

ELISE action survey:

Evolution of the access to spatial data for environmental purposes

Fields marked with * are mandatory.



The Joint Research Centre of the European Commission through the *European Location Interoperability Solutions for e-Government* ISA² action - <u>ELISE action</u>, is conducting the following survey with the **objectiv** e of obtaining evidence on how the access and use of spatial data for environmental purposes has evolved over the last decade.

The survey is aimed at any person or organisation making use of spatial data for environmental purposes, and in particular at those practitioners involved in the preparation of Environmental Impact Assessment (EIA) and Strategic Environmental Assessment (SEA) reports.

The survey should take <u>about 15 minutes</u> to be completed and will be open until <u>the end of November</u> 2020.

Find detailed information on the goals of the study to which this survey contributes in the <u>ELISE action's</u> dedicated website.

Thank you for taking the time to complete this questionnaire for us!

Answers will be processed and handled according to the rules of the Regulation (EU) 2016/679 (General Data Protection Regulation). Please, read the <u>privacy statement</u> for this survey.

If you have any questions about the questionnaire, please contact: eu-location@ec.europa.eu.

1 About you

* Who do you represent?

* Other non - EU country

Afghanistan

In this section, we would like to know some details about you /your organisation to relate them with to the way spatial data is used for environmental or any other purposes.

0	Large sized enterprise (250 or more employees)		Regional/local administration
0	Medium-sized enterprise (50 to 250 employees)		Academia / research organisation
0	Small-sized enterprise (10 to 50 employees)		Non-governmental organisation (NGO)
0	Micro-sized enterprise (fewer than 10 employees)		Individual citizen
0	National administration		
* Select	your current country of residence or where you	r org	anisation is based.
0	Austria		
0	Belgium		
	Bulgaria		
	Croatia		
	Cyprus		
	Czechia		
0	Denmark		
	Estonia		
	Finland		
	France		
0	Germany		
0	Greece		
0	Hungary		
0	Ireland		
0	Italy		
0	Latvia		
0	Lithuania		
0	Luxembourg		
0	Malta		
0	Netherlands		
0	Poland		
0	Portugal		
0	Romania		
0	Slovakia		
	Slovenia		
0	Spain		
	Sweden		
	Other non- EU country		

2

	Albania
0	Algeria
	Andorra
	Angola
	Antigua and Barbuda
	Argentina
\bigcirc	Armenia
\bigcirc	Australia
\bigcirc	Azerbaijan
	Bahamas
	Bahrain
	Bangladesh
	Barbados
	Belarus
	Belize
	Benin
	Bhutan
	Bolivia
	Bosnia and Herzegovina
	Botswana
	Brazil
	Brunei Darussalam
	Burkina Faso
	Burundi
	Cabo Verde
	Cambodia
	Cameroon
	Canada
	Central African Republic
	Chad
	Chile
	China
	Colombia
	Comoros
	Congo
	Costa Rica
	Croatia
	Cuba
	C�te D'Ivoire
	Democratic Republic of the Congo Djibouti
	Dominica
	Dominican Republic Ecuador
	Egypt
	El Salvador
0	
	-9-400141 -4011104

- Eritrea
- Eswatini
- Ethiopia
- Fiji
- Gabon
- Gambia
- Georgia
- Ghana
- Grenada
- Guatemala
- Guinea
- Guinea Bissau
- Guyana
- Haiti
- Honduras
- Iceland
- India
- Indonesia
- Iran
- Iraq
- Israel
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya
- Kiribati
- Kuwait
- Kyrgyzstan
- Laos
- Lebanon
- Lesotho
- Liberia
- Libya
- Liechtenstein
- Lithuania
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Marshall Islands
- Mauritania
- Mauritius
- Mexico
- Micronesia
- Monaco

0	Mongolia
	Montenegro
	Morocco
	Mozambique
	Myanmar
	Namibia
	Nauru
	Nepal
	New Zealand
	Nicaragua
	Niger
	Nigeria
	North Korea
	North Macedonia
	Norway
	Oman
	Pakistan
	Palau
	Panama
	Papua New Guinea
	Paraguay
	Peru
	Philippines
	Poland
	Qatar
	Republic of Moldova
	Rwanda
	Saint Kitts and Nevis
	Saint Lucia
	Saint Vincent and the Grenadines
	Samoa
	San Marino
	Sao Tome and Principe
	Saudi Arabia
	Senegal
	Serbia
	Seychelles

Sierra LeoneSingapore

SomaliaSouth AfricaSouth KoreaSouth SudanSri LankaSudan

Solomon Islands

	Suriname	
0	Switzerland	
	Syrian Arab Republic	
	Tajikistan	
0	Tanzania	
0	Thailand	
0	Timor-Leste	
0	Togo	
0	Tonga	
0	Trinidad and Tobago	
0	Tunisia	
	Turkey	
	Turkmenistan	
	Tuvalu	
	Uganda	
0	Ukraine	
0	United Arab Emirates	
0	United Kingdom	
0	United States of America	
	Uruguay	
	Uzbekistan	
	Vanuatu	
	Venezuela	
0	Viet Nam	
	Yemen	
0	Zambia	
	Zimbabwe	
* Do yo	u work in the environmental field?	
	Yes	
	No	
* In whi	ch activities are you/is your organisation invo	blved?
Please	choose all that apply:	
	General consultancy in environmental matters	Civil emergency management
	Water management	Wildlife Management
	Waste management	Natural Resource Management
	Urban and land use planning	Public Health
	Traffic management	Environmental Health / Pollution Control
	Eco-audits	Other
	Environmental policy monitoring	
	e specify which other activities.	
100	character(s) maximum	

* Do you or does your organisation carry out:

50-75 %75-100 %

Before answering you can check in the background documents section, the name and acronym of the different environmental assessment types in the European Union official languages. Next are provided some definitions:

• Environmental Impact Assessment (EIA): A public process by which the likely effects of a project on the environment are identified, assessed and then taken into account by the consenting authority in the decision-making process. [Sheate, W et al. Imperial College of London Consultant Ltd]

	Strategic Environmental Assessment (SEA): A form of environmental assessment intended to identify and assess the likely significant effects of a plan or programme on the environment, the results of which are then taken into account by the consenting authority in the decision-making process. [Sheate, W et al Imperial College of London Consultant Ltd]
Please	choose only one of the following:
	Environmental Impact Assessment (EIA)
	Strategic Environmental Assessment (SEA)
	Both EIA and SEA
	None of the above / Not applicable
	dicated that your organisation is not involved in <u>Environmental Impact Assessment (EIA)</u> and/or <u>Strategic and Strategic and St</u>
involve	nvironmental Assessment (SEA) reporting. What are the core activities in which your organisation is
	oriefly describe the core activities of your organisation.
2 En	vironmental assessment activities
In this	section we would like to know more about the characteristics of the Environmental Impact sments (EIA) and Strategic Environmental Assessments (SEA) activities your organisation
In this Asses undert	section we would like to know more about the characteristics of the Environmental Impact sments (EIA) and Strategic Environmental Assessments (SEA) activities your organisation akes. any people in your organisation are involved in preparing Environmental Impact Assessment (EIA) a
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* How many Environmental Impact Assessments (EIA) does your organisation carry out per year?
© 1-5
© 6-10
© 11-25
© 26-50
© 51-100
© 101-500
© >500
* How many Strategic Environmental Assessments (SEA) does your organisation carry out per year?
© 1-5
© 6-10
© 11-25
© 26-50
© 51-100
O 101-500
© >500
* If you had to estimate the annual turnover for carrying out <i>Environmental Impact Assessments (EIA)</i> ,
roughly into which of the following bands would you place it?
<100 000 Euros
101 000 to 250 000 Euros
251 000 to 500 000 Euros
500 000 to 1 millions Euros
1 million to 5 millions Euros
5 millions to 10 millions Euros
>10 millions Euros
* If you had to estimate the annual turnover for carrying out <i>Strategic Environmental Assessments (SEA)</i> ,
roughly into which of the following bands would you place it?
<100 000 Euros
101 000 to 250 000 Euros
© 251 000 to 500 000 Euros
© 500 000 to 1 million Euros
1 million to 5 millions Euros
5 millions to 10 millions Euros
>10 millions Euros
What percentage of the total annual turnover of your organisation represents the turnover for carrying out <u>I</u> nvironmental Impact Assessments (EIA) and/or <u>Strategic Environmental Assessments (SEA)</u> ?
O < 10 %
© 10 - 25 %
© 25 - 50 %
© 50-75 %
© 75-100 %

For which kind of projects, according to Ann ronmental Impact Assessments (EIA)?	nex II of the EIA Directive, does your organisation carry out <i>Envi</i>
Please choose all that apply:	
Agriculture, silviculture and aquaculture	Textile; leather; wood and paper industries
Energy industry	Rubber industry
Production and processing of metals	☐ Infrastructure projects
Extractive industry	Disposal of waste
Mineral industry	Tourism and leisure
	Other
Chemical industry	Cirier Other
Food industry	
Please specify for which other types of proje Assessments (EIA)?	ects does your organisation carry out Environmental Impact
100 character(s) maximum	
For which kind of plans and programmes do Assessments (SEA)?	es your organisation carry out Strategic Environmental
Please choose all that apply:	
Agriculture Water manag	rement
Forestry Telecommuni	
Fisheries Tourism	Callons
Energy Town & Coun	atry planning
	my planning
☐ Transport ☐ Other	
Waste management	
Please specify for which other types of plan	your organisation carry out <i>Strategic Environmental</i>
Assessments (SEA).	your organisation outly out <u>orratogre zittioninentar</u>
100 character(s) maximum	
What is the average time needed to complete	e an Environmental Impact Assessment (EIA) report?
< 2 weeks	
2 weeks - 1 month	
1 month - 3 months	
3 months - 6 months	
6 months - 1 year	
1 year - 2 years	
> 2 years	
	e a <i><u>Strategic Environmental Assessment (SEA)</u></i> report?
< 2 weeks	

	- 1 month			
1 month	- 3 months			
3 months	- 6 months			
6 months	s - 1 year			
0 1 year - 2	-			
> 2 years				
- > L you.	•			
Varm amaniaati		.t Covinsonantal I	Import Accessment (FIA) and law Christonia Environmental	
_			Impact Assessment (EIA) and/or Strategic Environmental Please select all the countries where your organisation	
carries out EIA		merent countries.	. Flease select all the countries where your organisation	
Please choose all				
Austria	Estonia	Italy	Portugal	
Belgium	Finland	Latvia	Romania	
Bulgaria	France	Lithuania	Slovakia	
Croatia				
	Germany	Luxembourg		
Cyprus	Greece	Malta	Spain	
Czechia	Hungary	Netherlands	Sweden	
Denmark	Ireland	Poland	Other non-EU country	
	which non-FILe	ountry or countries	es.	
Please specify	WINCH HOH-LO C			
200 character				
		-		
200 character	(s) maximum	ansboundary and/	or multi-country <i>Environmental Impact Assessment (EIA)</i>	
200 character	perience with tr	ansboundary and/		<u></u>
200 character	perience with tr			<u>,</u>
* Do you have example and/or Strateging Yes	perience with tr			
* Do you have example and/or Strategic	perience with tr			
* Do you have exand/or Strategin	perience with tr	l Assessment (SEA	<u>reports?</u>	<u>,</u>
* Do you have exand/or Strateging No Could you plea	perience with tr	Assessment (SEA	reports? nsboundary and/or multi-country <i>Environmental Impact</i>	
* Do you have exand/or Strategin No Could you plea	perience with tree Environmental	Assessment (SEA	<u>reports?</u>	<u>)</u>
* Do you have exand/or Strateging No Could you plea	perience with tree Environmental	Assessment (SEA	reports? nsboundary and/or multi-country <i>Environmental Impact</i>	<u>)</u>
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* Do you have exand/or Strateginal Yes No Could you pleat Assessment (Example 200 character)	perience with tree Environmental see provide some	Assessment (SEA	nsboundary and/or multi-country <u>Environmental Impact</u>	
* Do you have exand/or Strategin Yes No Could you pleat Assessment (Example 200 character)	perience with tree Environmental see provide some (IA) and/or Strate	e examples of transegic Environmenta	nsboundary and/or multi-country Environmental Impact al Assessment (SEA) you have been involved in?	<u> </u>
* Do you have exand/or Strategin Yes No Could you pleat Assessment (Example 200 character)	perience with tree Environmental see provide some (IA) and/or Strate	e examples of trans	nsboundary and/or multi-country Environmental Impact al Assessment (SEA) you have been involved in?	<u> </u>
* Do you have exand/or Strategin Yes No Could you pleat Assessment (Example 200 character)	perience with tree Environmental see provide some (IA) and/or Strate	e examples of transegic Environmenta	nsboundary and/or multi-country Environmental Impact al Assessment (SEA) you have been involved in?	<u>'</u>
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* Do you have example and/or Strategin Yes No Could you plea Assessment (Example 200 character) In this section in Addresse choose all Addresse	perience with trace Environmental see provide some (IA) and/or Strate (IS) maximum Peristics of we focus on your which of the following that apply [*classific	the use of spatial data	reports? Insboundary and/or multi-country Environmental Impact and Assessment (SEA) you have been involved in? Sepatial data Install data Install data	

	Area management, restriction, regulation	zones and reporting		features
		zones and reporting		
	units			Mineral resources
	Atmospheric conditions			Natural risk zones
	Bio-geographical regions			Oceanographic geographical
				features
	Buildings			Orthoimagery
	Cadastral parcels			Population distribution -
				demography
	Coordinate reference systems			Production and industrial facilities
	Elevation			Protected sites
	Energy resources			Sea regions
	Environmental monitoring facilities			Soil
	Geographical grid systems			Species distribution
	Geographical names			Statistical units
	Geology			Transport networks
_	Habitats and biotopes			Utility and governmental services
	•			Other
	numan nealth and salety			
	Human health and safety Hydrography , specify what other spatial data theme	e(s) is/are used by yo	ou/your	organisation:
ase,	Hydrography , specify what other spatial data theme			
ase,	Hydrography			
ase,	Hydrography , specify what other spatial data theme		organis	sation?
o ar	Hydrography , specify what other spatial data theme re the main suppliers of the spatial data choose all that apply:	a used by you/your	organis uthoritie	sation?
o ar	Hydrography , specify what other spatial data theme re the main suppliers of the spatial data choose all that apply: Environmental protection agencies	a used by you/your	organis uthoritie rities	sation?
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ase,	Hydrography , specify what other spatial data theme re the main suppliers of the spatial data choose all that apply: Environmental protection agencies Mapping agencies Geological surveys	a used by you/your Regional/local a European autho Community expe	organis uthorities rities erts ducers	sation?
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o ar	Hydrography , specify what other spatial data theme re the main suppliers of the spatial data choose all that apply: Environmental protection agencies Mapping agencies Geological surveys Statistical offices	Regional/local a European autho Community expe	organis uthorities rities erts ducers	sation?

Could you please provide more details on these transboundary and multi-country scenarios?

* Considering the preparation of <i>Environmental Impact Assessment (EIA)</i> and/or <i>Strategic Environmental Assessment (SEA)</i> reports, what proportion of the total cost comes from data acquisition?
© <5%
© 5% - 10%
© 10% - 20%
© 20% - 30%
○ > 30%
Does your organisation reuse data that was acquired for one <u>Environmental Impact Assessment (EIA)</u> and or <u>Strategic Environmental Assessment (SEA)</u> report to produce other EIA/SEA reports?
Always
Often
Sometimes
O Never
* For which types of operation does your organisation use the spatial data when producing Environmental Impact Assessment (EIA) and/or Strategic Environmental Assessment (SEA) reports? Please choose all that apply: Baseline assessment Visualisation/presentation of impacts Identification of impacts Simple analysis and processing to forecast impacts (proximity, overlay operations) Complex analysis and processing, e.g. using modelling and scenario analysis, to forecast impacts Other Please explain which other types of operation. 200 character(s) maximum
4 Challenges with spatial data
In this section we would like to know about the problems you experience in finding, accessing and using spatial data.
* Do you experience any problems with spatial data in terms of: Please choose all that apply: Finding it Accessing it

Integrating and using it with other data	
Its quality	
Its costs	
Other	
I do not experience any problems with spatial data	
Please explain which other type of problems you experience with spatial data.	
and the second beautiful and the second seco	
Which problems do you experience with finding spatial data?	
Please choose all that apply:	
It is difficult for me to know which data is available	
Incomplete or missing descriptions of data (metadata)	
I'm not able to discover the data I need through mainstream search engines	
I'm not able to discover all the data I need through a single portal	
☐ I'm not able to understand the descriptions of some data, since they are in another language	
Metadata not machine-readable	
Incladata not machine readable	
Which much laws do you avacuing with accepting anoticl date?	
Which problems do you experience with <u>accessing</u> spatial data?	
Please choose all that apply: Access to some datasets is limited or prohibited to me	
Access control mechanisms in place	
☐ I need access to former/older data versions which no longer are available	
I do not understand the licensing conditions for re-use	
I'm not able to access the data through web services (e.g. APIs)	
I'm not able to access the data through one single access point	
Some data I need are not digitised	
Lack of real-time data (dynamic data)	
Which problems do you experience with <u>using</u> spatial data?	
Please choose all the problems that apply:	
Data has different granularity (different scale, resolution, time,)	
Data is not up-to-date	
I have difficulties in integrating spatial data with other data	
Incompatible licensing models for different datasets	
Lack of human resources, capacity and knowledge	
Issues with location privacy/GDPR	
Different data encodings	
Data not machine-readable	
Data incompatibility issues	
Which problems do you experience with the quality of spatial data?	
Please choose all the problems that apply:	
Data is not accurate (e.g. duplicates, misclassification)	

	Data is not complete (e.g. missing attributes, missing number of features)
	Data has insufficient granularity (e.g. low resolution, scale,)
	Data is not consistent (topological inconsistency- missing connections, self-intersect and/or self-overlap
	errors-)
	Data is not up-to-date
hich	problems do you experience with the costs of spatial data?
	choose all the problems that apply:
	Costs are too high
	Costs are not clearly documented
	Cost model is not suitable to my needs
	Cook model to het canasie to my neede
	experience specific problems with spatial data when using them for transboundary and/or multi-
unt	y use cases?
Im	pacts and benefits
nis i	nal section deals with the impact of problems in accessing and using spatial data, but also with
nitiati	ves for improving the accessibility and usability of data.
itiati	ves for improving the accessibility and usability of data.
nitiati	ves for improving the accessibility and usability of data.
ow c	o the problems pointed out in the previous section affect the preparation of <i>Environmental Impact</i>
ow c	
ow o	to the problems pointed out in the previous section affect the preparation of <u>Environmental Impact</u> Siment (EIA) and/or <u>Strategic Environmental Assessment (SEA)</u> reports? Choose all that apply:
ow o	o the problems pointed out in the previous section affect the preparation of <u>Environmental Impact</u> sment (EIA) and/or <u>Strategic Environmental Assessment (SEA)</u> reports?
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	* discoverability of data * availability of data * accessibility of data * interoperability of data	Significant O O	Moderate O O O	Minimal O O	None O O O O O	Don't know	mproving
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* reuse and data-sharing

* usability of data

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How would you assess the impact of the following policies & initiatives in making available more spatial data?

Please indicate your views on the impact of each of the following policy initiatives.

	Significant	Moderate	Minimal	None	Don't know
* The INSPIRE Directive - Directive 2007/2 /EC	0	0	0	0	0
* The Open Data Directive - <i>Directive (EU)</i> 2019/1024	©	0	0	0	0
* The Directive on public access to environmental information - Directive 2003/4/EC	0	0	0	0	0
* Copernicus - The European Earth Observation Programme	0	0	0	0	0
Other - please indicate which other policy initiative in the next field together with the answer	0	0	0	0	0

Please indicate which other policy initiative(s) having an impact on the availability of spatial data

Please indicate which other policy initiative(s) together with its impact:[Significant, Moderate, Minimal, None]	

How would you assess the impact of the following developments and/or emerging technologies in better exploiting spatial data?

Please indicate your views on the impact of each of the followings trends, by selection the option that best matches your view.

	Significant	Moderate	Minimal	None	Don't know
* Volunteered Geographic Information (VGI) and citizen-generated data	0	0	0	0	0
* Big data	0	0	0	0	0
* Linked data	0	0	0	0	0
* Edge, fog and cloud computing	0	0	0	0	0
* Artificial intelligence, machine learning, deep learning	0	0	0	0	0
* Quantum computing	0	0	0	0	0
* Digital platforms	0	0	0	0	0
* Internet of Things (IoT) and sensor web	0	0	0	0	0

* Application Programming Interface (API)	0	0	0	0	0
* Blockchain	0	0	0	0	0

,	* Are you aware of the European Data Strategy (COM/2020/66 final) and its plan to establish a single market
	for data through the deployment of common <i>European data spaces</i> as one of the mechanisms to boost a
	competitive EU data economy?

Yes

O No

What should the European data market take into consideration to suit your needs when using and exchanging spatial data in terms of the following lines of actions?

Please write your suggestions or ideas related to one or more of the action lines in the European Data Strategy in the table below.

	Indicate your suggestions here:
Setting clear and fair rules on access and re-use of data;	
Investing in next generation standards, tools and infrastructures to store and process data;	
Joining forces in European cloud capacity;	
Pooling European data in key sectors, with EU-wide common and interoperable data	
spaces;	
Giving users rights, tools and skills to stay in full control of their data;	
Other	

A Common European Gi	reen Deal data space, to use the major potential of data in support of the Green Deal priority actions on clima
change, circular econom	ny, zero-pollution, biodiversity, deforestation and compliance assurance.
6 Results	
-	expected to be published in early 2021. The results and findings of the study wil
ilso be presented	through a public webinar.
f you wish to receive	e information on the results of the survey and the webinar details, please provide us
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Please press on the "**Submit**" button to finish the survey.