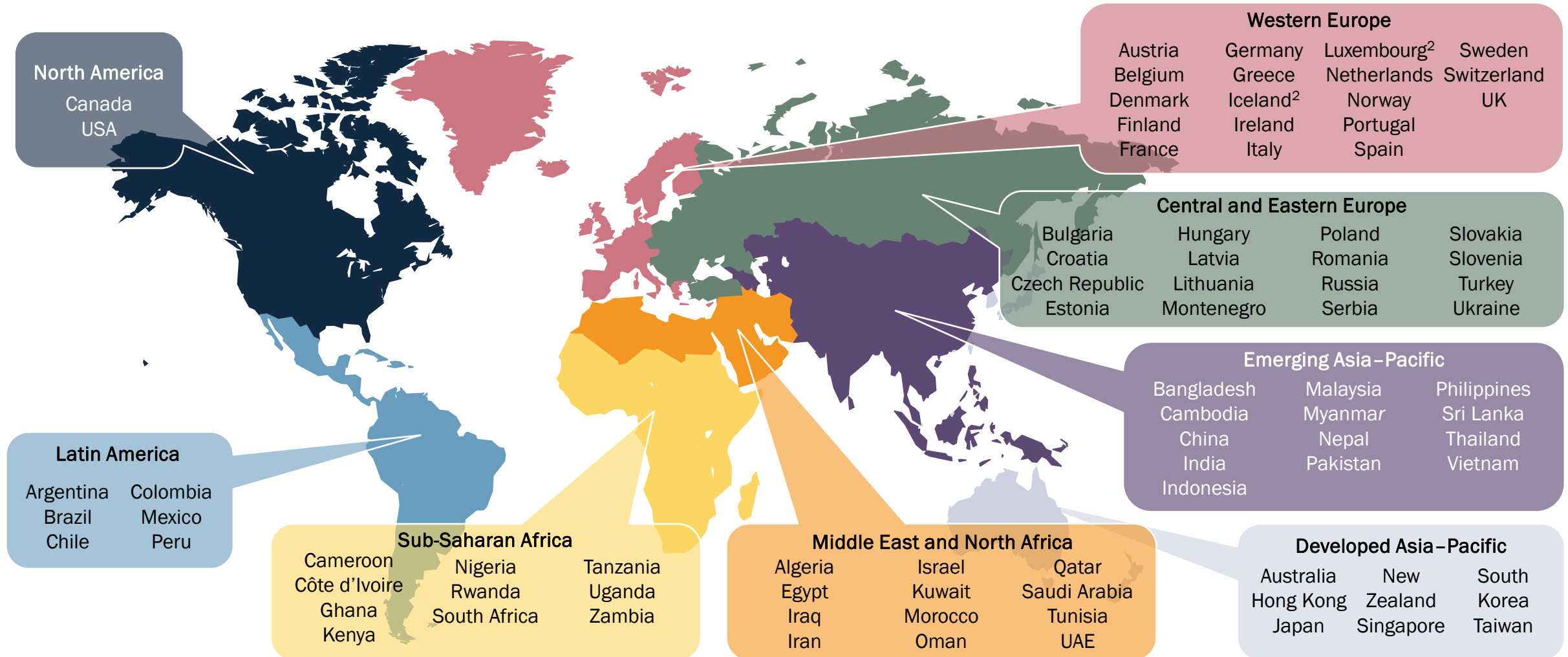
On-screen currency conversion



On-screen definitions and update dates

Geographical coverage: more than 80 countries in 8 regions, regional totals and worldwide results

Geographical coverage of Analysys Mason DataHub, September 2023



¹ This shows all the countries/regions represented in the DataHub. Different datasets in each portal have different country coverage. This is articulated in the 'List of metrics', which can be downloaded from the 'About the DataHub' menu on the [DataHub](#) platform. ² Iceland and Luxembourg are primarily SMB Technology Forecaster (STF) countries, and a small set of historical data is available for Iceland in the 'Telco actuals' tab.

DataHub inputs come from a range of research programmes



Consumer Services

Fixed Broadband Services
Mobile Services
Fixed-Mobile Convergence
Smart Devices
Future Comms
Video, Gaming and Entertainment



Networks

Next-Generation Wireless Networks
Wireless Infrastructure Strategies
Fibre Infrastructure Strategies
Operator Investment Strategies
Telecoms Strategy and Forecast
Transport Network Strategies



Applications

Network Automation and Orchestration
Customer Engagement
Monetisation Platforms
Digital Experience
Automated Assurance
Service Design and Orchestration
Telecoms Software Market Shares

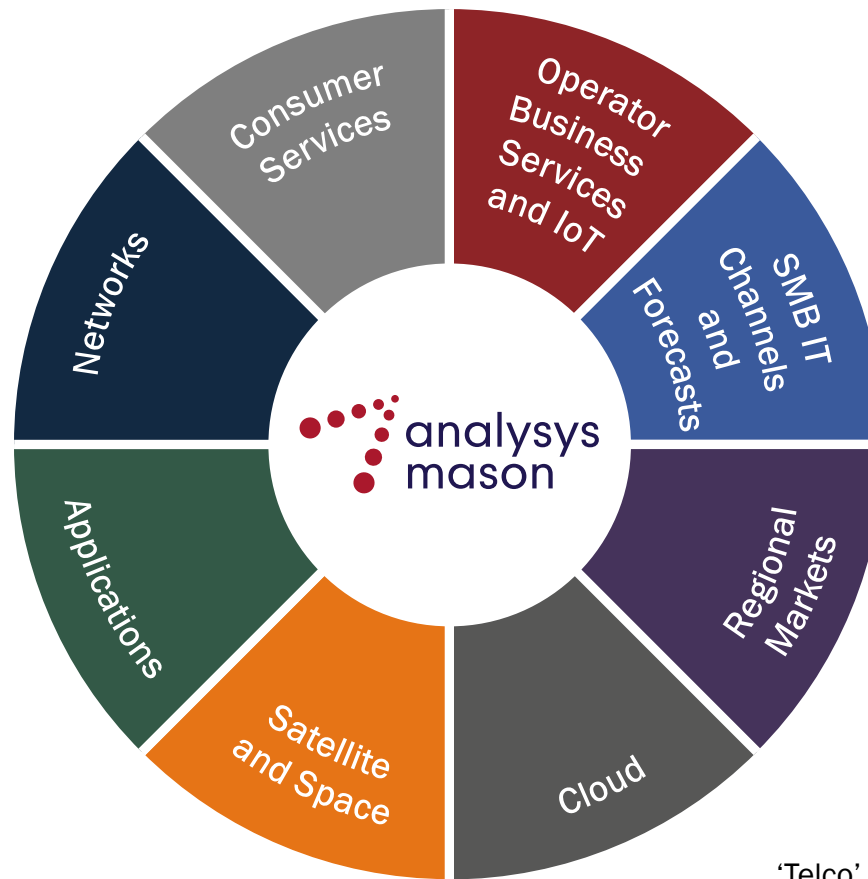


Satellite and Space

Satellite Strategies for Telcos

Key

Coloured, shaded areas indicate those research programmes that have datasets in the DataHub.



Operator Business Services and IoT

Enterprise Services
SME Services
IoT Services
Private Networks
Cyber Security



SMB IT Channels and Forecasts

SMB Technology Forecaster



Regional Markets

Global Telecoms Data and Financial KPIs
Americas
Asia-Pacific
Middle East and Africa
European Core Forecasts
European Telecoms Market Matrix
European Country Reports



Cloud

Cloud Infrastructure Strategies
Data, AI and Development Platforms
Edge and Media Platforms
Multi-Cloud Networking



DataHub

Forecast data for 80 countries
'Telco' portal: ~2800 forecast and ~320 historical metrics
'SMB Technology Forecaster' portal: ~120 000 forecast metrics



The DataHub has two main sections (portals): 'Telco' and 'SMB Technology forecaster'

1

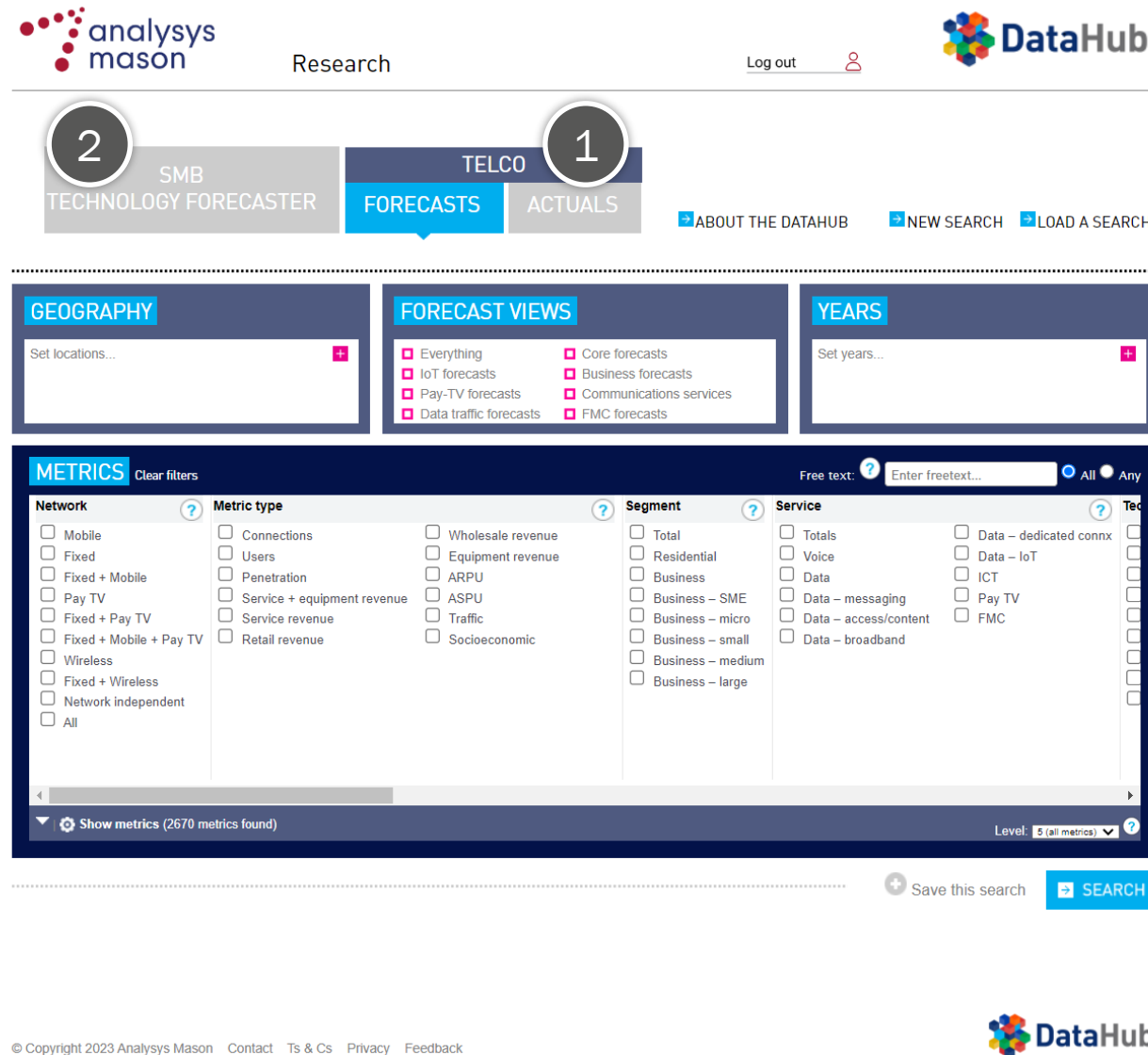
TELCO

Telco

This portal has the following two tabs, which provide access to data that captures the activity of telecommunications operators in over 80 markets.

The **'Telco forecasts'** tab contains coherent sets of data that run from 2008 to 5 or more years into the future. They are compiled annually at a fixed point in time and therefore may not contain the most recently available data.

The **'Telco actuals'** tab contains historical data from 4Q 2003, with quarterly, half-yearly and operator data available for many metrics. The most recent data can be found in the quarterly and half-yearly results.



2

STF

SMB Technology Forecaster (new as of September 2023)

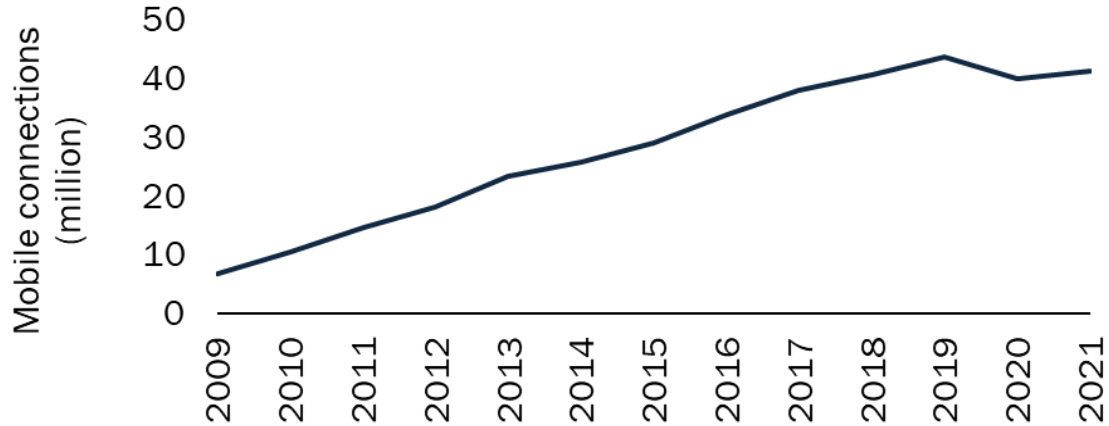
This portal contains forecasts of business spending on ICT in around 60 markets.

The data covers over 130 ICT categories, and spend is further split by business size, industry vertical and route to market.

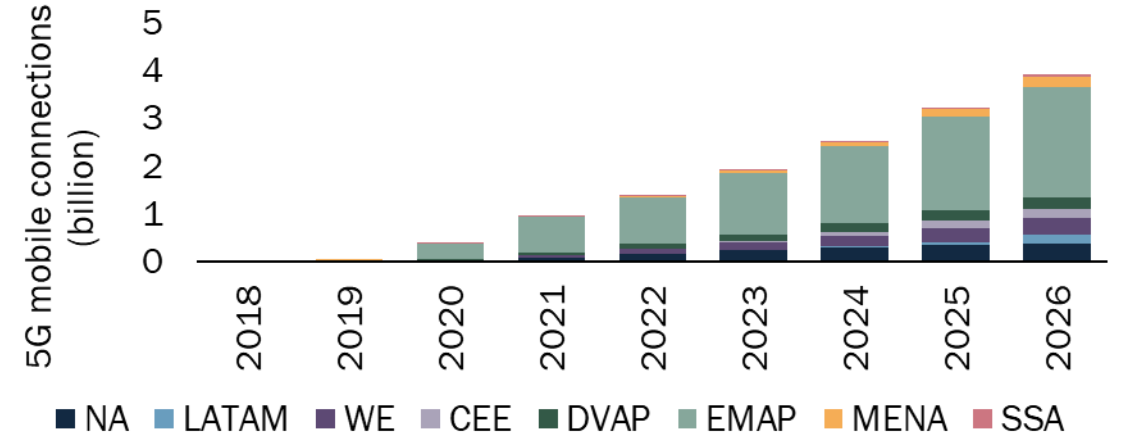
These forecasts are updated annually.

What kind of questions can DataHub's 'Telco' dataset address?

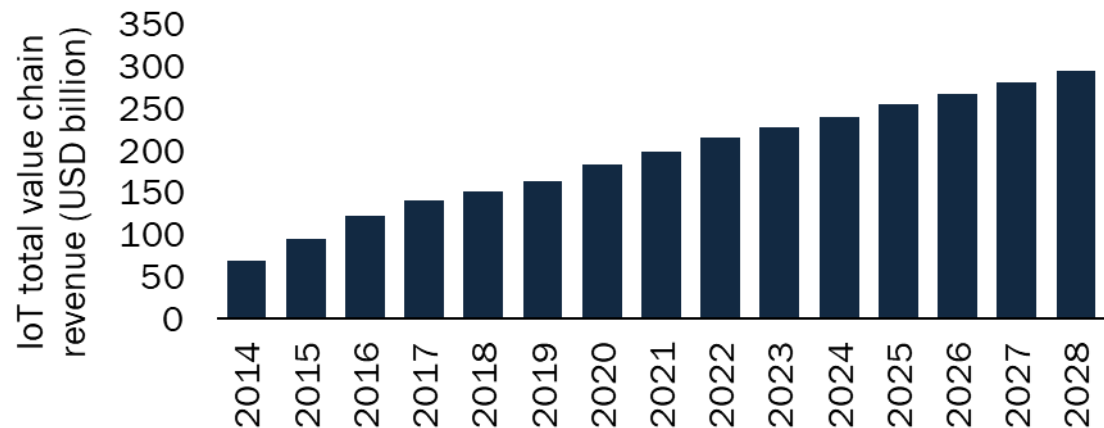
What was the impact of COVID-19 on telecoms revenue?



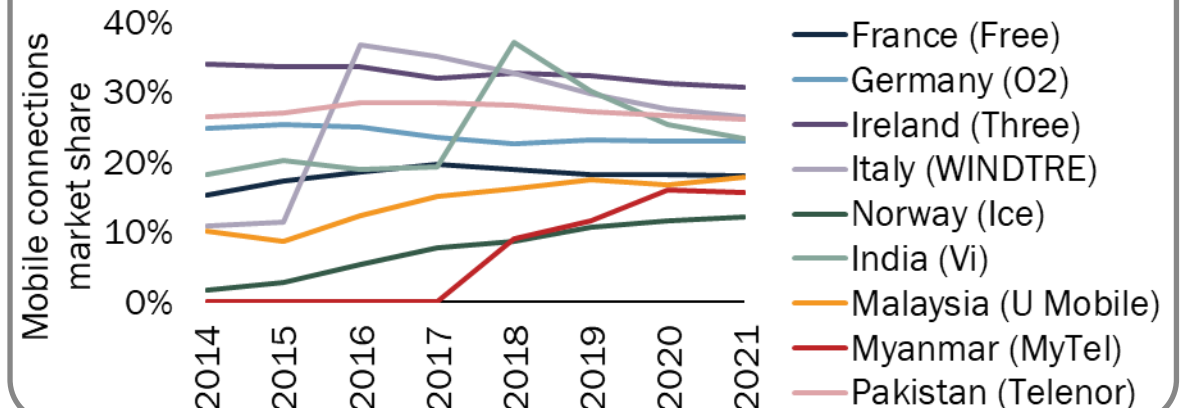
When and where will 5G be deployed?



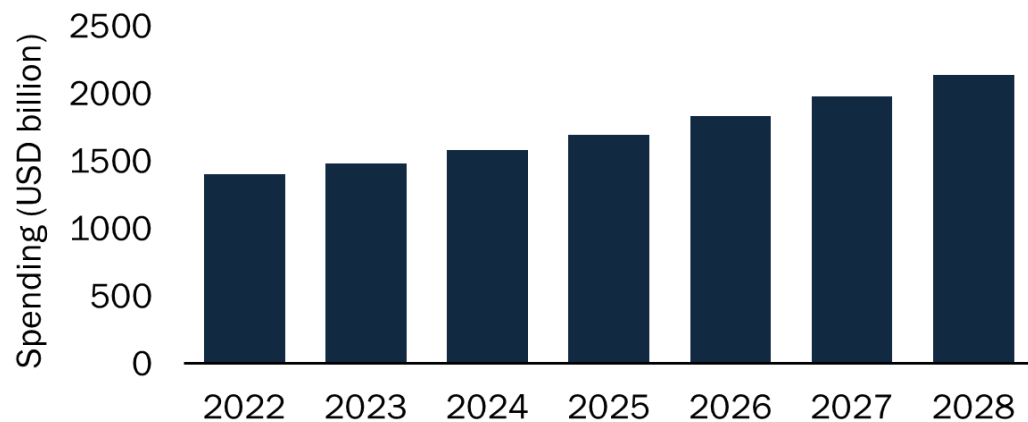
How big will the IoT opportunity be?



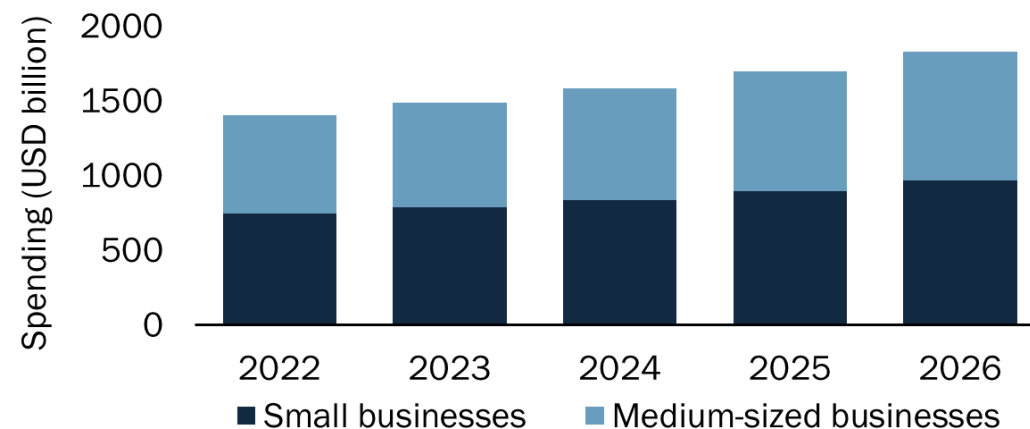
When do fourth-entrant mobile operators gain a sizeable market share?



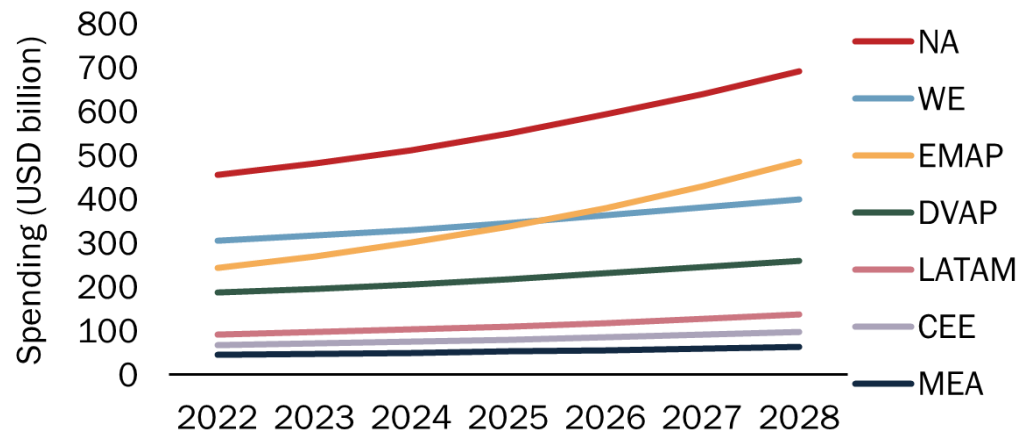
How are current events impacting SMBs’ IT spending?



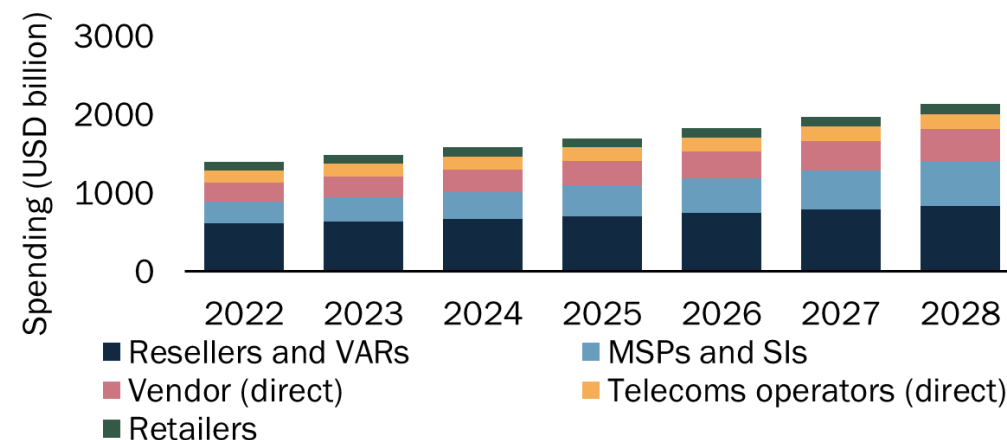
What are the top spending business segments?



What are the top target geographies?



What are the most preferred channels for IT purchases?



Key concepts: overview

The screenshot shows the DataHub interface with the following elements:

- Header:** analysys mason Research, Log out, DataHub logo.
- Navigation:** SMB TECHNOLOGY FORECASTER, TELCO FORECASTS, ACTUALS.
- Geography:** Set locations... (with a '+' icon).
- Operators:** Set operators... (with a '+' icon).
- Metrics:** Clear filters, Free text search, Enter freetext..., All, Any.
- Filters:**
 - Network:** Mobile, Fixed, Fixed + Mobile, Pay TV, Fixed + Pay TV, Fixed + Mobile + Pay TV, Network independent, All.
 - Metric type:** Connections, Connx - mkt shr, Users, Users - market share, Penetration, Service + equipment revenue, Service revenue, Service rev - mkt shr, Retail revenue, Retail rev - mkt shr, Wholesale revenue, Equipment revenue, Financial KPIs, ARPU, ASPU, Traffic, Traffic - mkt shr, Socioeconomic.
 - Service:** Totals, Voice, Data, Data - messaging, Data - access/content, Data - broadband.
 - Technology:** Totals, 2G, 3G, 4G, 5G, Circuit-switched, Narrowband.
- Annotations:**
 - 1:** Points to the 'ABOUT THE DATAHUB' menu, which includes: Using the DataHub (Getting started, My access rights, User guide, Video demonstration), Current data specification (Version log, List of metrics, Exchange rates), and Other (An introduction to the DataHub, Terms of use, Feedback).
 - 2:** Points to the 'LOAD A SEARCH' button.

1

About the DataHub

Important information about the DataHub and the data you can see..

- The 'new data' icon (i) shows if data has recently been refreshed.
- 'My access rights' gives details of your current subscription.
- The 'Version log' shows the latest update information, including the latest version of Telco forecasts and actuals..

DataHub version log - publication date 30 September 2023

Latest 'Telco' core forecast versions	Publication date	Based on historical data up to:	Status	Latest 'Telco' actuals	Publication date	Based on historical data up to:	Status
Worldwide	07 Sep 2023	1Q 2022	Refreshed	Financial KPIs (all regions)	07 Sep 2023	2Q 2023	NEW
Developed Asia-Pacific	07 Sep 2023	1Q 2023	NEW	Developed Asia-Pacific	07 Sep 2023	1Q 2023	Refreshed
North America	07 Sep 2023	1Q 2022	Refreshed	Sub-Saharan Africa	07 Sep 2023	1Q 2023	Refreshed
Latin America	07 Sep 2023	3Q 2022	Refreshed	North America	31 Jul 2023	1Q 2023	
Emerging Asia-Pacific	07 Sep 2023	2Q 2022	Refreshed	Latin America	31 Jul 2023	1Q 2023	
Middle East and North Africa	07 Sep 2023	4Q 2022	Refreshed	Emerging Asia-Pacific	31 Jul 2023	1Q 2023	
Sub-Saharan Africa	07 Sep 2023	3Q 2022	Refreshed	Middle East and North Africa	10 Jul 2023	1Q 2023	
Central and Eastern Europe	22 Jun 2023	2Q 2022		Central and Eastern Europe	30 Jun 2023	1Q 2023	
Western Europe	21 Jun 2023	2Q 2022		Western Europe	21 Jun 2023	1Q 2023	

*Telco' core and topic forecasts have different update cycles. These publication dates reflect the latest changes to 'Telco' core forecasts. Please refer to the [List of metrics](#) for full details of update versions. *Refreshed" indicates a minor change to an existing dataset, whilst "NEW" indicates a full new version.

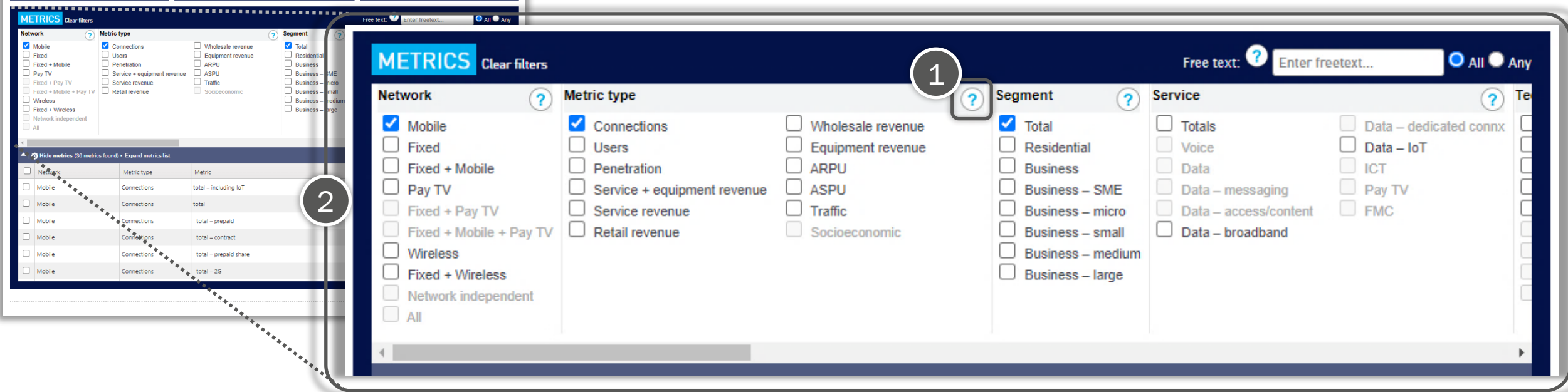
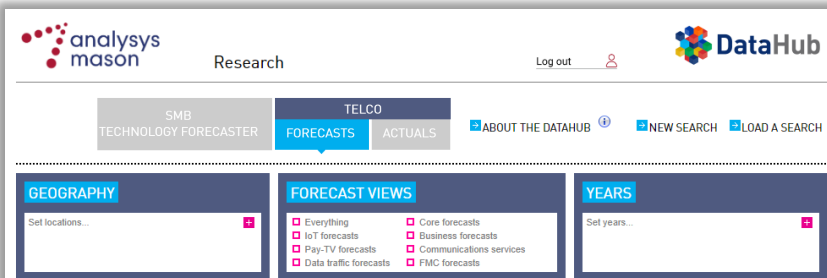
- The 'List of metrics' provides a full inventory of all the data available in the DataHub (including datasets not currently in your subscription).
- Information on how to use the DataHub, including 'Getting Started', a video demonstration, as well as the downloadable 'User Guide' and information pack 'What is the DataHub?'.

2

Load a search

Reuse a saved search (countries, operators, metrics, years).

Key concepts: filters – an example from the ‘Telco’ portal



1 On-screen help gives definitions and details of our taxonomy.

2 Dynamic filtering: find the metrics that you need by filtering on key identifiers.

Key concepts: metrics selector – an example from the ‘Telco’ portal

The screenshot shows the 'analysys mason Research' interface for the 'TELCO' portal. It features a 'FORECASTS' tab and a 'METRICS' section. The 'METRICS' section includes a 'Show metrics (36 metrics found) - Expand metrics list' dropdown. The metrics are organized into a table with columns: Network, Metric type, Metric, Segment, Info, and Country. The 'Metric' column is annotated with a '1' indicating tiered metric names. The 'Country' column is annotated with a '2' indicating a country count. The 'Info' column is annotated with a '3' indicating a 'Save this search' button.

Network	Metric type	Metric	Segment	Info	Country
<input type="checkbox"/> Network					
<input type="checkbox"/> Mobile	Connections	total – including IoT	Total	?	93
<input type="checkbox"/> Mobile	Connections	total	Total	?	93
<input type="checkbox"/> Mobile	Connections	total – prepaid	Total	?	93
<input type="checkbox"/> Mobile	Connections	total – contract	Total	?	93
<input type="checkbox"/> Mobile	Connections	total – prepaid share	Total	?	93
<input type="checkbox"/> Mobile	Connections	total – 2G	Total	?	93

Annotations:

- 1: Tiered metric names make our taxonomy clear.
- 2: A country count makes it easy to see how much data is available.
- 3: The 'Save this search' function allows you to easily repeat regular searches.

1 Tiered metric names make our taxonomy clear.

2 A country count makes it easy to see how much data is available.

3 The 'Save this search' function allows you to easily repeat regular searches.

Key concepts: selecting geographies – an example from the ‘Telco’ portal


The screenshot shows the 'Telco' portal interface with the following components and callouts:

- Callout 1:** Points to the 'GEOGRAPHY' section on the left, which includes a 'Set locations...' input field and a '+' button.
- Callout 2:** Points to the 'SELECT REGIONS OR COUNTRIES TO FILTER' section, which displays a grid of checkboxes for various regions and countries.
- Callout 3:** Points to the 'RESULTS BY:' section, which includes links for 'Select all', 'Clear', and 'Select all regional totals'.
- Callout 4:** Points to a tooltip that appears when hovering over the 'Regional total' text for Latin America. The tooltip lists the following markets: Anguilla, Antigua and Barbuda, Netherlands Antilles, Aruba, Bahamas, Barbados, Belize, Bermuda, Bolivia, Bonaire, Sint Eustatius and Saba, Cayman Islands, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Falkland Islands (Malvinas), French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Montserrat, Nicaragua, Panama, Paraguay, Puerto Rico, Saint Barthélemy, Sint Maarten/St. Martin, St Kitts and Nevis, St Lucia, St Vincent and the Grenadines, Suriname, Trinidad and Tobago, Turks and Caicos Islands, Uruguay, Venezuela, British Virgin Islands and US Virgin Islands.
- Callout 5:** Points to the 'APPLY FILTERS' button at the bottom right of the interface.


- 1 Tick the boxes to select the appropriate countries and/or regions.
- 2 Click on the region name to select all countries in the region, plus the regional total.
- 3 Quick controls allow you to select all, clear your selection and select regional totals only.
- 4 Hover over the regional total text to see a complete list of countries included.
- 5 The 'Apply filters' button stores your selection and returns you to the main portal page.

Notes


- If no geographies are chosen, your search will return results for all countries and regions that are available.
- Countries/regions not included in your subscription will be greyed out.




Key concepts: selecting a time period (optional) – an example from the ‘Telco’ portal



Research


Log out 




SMB
TECHNOLOGY FORECASTER

TELCO
FORECASTS

ACTUALS

[ABOUT THE DATAHUB](#) [NEW SEARCH](#)[LOAD A SEARCH](#)

GEOGRAPHY

Set locations... 

FORECAST VIEWS

☐ Everything

☐ IoT forecasts

☐ Pay-TV forecasts

☐ Data traffic forecasts


☐ Core forecasts

☐ Business forecasts

☐ Communications services




☐ FMC forecasts

YEARS

Set years... 

METRICS

Clear filters

Free text:  Enter freetext...  All  A

Network

☐ Mobile

☐ Fixed

☐ Fixed + Mobile

☐ Pay TV

☐ Fixed + Pay TV

☐ Fixed + Mobile + Pay TV

☐ Wireless

☐ Fixed + Wireless

☐ Network independent

☐ All

Metric type

☐ Connections

☐ Users

☐ Penetration

☐ Service + equipment revenue

☐ Service revenue

☐ Retail revenue

☐ Wholesale revenue

☐ Equipment revenue

☐ ARPU

☐ Traffic

☐ Socioeconomic

Segment

☐ Total

☐ Residential

☐ Business

☐ Business – SME

☐ Business – micro

☐ Business – small

☐ Business – medium

☐ Business – large

Service

☐ Totals

☐ Voice

☐ Data

☐ Data – messaging

☐ Data – access/content

☐ Data – broadband


☐ Data – dedicated connx


☐ Data – IoT


☐ ICT


☐ Pay TV

☐ FMC

 Show metrics (2670 metrics found)

Level: 5 (all metrics) 

 Save this search

 SEARCH

Note

If no years are chosen, your search will return results for all years that are available.

SELECT YEARS TO FILTER YOUR RESULTS BY:

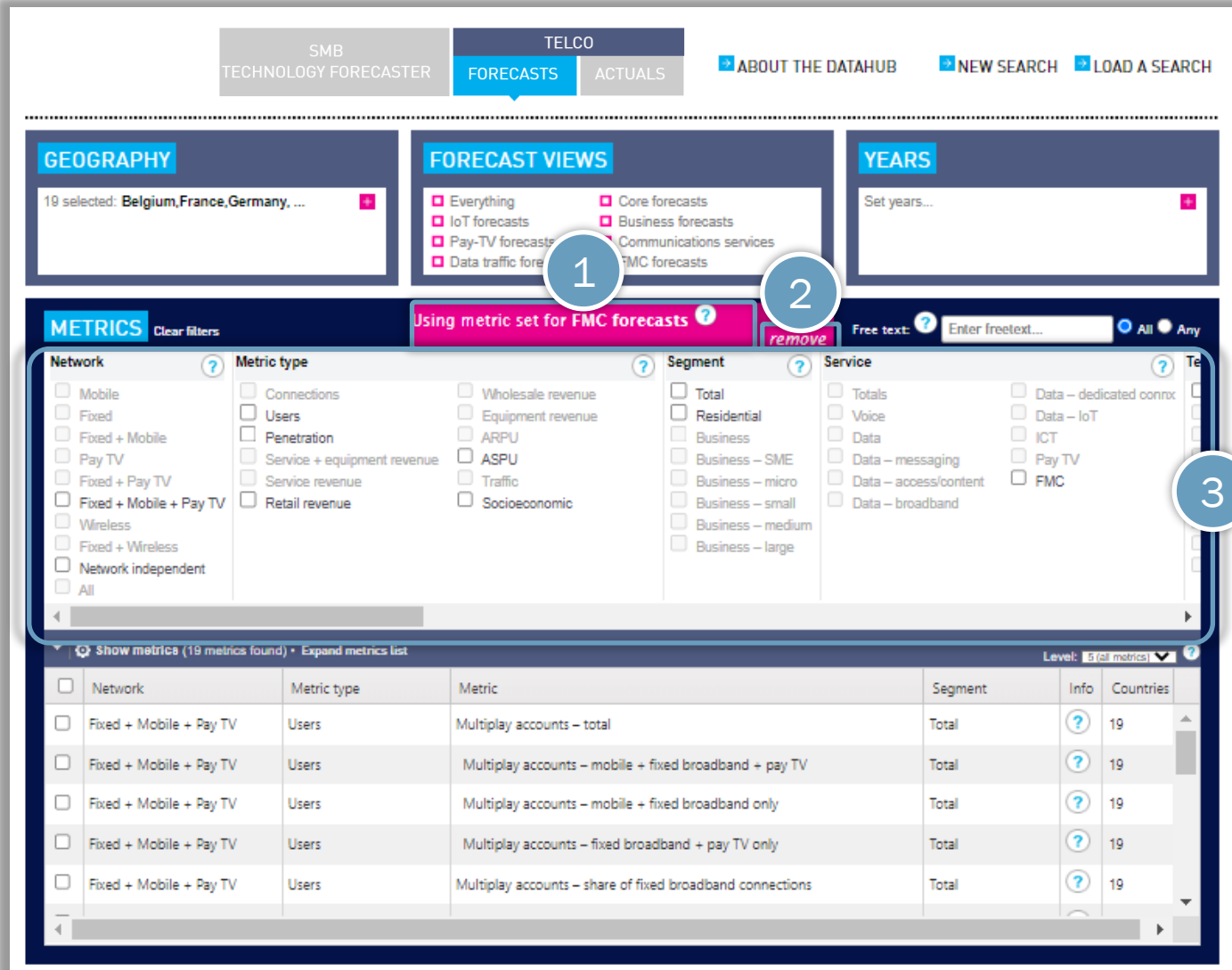
Quick select [2018-2027](#) [2022-2027](#) [2022-2031](#) [Select all](#) [Clear](#)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> 2003 | <input type="checkbox"/> 2011 | <input type="checkbox"/> 2019 | <input type="checkbox"/> 2027 |
| <input type="checkbox"/> 2004 | <input type="checkbox"/> 2012 | <input type="checkbox"/> 2020 | <input type="checkbox"/> 2028 |
| <input type="checkbox"/> 2005 | <input type="checkbox"/> 2013 | <input type="checkbox"/> 2021 | <input type="checkbox"/> 2029 |
| <input type="checkbox"/> 2006 | <input type="checkbox"/> 2014 | <input type="checkbox"/> 2022 | <input type="checkbox"/> 2030 |
| <input type="checkbox"/> 2007 | <input type="checkbox"/> 2015 | <input type="checkbox"/> 2023 | <input type="checkbox"/> 2031 |
| <input type="checkbox"/> 2008 | <input type="checkbox"/> 2016 | <input type="checkbox"/> 2024 | <input type="checkbox"/> 2032 |
| <input type="checkbox"/> 2009 | <input type="checkbox"/> 2017 | <input type="checkbox"/> 2025 | <input type="checkbox"/> 2033 |
| <input type="checkbox"/> 2010 | <input type="checkbox"/> 2018 | <input type="checkbox"/> 2026 | <input type="checkbox"/> 2034 |

For data prior to 2008 please refer to the Actuals portal.

CANCEL  APPLY FILTERS

Key concepts: 'Telco forecast' views



The screenshot shows the DataHub TELCO interface with the following components:

- Navigation:** SMB TECHNOLOGY FORECASTER, TELCO FORECASTS, ACTUALS, ABOUT THE DATAHUB, NEW SEARCH, LOAD A SEARCH.
- GEOGRAPHY:** 19 selected: Belgium, France, Germany, ...
- FORECAST VIEWS:**
 - Everything, IoT forecasts, Pay-TV forecasts, Data traffic forecasts, Core forecasts, Business forecasts, Communications services, FMC forecasts.
- YEARS:** Set years...
- METRICS:** Clear filters, Using metric set for FMC forecasts, remove, Free text: Enter freetext..., All, Any.
- Filters:**
 - Network:** Mobile, Fixed, Fixed + Mobile, Pay TV, Fixed + Pay TV, Fixed + Mobile + Pay TV, Wireless, Fixed + Wireless, Network independent, All.
 - Metric type:** Connections, Users, Penetration, Service + equipment revenue, Service revenue, Retail revenue.
 - Segment:** Total, Residential, Business, Business - SME, Business - micro, Business - small, Business - medium, Business - large.
 - Service:** Totals, Voice, Data, Data - messaging, Data - access/content, Data - broadband, Data - dedicated connx, Data - IoT, ICT, Pay TV, FMC.
- Table:**

Show metrics (19 metrics found) • Expand metrics list

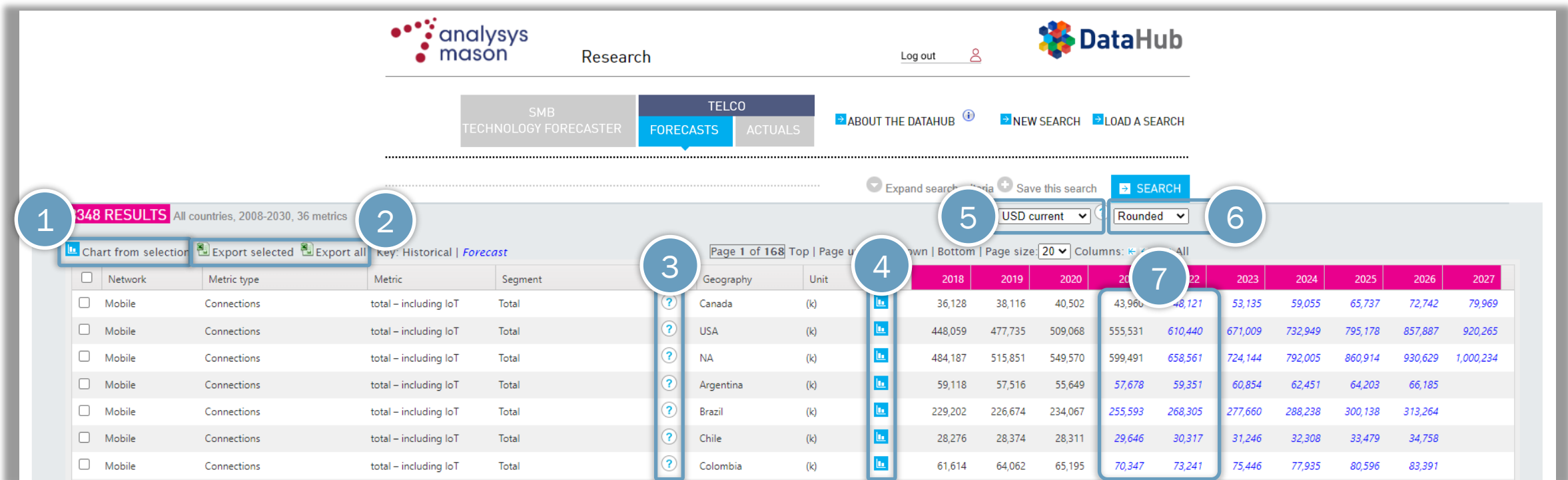
Network	Metric type	Metric	Segment	Info	Countries
<input type="checkbox"/> Fixed + Mobile + Pay TV	Users	Multiplay accounts – total	Total	?	19
<input type="checkbox"/> Fixed + Mobile + Pay TV	Users	Multiplay accounts – mobile + fixed broadband + pay TV	Total	?	19
<input type="checkbox"/> Fixed + Mobile + Pay TV	Users	Multiplay accounts – mobile + fixed broadband only	Total	?	19
<input type="checkbox"/> Fixed + Mobile + Pay TV	Users	Multiplay accounts – fixed broadband + pay TV only	Total	?	19
<input type="checkbox"/> Fixed + Mobile + Pay TV	Users	Multiplay accounts – share of fixed broadband connections	Total	?	19

1 Describes the subset of 'Telco forecast' data that is currently being viewed based on the selection from the 'forecast views' box.

2 Remove this view by clicking 'remove'.

3 Only the relevant metrics and geographies are shown; filters are rearranged to show those relevant to each data set.

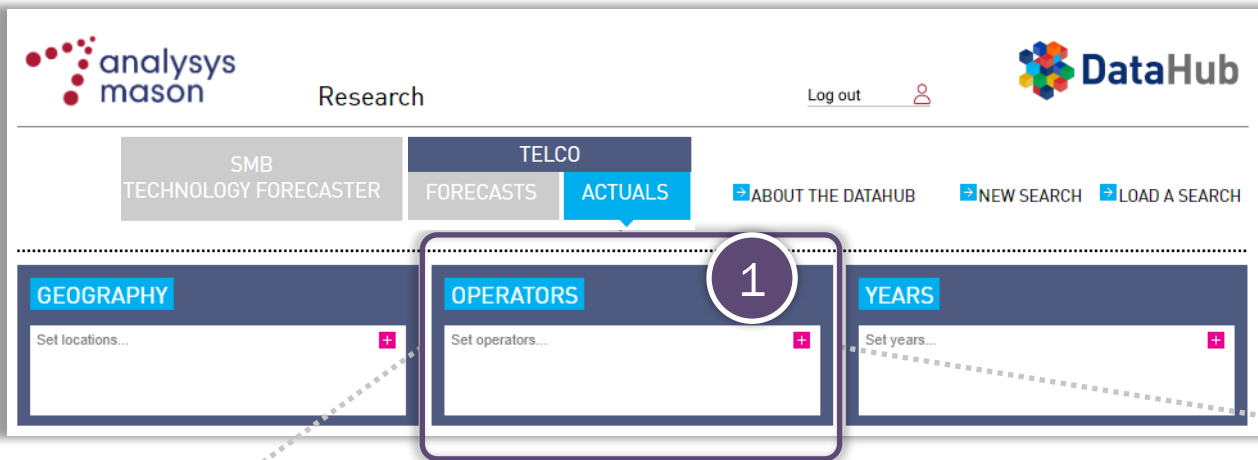
Key concepts: forecast results – an example from the ‘Telco’ portal



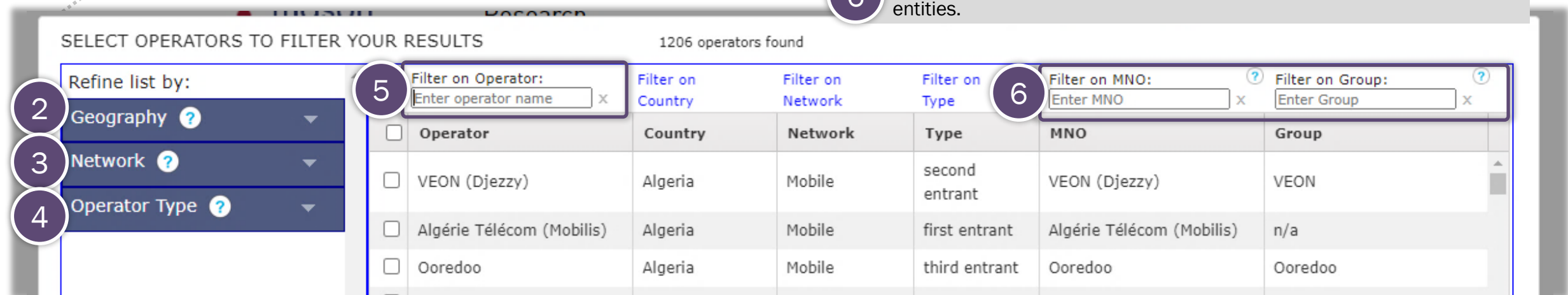
- 1 On-screen charting for easy comparisons.
- 2 Export to Excel for further analysis.
- 3 On-screen help provides definitions and update dates.
- 4 View a chart for a single row.
- 5 Instantly convert between currencies (currency conversion is not available in the 'SMB Technology Forecaster' portal, where all results are in USD).
- 6 Choose between rounded and unrounded data.
- 7 Colours distinguish between historical data and forecasts.



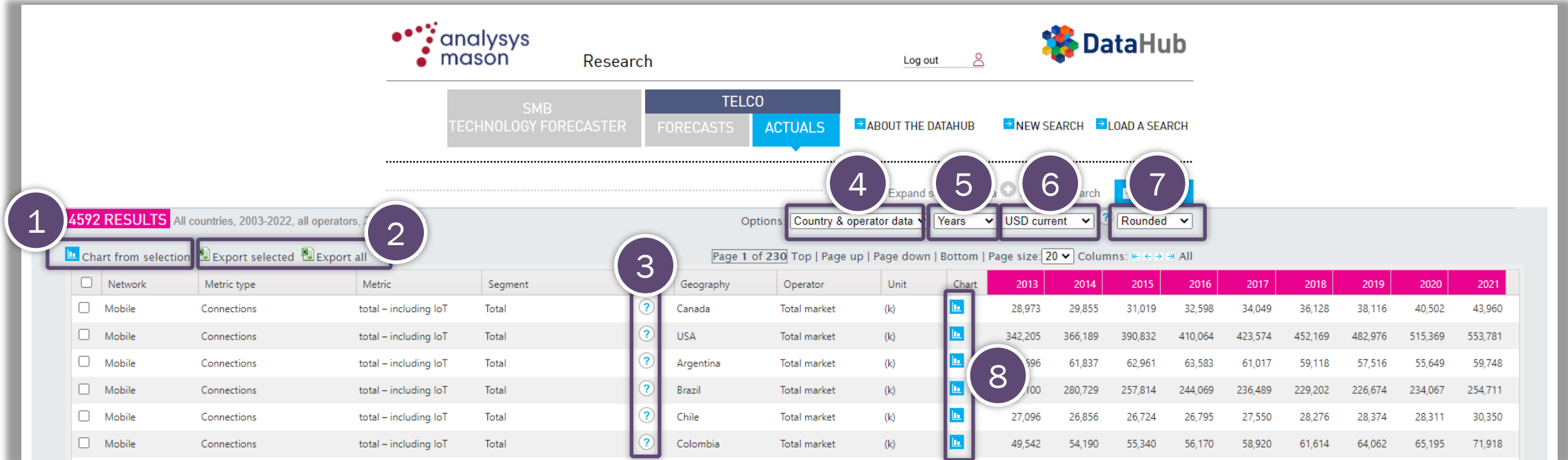
Key concepts: ‘Telco actuals’: operator selector



- 1 Click on the ‘Operators’ box to filter by operator.
- 2 Filter operators by geography.
- 3 Filter by network type: fixed, mobile and/or fixed + mobile.
- 4 Filter by operator type (for example, incumbent, fourth entrant, altnet or cable operator).
- 5 Free-text search helps you to find all instances of a given operator.
- 6 Free-text searches for host mobile network operator (MNO) and Group entities.



Key concepts: 'Telco actuals' results



1 On-screen charting for easy comparisons.

2 Export to Excel for further analysis.

3 On-screen help provides definitions and update dates.

4 Select operator data, country data or both.

5 Select annual data, quarterly data, half-yearly data or all data.

6 Instantly convert between currencies (currency conversion is not available in the 'SMB Technology Forecaster' portal, where all results are in USD).

7 Choose between rounded and unrounded data.

8 View a chart for a single row.

Direct links from report landing pages

Emerging Asia-Pacific telecoms market: trends and forecasts 2021-2026

01 February 2021 | [Research](#)

[Stefano Porto Bonacci](#)

Forecast report | PPTX and PDF (72 slides); Excel | [Asia-Pacific](#)

"There are sizeable opportunities to monetise the demand for mobile and fixed data connectivity in both high- and low-income countries in EMAP."



Revenue in emerging Asia-Pacific (EMAP), excluding China, will increase at a CAGR of 4.6% between 2021 and 2026, driven by FTTP take-up, mobile data user base growth and the migration of customers towards top-tier mobile plans (using 5G in the wealthiest countries). China's revenue growth will be slower because of market saturation and competition.

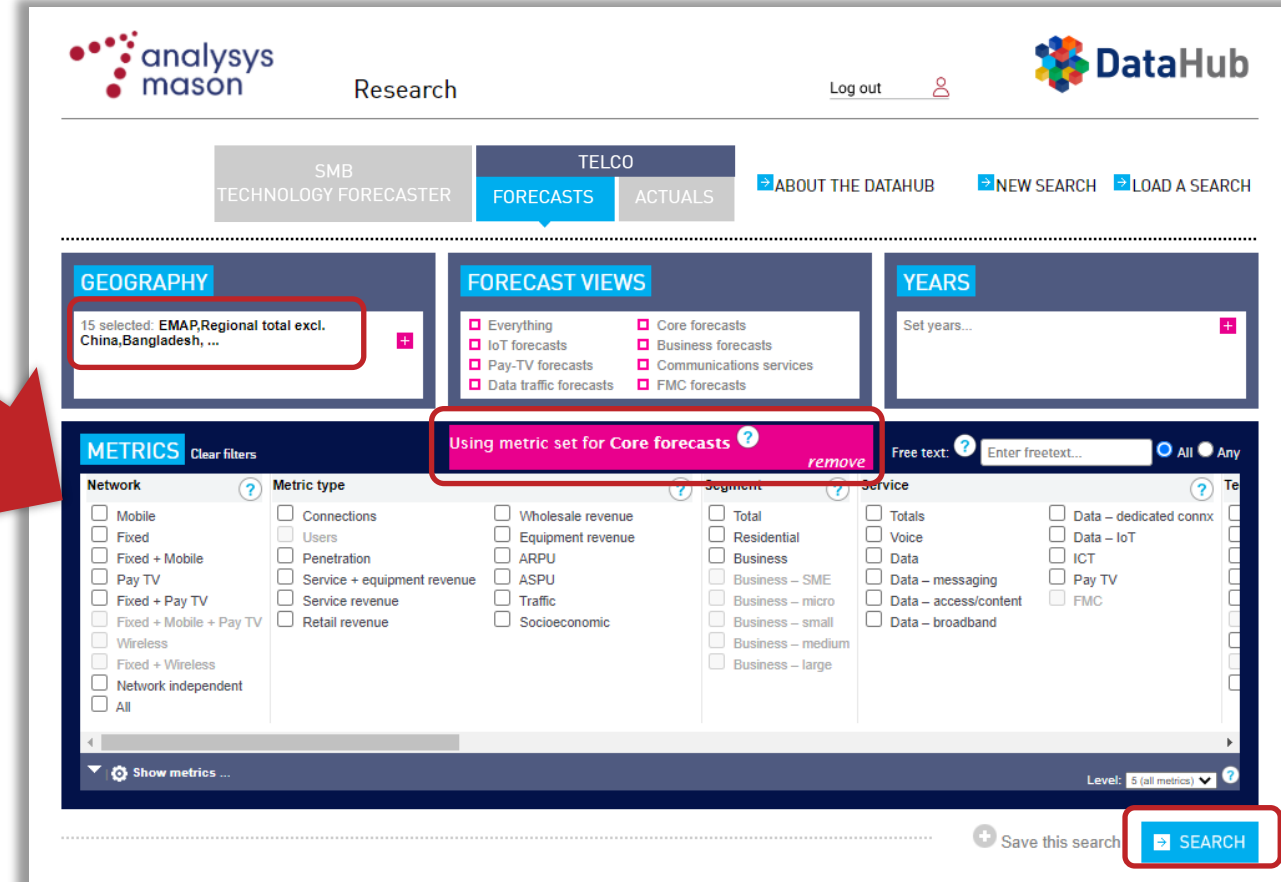
In this report, we examine key trends and drivers, and provide comprehensive telecoms market forecasts for the region and for 13 individually modelled countries.



Click below to take you to the latest dataset if you are logged in and it is part of your subscription. The DataHub interface will only show you the data to which you are subscribed.

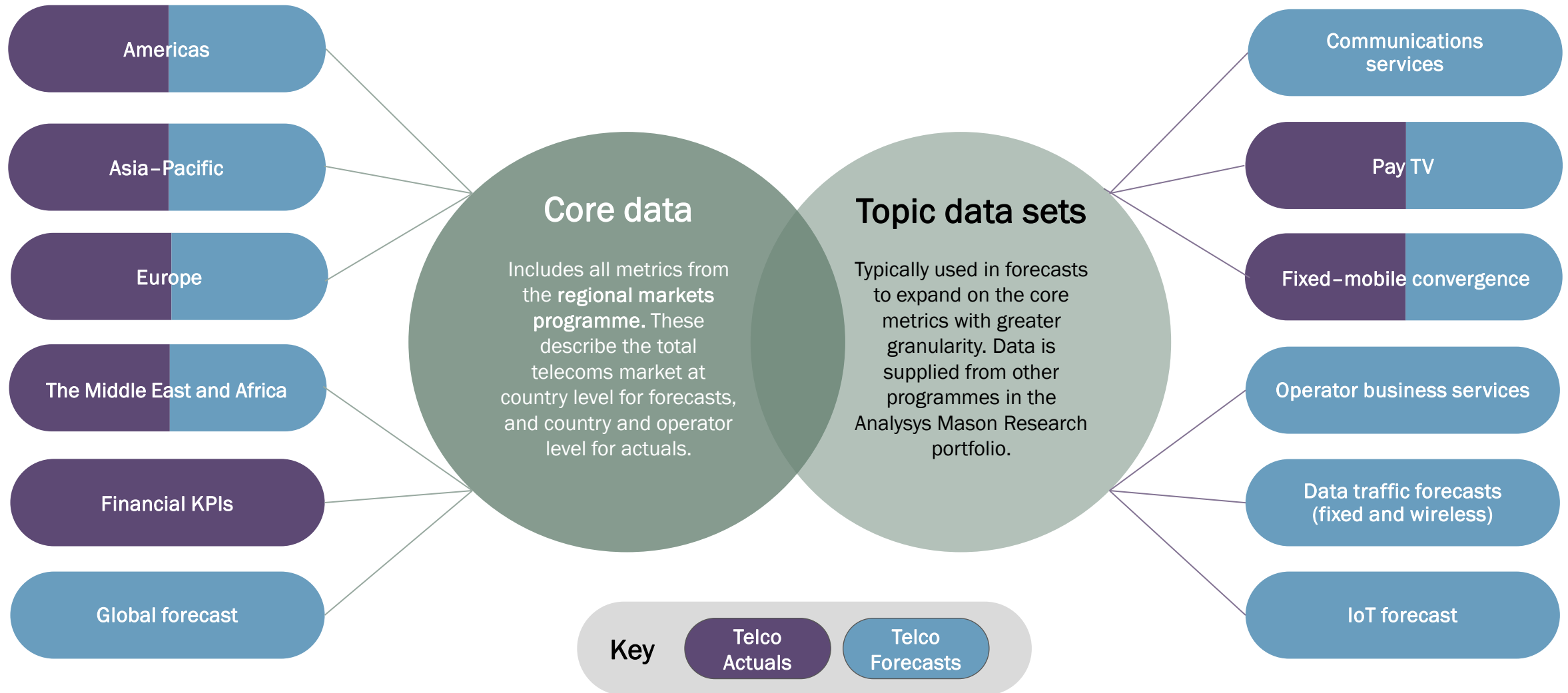
LAUNCH DATAHUB

Logged-in users that click on this link will go **directly to the DataHub**. The countries/regions and metrics that are associated with the report will be **pre-selected**, but you will be able to refine your search further before seeing the data.



The screenshot shows the DataHub interface with the following sections:

- GEOGRAPHY:** 15 selected: EMAP,Regional total excl. China,Bangladesh, ...
- FORECAST VIEWS:**
 - Everything
 - IoT forecasts
 - Pay-TV forecasts
 - Data traffic forecasts
 - Core forecasts
 - Business forecasts
 - Communications services
 - FMC forecasts
- YEARS:** Set years...
- METRICS:** Clear filters
 - Network:** Mobile, Fixed, Fixed + Mobile, Pay TV, Fixed + Pay TV, Fixed + Mobile + Pay TV, Wireless, Fixed + Wireless, Network independent, All
 - Metric type:** Connections, Users, Penetration, Service + equipment revenue, Service revenue, Retail revenue, Wholesale revenue, Equipment revenue, ARPU, ASPU, Traffic, Socioeconomic
 - Segment:** Total, Residential, Business, Business - SME, Business - micro, Business - small, Business - medium, Business - large
 - Service:** Totals, Voice, Data, Data - messaging, Data - access/content, Data - broadband, Data - dedicated connx, Data - IoT, ICT, Pay TV, FMC
- Using metric set for Core forecasts** (with a 'remove' button)
- Free text:** Enter freetext... (with 'All' and 'Any' radio buttons)
- SEARCH** button (highlighted with a red box)



The top-level data in the topic data sets feeds into the core forecast data

IoT forecast data

Top-level data:

- IoT connections
- IoT revenue

Further split by:

- | | |
|---------------|-------------------|
| • Agriculture | • Industry |
| • Cattle | • ... |
| • Forest | • Retail |
| • Irrigation | • ... |
| • Automotive | • Smart buildings |
| • Fleet – HGV | • ... |
| • Fleet – LCV | • Smart cities |
| • ... | • ... |
| • Finance | • Tracking |
| • ATMs | • ... |
| • Health | • Utilities |
| • Chronic RPM | • ... |
| • Acute RPM | • Miscellaneous |
| • PERS | • ... |

Core forecast data

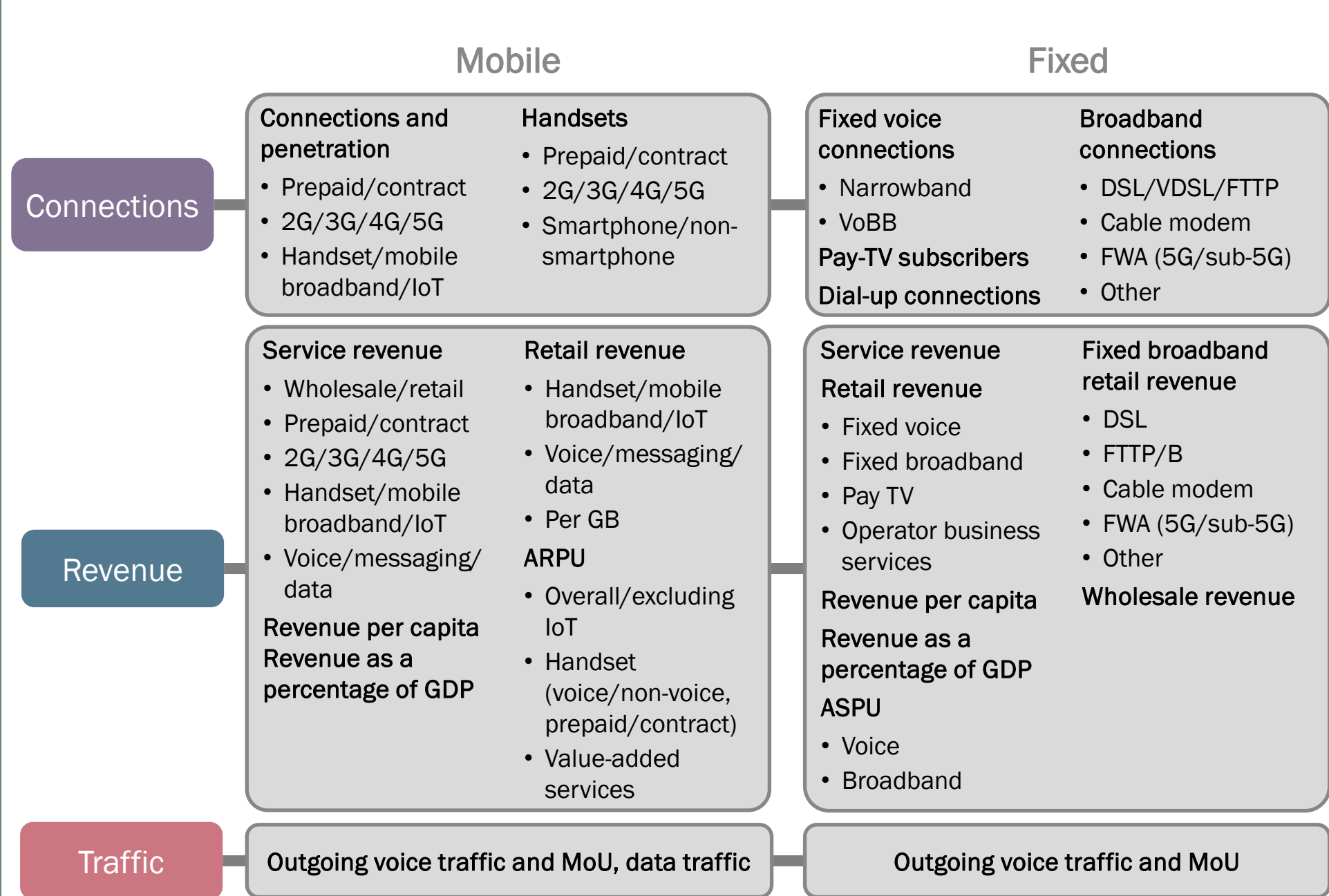
- | | |
|-------------------------------------|---------------------|
| • Mobile connections, split by: | • Mobile ARPU/ASPU |
| • Handset | • Mobile traffic |
| • Mobile broadband | • Fixed connections |
| • IoT | • Fixed revenue |
| • Penetration | • Fixed ARPU/ASPU |
| • Mobile service revenue, split by: | • Fixed traffic |
| • Voice | • Fixed + mobile |
| • Data, further split by: | • Pay TV |
| • Handset data | |
| • Mobile broadband | |
| • IoT | |

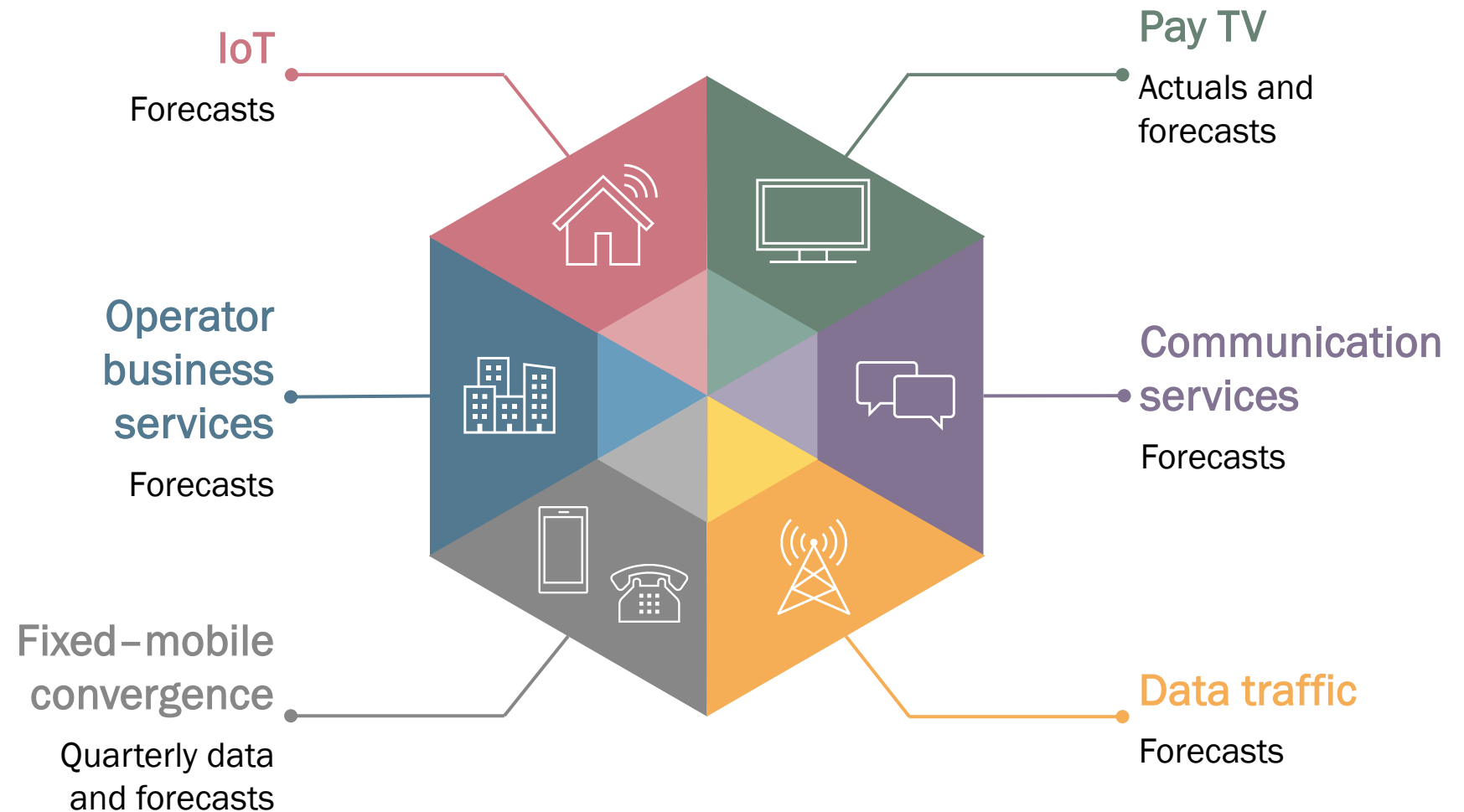
The core data set contains the top-level data from the IoT data set. The IoT data set expands on these to provide high level of detail.

	TELCO actuals	TELCO forecasts
Metrics, timeframes and geographies	<ul style="list-style-type: none">• Around 200 metrics (plus 80+ more for Europe)• Annual data: 2003–2022• Quarterly data: 4Q 2003–1Q 2023• 80+ countries, around 600 operators	<ul style="list-style-type: none">• Over 200 metrics (plus around 150 more for Europe)• Annual data: 2008–2028• 80+ countries, 8 regions, worldwide totals
Country data: Values	<ul style="list-style-type: none">• Revenue• Socioeconomic data	<ul style="list-style-type: none">• Revenue• Socioeconomic data
Comparative metrics	<ul style="list-style-type: none">• Connections• Traffic	<ul style="list-style-type: none">• Connections• Traffic
Operator data: Values	<ul style="list-style-type: none">• ARPU• Revenue per minute, MB or capita and as a share of GDP	<ul style="list-style-type: none">• ARPU• Revenue per minute, MB or capita and as a share of GDP
Comparative metrics	<ul style="list-style-type: none">• Technology/device penetration• Traffic per connection	<ul style="list-style-type: none">• Technology/device penetration• Traffic per connection
	<ul style="list-style-type: none">• Revenue• Churn• Connections	None
	<ul style="list-style-type: none">• Traffic• Financial KPIs	
	<ul style="list-style-type: none">• ARPU• Prepaid connections share• Connections market share	None
	<ul style="list-style-type: none">• Revenue market share• Traffic per connection• Traffic market share	
	<ul style="list-style-type: none">• EBITDA margin• Capex as a share of revenue	



Our core data sets include over 200 metrics, with extra detail for Europe





We will add more topic data sets in the future, including forecasts for FTTx capex, smartphones and tablets

IoT forecasts

GEOGRAPHY

- 82 individual countries
- 8 regions
- Worldwide total

METRIC TYPES

Around 1400 metrics:

- Connections
- Retail revenue by technology/application
- Retail revenue by value chain element/application
- ARPC

OTHER FILTERS

Technology:

- 2G
- 3G/4G
- 5G
- NB-IoT
- LTE-M
- Other LPWA (includes Sigfox and LoRa)
- Fixed (selected applications with a dedicated fixed connection)

Vertical/application:

- Agriculture
- Automotive
- Finance
- Health
- Industry
- Retail
- Smart buildings
- Smart cities
- IoT tracking
- Utilities
- Miscellaneous

Operator business services forecasts

GEOGRAPHY

Regional and worldwide totals plus 54 individual countries:

- WE (16)
- CEE (9)
- DVAP (7)
- EMAP (7)
- MENA (7)
- SSA (3)
- NA (2)
- LATAM (3)

METRIC TYPES

Over 700 metrics:

- Operator revenue
- ICT services revenue addressable by operators
- Connections/users
- ASPU
- Employees, enterprises and business sites

OTHER FILTERS

Business size:

- Micro (0–9 employees)
- Small (10–99 employees)
- Medium (100–249 employees)
- Large (250+ employees)

Fixed services:

- Narrowband voice
- VoBB
- ADSL/SDSL, vDSL, FTTP/B, cable, FWA, other
- Dedicated connections, by speed

Mobile services:

- Voice
- Messaging
- Handset data
- Mobile broadband
- IoT connectivity

Other business services:

- Unified communications and hosted voice
- Security
- Co-location and hosting
- Software-as-a-service
- Infrastructure-as-a-service and platform-as-a-service
- Enterprise mobility
- Desktop management

Pay-TV actuals and forecasts

Forecasts

GEOGRAPHY

Regional and worldwide totals plus 54 individual countries:

- WE (16)
- CEE (16)
- DVAP (4)
- EMAP (8)
- MENA (5)
- SSA (1)
- NA (2)
- LATAM (2)

METRIC TYPES

100+ metrics:

- Connections
- Users
- Penetration
- Retail revenue
- ASPU

OTHER FILTERS

Service platform:

- Total traditional
- CATV
- CATV – analogue
- CATV – digital
- IPTV
- Satellite
- Pay DTT
- Operator OTT

Provider type:

- Operator
- OTT/non operator

Actuals

54 individual countries:

- WE (16)
- CEE (16)
- DVAP (4)
- EMAP (8)
- MENA (5)
- SSA (1)
- NA (2)
- LATAM (2)

30+ metrics:

- Connections
- Market share of connections
- Penetration
- Retail revenue
- Market share of retail revenue

Service platform:

- Total traditional
- CATV
- CATV – analogue
- CATV – digital
- IPTV
- Satellite
- Pay DTT
- Operator OTT

Provider type:

- Operator

Communication services forecasts

GEOGRAPHY

Regional and worldwide totals plus 63 individual countries:

- WE (16)
- CEE (16)
- DVAP (7)
- EMAP (10)
- MENA (5)
- SSA (4)
- NA (2)
- LATAM (3)

METRIC TYPES

Around 130 metrics:

- Connections
- Users
- Revenue
- ASPU
- Traffic

OTHER FILTERS

Comms service type:

- Voice
- Circuit switch
- VoIP
- VoLTE
- Wi-Fi calling
- Messaging P2P/A2P
- Messaging – SMS
- Messaging – IP

Provider type:

- Operator
- OTT/non operator

Device:

- Handset
- Smartphone
- Tablet
- PC/laptop

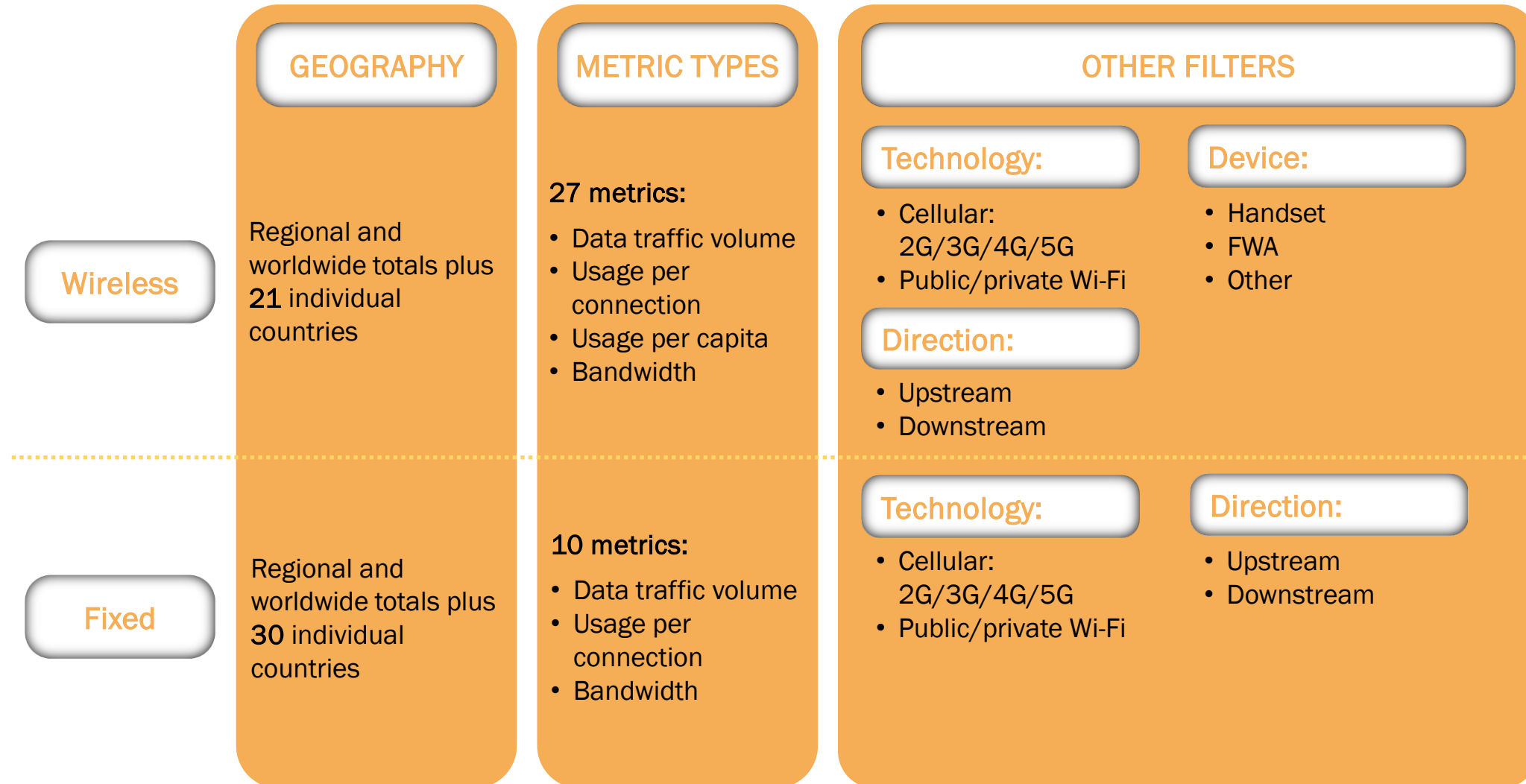
A2P vertical:

- Education
- Financial services
- Government and non-profit
- Healthcare
- Internet, media and entertainment
- Real estate
- Retail
- Telecoms and utilities
- Travel and hospitality

A2P use case:

- Reminder
- Promotional
- Security
- Customer service
- Surveys

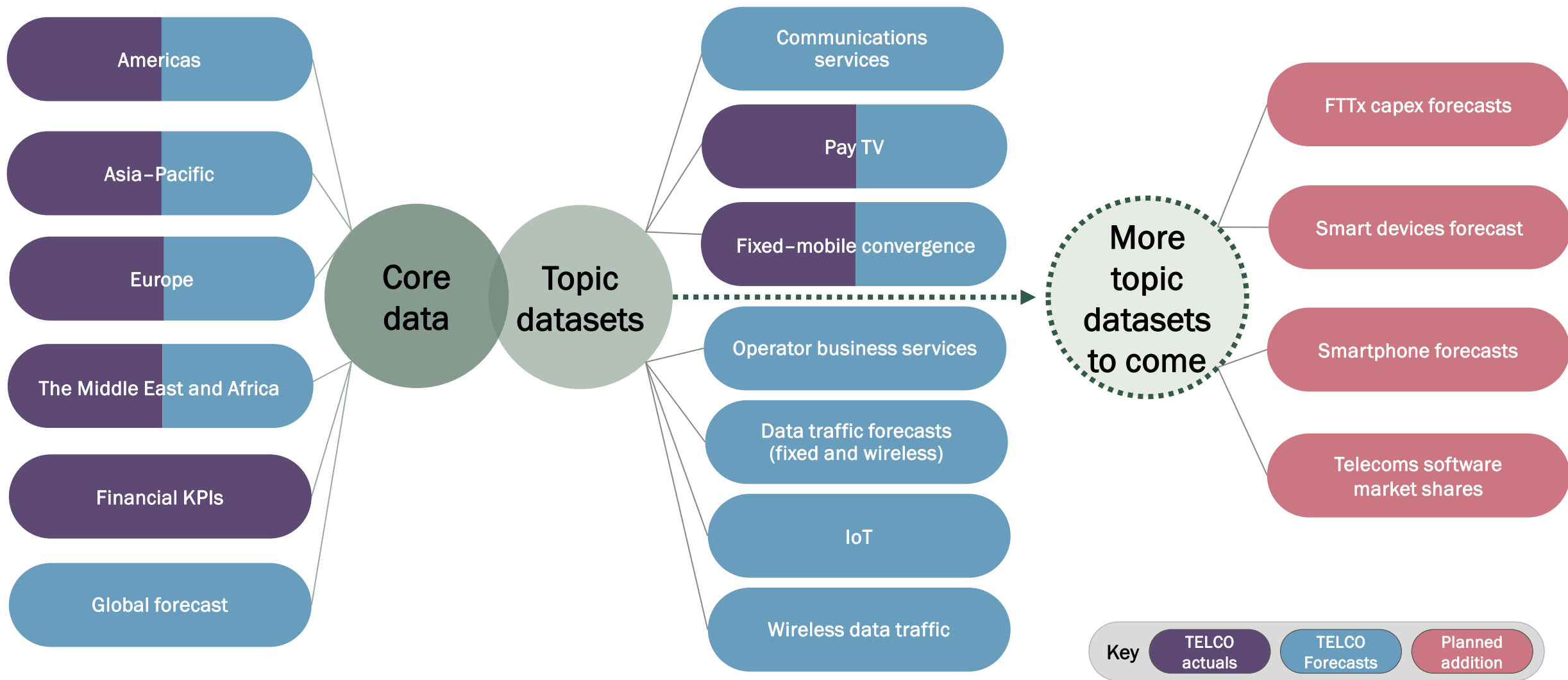
Data traffic forecasts



Fixed–mobile convergence quarterly data and forecasts

	GEOGRAPHY	METRIC TYPES		
<div>Actuals</div> <hr/> <div>Forecasts</div>	<p>Operator-level and country-level data for over 100 operators in 19 countries:</p> <ul style="list-style-type: none"> • WE (9) • CEE (3) • DVAP (1) • EMAP (4) • NA (2) 	<p>9 metrics</p> <p>FMC accounts</p> <ul style="list-style-type: none"> • Users • Share of fixed broadband • Household penetration • Operator market share 	<p>FMC SIMs</p> <ul style="list-style-type: none"> • Users • SIMs per accounts 	<p>FMC revenue</p> <ul style="list-style-type: none"> • Total • ARPA • Operator market share
	<p>Country-level data in 18 countries:</p> <ul style="list-style-type: none"> • WE (9) • CEE (3) • DVAP (1) • EMAP (3) • NA (2) 	<p>19 metrics</p> <p>FMC and multi-play accounts¹</p> <ul style="list-style-type: none"> • Users • Share of fixed broadband • Household penetration 	<p>FMC SIMs</p> <ul style="list-style-type: none"> • Users • SIMs per accounts 	<p>FMC revenue</p> <ul style="list-style-type: none"> • Total • ARPA

¹ Multi-play forecast results are available for each of the following: mobile + fixed broadband + pay TV; mobile + fixed broadband only; and fixed broadband + pay TV only



The 'SMB Technology Forecaster' portal contains an extensive forecast of business spending on ICT

GEOGRAPHY

- 52 individual countries
- 5 'rest of regions'¹
- 7 regional totals
 - Western Europe
 - Central and Eastern Europe
 - North America
 - Latin America
 - Developed Asia-Pacific
 - Emerging Asia-Pacific
 - Middle East and Africa
- Worldwide total

METRIC TYPES

~ 120 000 metrics:

- Spend
 - (~105 000)
- Firms
 - (~500)
- Installed base
 - (~6300)
- Shipments
 - (~6300)

130+ ICT CATEGORIES

- Business applications
- Collaboration
- Communication
- Cyber security
- Devices and peripherals
- Digital marketing and advertising
- Infrastructure
- IT and managed services
- Web services

13 BUSINESS SIZES

- Home-based business
- Small
 - <5 employees
 - 5 to 9 employees
 - 10 to 19 employees
 - 20 to 49 employees
 - 50 to 99 employees
- Medium
 - 100 to 249 employees
 - 250 to 499 employees
 - 500 to 999 employees
- Large
 - 1000 to 2499 employees
 - 2500 to 4999 employees
 - 5000 to 9999 employees
 - 10000+ employees

19 VERTICAL MARKETS (INDUSTRIES)

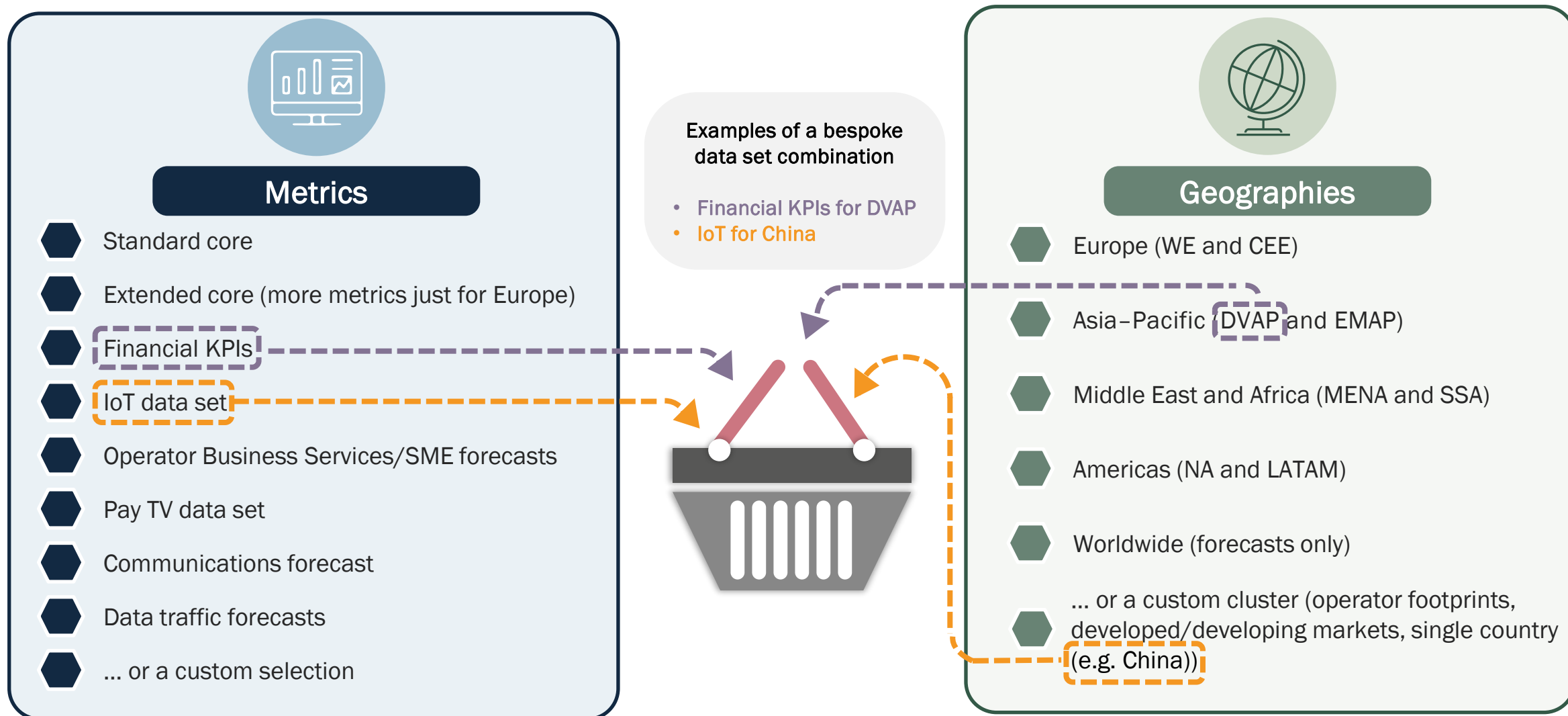
- AMTUC² (5)
- FIRE³ (3)
- Manufacturing (4)
- Other services (4)
- Professional services (1)
- Retail (1)
- Wholesale (1)

5 routes to market

- MSPs and SIs⁴
- Resellers and value-added resellers (VARs)
- Retailers
- Telecoms operators
- Vendors (direct)

¹ 'Rest-of-region' geographies cover the sum of the countries in a region that are not modelled individually. ² AMTUC: agriculture, mining, transportation, utilities and construction industries, including telecommunications. ³ FIRE: finance, insurance and real estate markets. ⁴ MSPs and SIs: managed service providers and systems integrators.

Analysys Mason DataHub: access combines a metric set and a geographical scope – you can choose the elements



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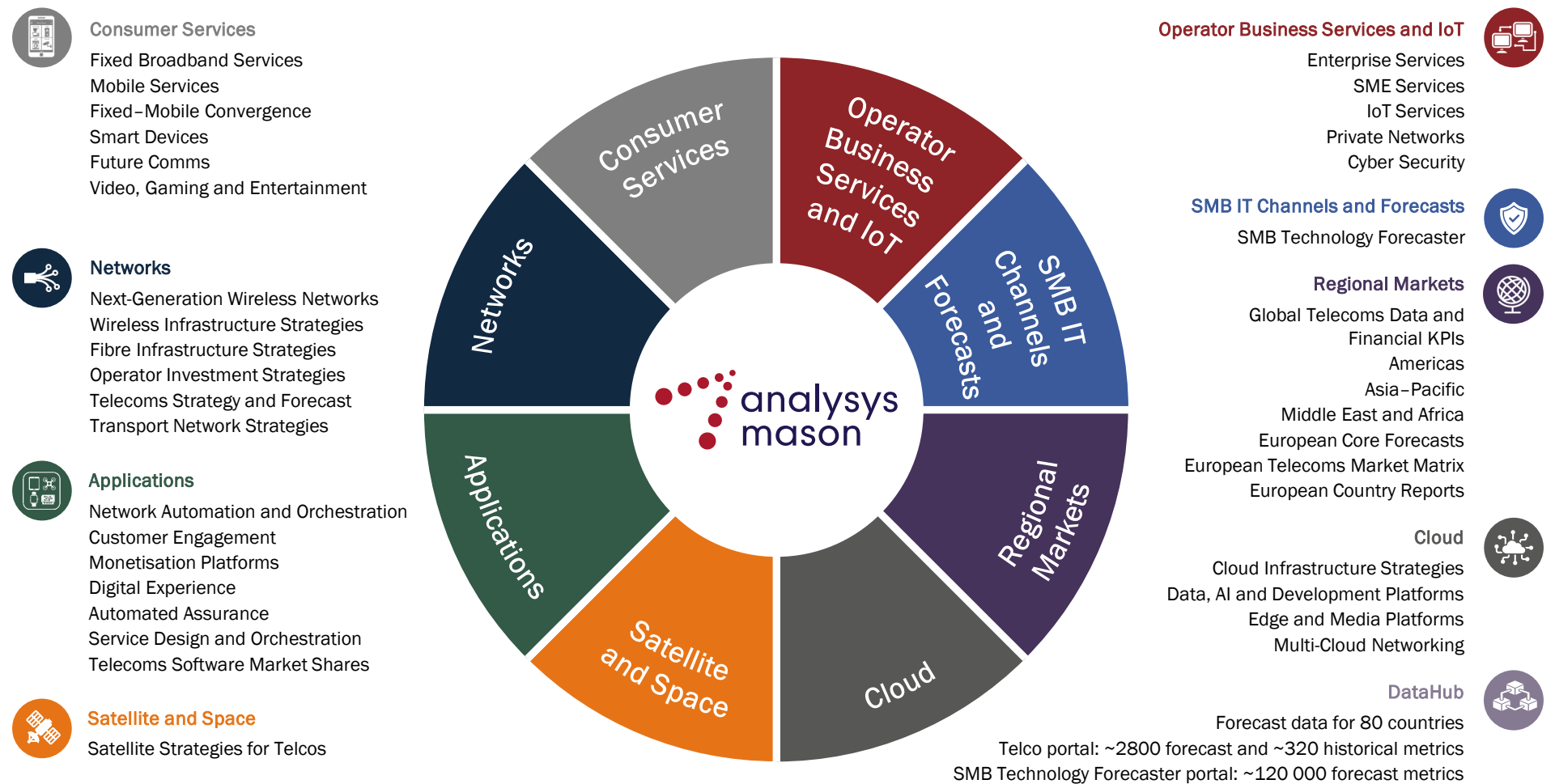
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Our areas of expertise



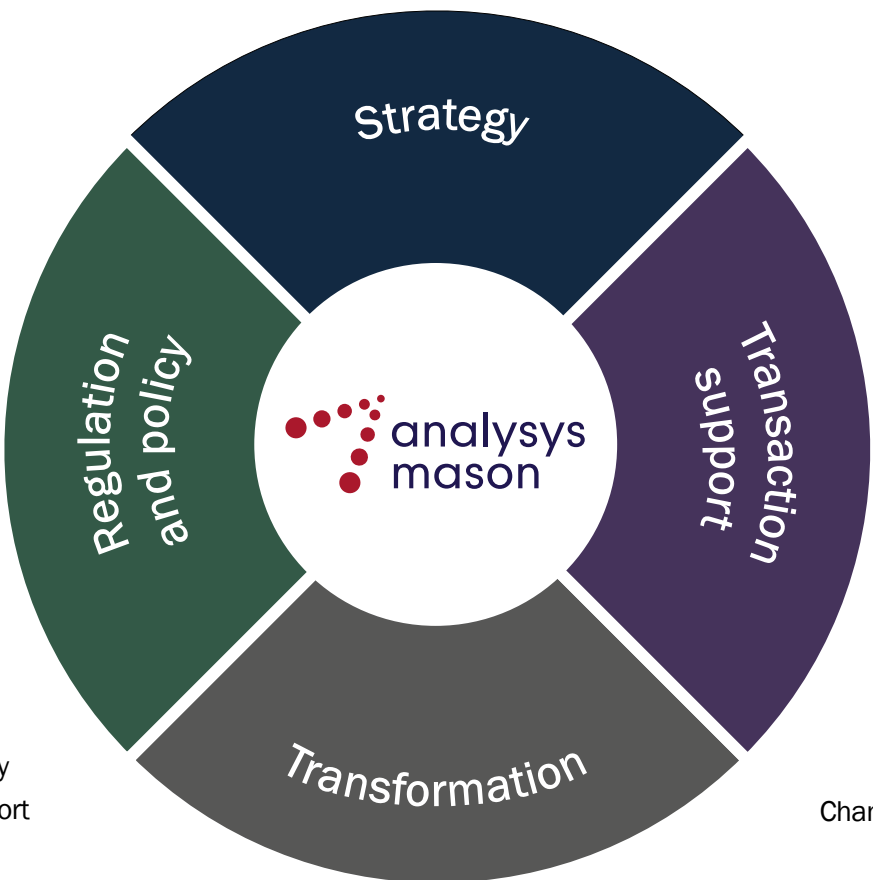
Strategy

- Corporate growth strategy
- Business unit strategy
- Infrastructure strategy



Regulation and policy

- Network and platform
- Public sector broadband intervention
- Accelerating digital transformation of society
- Price controls and cost modelling
- Regulatory accounting
- Regulatory benchmarking and analysis
- Spectrum management and policy
- Expert witness and litigation support
- Postal regulation and policy



Transaction support

- Commercial due diligence and market review
- Technical due diligence
- Post-merger integration
- Periodical business monitoring and loan technical advisory
- Opportunity scouting and pre-deal support



Transformation

- Business transformation
- Digitalisation
- Operational excellence
- Data, BI, steering and insights
- Change and programme management
- Sustainability

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