

API strategies and use in governments

Fields marked with * are mandatory.

Introduction

In January 2018, the European Commission's DG CONNECT and the Joint Research Centre (JRC) of the European Commission launched the [APIs4DGov study](#). The aim of the study is to gain an understanding of the current use of Application Programming Interfaces (APIs) in digital government and their added value for public services. Within the study, the JRC is conducting this survey about API strategies and implementation activities.

You are kindly invited to participate in this survey, which is aimed at those responsible for API strategies or particular projects implementing or using APIs and those who are considering implementing or using APIs. You will be asked about your views and experience, as well as possible pan-European action on this topic.

The results of the survey will support the [APIs4DGov study](#) to understand the state-of-the-play of government APIs across the EU and the goals, benefits and risks in their use.

The survey is divided into three parts:

1. API strategies at different levels of government in your country;
2. API implementation projects, either as part of a broader strategy or standalone;
3. Potential EU action on APIs.

The first twenty contributors from the EU public sector that will fill the questionnaire before the 15 May 2019 and are interested in participating to the [APIdays in Helsinki](#), will have the possibility to receive a free passcode (see how at the end of the questionnaire).

We will collect data from the survey till 31/10/2019.

Please note, that the data collected by this survey are under the [e-Service privacy statement](#) of this page. By clicking on the "Next" option below you confirm that you have read the documents and accept their terms.

Your details

*Name (s)

* Surname(s)

* Email address we can use to contact you

* What is the name of your organisation, department or agency?

Organisation home page.

Please indicate the link to the organisation or specific department (include http:// or https://).

* Which is the administrative level of your organisation?

- International National Regional Local

* Country of your organisation.

Please indicate the country where your organisation is based or "select International" in case it is an international organisation (including the EU institutions).

- Austria
 Belgium
 Bulgaria
 Croatia
 Cyprus
 Czech Republic
 Denmark
 Estonia
 Finland
 France
 Germany
 Greece
 Hungary
 Iceland
 Ireland
 Italy
 Latvia
 Liechtenstein
 Lithuania
 Luxembourg

- Malta
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Slovak Republic
- Slovenia
- Spain
- Sweden
- Switzerland
- United Kingdom
- International
- Other (specify)

Other Country

*What is your job title?

*What type of role do you hold in your organisation?

- Political
- Technical
- Managerial
- Other (please specify)
- Administrative

Other role

API strategies

The overall goal of this section is to explore the existence of API strategies, intentions to develop API strategies, and perceptions about their adoption. The questions will address key drivers, enablers and benefits, as well as barriers and risks.

*Which of the following statements mostly closely aligns with the status of your API strategy?

- We do not have an API strategy and do not intend to develop one but we are using APIs in our activities
- We are intending to develop an API strategy in the next 1-2 years
- We are in the process of developing an API strategy
- We have developed an API strategy and are in the early stages of implementation

- We are well advanced in the implementation of our API strategy
- We have upgraded or are upgrading our API strategy to accommodate lessons learned or fresh needs

* Does the API strategy apply to your whole organisation?

- Yes
- No

To which sector(s) does your API strategy apply?

What are the goals (in two or three sentences) of your API strategy and how do you plan to achieve them?

800 character(s) maximum

Who are the stakeholders for your API strategy?

800 character(s) maximum

* Is your API strategy embedded in, or related to, other strategies (e.g. an Open Data strategy, an ICT strategy)?

Please specify if the API strategy is independent or embedded/directly related to other strategies (IT-related or domain related).

- Yes
- No

What is the name of the other strategies?

Can you, please, share with us the documentation related to your API strategy or activities?

Please specify the link(s) to your API strategy (or API strategy related) documentation or (if you do not have the web link) send it to: jrc-apis4dgv@ec.europa.eu.

* In which year was the API strategy launched or in which year do you plan to launch it?

* When will your current API strategy expire?

If your strategy does not have an end date, please enter "Ongoing".

*** Who can access the APIs related to your strategy?**

- | | |
|---|---|
| <input type="checkbox"/> Private (only within organisation) | <input type="checkbox"/> Case by case basis |
| <input type="checkbox"/> Organisations of other governments | <input type="checkbox"/> Open to all |
| <input type="checkbox"/> Partner service providers | <input type="checkbox"/> Other (please specify) |

Other access

Apart from the technical implementation, which other activities are envisaged to support your API strategy?

- | | |
|---|---|
| <input type="checkbox"/> Build a government API team | <input type="checkbox"/> Organise internal training on the API topic (e.g. importance of API, technical implementation etc) |
| <input type="checkbox"/> Create and/or engage API communities | <input type="checkbox"/> Search and propose API best practices |
| <input type="checkbox"/> Design and spread API guidelines | <input type="checkbox"/> Other (please specify) |

Other activities

*** Apart from the technical implementation, which activities do you think could be useful to support an API strategy in your organisation?**

at most 3 choice(s)

- | | |
|---|---|
| <input type="checkbox"/> Build a government API team | <input type="checkbox"/> Organise internal training on the API topic (e.g. importance of API, technical implementation etc) |
| <input type="checkbox"/> Create and/or engage API communities | <input type="checkbox"/> Search and propose API best practices |
| <input type="checkbox"/> Design and spread API guidelines | <input type="checkbox"/> Other (please specify) |

Other activities

*** How is your API strategy financed?**

Please specify if and which specific resources were allocated for your API strategy.

- Dedicated budget Funding from other sources (please specify)

Which other public sources?

* What are these financial resources for API used for?

- Internal purposes (e.g. internal department IT systems, staff etc.)
- External purposes (e.g. contracting and/or private public partnership)
- Other purposes (please specify)

Other purposes

* How much budget (approx.) is allocated or planned to allocate to your API strategy each year?

Please specify the entity of the allocated budget in euro/year.

- <50k
- 50k-100k
- 100k-500k
- 500k-1M
- > 1M

* What type of user-charging mechanism is used or intended?

- Fixed fee
- Usage based fees (tiered, unit based, transaction-based)
- Partially chargeable/freemium model
- Free of charge
- Other user-charging mechanism (please specify)

Other user-charging mechanism

* What type of user-charging mechanism do you think could be suitable for APIs?

- Fixed fee
- Usage based fees (tiered, unit based, transaction-based)
- Partially chargeable/freemium model
- Free of charge
- Other user-charging mechanism (please specify)

Other user-charging mechanism

* What type of financial model is used or intended to be used?

- Profit based
- Full cost-recovery
- Partial contribution to costs
- No contribution to costs
- Other (please specify)

Other financial model

*What are the main drivers for your API strategy?

Specify those that influence strategy, objectives or requirements.

- EU legal acts
- Your government policy/demand
- External stakeholder demand - ICT/API community
- National/local legal act (s)
- Organisational policy/demand
- Other (please specify)
- Keep pace with technologies
- External stakeholder demand - business community

Which legal act(s)?

Other drivers

*Which drivers do you think could influence the adoption of APIs in government?

at most 4 choice(s)

Please specify those most important for you that influence strategy, objectives or requirements.

- EU legal acts
- Your government policy/demand
- External stakeholder demand - ICT/API community
- National/local legal act (s)
- Organisational policy/demand
- Other (please specify)
- Keep pace with technologies
- External stakeholder demand - business community

Which legal act(s)?

Other drivers

*Which key enablers has your strategy identified or experienced?

Please specify those that will contribute to the success of the API strategy.

- Availability of API platforms
- Availability of political support
- Availability of new technology(ies)
- Availability on the market of private companies specialized on API management
- Availability of standards, specifications and guidelines
- Availability of support from your organisation
- Availability of external funds
- Availability of API specific training

- | | |
|--|--|
| <input type="checkbox"/> Availability of internal funds | <input type="checkbox"/> Existence of an international API community |
| <input type="checkbox"/> Availability of external skilled developers | <input type="checkbox"/> Existence of a national or regional API community |
| <input type="checkbox"/> Availability of internal skilled developers | <input type="checkbox"/> Other (please specify) |

Other key enablers

*** Which key enablers do you think could support the adoption of APIs in government?**

at most 4 choice(s)

Please specify the most important for you.

- | | |
|---|--|
| <input type="checkbox"/> Availability of API platforms | <input type="checkbox"/> Availability of political support |
| <input type="checkbox"/> Availability of new technology(ies) | <input type="checkbox"/> Availability on the market of private companies specialized on API management |
| <input type="checkbox"/> Availability of standards, specifications and guidelines | <input type="checkbox"/> Availability of support from your organisation |
| <input type="checkbox"/> Availability of external funds | <input type="checkbox"/> Availability of API specific training |
| <input type="checkbox"/> Availability of internal funds | <input type="checkbox"/> Existence of an international API community |
| <input type="checkbox"/> Availability of external skilled developers | <input type="checkbox"/> Existence of a national or regional API community |
| <input type="checkbox"/> Availability of internal skilled developers | <input type="checkbox"/> Other (please specify) |

Other key enablers

*** Which barriers have been identified or experienced in your API strategy?**

Please, select those that are applicable and provide a sentence about the challenges your strategy may face.

- Legal (please specify, e.g. need of a clear legal framework, privacy issues to consider etc)
- Political (please specify, e.g. API initiative/strategy not envisioned, lack of institutional support etc)
- Social (please specify, e.g. API ecosystem not clear, difficult to manage interactions among API stakeholders, unknown use and related impact of API etc)
- Economic (please specify, e.g. difficult economic sustainability, lack of demand etc)
- Organisational (please specify, e.g. Difficult inter-agency re-organisation, lack of API ICT skills /expertise etc)
- Operational or technical (please specify, e.g. difficult to maintain the API documentation, difficult to re-engineering the legacy ICT architecture, no clear (or no) guidelines, need working on data management etc)
- Other barriers (please specify)

Please expand on the above choices

*** Which barriers do you think could challenge the adoption of APIs in government?**

Please, select those that are applicable and provide a sentence about the challenges an API initiative may face.

- Legal (please specify, e.g. need of a clear legal framework, privacy issues to consider etc)
- Political (please specify, e.g. API initiative/strategy not envisioned, lack of institutional support etc)

- Social (please specify, e.g. API ecosystem not clear, difficult to manage interactions among API stakeholders, unknown use and related impact of API etc)
- Economic (please specify, e.g. difficult economic sustainability, lack of demand etc)
- Organisational (please specify, e.g. Difficult inter-agency re-organisation, lack of API ICT skills /expertise etc)
- Operational or technical (please specify, e.g. difficult to maintain the API documentation, difficult to re-engineering the legacy ICT architecture, no clear (or no) guidelines, need working on data management etc)
- Other barriers (please specify)

Please expand on the above choices

What types of benefits has your API strategy identified or experienced?

- Social
- Economic
- Organisational
- Technical
- Other types of benefits (please specify)

Other types of benefits

What types of benefits do you think the adoption of an API strategy could bring?

- Social
- Economic
- Organisational
- Technical
- Other types of benefits (please specify)

Other types of benefits

*** Which social benefits?**

Please specify if the API strategy envisages social impact targets and which ones.

- | | |
|---|--|
| <input type="checkbox"/> Empower the users | <input type="checkbox"/> Increase government transparency |
| <input type="checkbox"/> Improve accountability of government | <input type="checkbox"/> Increase government trust |
| <input type="checkbox"/> Improve civic engagement | <input type="checkbox"/> Promote government accessibility to (open) data |
| <input type="checkbox"/> Increase the number of apps and public services | <input type="checkbox"/> Reduce digital divide |
| <input type="checkbox"/> Increase the number Government to Business (G2B) connections | <input type="checkbox"/> Other (please specify) |

Other social benefits

* Which social benefits?

at most 4 choice(s)

Please specify the most important ones for you.

- | | |
|---|--|
| <input type="checkbox"/> Empower the users | <input type="checkbox"/> Increase government transparency |
| <input type="checkbox"/> Improve accountability of government | <input type="checkbox"/> Increase government trust |
| <input type="checkbox"/> Improve civic engagement | <input type="checkbox"/> Promote government accessibility to (open) data |
| <input type="checkbox"/> Increase the number of apps and public services | <input type="checkbox"/> Reduce digital divide |
| <input type="checkbox"/> Increase the number Government to Business (G2B) connections | <input type="checkbox"/> Other (please specify) |

Other social benefits

* Which economic benefits has your API strategy envisaged or experienced?

- | | | |
|--|---|---|
| <input type="checkbox"/> Attract private investments | <input type="checkbox"/> Improve private sector competition | <input type="checkbox"/> Spark local economic development |
| <input type="checkbox"/> Create new jobs | <input type="checkbox"/> Give new entrepreneurial possibilities | <input type="checkbox"/> Other (please specify) |
| <input type="checkbox"/> Encourage innovation in the public sector | <input type="checkbox"/> Reduce costs of ICT in government | |

Can you estimate (in Euro) the savings from using APIs?

Other economic benefits

* Which economic benefits do you think a government API strategy should target?

at most 4 choice(s)

Please specify the most important ones for you.

- | | | |
|--|---|---|
| <input type="checkbox"/> Attract private investments | <input type="checkbox"/> Improve private sector competition | <input type="checkbox"/> Spark local economic development |
| <input type="checkbox"/> Create new jobs | <input type="checkbox"/> Give new entrepreneurial possibilities | <input type="checkbox"/> Other (please specify) |
| <input type="checkbox"/> Encourage innovation in the public sector | <input type="checkbox"/> Reduce costs of ICT in government | |

Other economic benefits

*** What organisational benefits are envisaged or experienced by your API strategy?**

- | | |
|--|--|
| <input type="checkbox"/> Better integration of processes or services across government | <input type="checkbox"/> Improve efficiency |
| <input type="checkbox"/> Better monitoring of information exchange | <input type="checkbox"/> Improve internal collaboration |
| <input type="checkbox"/> Contribution to the Digital Transformation of your organisation | <input type="checkbox"/> Improve the use of (open) government data |
| <input type="checkbox"/> Encourage a whole-of-government API approach | <input type="checkbox"/> Improve public digital services delivery |
| <input type="checkbox"/> Improve decision making | <input type="checkbox"/> Other (please specify) |

Other organisational benefits

*** Which organisational benefits do you think an API strategy should target?**

at most 4 choice(s)

Please specify the most important ones for you.

- | | |
|--|--|
| <input type="checkbox"/> Better integration of processes or services across government | <input type="checkbox"/> Improve internal collaboration |
| <input type="checkbox"/> Better monitoring of information exchange | <input type="checkbox"/> Improve the use of (open) government data |
| <input type="checkbox"/> Encourage a whole-of-government API approach | <input type="checkbox"/> Improve public service delivery |
| <input type="checkbox"/> Improve decision making | <input type="checkbox"/> Contribution to the Digital Transformation of your organisation |
| <input type="checkbox"/> Improve efficiency | <input type="checkbox"/> Other (please specify) |

Other organisational benefits

*** Which technical benefits are envisaged or experienced by your API strategy?**

- | | |
|--|--|
| <input type="checkbox"/> Improve common vocabularies / semantics | <input type="checkbox"/> Improve performance, usability or documentation of APIs |
| <input type="checkbox"/> Improve data quality and data models | <input type="checkbox"/> Optimise ICT architecture |
| <input type="checkbox"/> Improve ICT scalability | <input type="checkbox"/> Other (please specify) |
| <input type="checkbox"/> Improve IT systems interoperability | |

Other technical benefits

*** Which technical benefits do you think an API strategy should target?**

at most 4 choice(s)

Please specify the most important ones for you.

- | | |
|---|--|
| <input type="checkbox"/> Improve common vocabularies /semantics | <input type="checkbox"/> Improve performance, usability or documentation of APIs |
| <input type="checkbox"/> Improve data quality and data models | <input type="checkbox"/> Optimise ICT architecture |
| <input type="checkbox"/> Improve ICT scalability | <input type="checkbox"/> Other (please specify) |
| <input type="checkbox"/> Improve IT systems interoperability | |

Other technical benefits

*What are the main cost areas envisaged of experienced by your API strategy?

- | | | |
|---|--|--|
| <input type="checkbox"/> Building an APIs inventory | <input type="checkbox"/> Changing legacy/current systems | <input type="checkbox"/> Staff training |
| <input type="checkbox"/> Building/updating a data inventory | <input type="checkbox"/> External/procurement /consultancy costs | <input type="checkbox"/> Standardising vocabularies /semantics |
| <input type="checkbox"/> Building an existing systems inventory | <input type="checkbox"/> Rationalising ICT architecture | <input type="checkbox"/> Other costs (please specify) |

Other cost areas

*What are the main cost areas do you think the adoption of an API strategy could bring?

- | | | |
|---|--|--|
| <input type="checkbox"/> Building an APIs inventory | <input type="checkbox"/> Changing legacy/current systems | <input type="checkbox"/> Staff training |
| <input type="checkbox"/> Building/updating a data inventory | <input type="checkbox"/> External/procurement /consultancy costs | <input type="checkbox"/> Standardising vocabularies /semantics |
| <input type="checkbox"/> Building an existing systems inventory | <input type="checkbox"/> Rationalising ICT architecture | <input type="checkbox"/> Other cost areas (please specify) |

Other cost areas

*Which risks has your API strategy identified or experienced?

- | | |
|--|--|
| <input type="checkbox"/> Competing initiatives (e.g. adopting of different types of APIs such as SOAP, REST etc) | <input type="checkbox"/> Low return on investment |
| <input type="checkbox"/> Cyber-security risks | <input type="checkbox"/> Low usage |
| <input type="checkbox"/> Data privacy risks | <input type="checkbox"/> Not sustainable in the future |
| <input type="checkbox"/> Difficult to maintain updated the API documentation | <input type="checkbox"/> Organisational change |
| <input type="checkbox"/> Lack of political support | <input type="checkbox"/> Scalability |
| <input type="checkbox"/> Loss of visibility of the ICT investment of the organisation (on the web) | <input type="checkbox"/> Other risks (please specify) |

Other risks

What steps have you taken to mitigate or minimise these risks?

* Which risks do you think could challenge the adoption of API in government?

at most 4 choice(s)

Please specify the most important for you.

- | | |
|--|--|
| <input type="checkbox"/> Competing initiatives (e.g. adopting of different types of APIs such as SOAP, REST etc) | <input type="checkbox"/> Low return on investment |
| <input type="checkbox"/> Cyber-security risks | <input type="checkbox"/> Low usage |
| <input type="checkbox"/> Data privacy risks | <input type="checkbox"/> Not sustainable in the future |
| <input type="checkbox"/> Difficult to maintain updated the API documentation | <input type="checkbox"/> Organisational change |
| <input type="checkbox"/> Lack of political support | <input type="checkbox"/> Scalability |
| <input type="checkbox"/> Loss of visibility of the ICT investment of the organisation (on the web) | <input type="checkbox"/> Other risks (please specify) |

Other risks

* Does your strategy envisage or adopt cyber-security measures?

- Yes (please specify) No

What cyber-security measures?

300 character(s) maximum

Please specify how the API strategy envisages any cyber-security issues related to API. If so, explain how is addressed (e.g. guidelines, funding, recommendations, ...)

* Do you think the adoption of APIs requires additional/specific cyber-security measures?

- Yes (please specify) No

What cyber-security measures?

300 character(s) maximum

Please specify how an API initiative should consider any cyber-security issues related to API.

Apart from the API strategy (if any), what other activities related to APIs is your organisation involved in?

800 character(s) maximum

* Have you conducted any impact assessment study relating to the general API strategy or API implementation in your organisation?

Please specify the existence of the impact assessment analysis and evaluation.

Yes No

Can you provide us the impact assessment documentation?

Please specify the web link to the impact assessment study or (if you do not have the web link) send it to: jrc-apis4dgov@ec.europa.eu.

API Implementation

The purpose of this section is to investigate concrete API implementations projects, either as part of an API strategy or standalone from any strategy. You will be invited to describe up to three projects or activities that best illustrate your experiences. These can be, for example, the development of an API catalogue, the use of APIs in a specific sector such as transportation, or a multi-sector use of APIs, e.g. to access address data.

* Does your organisation currently implement projects related to APIs?

Yes (please specify) No

* Are the APIs publicly available?

Yes No

Can you provide us the main web page related to the API of your organisation?

Please include http:// or https:// in the web link.

Could you, please, list from one to three API cases your organization has published?

	API project 1	API project 2	API project 3
Title			
Short Description			
Home page			
Main costs			
Main benefits			
Motivation of your choice			

Which sector(s) do(es) the API implementation project(s) cover?

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Agriculture | <input type="checkbox"/> Energy | <input type="checkbox"/> Home affairs | <input type="checkbox"/> Social policies |
| <input type="checkbox"/> Culture | <input type="checkbox"/> Environment | <input type="checkbox"/> Industry | <input type="checkbox"/> Sport |
| <input type="checkbox"/> Demography | <input type="checkbox"/> Family | <input type="checkbox"/> Jobs | <input type="checkbox"/> Taxes |
| <input type="checkbox"/> Economic and financial affairs | <input type="checkbox"/> Fisheries | <input type="checkbox"/> Justice | <input type="checkbox"/> Telecommunications |
| <input type="checkbox"/> Education and training | <input type="checkbox"/> Food | <input type="checkbox"/> Labor market | <input type="checkbox"/> Transport |
| <input type="checkbox"/> Elderly people | <input type="checkbox"/> General affairs | <input type="checkbox"/> Pension | <input type="checkbox"/> Young people |
| <input type="checkbox"/> Employment | <input type="checkbox"/> Health, medical care | <input type="checkbox"/> Registry office | <input type="checkbox"/> Other (please specify) |

Other sector(s)

Does your organisation adopt a standard access governance (e.g. access via e-identification, digital id etc.)?

- Yes (please specify) No

Which kind of access does your organisation provide?

* Are APIs of your organisation monitored?

- Yes (please specify) No

Which metrics are monitored?

- | | |
|---|---|
| <input type="checkbox"/> API traffic | <input type="checkbox"/> Number of developers using the APIs |
| <input type="checkbox"/> Community engagement (e.g. forum activity, social media on apps) | <input type="checkbox"/> Number of supported digital services |
| <input type="checkbox"/> Customer satisfaction survey | <input type="checkbox"/> Quality of service monitoring |
| <input type="checkbox"/> Helpdesk calls | <input type="checkbox"/> Revenue |
| <input type="checkbox"/> Mobile vs Web API usage | <input type="checkbox"/> Other (please specify) |
| <input type="checkbox"/> Number of apps using the APIs (either web or mobile) | |

Other metrics

Which metrics do you think should be measured to monitor an API?

at most 4 choice(s)

- | | |
|---|---|
| <input type="checkbox"/> API traffic | <input type="checkbox"/> Number of developers using the APIs |
| <input type="checkbox"/> Community engagement (e.g. forum activity, social media on apps) | <input type="checkbox"/> Number of supported digital services |

- Customer satisfaction survey
- Helpdesk calls
- Mobile vs Web API usage
- Number of apps using the APIs (either web or mobile)
- Quality of service monitoring
- Revenue
- Other (please specify)

Other metrics

* Does your organisation plan to develop further APIs in the next 2/3 years?

- Yes (please specify) No

Which APIs does your organisation plan to develop?

* Are you aware and can you share with us examples of API best practices or guidelines (either inside or outside your organisation)?

- Yes (please specify) No

Can you please share with us this documentation?

Please provide us the web link or (if it does not exist), send it to: jrc-apis4dgv@ec.europa.eu.

European Commission support

In this section, we will ask you about the main activities the EC could perform to support the government API adoption. We also investigate about the contribution you could give to pan-European API strategies.

* In which ways could the European Commission support API strategy adoption at the EU, country or local level?

at most 5 choice(s)

We would appreciate if you can indicate the main activities the EC could perform to support the government API adoption. Please select the most important.

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Create new EU legislation <input type="checkbox"/> Create an EU API community <input type="checkbox"/> Identify and disseminate API best practices <input type="checkbox"/> Implement API platforms at the EU level <input type="checkbox"/> Implement an EU API catalogue <input type="checkbox"/> Organise API events (e.g. conferences, workshops and hackathons) | <ul style="list-style-type: none"> <input type="checkbox"/> Organise and promoting API training <input type="checkbox"/> Promote and fund innovation and research EU projects <input type="checkbox"/> Promote networking <input type="checkbox"/> Propose common API guidelines <input type="checkbox"/> Other (please specify) |
|--|---|

Other support

Are there any particular policy areas or applications where pan-European APIs will prove beneficial and, if so, why?

In what way could you contribute to pan-European actions on APIs?

- Best practices Projects Tools Other contribution (please specify)
- Guidelines Standards Training

Other contribution

Additional comments and feedback

Are interested in receiving a free entrance for the APIdays event in Helsinki?

- Yes, please let me know if I am among the first twenty contributors
- No, thanks, unfortunately I cannot participate

Thanks a lot for your valuable contribution and for the time you have dedicated to this survey. Please, give us your feedback on the specific topic of the survey and on any additional comment, if any.

Are there any additional aspects related to APIs that are not covered by this survey?

Provide us with any additional comments.