Public Open Data

The Public Open Data Digital Digital Service Infrastructure (DSI) started as a way to help boosting the reuse and combination of open public data across the EU through a **pan-European Open Data Portal** *(as of 2019 data.europa.eu)*. In time, it evolved with other features: a **Big Data Test Infrastructure (BDTI)**, a **Context Broker** as well as a **Support Center for Data Sharing (SCDS)**.

The European Open Data Portal (as of 2019 data.europa.eu) is a one-stop shop providing facilitated and harmonised access to data sets created and managed by public bodies in the Member States, including the national, regional and local levels of government. Generic Services projects generate open data that enrich the European Data Portal (as of 2019 data.europa.eu) and/or use open data for the development of new products and services.

The BDTI provides a set of data and analytics services from infrastructure to tools and advisory, allowing European organisations to experiment with Big Data technologies and move towards a data-driven policy making. For the time being, the BDTI does not feature Generic Services projects.

The Context Broker is a solution that enables public and private organisations to manage and share real-time data. For example, the context broker can be used by Smart Cities to share information about what is happening in streets (e.g., traffic status, quality of air data, available parking slots, location). For the time being, the Context Broker does not feature Generic Services projects.

The SCDS supports knowledge exchange between all actors in the data economy, through the provision of advice, best practices and methodologies for data sharing and analytics. For the time being, the SCDS does not feature Generic Services projects.

| LEARN MORE ABOUT BDTI | LEARN MORE ABOUT CONTEXT BROKER | LEARN MORE ABOUT THE EUROPEAN DATA PORTAL (as of 2019 data.europa.eu) | LEARN MORE ABOUT SUPPORT CENTER FOR DATA SHARING |

Highlights

Generic Services Projects

€47.38 million in **26** Member States, Norway and the UK.

40 projects were awarded grants for implementing Public Open Data.

More info on the Generic Services:

HaDEA

European Data Portal (as of 2019 data.europa.eu)

More than **1,300,000** datasets available at the time of data collection in Q2 2021

Big Data Test Infrastructure

11 big data pilots using the BDTI cloud infrastructure at the time of data collection in Q2 2021.
The BDTI service launched in 2019.

Context Broker

20 organizations in **16 countries** at the time of data collection in Q2 2021.

Public Open Data Financial Indicators

As the CEF funding of the Data Portal, Context Broker and BDTI (Core Service platform) came to an end in Q2 2021, this is the cut off date for the last monitoring activities linked to the above mentioned work strands. The monitoring of the SCDS reflects the state of play in Q2 2022 when the contract finalised. The monitoring of the Generic Services projects presents the state of play by Q4 2022. 24 generic services projects are still under implementation and are foreseen to be completed by 2024.

Financial Monitoring

€ 20,560,991	€ 47,383,905
CEF Core Service Platform funding	CEF funding through Generic Services Projects

European Data Portal (as of 2019 data.europa.eu) Indicators

As the CEF funding of the Core Service platform came to an end in Q4 2021, this is the cut-off date for the last monitoring activities linked to this work strand. The monitoring of the Generic Services projects presents the state of play by Q4 2022.

Uptake

1,337,758	6	197,475
datasets made available on the European Data Portal (as of 2019 data.europa.eu)	Sectors covered by datasets on the European Data Portal (as of 2019 data.europa.eu) generated by GSs	downloaded datasets on the European Data Portal (as of 2019 data.europa.eu) in 2021

Service Availability

100%
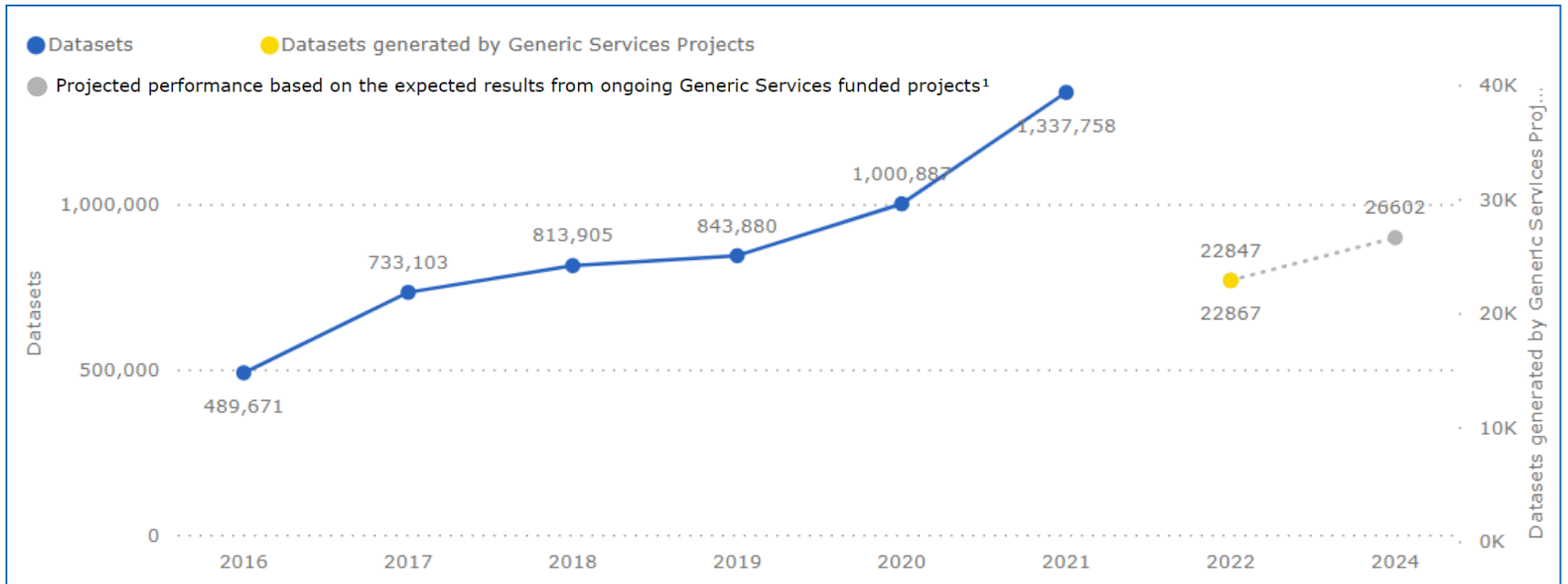Average uptime of the European Data Portal (as of 2019 data.europa.eu)

CEF Building Blocks reused by the EDP

European Data Portal (as of 2019 data.europa.eu) reuses eID and eTranslation
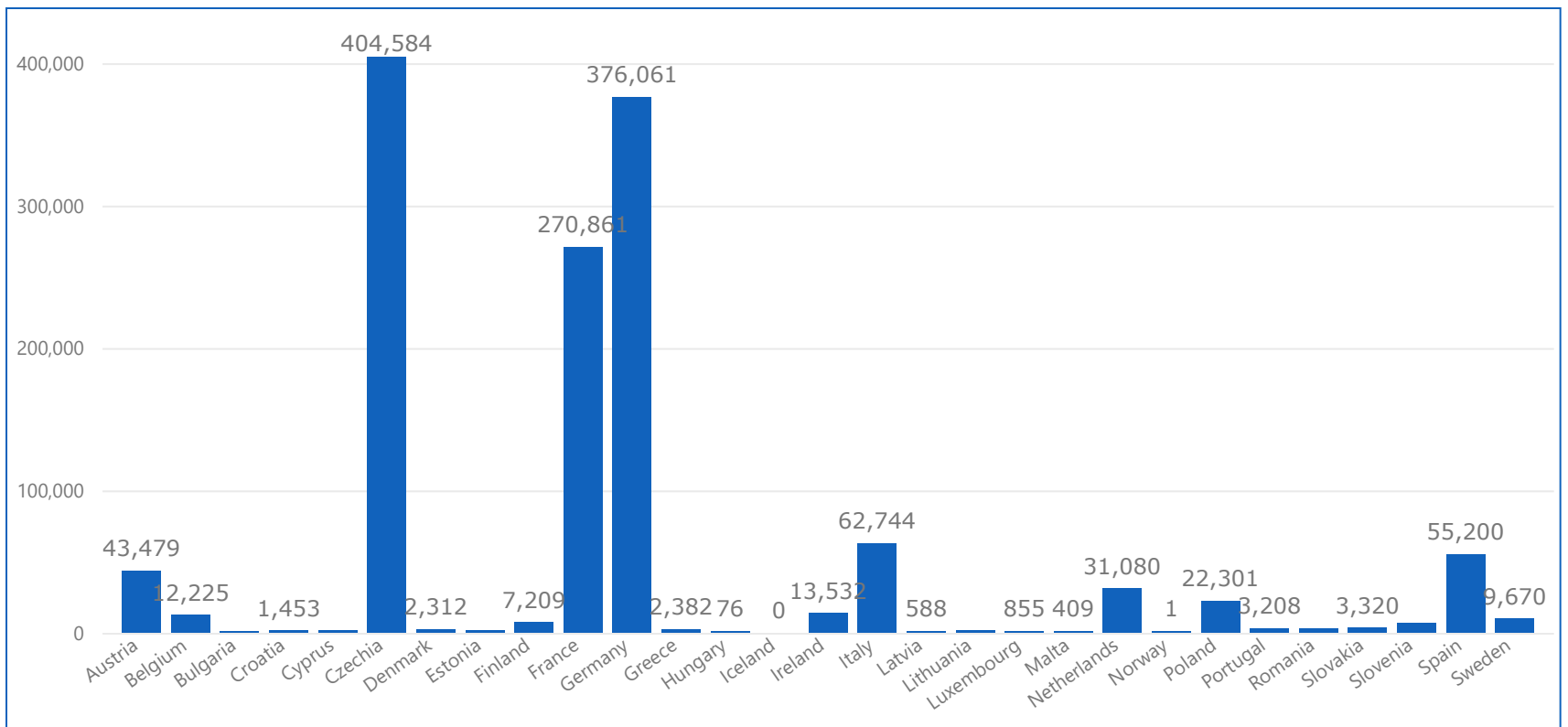
Indicators

Public Open Data > European Data Portal (as of 2019 data.europa.eu) > Uptake > Contribution of EU and EEA countries associated to the programme to the European Data Portal (as of 2019 data.europa.eu)

This indicator measures the **number of datasets per country*** available on the European Data Portal (as of 2019 data.europa.eu) at the time of yearly data collection.

● Datasets   ● Datasets generated by Generic Services Projects

● Projected performance based on the expected results from ongoing Generic Services funded projects[1]

1,337,758
1,000,887
843,880
813,905
733,103
489,671
26602
22847
22867

2016 2017 2018 2019 2020 2021 2022 2024

[1] Expected results based on current data, subject to confirmation at project validation phase

ⓘ 3735 additional datasets are expected to be generated through Generic Services Projects by 2024.

404,584
376,061
270,861
62,744
55,200
43,479
31,080
22,301
12,225
9,670
7,209
3,320
3,208
2,382
2,312
1,453
855
588
409
76
1
0
13,532

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden

Target

All Member States contributed to at least one dataset on the Public Open Data Portal, by the time all CEF funded projects are implemented.
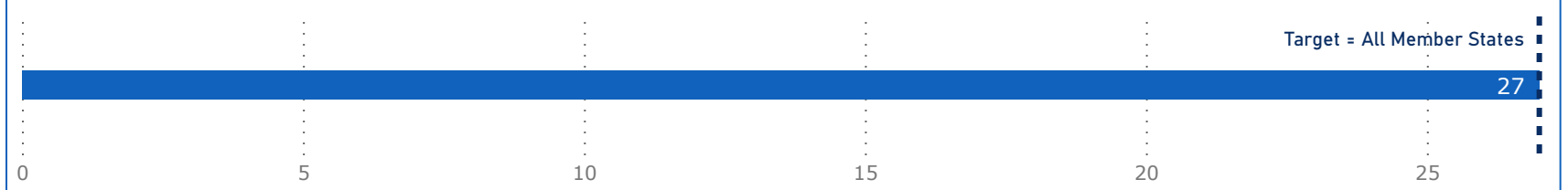
Target = All Member States

27

0   5   10   15   20   25

** The mention "**country**" refers to "EU Member States and EEA countries associated to the CEF programme".*

Indicators

🔖 **Public Open Data > European Data Portal (as of 2019 data.europa.eu) > Uptake > Sectoral coverage of the European Data Portal (as of 2019 data.europa.eu) datasets**

This indicator measures the number of **sectors covered by the datasets available on the European Data Portal (as of 2019 data.europa.eu) generated by Generic Services Projects** at the time of yearly data collection. This indicators also displays all the sectors covered by the datasets available on the portal at the time of yearly data collection.

Sectors	Sectors covered by datasets	Sectors covered by datasets generated by Generic Services Projects
Agriculture, Fisheries, Forestry & Foods	●	●
Economy & Finance	●	
Education, Culture & Sport	●	●
Energy	●	● *
Environment	●	●
Government & Public Sector	●	●
Health	●	● *
International Issues	●	
Justice, Legal System & Public Safety	●	●
Population & Society	●	● *
Regions & Cities	●	
Science & Technology	●	●
Transport	●	●

ⓘ * 3 additional sectors are expected to be covered by datasets available on the European Data Portal (as of 2019 data.europa.eu) generated by Generic Services Projects by 2024. This expected result is based on current data, subject to confirmation at project validation phase

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Target
5 sectors covered by datasets supported as Generic Services Projects, by the time all CEF funded projects are implemented.

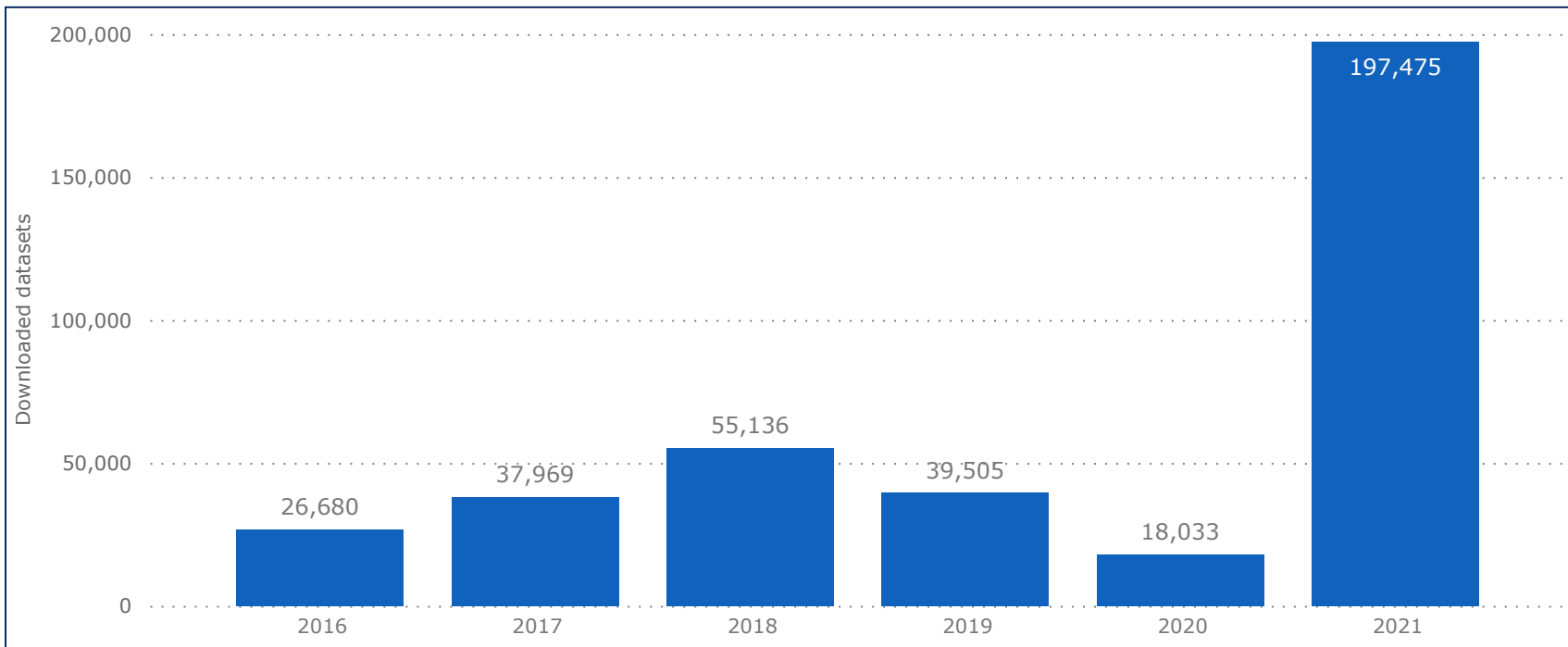Target = 5 sectors covered

8

| 0 | 2 | 4 | 6 | 8 |
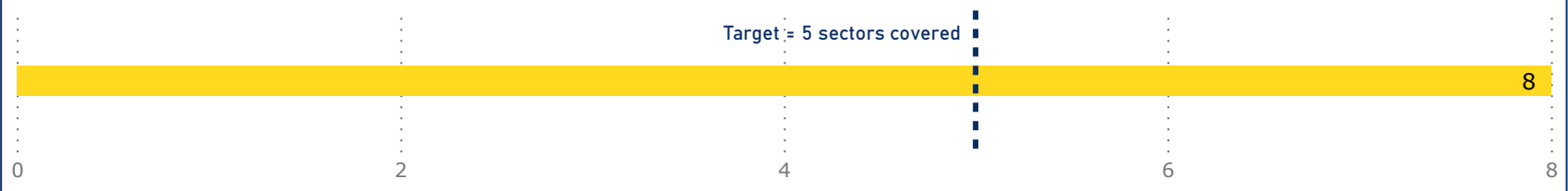
Indicators

Public Open Data > European Data Portal (as of 2019 data.europa.eu) > Uptake > Use of the European Data Portal (as of 2019 data.europa.eu)

This indicator measures the number of **downloaded datasets on the European Data Portal** (as of 2019 data.europa.eu) at the time of yearly data collection.

Downloaded datasets

2016	26,680
2017	37,969
2018	55,136
2019	39,505
2020	18,033
2021	197,475

Target

An **average increase of 10% yearly** in the number of downloaded datasets on the European Data Portal (as of 2019 data.europa.eu).

Target = Average increase of 10%

2017	0.42
2018	0.45
2019	-0.28
2020	-0.54
2021	9.95
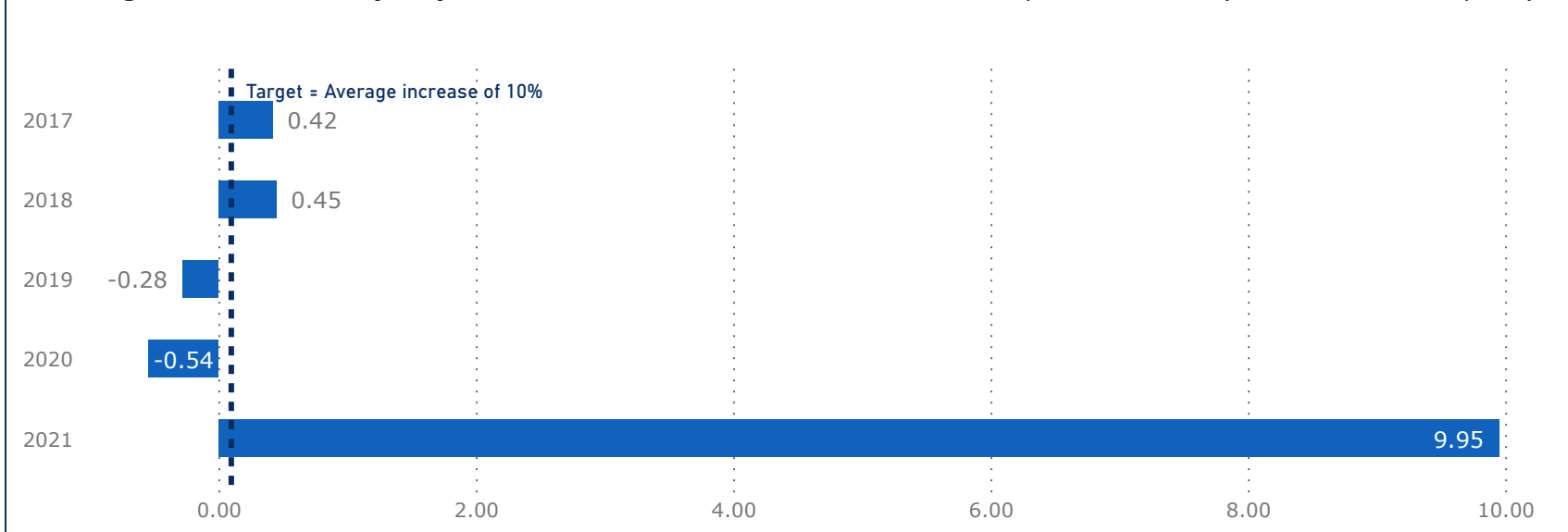
Big Data Test Infrastructure Indicators

As the CEF funding of the Core Service platform came to an end in Q2 2021, this is the cut-off date for the last monitoring activities linked to this work strand.

Uptake

11 big data pilots using the cloud testing infrastructure of BDTI	**578** visits to the Big Data and Analytics Software catalogue page	**668** visits to the Data Source Catalogue page

Service Availability

100%
Average uptime of the cloud testing infrastructure

Reuse of BDTI

BDTI is not being reused by any sector specific DSIs

Indicators

📑 **Public Open Data > Big Data Test Infrastructure > Uptake > Big data pilots using the infrastructure of BDTI**

This indicator measures the number of **big data pilots** that have been using the cloud testing infrastructure of the Big Data Test Infrastructure (BDTI). The baseline for this number is the operational launch of the BDTI service in Q3 2019 (1 project). The sectors of such pilots are also reported.
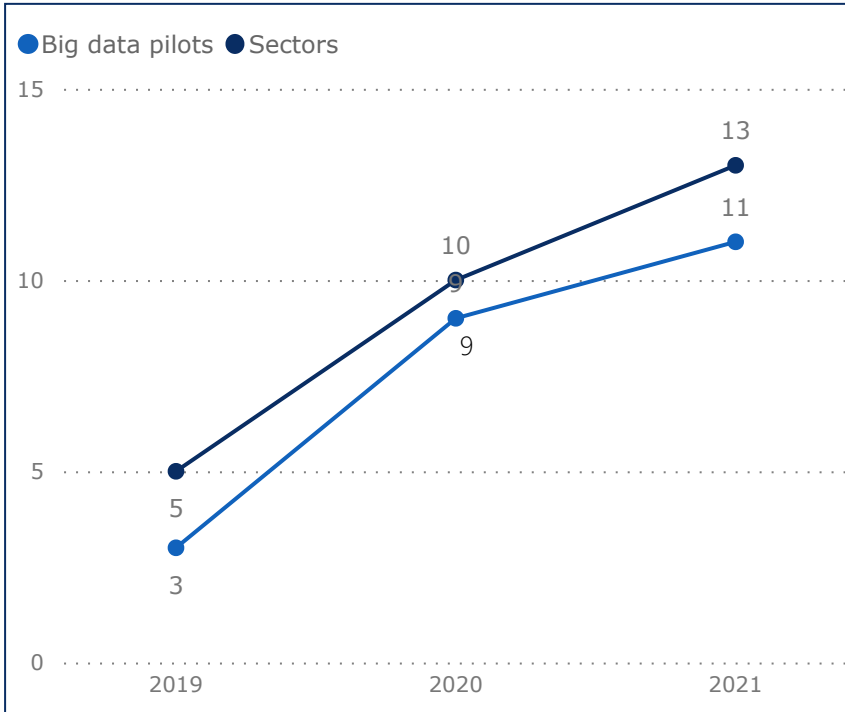

Sectors covered by big data pilots that have been using the BDTI infrastructure	
Agriculture, Fisheries, Forestry & Foods	
Economy & Finance	●
Education, Culture & Sport	●
Energy	●
Environment	●
Government & Public Sector	●
Health	●
International Issues	●
Justice, Legal System & Public Safety	
Population & Society	●
Regions & Cities	●
Science & Technology	●
Transport	●

Target

10 Big Data Test Infrastructure (BDTI) pilot projects should be launched, by the end of 2020.

**Public Open Data > Big Data Test Infrastructure > Uptake > Use of the Big Data and Analytics Software catalogue**
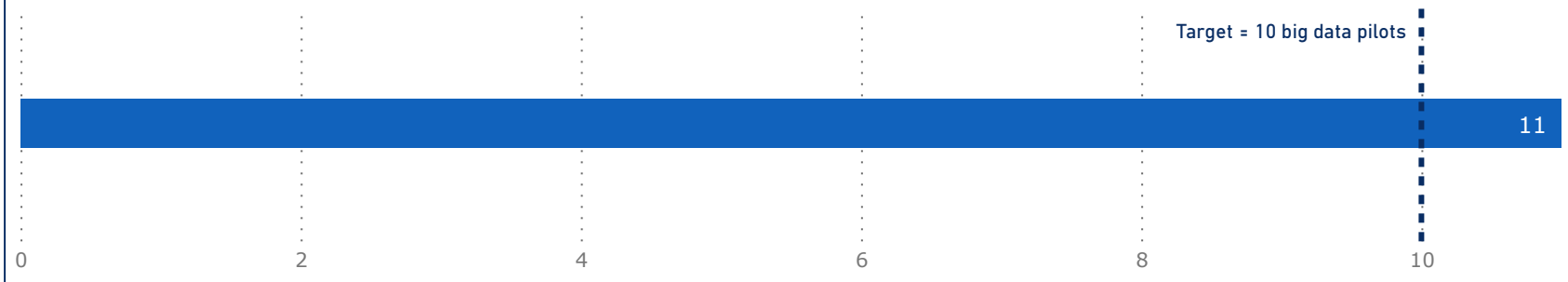
This indicator measures the number of visits to the Big Data and Analytics Software catalogue page. The baseline for this number is the operational launch of the service in Q3 2020 (97 visits).

Target
300 visits to the Big Data and Analytics Software catalogue page, by the end of 2020.

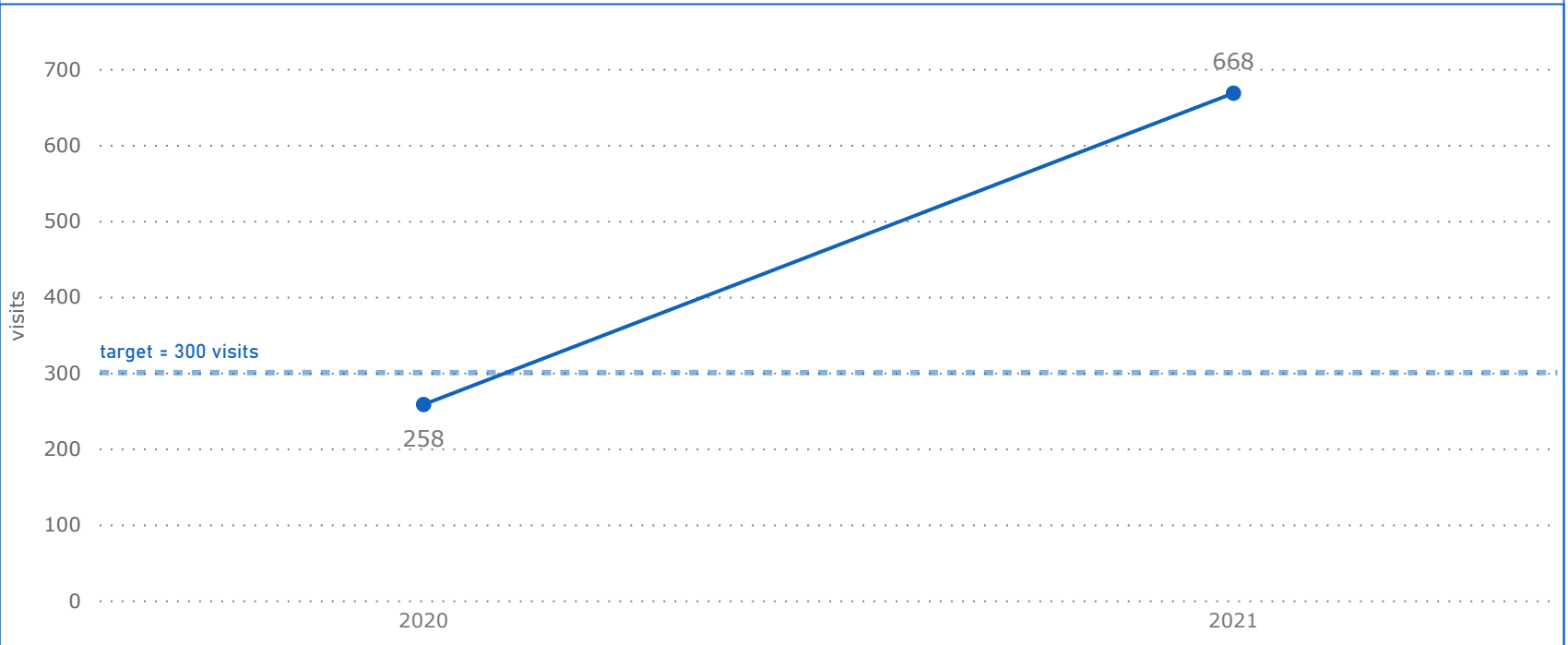**Public Open Data > Big Data Test Infrastructure > Uptake > Use of Data Source Catalogue page**
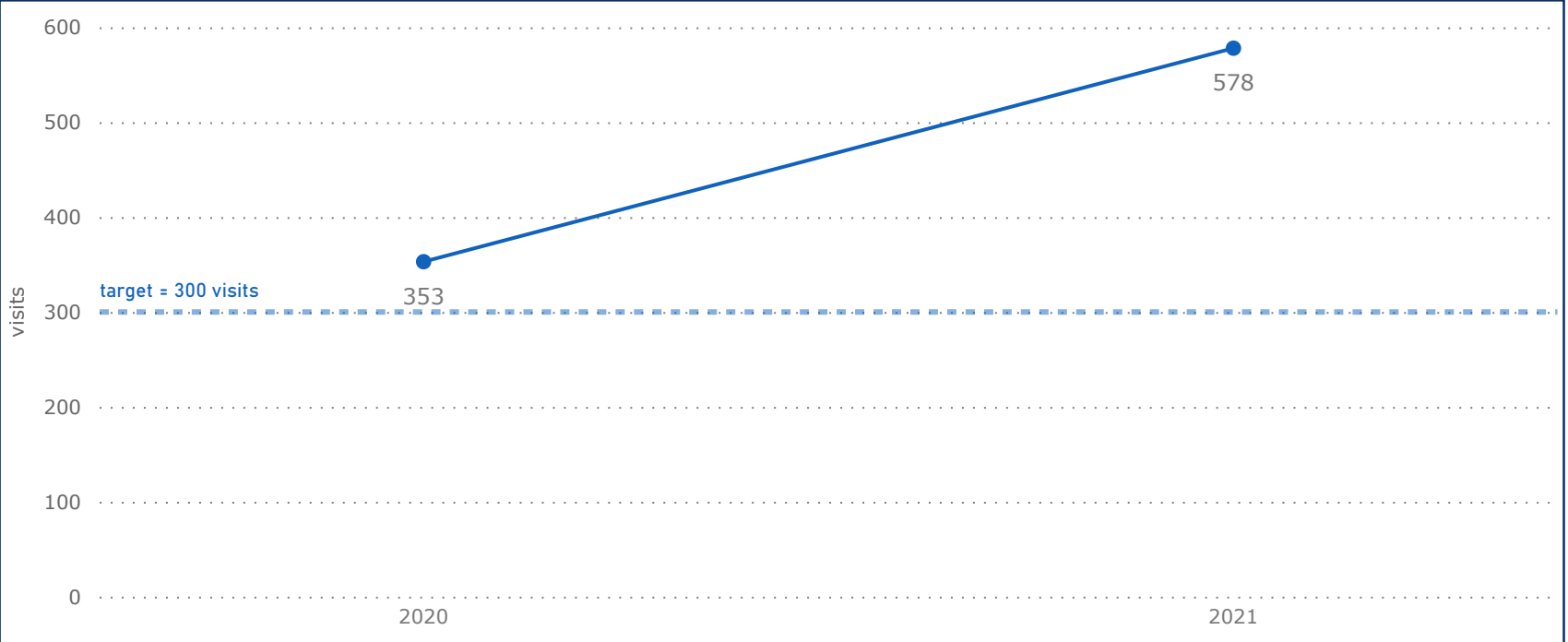
This indicator measures the number of visits to Data Source Catalogue and data exchange APIs page. The baseline for this number is the operational launch of the service in Q3 2020 (69 visits).

Target
300 visits to the Data Source Catalogue page, by the end of 2020.

Context Broker Indicators

As the CEF funding of the Core Service platform came to an end in Q2 2021, this is the cut-off date for the last monitoring activities linked to this work strand.

Uptake

20 organizations implemented Context Broker components	**16** Member States have organizations that implemented Context Broker	**202** participants in the last three Context Broker webinars

Service Availability

100% Average uptime of the sandbox environment

Reuse of Context Broker

Context Broker is not being reused by any sector specific DSIs

Indicators

This indicator measures the number of **organizations in EU and EEA countries associated to the programme that implemented Cygnus or the Orion Context Broker components** at the time of yearly data collection. Unless specified otherwise, Context Broker refers to both components.

The Cygnus component brings the means for managing the history of context that is created as a stream of data which can be injected into multiple data sinks, including some popular databases like PostgreSQL, MySQL, MongoDB or AWS DynamoDB as well as BigData platforms like Hadoop, Storm, Spark or Flink. Orion is the Open Source reference implementation of the Context Broker managed by the FIWARE Foundation.

Target

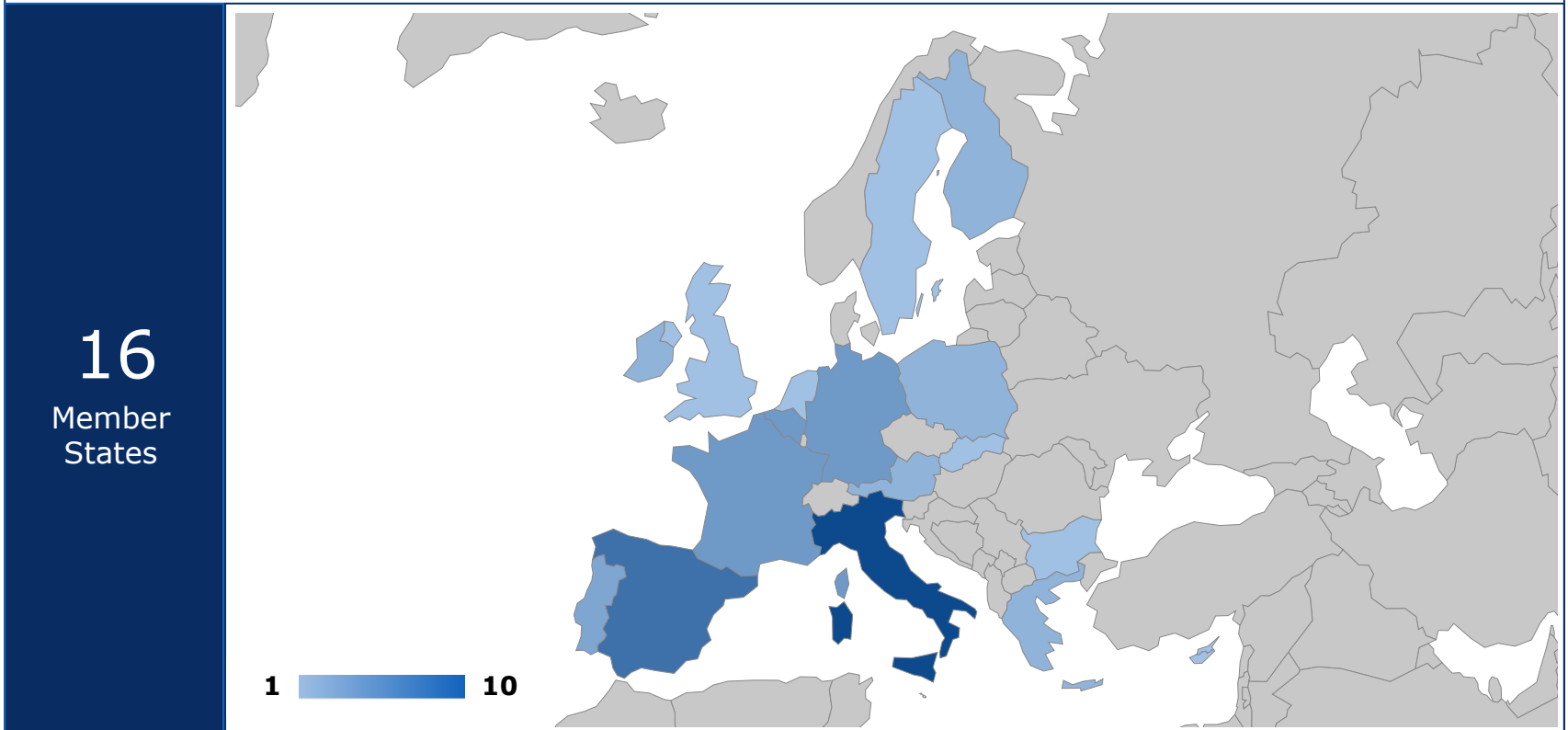**18 organizations** having implemented Context Broker, by the end of 2020.
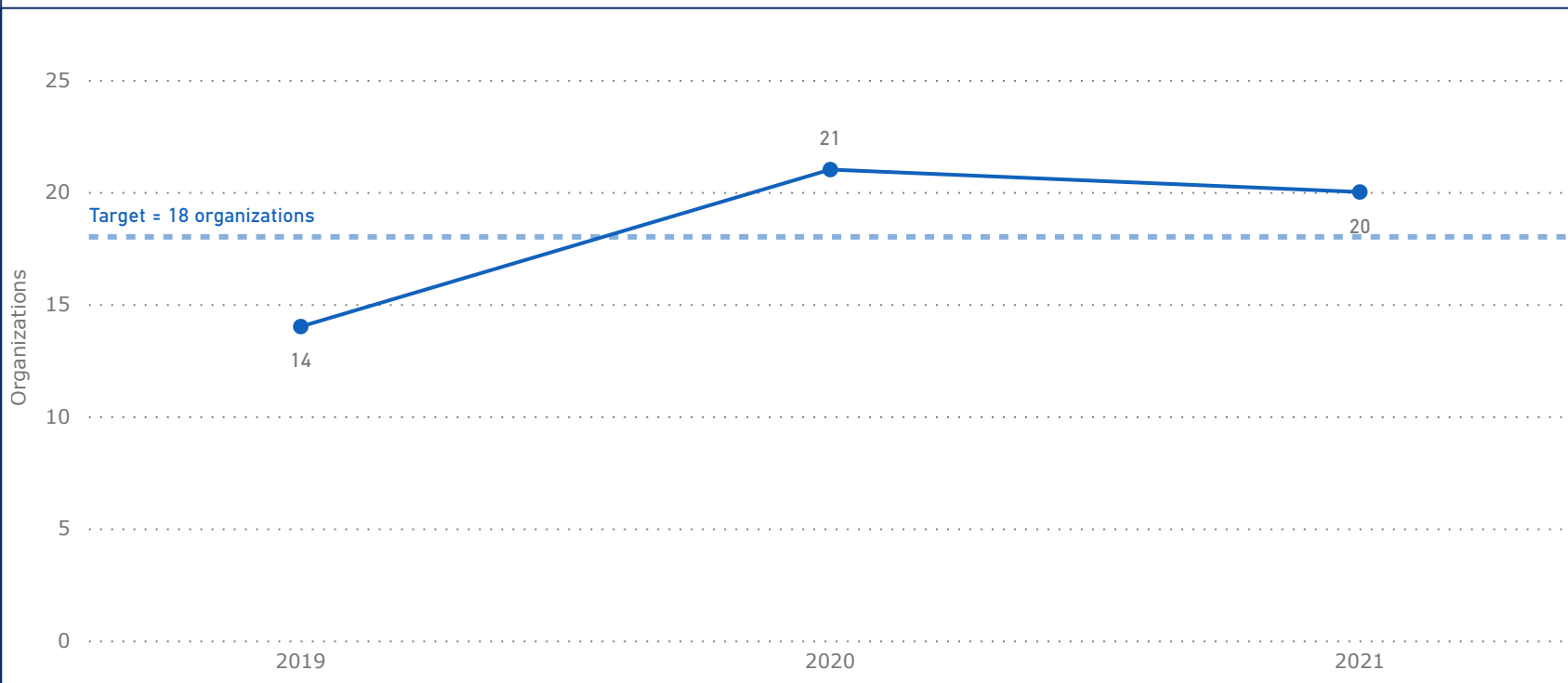
This indicator measures the number of **countries* that have** (at least one) **organization(s) that implemented Context Broker** at the time of yearly data collection.

Target
9 Member States having at least one organization that implemented Context Broker, by the end of 2020.

16
Member
States

1 ▭ 10

Disclaimer: The boundaries and names shown and the designations used on the map do not imply official endorsement or acceptance by the European Union. The designations employed and the presentation of material on the map do not imply the expression of any opinion whatsoever on the part of the European Union concerning the legal status of any country, territory or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

** The mention "**country**" refers to "EU Member States and EEA countries associated to the CEF programme".*

Public Open Data > Context Broker > Uptake > Participants in the Context Broker webinars

This indicator measures the number of **participants in each of the Context Broker webinars** at the time of yearly data collection.
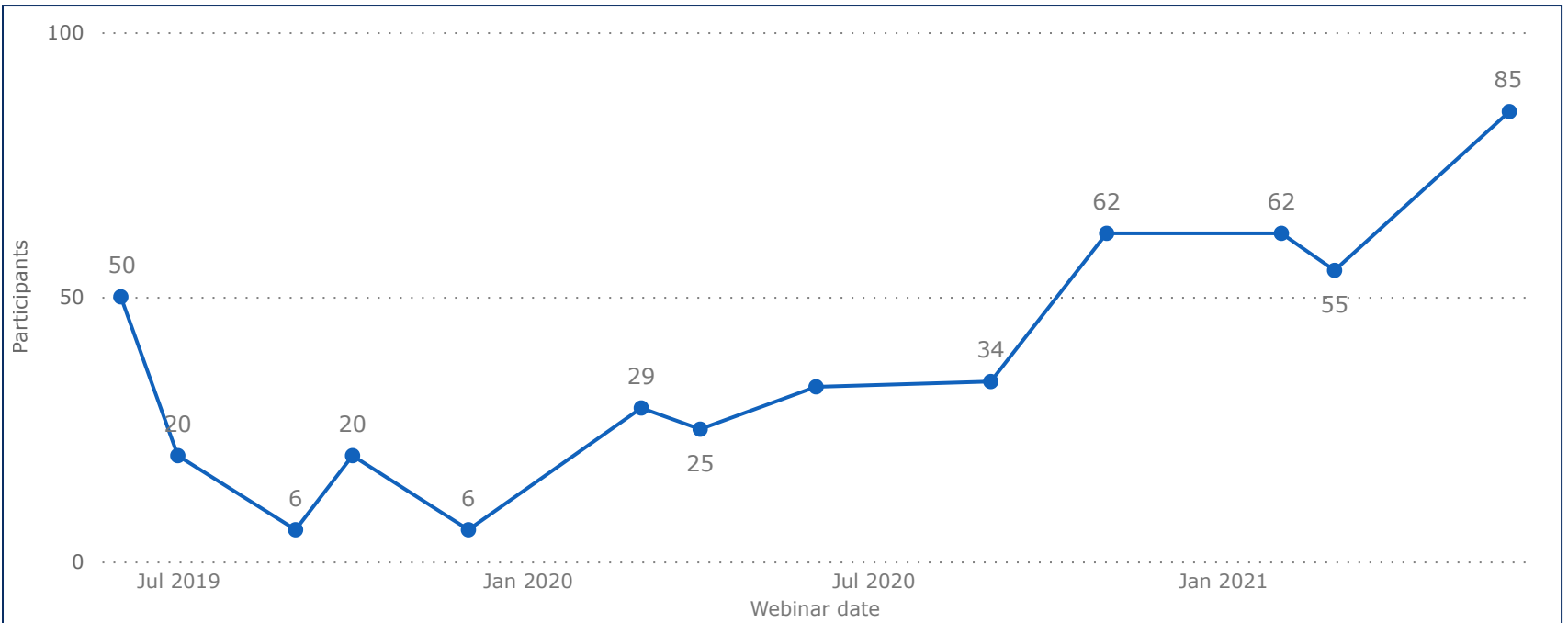
Target

The total number of participants per group of three consecutive webinars should not decline. In other words, the number of participants for the webinar following the previous group of three consecutive webinars should not decrease below the number of participants for the first webinar in the previous group (i.e. the dashed line). The difference is shown for the **latest** group of three webinars.
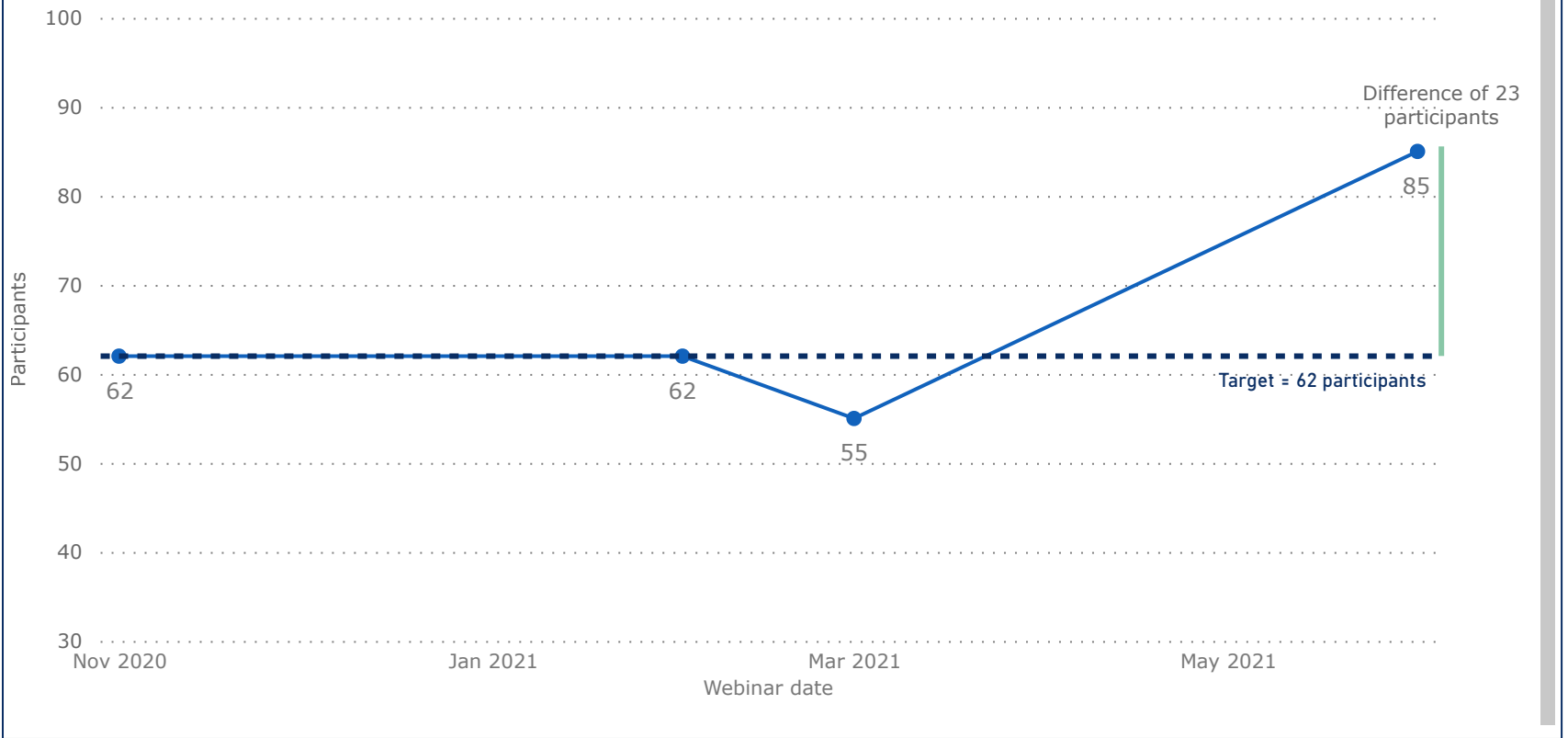
Public Open Data Milestones

All the **Public Open Data** milestones defined within the CEF Monitoring framework were successfully achieved.
A detailed overview of the milestones can be found in the table below.

Milestone title	Start date	End date	% complete	Status
Analytical report on EU law applicable to sharing of non-personal data for SCDS	01 March 2019	31 October 2019	100	Complete
Classification scheme for developer-friendly APIs for SCDS	01 March 2019	31 August 2020	100	Complete
Release of V3 of the European Data Portal	01 March 2019	31 December 2019	100	Complete
Report on the development of a modular European API licence for SCDS	01 March 2019	31 May 2020	100	Complete
Report on the development of a set of recommended contract terms for SCDS	01 March 2019	31 December 2020	100	Complete
Technical hand-over report for SCDS	01 March 2019	30 September 2020	100	Complete
Web user interface V1 for SCDS	01 March 2019	31 July 2019	100	Complete
Launch of a call for tenders for the renewal of the European Data Portal contract, guaranteering continuity of service	01 March 2020	31 December 2020	100	Complete
Release of V4 of the European Data Portal	01 March 2020	31 December 2020	100	Complete
Revised user interface, compatibility with additional metadata models (GeoDCAT-AP)	01 March 2020	31 December 2020	100	Complete
Transition to EDP management	01 January 2021	31 December 2021	100	Complete