



API4IPS

API technical strategy essentials: Self Assessment Tool

eDelivery informal cooperation Network
Working Group API & Block Chain

JRC.B6 API Team

monica.posada@ec.europa.eu

lorenzino.vaccari@ext.ec.europa.eu

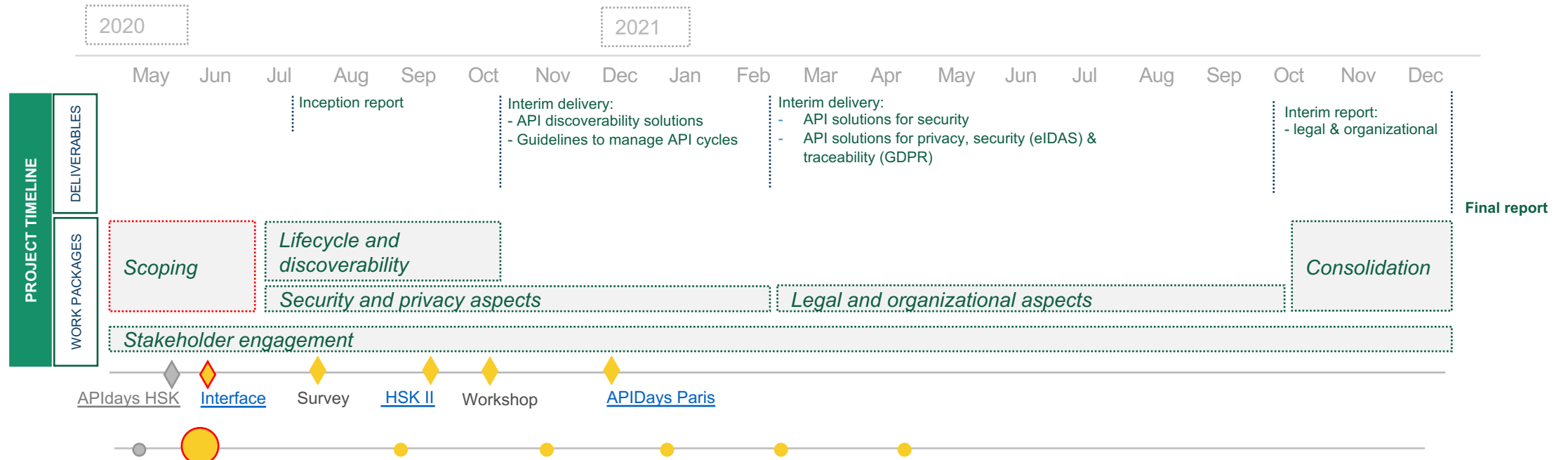
30th June 2020

Outline

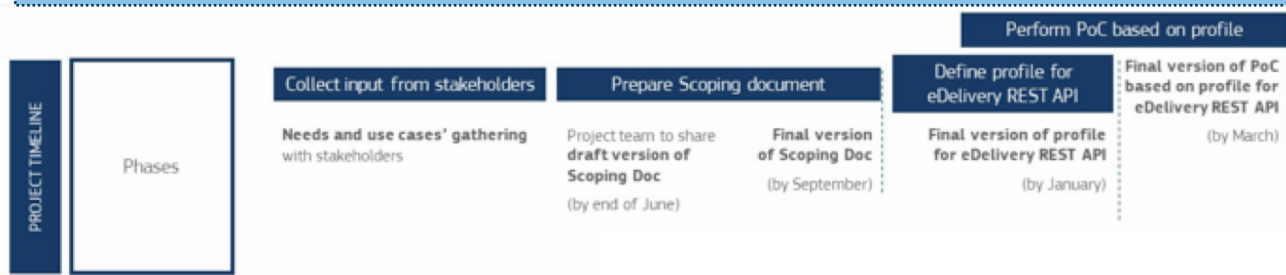
1. API4IPS & e-Delivery rest API extensions integration
2. API framework: online Self Assessment Tool

API4IPS work structure

Indicative timeline



REST-based API extensions for eDelivery



Stakeholder engagement

Indicative planning & timeline

Survey

- Tentative planning (TBC) (September 2020)

Conferences

- APIdays virtual - Helsinki (2-3 June 2020):
- **Tomorrow (1 & 2 July) - APIdays interface free participation – looking forward to your feedback**
- APIdays Helsinki (TBC):
APIs, platforms, and ecosystems - transforming industries and experiences - Public Sector Track (1-2 Sep 2020)
- APIdays Paris (TBC):
Automated IT for Programmable Economy – Public Sector Track (8-10 Dec 2020)

Workshops

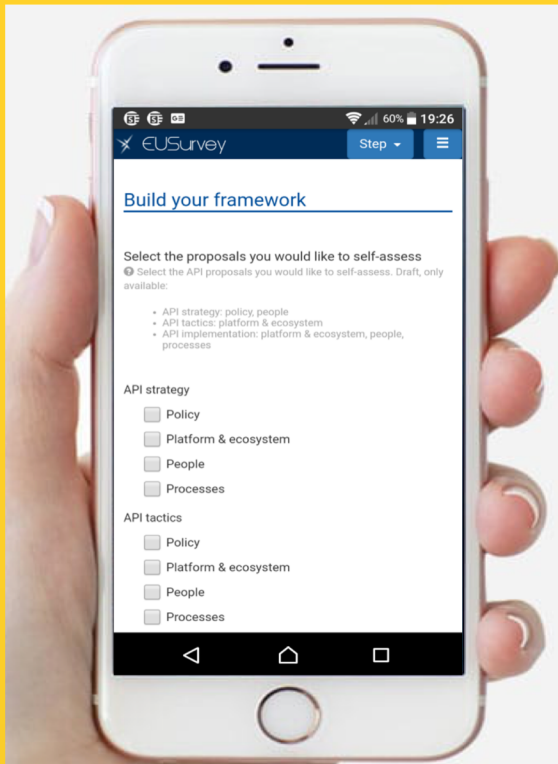
- Technical essentials expert workshop (~Oct 2020)
- Legal & organisational (TBC ~Feb 2021)

Expert interviews – case study analysis

- Through the whole timeline

Framework for API adoption

Self Assessment Online Tool



OFFICIAL LAUNCH 10.07.20

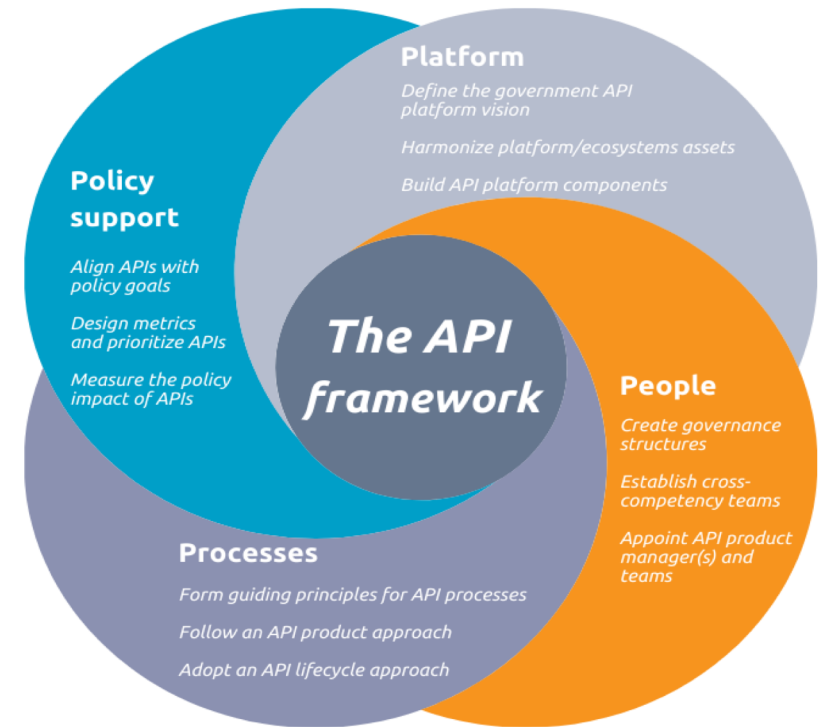
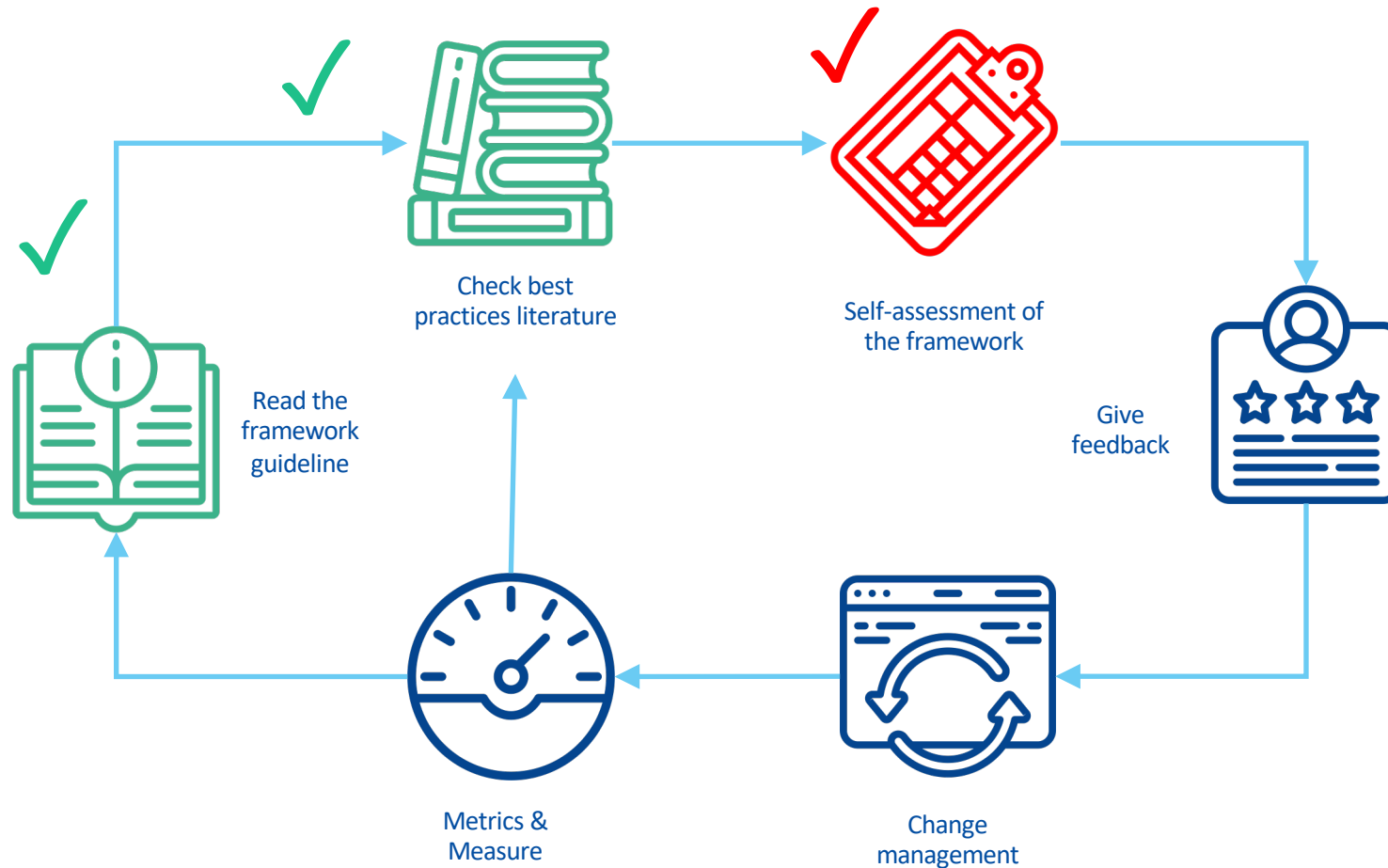
	Policy support	Platform and ecosystems	People	Processes
API strategy	1. Align APIs with policy goals	2. Define the government API platform	3. Create API governance structures	4. Form guiding principles for API processes
API tactics	5. Design metrics and prioritize API by policy goals	6. Harmonize platform/ecosystems assets	7. Establish cross-competency teams	8. Follow an API product approach
API operations	9. Measure policy impacts of APIs	10. Build API platform components	11. Appoint API product manager(s)	12. Adopt an API lifecycle approach



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



Overall workflow



API Framework: proposal 6

Planning. Allocating resources/composition.
Goal: To allocate resources and avoid duplication of AP activities

Leverage platforms and ecosystems effectively
Goal: To build the right platforms and ecosystems to make API work successful

Determined by..



Understood by..



Managed by..



Carried out by..



	Policy support	Platforms and Ecosystems	People	Processes
API Strategy	1. Align APIs with policy goals	2. Define the platform vision	3. Create governance structures	4. Form guiding principles for API processes
API tactics	5. Design metrics and prioritise API by policy goals	6. Harmonise platform and ecosystems assets	7. Establish cross-competency teams	8. Follow an API product approach
API operations	9. Measure policy impacts of APIs	10. Build platform components	11. Appoint API product manager(s) and teams	12. Adopt an API lifecycle approach



Proposal 6: Harmonise platform and ecosystems assets

Maturity dimension	Question
Organisational infrastructures	1. Does government have a clear vision of how internal and external stakeholders should be engaged in an ecosystem approach?
	2. Has the government identified priority domain ecosystems to work with and established a mechanism to enable participation of stakeholders?
	3. Is there a mechanism to ensure ecosystem work is cohesive and coordinated between ecosystems and with the government's wider API activities?
Organisational leadership	4. Is the appointed IT leader managing a documented enterprise architecture design pattern to enable API activities and encourage reuse, integration and interoperability?
	5. Is there an appointed information management leadership ensuring data models, data interoperability, data sharing and data protection are coordinated consistently across government?
Resource allocation	6. Has government set priorities for identifying, creating and sharing data with APIs (including dynamic, high value datasets when available)?
	7. Has government set priorities for identifying and building shared services capabilities across government?
Skills	8. Are ecosystem members and government representatives supported to build their API skills , including in the importance and opportunity of using API standards, design thinking, and business model co-creation?
	9. Does the government's enterprise architecture avoid the development of ad-hoc API solutions and enable deployment of API gateways and developer portal/API catalogue?
Metrics	10. Are measurements used to drive discussions on new funding models and on efficiencies generated from collaborative action?



Hands on! (20/30'?)

1. Choose P6

2. Fill questions

3. Check final score

API strategies

	OK to self-assess
1. Align APIs with policy goals (Policy)	<input type="radio"/>
2. Define the government platform vision (Platform & ecosystem)	<input type="radio"/>
3. Create governance structures (People)	<input type="radio"/>
4. Form guiding principles for API processes (Processes)	<input type="radio"/>

API tactics

	OK to self-assess
5. Design metrics and prioritise API by policy goals (Policy)	<input type="radio"/>
6. Harmonise platform and ecosystems assets (Platform & ecosystem)	<input checked="" type="radio"/>
7. Establish cross-competency teams (People)	<input type="radio"/>
8. Follow an API product approach (Processes)	<input type="radio"/>

API operations

	OK to self-assess
9. Measure policy impacts of APIs (Policy)	<input type="radio"/>
10. Build platform components (Platform & ecosystem)	<input type="radio"/>
11. Appoint API product manager(s) and teams (People)	<input type="radio"/>
12. Adopt an API lifecycle approach (Processes)	<input type="radio"/>

6: Harmonise platform and ecosystems assets (max 100)

Description: Foster the establishment of domain-area ecosystems with relevant stakeholders. Build platform components that can be used by whole-of-government. Build components that can be used by domain-level ecosystems and by individual departments.

Application level: Tactical

Pillar: Platforms and ecosystems

Strength of evidence: API platforms require a range of stakeholders to agree on set of minimal common choices to enhance interoperability (including to adhere to common API standards, considering which shared data models must be commonly defined, define common architectural choices) and which service components can be reused and, sometimes, even the use of common tools.

* Q6.1: (Organisational infrastructure) Does government have a clear vision of how internal and external stakeholders should be engaged in an ecosystem approach?

No Partially I do not know
 Planned Yes/Fully

* Q6.2: (Organisational infrastructure) Has the government identified priority domain ecosystems to work with and established a mechanism to enable participation of stakeholders?

No Partially I do not know
 Planned Yes/Fully

* Q6.3: (Organisational infrastructure) Is there a mechanism to ensure ecosystem work is cohesive and coordinated between ecosystems and with the government's wider API activities?

No Partially I do not know
 Planned Yes/Fully

* Q6.4: (Organisational leadership) Is the appointed IT leader managing a documented enterprise architecture design pattern to enable API activities and encourage reuse, integration and interoperability?

No Partially I do not know
 Planned Yes/Fully

* Q6.5: (Organisational leadership) Is there an appointed information management leadership ensuring data models, data interoperability, data sharing and data protection are coordinated consistently across government?

No Partially I do not know
 Planned Yes/Fully

* Q6.6: (Resource allocation) Has government set priorities for identifying, creating and sharing data assets with APIs (including dynamic, high value datasets when available)?

No Partially I do not know
 Planned Yes/Fully

* Q6.7: (Resource allocation) Has government set priorities for identifying and building shared services capabilities across government?

No Partially I do not know
 Planned Yes/Fully

Summary

Your Score 64

Maximum Score 100

Section	Score for this Section
1. Align APIs with policy goals (max 100)	0
2. Define the government platform vision (max 90)	0
3. Create appropriate governance committees (max 100)	0
4. Form guiding principles for API processes (max 60)	0
5. Design metrics and prioritise APIs by policy area (max 90)	0
6. Harmonise platform and ecosystems assets (max 100)	64
7. Establish cross-competency teams (max 90)	0
8. Follow an API product approach (max 100)	0
9. Measure policy impacts of APIs (max 60)	0
10. Build API platform components (max 90)	0
11. Appoint API product managers and teams (max 80)	0
12. Adopt an API lifecycle approach (max 100)	0

Scores by Question

6: Harmonise platform and ecosystems assets (max 100) Score for this Section: 64/100

Q6.1: (Organisational infrastructure) Does government have a clear vision of how internal and external stakeholders should be engaged in an ecosystem approach?

Your answer ✔ Partially 6 out of 10 points

Q6.2: (Organisational infrastructure) Has the government identified priority domain ecosystems to work with and established a mechanism to enable participation of stakeholders?

Your answer ✔ Partially 6 out of 10 points

Discussion (15')

- **Presentation of the results & the experience**
 - **Missing questions?**
 - **Changes to questions?**
 - **Questions difficult to understand or to answer?**

API Framework: proposals 7

Planning. Allocating resources/composition.
Goal: To allocate resources and avoid duplication of AP activities

Recognise the need for skills and structure.
Goal: To support people during the move to an API approach.

Determined by..



Understood by..



Managed by..



Carried out by..



	Policy support	Platforms and Ecosystems	People	Processes
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Proposal 7: Establish cross-competency teams

Maturity dimension	Question
Organisational infrastructures	1. Do policy, program and IT teams meet regularly to oversee creation of the government's digital products, services and API activities?
Organisational leadership	2. Do policy, program and IT teams assess user needs alongside organisational policy goals to continually refine priorities?
	3. Are champions identified in both program and IT teams to encourage API-first approaches?
	4. Is the appointed IT leader managing a documented enterprise architecture design pattern to enable API activities and encourage reuse, integration and interoperability?
Resource allocation	5. Do policy-makers, program and IT teams members attend any established ecosystem network meetings?
Skills	6. Do policy stakeholders within government inform sufficiently to help guide program activities towards using APIs where appropriate?
	7. Are all program teams able to design and deliver APIs where appropriate?
Metrics	8. Are measurements reported, shared and discussed during joint meetings between policy, program and IT teams ?

Keep in touch



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Thank you



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