



# API4IPS technical essentials

## API4IPS WG & Blockchain #3

eDelivery informal cooperation Network

*24<sup>th</sup> September 2020*

**European Commission – Joint Research Centre**


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# API for Digital Government reports. On air!



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## Igniting the digital transformation of governments with APIs

SEP 17 2020

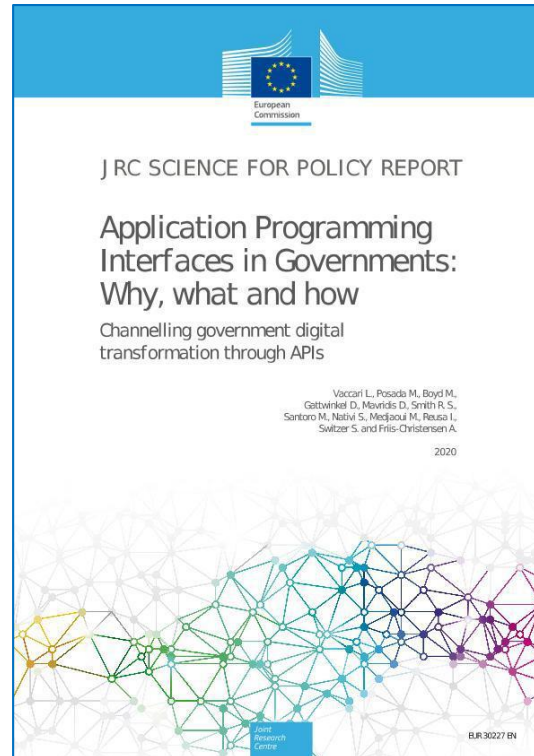
JRC experts have uncovered the potential of application programming interfaces (APIs) and proposed a framework of practical recommendations for their adoption in the public sector and the development of new applications for citizens.

APIs are machine-to-machine computing interfaces that enable one digital application to use the data and functionalities of another. They are, in a way, the connective tissue of the digital ecosystem.

As an under-the-bonnet aspect of digitalisation, users and decision-makers often overlook the importance of APIs.

The JRC report "Application Programming Interfaces in Governments: Why, What and How" argues that they should not. When governments did take a stab at rolling out API-based services, the uptake of these was rapid and massive.

APIs are the connective tissue of the digital ecosystem  
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JRC SCIENCE FOR POLICY REPORT

## Application Programming Interfaces in Governments: Why, what and how

Channelling government digital transformation through APIs

Vaccari L., Posada M., Boyd M., Gatzwinski D., Mowinckel D., Smith R. S., Santoro M., Nabil S., Medjroui M., Rausen L., Switzer S. and Friis-Christensen A.

2020

EUR 30227 EN



JRC TECHNICAL REPORT

## An Application Programming Interface (API) framework for digital government

Boyd, M., Vaccari, L., Posada, M., Gatzwinski, D.

**The API framework**

- Policy support**: Align APIs with policy goals; Design metrics and standards APIs; Measure policy impacts of APIs
- Platform**: Define the government platform vision; Harmonise platform and ecosystems assets; Build API platform components
- People**: Create government professionals; Establish cross-departmental teams; Apply API across departments and teams
- Processes**: Form guiding principles for API processes; Follow an API product approach; Adopt an API lifecycle approach

2020  
EUR 30226 EN



EUSurvey

Introduction  
This maturity assessment tool, built within the European Commission APIs4Gov study, has been prepared to self-assess the adoption of APIs in governments.

The framework is based on twelve proposals distributed on four aspects or 'pillars' (policy, platform, people and processes) and three action levels (strategic, tactical and operational). It is inspired by the EIF of the European Commission and available government best practices documents on API adoption.

<https://ec.europa.eu/eusurvey/runner/APIFrameworkTool>

- [1] [APIs in Governments: why, what and how](#)
- [2] [API Framework for Government](#)
- [3] [API Framework Self Assessment Tool](#)

# API4DT joinup collection

**Application Programming Interfaces (APIs) for the digital transformation**

Last update 5 days ago | 5 Members | 0 Solutions

## About Application Programming Interfaces (APIs) for the digital transformation

The European Commission understands the key role that APIs play in the digital sphere, and it is gaining deep understanding aspects of its adoption in organizations. This JoinUp collection presents a series of outputs that investigate on these aspects.

Quickly check the outputs

Reports | Events | Data | Tools | Surveys

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Write to us at [jrc-apis4dgo@ec.europa.eu](mailto:jrc-apis4dgo@ec.europa.eu)

- Report: API framework for digital government** (Document) - Abstract: The framework for API adoption in government proposes actions to design a coordinated API adoption in API4DT API4DT-reports APIs4DGov
- Report: Digital government benchmark (API study)** (Document) - Abstract: This work analyses in-depth disparate case studies of the adoption of APIs in API4DT API4DT-reports APIs4DGov
- Science for Policy report: APIs in Governments: Why, what and how** (Document) - Abstract: The APIs4DGov report analyses why, what and how API should be adopted by API4DT API4DT-reports APIs4DGov
- Report: 'APIs: general purpose standards, terms and European Commission** (Document) - Abstract: The aim of this report is to support API stakeholders in the identification and selection API4DT API4DT-reports
- Dataset: API for government datasets** (Document) - The European Commission's DG CONNECT together with the Joint Research Centre (JRC) launched the "APIs4DGov - Digital API4DT APIDT-data
- Survey: API strategies and use in governments** (Guideline) - In January 2018, the European Commission's DG CONNECT and the Joint Research Centre (JRC) of the European Commission API4DT API4DT-surveys APIs4DGov
- Tool: API for government framework - API strategy self assessment** (Guideline) - This maturity self-assessment tool builds on the API framework proposed by the European API4DT API4DT-tools API4DT-surveys
- Event: Assessing Government API strategies across the EU** (17/10/2018 event)
- Event: APIs for governments: public sector track and workshop** (14/11/2019 event)
- Workshop: API technical essentials: Public administration & private** (25/09/2020 event)

# API for the public sector + APIdays events



**HELSINKI – SEPTEMBER 25, 2020**

**Public sector track**



**LONDON – OCTOBER 27 & 28, 2020**

**Workshop**



**PARIS – DECEMBER 8 & 10, 2020**

**Public sector track  
& Workshop**

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- EU MS working group
- Survey & interviews
- Case studies

# API4IPS – Technical essentials - Today

## API4IPS

APPLICATION PROGRAMMING INTERFACES'  
STRATEGY ESSENTIALS FOR INNOVATIVE PUBLIC SECTOR

### D1. INCEPTION REPORT

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- *Feedback on Inception Report*
- *Slido session*
  - Feedback on the inception report
  - Steering the Expert Discussion Panel tomorrow towards aspects that most interest you.

slido

Join at  
**slido.com**  
**#API-WG**



# Thank you



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