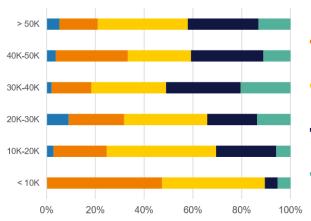


■5) Other

- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection

  1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders

Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Count

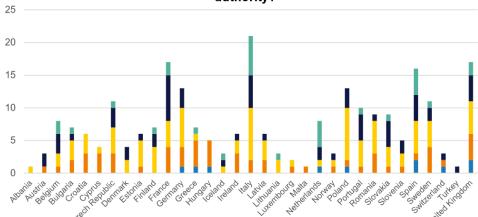


4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments

- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- ■2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- \*\*Can-unite city data collection\*\*

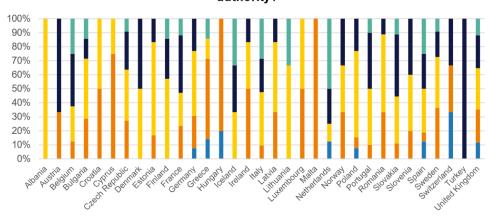
  \*\*\* 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders\*\*

Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Percentage



- 1) A holisted data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared
- ■5) Other

Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Count



- 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- ■5) Other

Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Percentage

#### **REFERENCE SAMPLE**

Question typology: Single choice

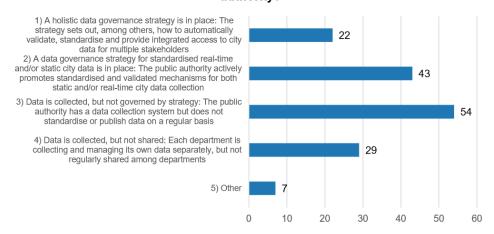
Number of analysed questionnaires: 155

Number of cities respond to this specific 155 (100%)

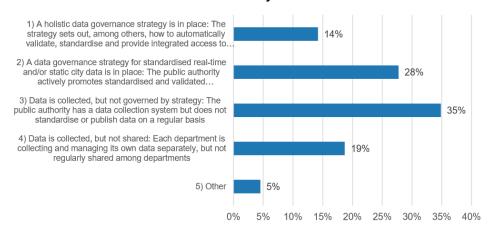
question:

Answer	Count	Percentage*
A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders	22	14%
2) A data governance strategy for standardised real- time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection	43	28%
3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis	54	35%
Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments	29	19%
5) Other	7	5%

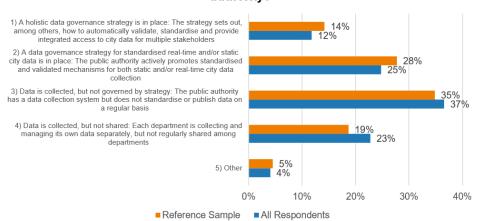
<sup>\*</sup> The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.



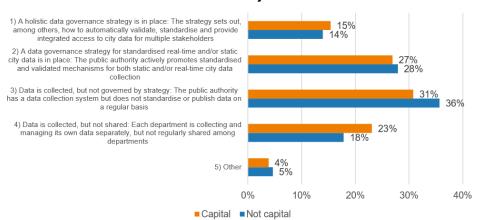
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Count



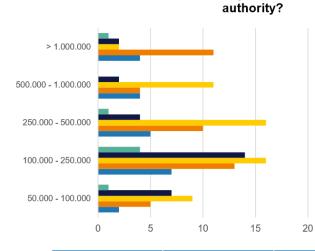
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Percentage



Question typology	Data	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

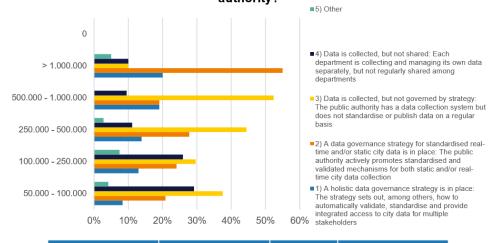


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

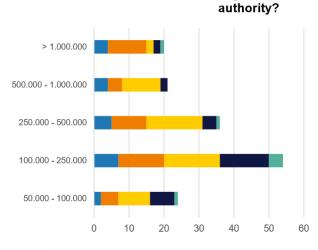


- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- ■1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

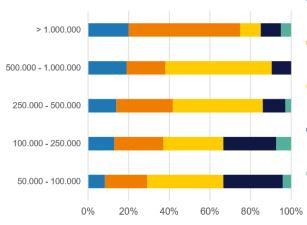


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage



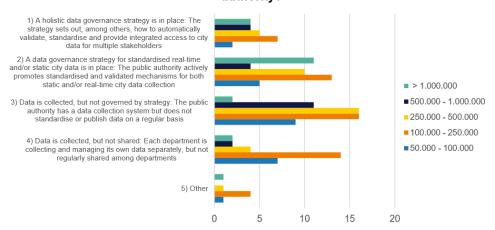
- ■1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- ■5) Other

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

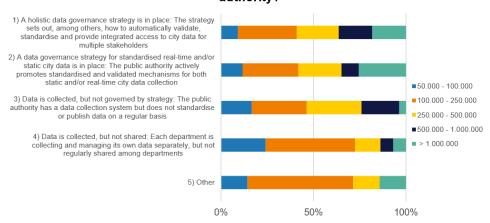


- 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- \*\*2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- ■5) Other

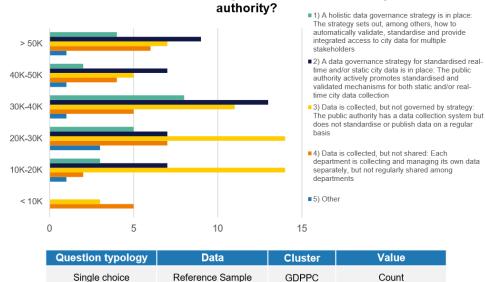
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage

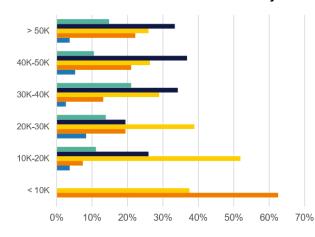


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count



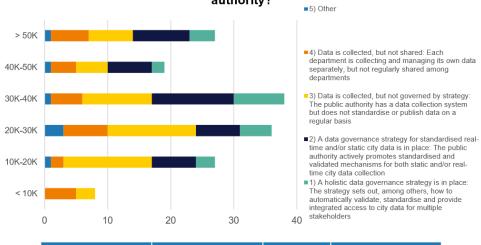
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage



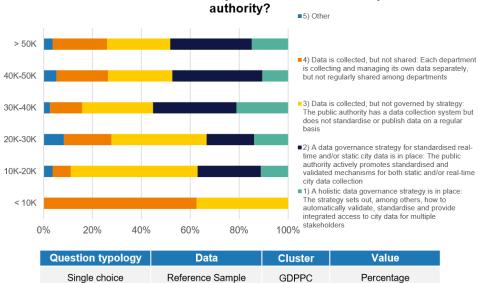


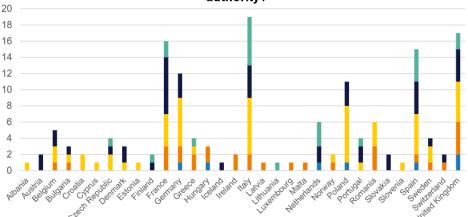
- 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- ■2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy. The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- ■5) Other

Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Percentage



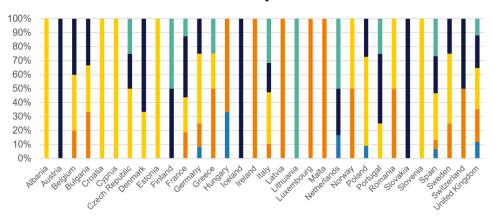
Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Count





- 1) A holistic data governance strategy is in place. The strategy sets out, among others, how to automatically validate, shindardise and provide integrated access to city data for multiple stakeholders
- •2) A data governance strategy for standardised real-time and/or static city data is in place. The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or publish data on a regular basis
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- ■5) Other

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Count



- 1) A holistic data governance strategy is in place: The strategy sets out, among others, how to automatically validate, standardise and provide integrated access to city data for multiple stakeholders
- 2) A data governance strategy for standardised real-time and/or static city data is in place: The public authority actively promotes standardised and validated mechanisms for both static and/or real-time city data collection
- 3) Data is collected, but not governed by strategy: The public authority has a data collection system but does not standardise or
- 4) Data is collected, but not shared: Each department is collecting and managing its own data separately, but not regularly shared among departments
- ■5) Other

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Percentage

#### **ALL RESPONDENTS**

Question type: Single choice - Binary

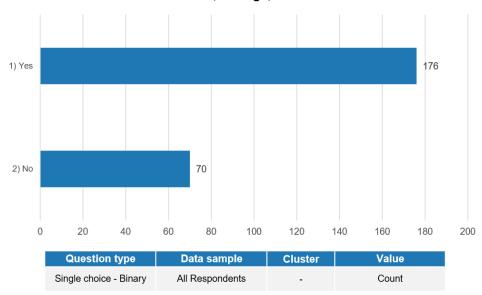
Number of analysed questionnaires: 246

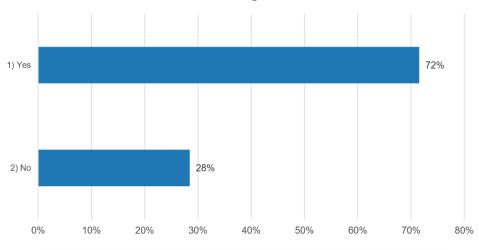
Number of cities respond to this specific 246 (100%)

question:

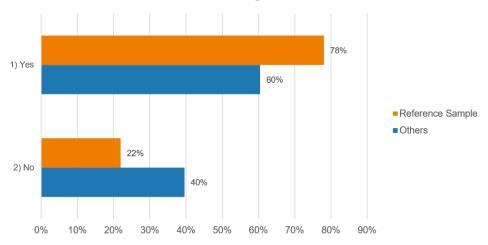
Answer	Count	Percentage*
1) Yes	176	72%
2) No	70	28%

<sup>\*</sup> The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.

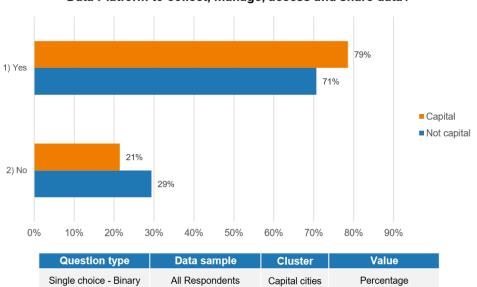


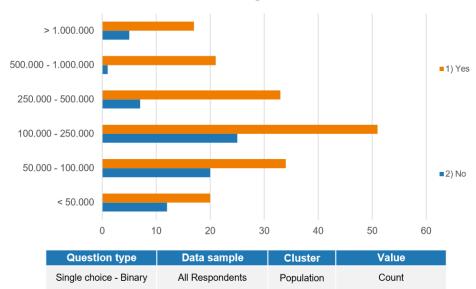


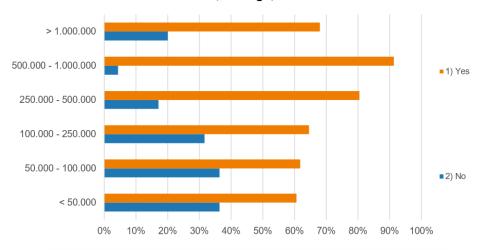
Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	-	Percentage



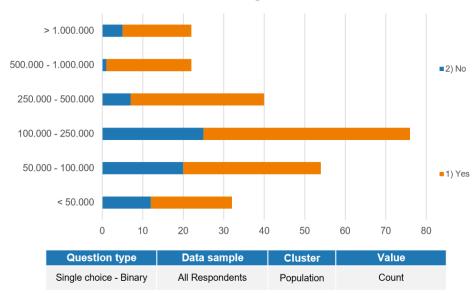
Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Reference Sample	Percentage

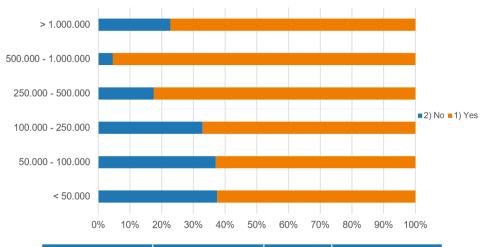




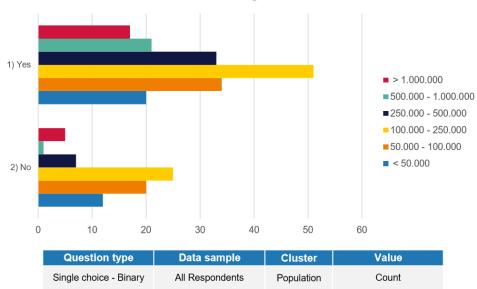


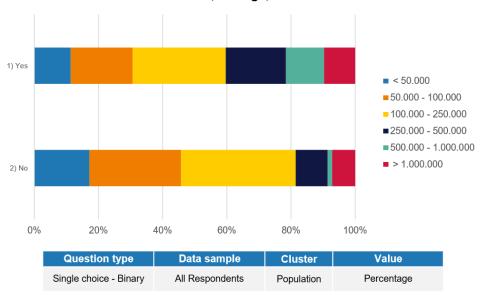
Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Percentage

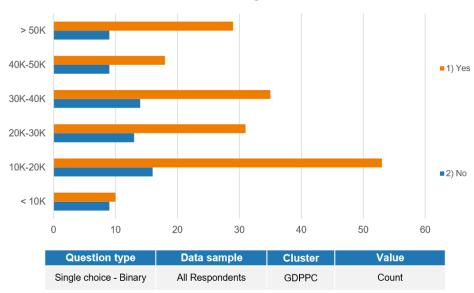


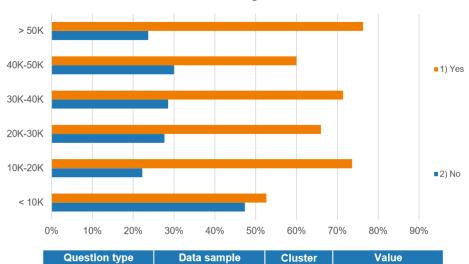


Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Population	Percentage







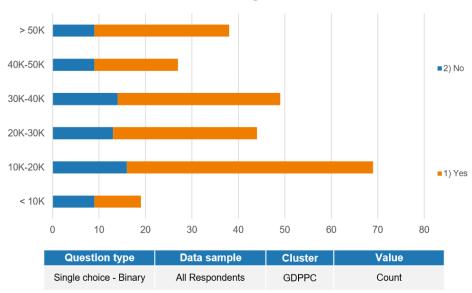


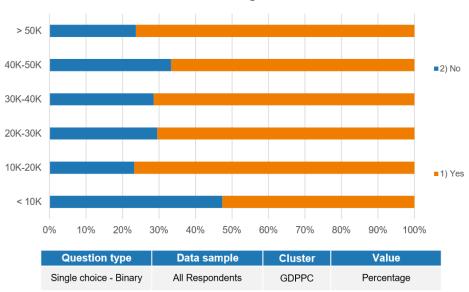
All Respondents

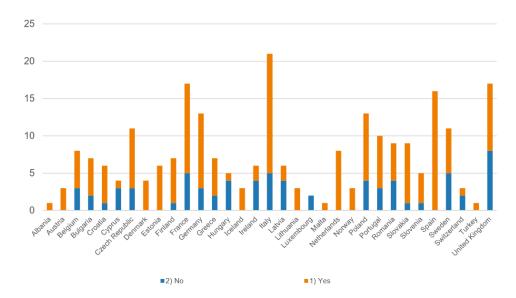
**GDPPC** 

Percentage

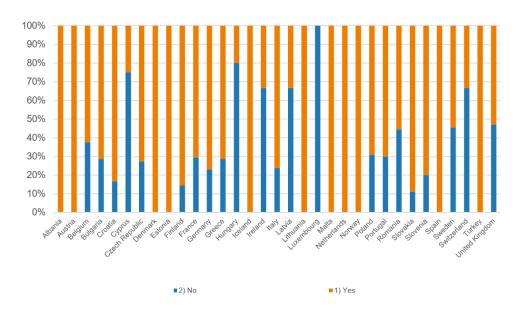
Single choice - Binary







Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Count



Question type	Data sample	Cluster	Value
Single choice - Binary	All Respondents	Country	Percentage

### **REFERENCE SAMPLE**

Question type: Single choice - Binary

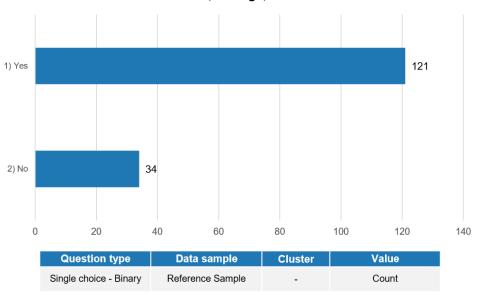
Number of analysed questionnaires: 155

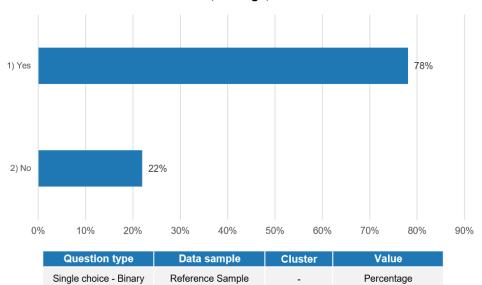
Number of cities respond to this specific 155 (100%)

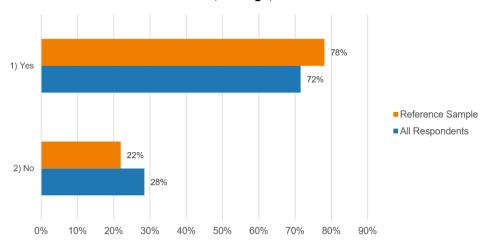
question:

Answer	Count	Percentage*
1) Yes	121	78%
2) No	34	22%

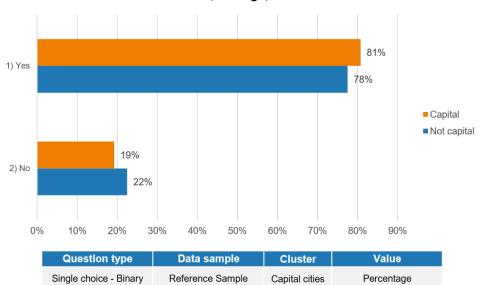
<sup>\*</sup> The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.

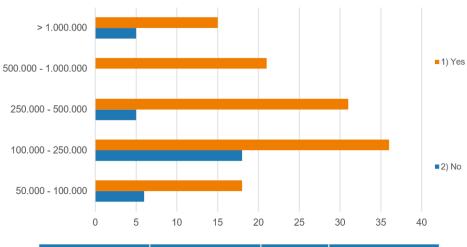




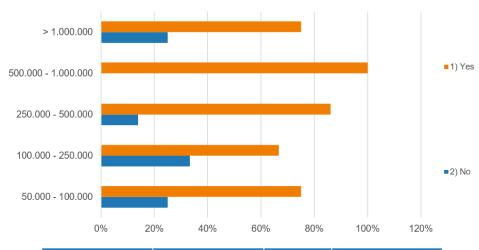


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Reference Sample	Percentage

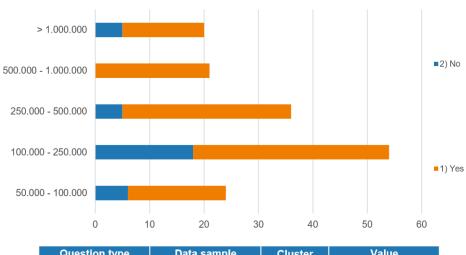




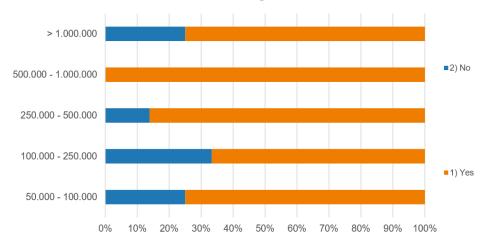
Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Population	Count



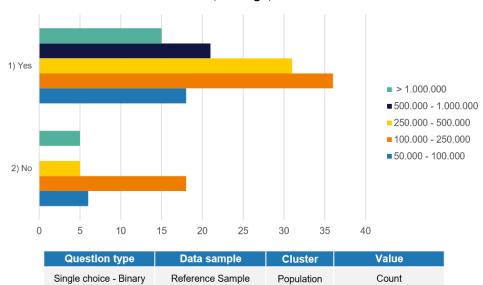
Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Population	Percentage

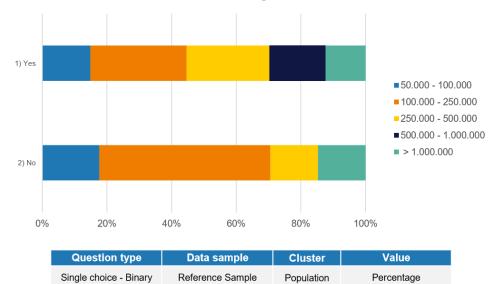


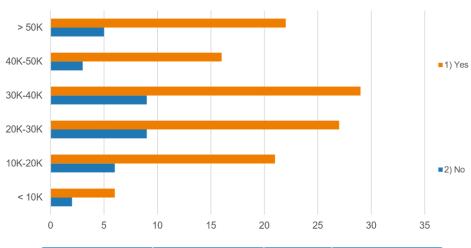
Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Population	Count



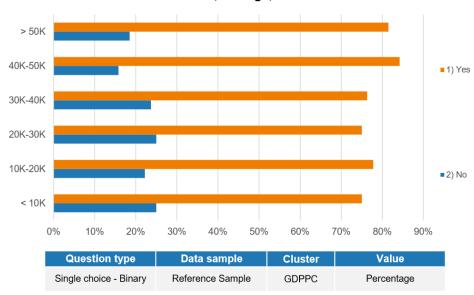
Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Population	Percentage

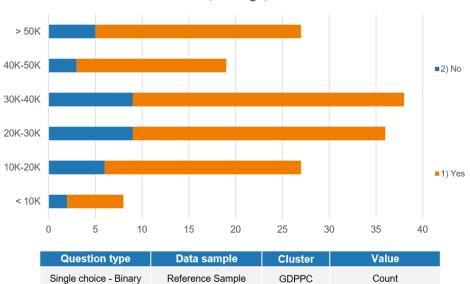


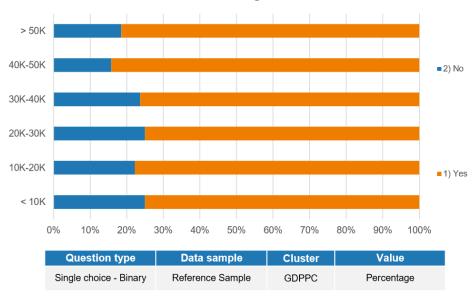


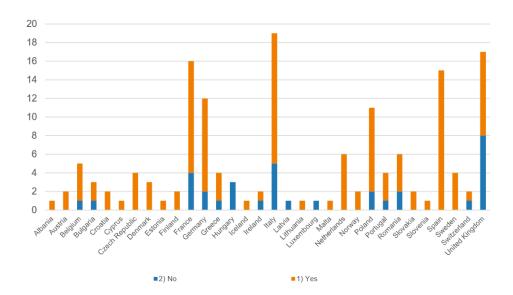


Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	GDPPC	Count



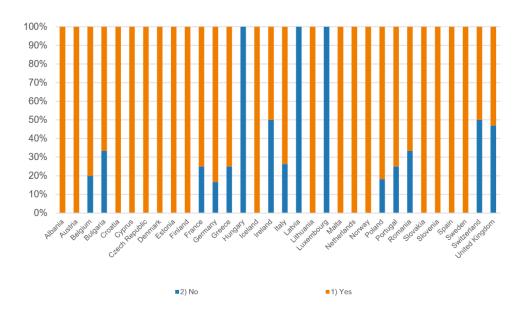






Question type	Data sample	Cluster	Value
Single choice - Binary	Reference Sample	Country	Count

5.2 Does your public authority operate / work with an Urban Data Platform to collect, manage, access and share data?



Question type	Data sample	Cluster	Value	
Single choice - Binary	Reference Sample	Country	Percentage	

### **ALL RESPONDENTS**

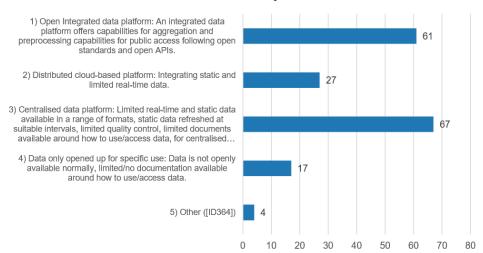
Question typology: Single choice
Number of analysed questionnaires: 246

Number of cities respond to this specific 176 (72%)

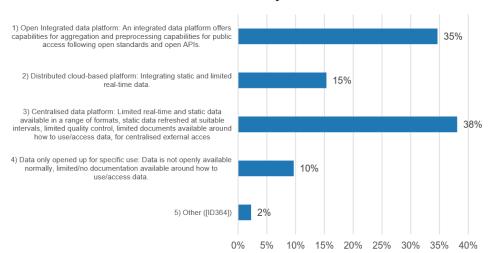
question:

Answer	Count	Percentage*
Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.	61	35%
2) Distributed cloud-based platform: Integrating static and limited real-time data.	27	15%
3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external access	67	38%
Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.	17	10%
5) Other ([ID364])	4	2%

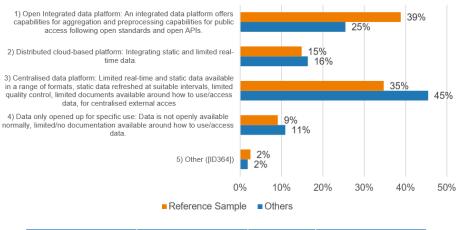
<sup>\*</sup> The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.



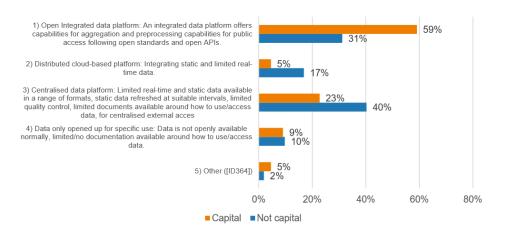
Question typology	Data	Cluster	Value
Single choice	All Respondents	-	Count



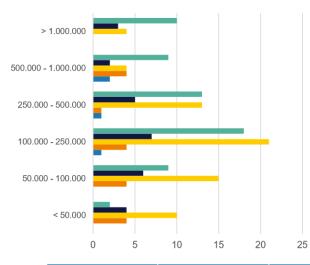
Question typology	Data	Cluster	Value
Single choice	All Respondents	-	Percentage



Question typology	Data	Cluster	Value
Single choice	All Respondents	Reference Sample	Percentage



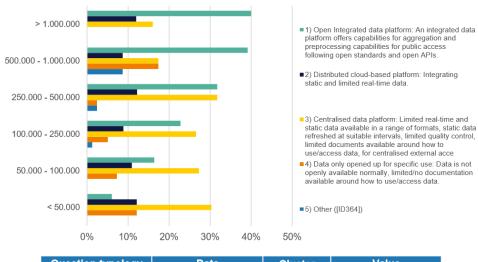
Question typology	Data	Cluster	Value
Single choice	All Respondents	Capital cities	Percentage



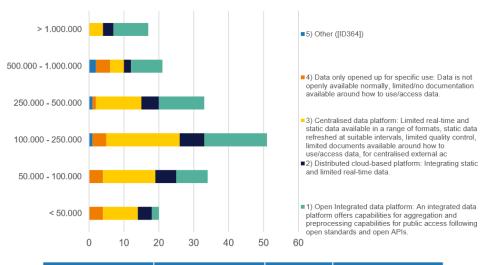
- ■1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.
- 2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external a.

  4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- ■5) Other ([ID364])

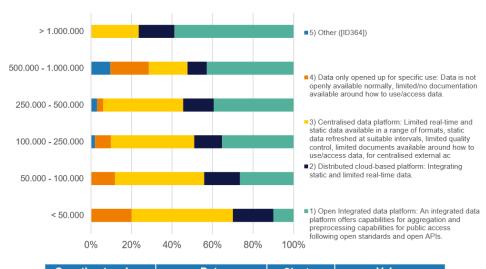
Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Count



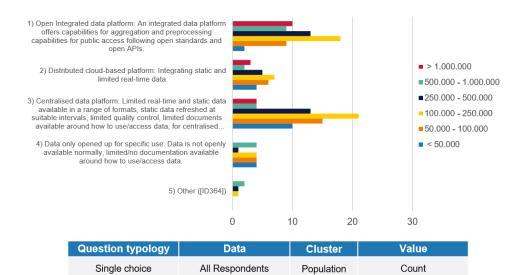
Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Percentage

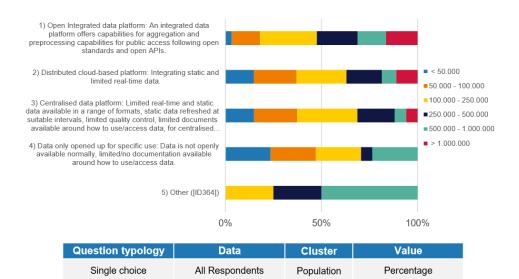


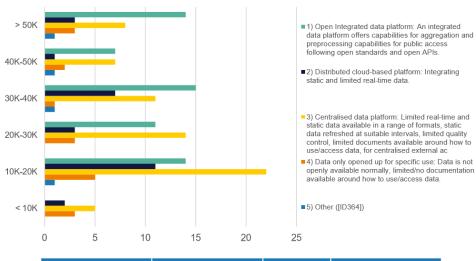
Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Count



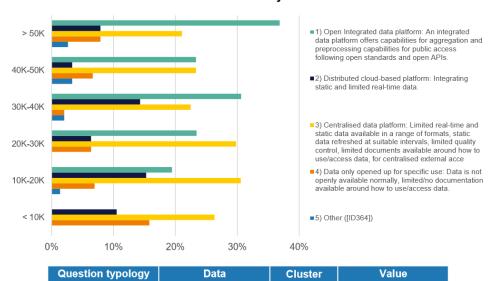
Question typology	Data	Cluster	Value
Single choice	All Respondents	Population	Percentage

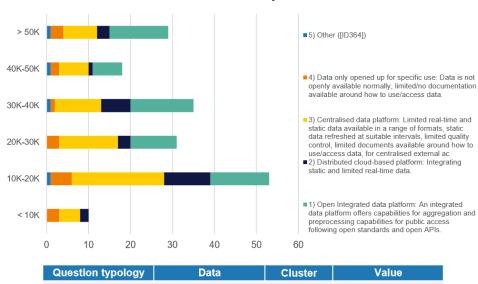






Question typology	Data	Cluster	Value
Single choice	All Respondents	GDPPC	Count



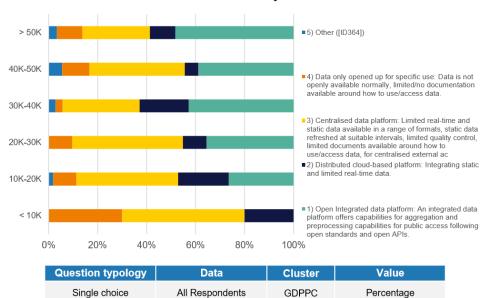


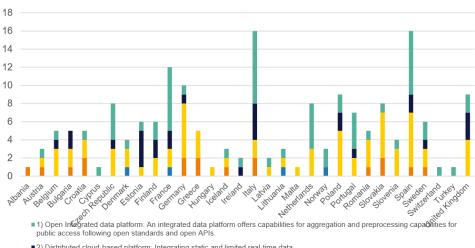
**GDPPC** 

Count

All Respondents

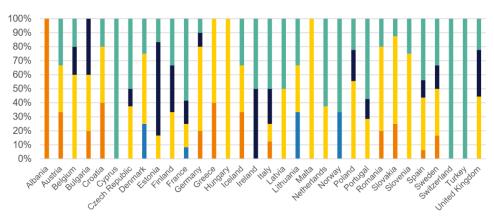
Single choice





- ■2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external ac
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- ■5) Other ([ID364])

Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Count



- 1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.
- ■2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external ac
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- ■5) Other ([ID364])

Question typology	Data	Cluster	Value
Single choice	All Respondents	Country	Percentage

### **REFERENCE SAMPLE**

Question typology: Single choice

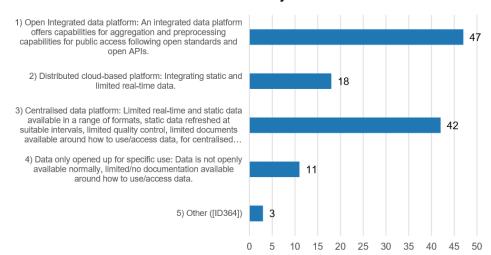
Number of analysed questionnaires: 155

Number of cities respond to this specific 121 (78%)

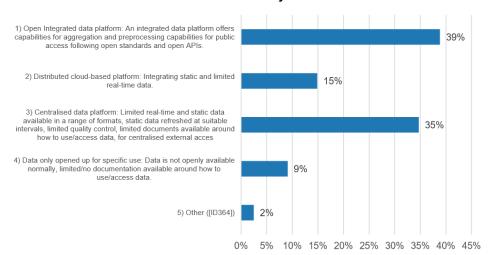
question:

Answer	Count	Percentage*
Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.	47	39%
2) Distributed cloud-based platform: Integrating static and limited real-time data.	18	15%
3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external access	42	35%
Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.	11	9%
5) Other ([ID364])	3	2%

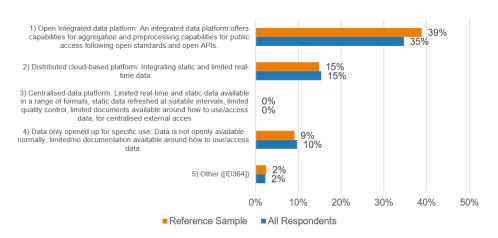
<sup>\*</sup> The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.



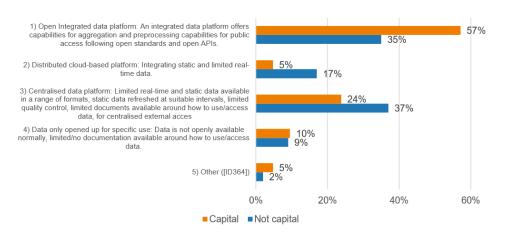
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Count



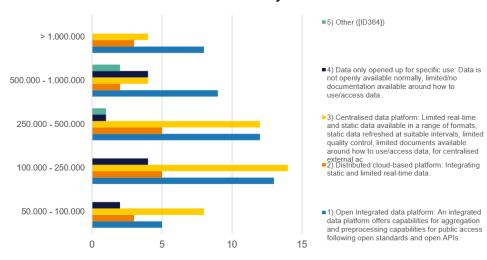
Question typology	Data	Cluster	Value
Single choice	Reference Sample	-	Percentage



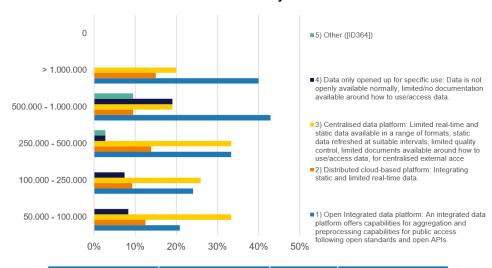
Question typology	Data	Cluster	Value
Single choice	Reference Sample	Reference Sample	Percentage

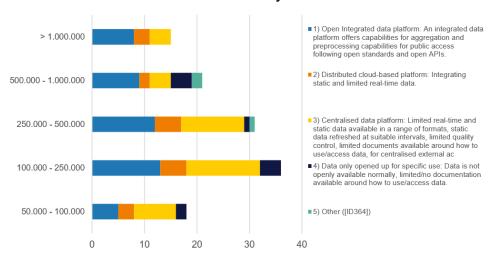


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Capital cities	Percentage

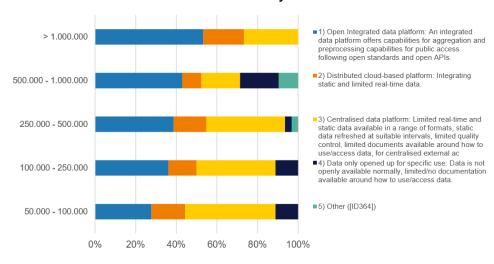


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

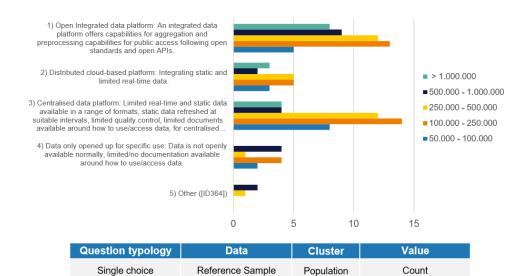


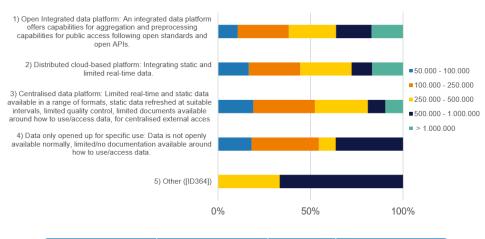


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Count

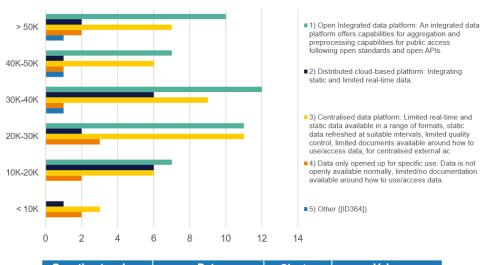


Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage





Question typology	Data	Cluster	Value
Single choice	Reference Sample	Population	Percentage



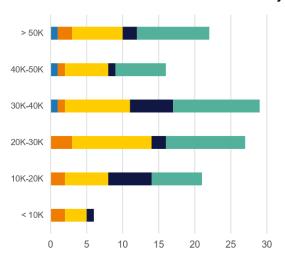


**GDPPC** 

Percentage

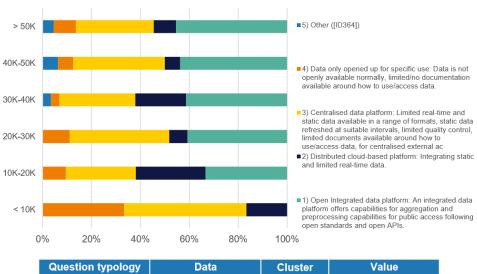
Reference Sample

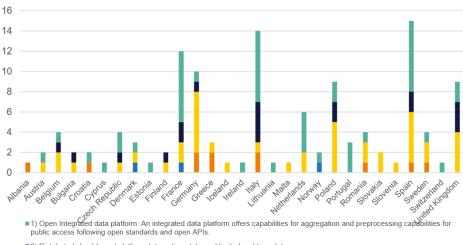
Single choice



- ■5) Other ([ID364])
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use
- ■1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs. 35

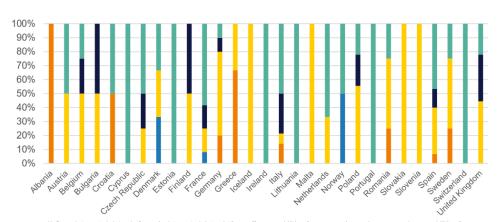
Question typology	Data	Cluster	Value
Single choice	Reference Sample	GDPPC	Count





- ■2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external ac
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- ■5) Other ([ID364])

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Count



- 1) Open Integrated data platform: An integrated data platform offers capabilities for aggregation and preprocessing capabilities for public access following open standards and open APIs.
- ■2) Distributed cloud-based platform: Integrating static and limited real-time data.
- 3) Centralised data platform: Limited real-time and static data available in a range of formats, static data refreshed at suitable intervals, limited quality control, limited documents available around how to use/access data, for centralised external ac
- 4) Data only opened up for specific use: Data is not openly available normally, limited/no documentation available around how to use/access data.
- ■5) Other ([ID364])

Question typology	Data	Cluster	Value
Single choice	Reference Sample	Country	Percentage

### **ALL RESPONDENTS**

Question type: Multiple choice

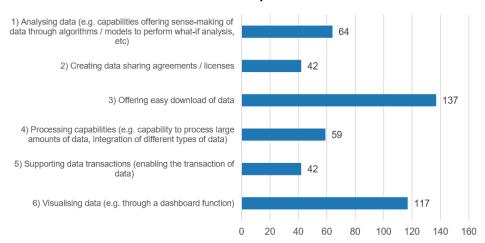
Number of analysed questionnaires: 246

Number of cities respond to this specific 176 (72%)

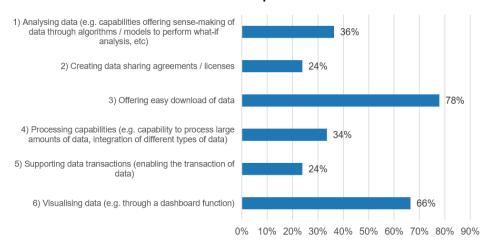
question:

Answer	Count	Percentage*
Analysing data (e.g. capabilities offering sense- making of data through algorithms / models to perform	64	36%
2) Creating data sharing agreements / licenses	42	24%
3) Offering easy download of data	137	78%
Processing capabilities (e.g. capability to process large amounts of data, integration of different types of	59	34%
Supporting data transactions (enabling the transaction of data)	42	24%
6) Visualising data (e.g. through a dashboard function)	117	66%

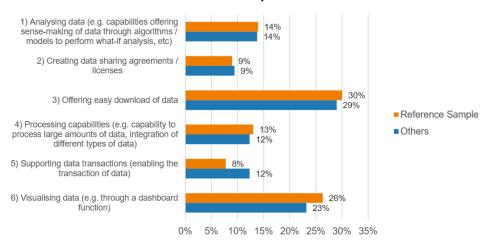
 $<sup>^{*}</sup>$  The percentage refers to the respondents to this specific question. The grand total could be more than 100% in the case of multiple choice questions.



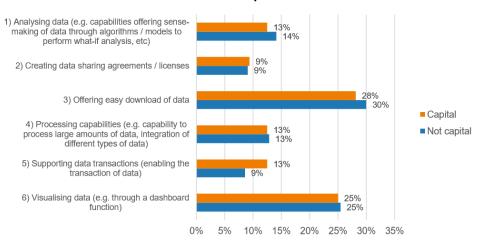
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Count



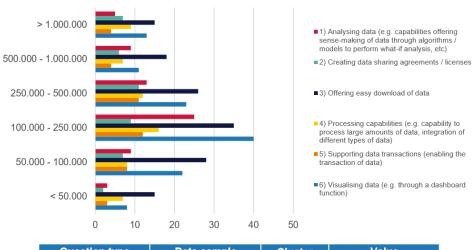
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	-	Percentage



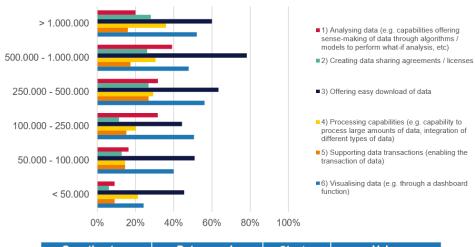
Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Reference Sample	Percentage



Qu	estion type	Data sample	Cluster	Value
Mu	Itiple choice	All Respondents	Capital cities	Percentage



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Count



Question type	Data sample	Cluster	Value
Multiple choice	All Respondents	Population	Percentage

