COMMISSION STAFF WORKING DOCUMENT

on assessment of costs of implementation of the once-only technical system for Member States

Accompanying the document

COMMISSION IMPLEMENTING REGULATION (EU) …/... of XXX

setting out technical and operational specifications of the technical system for the cross-border automated exchange of evidence and application of the "once-only" principle in accordance with Regulation (EU) 2018/1724 of the European Parliament and of the Council

{C(2022) 5628 final} - {SWD(2022) 211 final}

EN   **EN**

PART 3/3

Poland
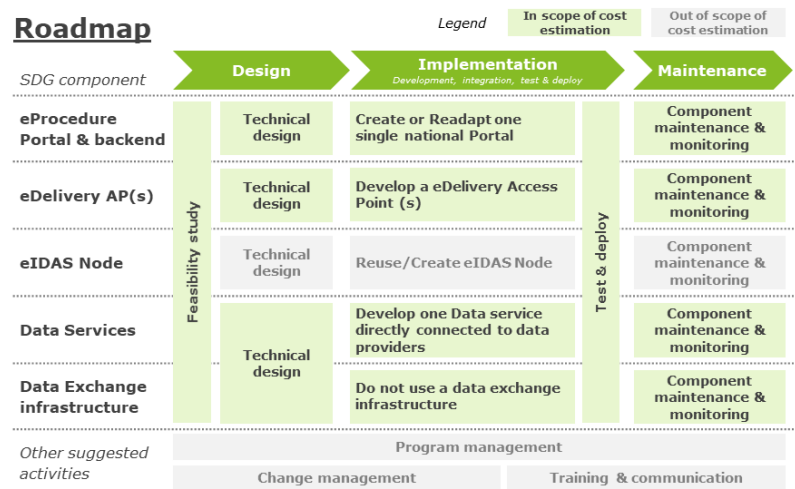## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Poland could choose to readapt a single national portal (e.g. Gov.pl) to enable users to request the reuse of SDG evidence types. The country has in place 23 eDelivery Access Points but could choose to deploy a new one for the SDG. It has an eIDAS Node already in production to enable cross-border authentication. Given the low number of data providers that Poland needs to connect, it could consider directly connecting them to a single data service component.

Cost estimates
Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 3,35 million € (cost range from 1,67 to 6,70 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 1,02 million € (cost range from 0,51 to 2,04 million €).
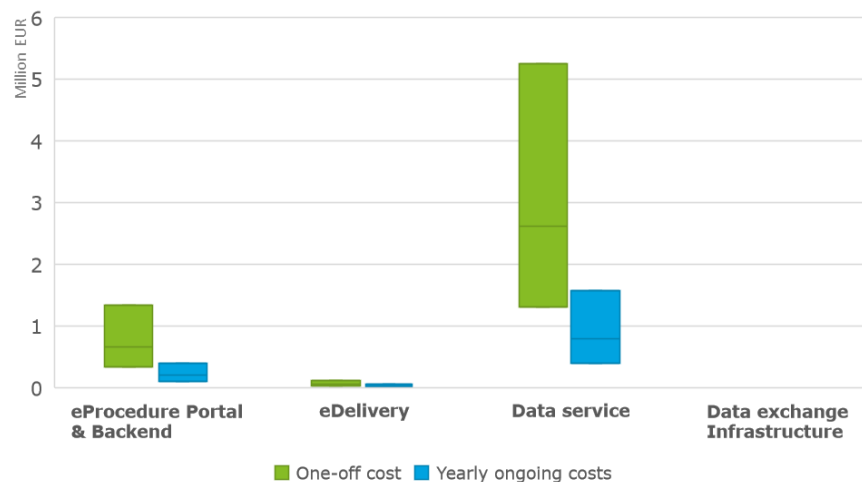
Roadmap

Legend: In scope of cost estimation | Out of scope of cost estimation

SDG component	Design	Implementation — Development, integration, test & deploy	Maintenance
eProcedure Portal & backend	Technical design	Create or Readapt one single national Portal	Component maintenance & monitoring
eDelivery AP(s)	Technical design	Develop a eDelivery Access Point (s)	Component maintenance & monitoring
eIDAS Node	Technical design	Reuse/Create eIDAS Node	Component maintenance & monitoring
Data Services	Technical design	Develop one Data service directly connected to data providers	Component maintenance & monitoring
Data Exchange infrastructure	Technical design	Do not use a data exchange infrastructure	Component maintenance & monitoring

(Feasibility study spanning Design; Test & deploy spanning Implementation)

Other suggested activities	Program management
	Change management	Training & communication

High-level cost estimates

SDG component	Implementation option	One–off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 1 - Create or Readapt one single national Portal	Up: 1,34 mln € **Avg: 0,67 mln €** Low: 0,33 mln €	Up: 0,4 mln € **Avg: 0,2 mln €** Low: 0,1 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,13 mln € **Avg: 0,06 mln €** Low: 0,028 mln €	Up: 0,06 mln € **Avg: 0,03 mln €** Low: 0,015 mln €
Data Services	Option 2 - Develop one Data service directly connected to 18 data providers	Up: 5,24 mln € **Avg: 2,62 mln €** Low: 1,31 mln €	Up: 1,57 mln € **Avg: 0,79 mln €** Low: 0,39 mln €
Data Exchange infrastructure	Opt 3 - Do not use a data exchange infrastructure	---	---
TOTALS		Up: 6,70 mln € **Avg: 3,35 mln €** Low: 1,67 mln €	Up: 2,04 mln € **Avg: 1,02 mln €** Low: 0,51 mln €

Legend
Up: Upperbound cost (2x)
Avg: Estimated cost (1x)
Low: Lowerbound cost (0,5x)

Cost ranges for each SDG component

Million EUR — ePROcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure

Legend: One-off cost | Yearly ongoing costs

Portugal

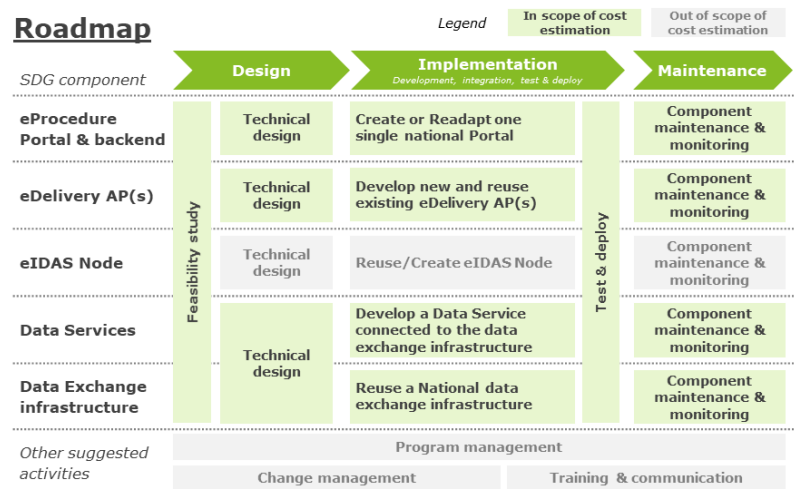## SDG high-level Roadmap and cost estimates

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Summary

Roadmap

Portugal has in place a single central portal, "ePortugal", the main channel for accessing digital services offered by the public administration which it plans to adapt to allow users to request the reuse of SDG evidence types. The country already has in place 4 eDelivery Access Points. It plans to reuse several of these access points for the SDG. It has an eIDAS Node currently in production to enable cross-border authentication. The country also plans to ruse its "Interoperability Platform of the Public Administration (iAP)" data exchange infrastructure to share evidence types over the SDG OOP technical system. The country could develop a single data service component to connect to this infrastructure.

Cost estimates

Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 3,4 million € (cost range from 1,7 to 6,7 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 1,04 million € (cost range from 0,52 to 2,08 million €).
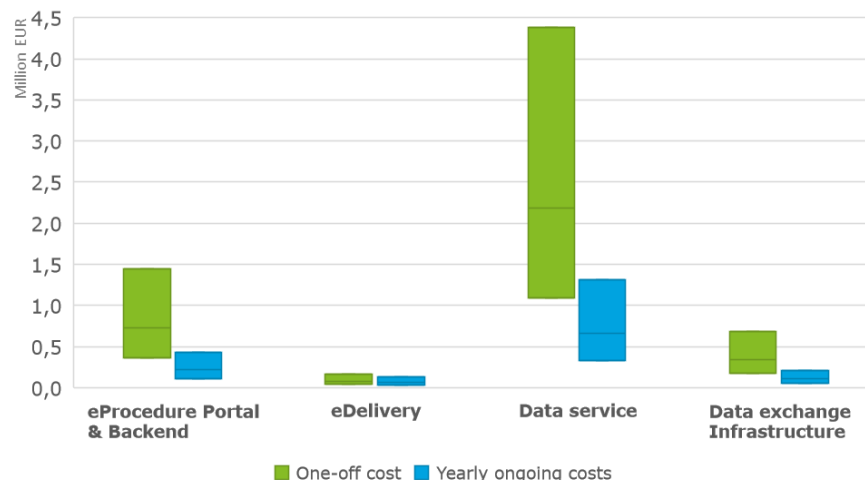
Roadmap

Legend	In scope of cost estimation	Out of scope of cost estimation

SDG component	Design	Implementation (Development, integration, test & deploy)	Maintenance
eProcedure Portal & backend	Technical design	Create or Readapt one single national Portal	Component maintenance & monitoring
eDelivery AP(s)	Technical design	Develop new and reuse existing eDelivery AP(s)	Component maintenance & monitoring
eIDAS Node	Technical design	Reuse/Create eIDAS Node	Component maintenance & monitoring
Data Services	Technical design	Develop a Data Service connected to the data exchange infrastructure	Component maintenance & monitoring
Data Exchange infrastructure	Technical design	Reuse a National data exchange infrastructure	Component maintenance & monitoring

(Feasibility study spans the Design column; Test & deploy spans the Implementation column)

Other suggested activities	Program management
	Change management — Training & communication

High-level cost estimates

SDG component	Implementation option	One−off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 1 - Create or Readapt one single national Portal	Up: 1,44 mln € **Avg: 0,72 mln €** Low: 0,36 mln €	Up: 0,43 mln € **Avg: 0,21 mln €** Low: 0,10 mln €
eDelivery AP(s)	Opt 3 - Develop new and reuse existing eDelivery AP(s) for cross border interactions	Up: 0,16 mln € **Avg: 0,08 mln €** Low: 0,04 mln €	Up: 0,12 mln € **Avg: 0,06 mln €** Low: 0,03 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 4,38 mln € **Avg: 2,19 mln €** Low: 1,09 mln €	Up: 1,3 mln € **Avg: 0,65 mln €** Low: 0,32 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 31 data sources	Up: 0,72 mln € **Avg: 0,36 mln €** Low: 0,18 mln €	Up: 0,2 mln € **Avg: 0,1 mln €** Low: 0,05 mln €
TOTALS		Up: 6,7 mln € **Avg: 3,4 mln €** Low: 1,7 mln €	Up: 2,08 mln € **Avg: 1,04 mln €** Low: 0,52 mln €

Legend
Up: Upperbound cost (2x)
Avg: Estimated cost (1x)
Low: Lowerbound cost (0,5x)

Cost ranges for each SDG component

Million EUR — chart showing One-off cost (green) and Yearly ongoing costs (blue) for eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure.

Romania
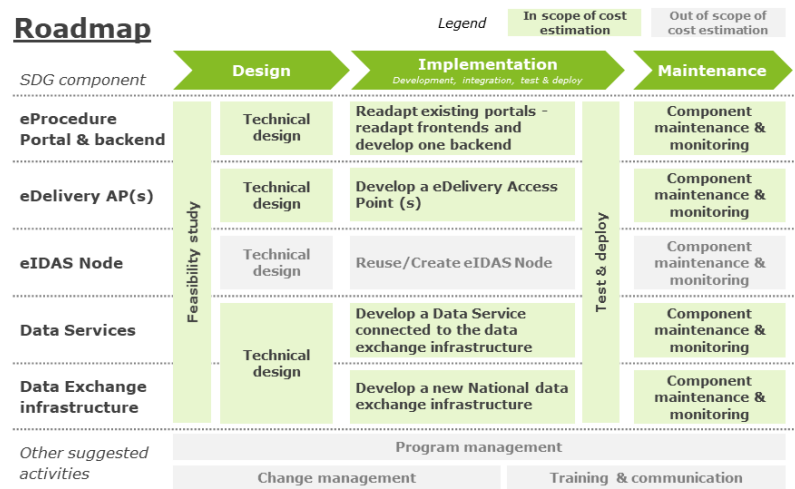## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Romania has in place a large number of portals where users can access online procedures. It could choose to readapt these portals and connect them to a single backend to allow users to request the reuse of SDG evidence types. Two eDelivery Access Points are currently available for reuse, however Romania could choose to develop an additional one for the SDG. Its eIDAS Node, enabling cross-border authentication, is currently under development. Romania could potentially consider the development of a single national data exchange infrastructure to enable the exchange of SDG evidence types over the technical system. The country could develop a single data service to connect to this infrastructure.

Cost estimates
Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 14,38 million € (cost range from 7,19 to 28,77 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 4,3 million € (cost range from 2,15 to 8,6 million €).
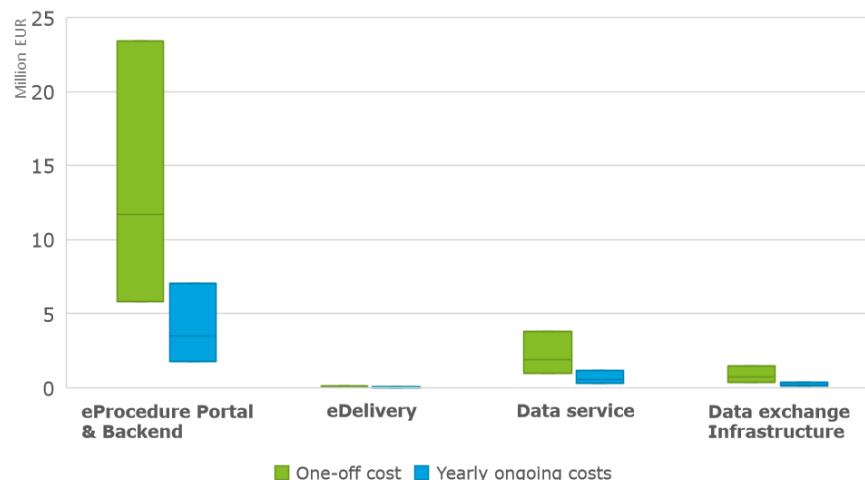
Roadmap

Legend: In scope of cost estimation / Out of scope of cost estimation

SDG component		Design	Implementation (Development, integration, test & deploy)		Maintenance
eProcedure Portal & backend	Feasibility study	Technical design	Readapt existing portals - readapt frontends and develop one backend	Test & deploy	Component maintenance & monitoring
eDelivery AP(s)		Technical design	Develop a eDelivery Access Point (s)		Component maintenance & monitoring
eIDAS Node		Technical design	Reuse/Create eIDAS Node		Component maintenance & monitoring
Data Services		Technical design	Develop a Data Service connected to the data exchange infrastructure		Component maintenance & monitoring
Data Exchange infrastructure		Technical design	Develop a new National data exchange infrastructure		Component maintenance & monitoring
Other suggested activities		Program management			
		Change management		Training & communication	

High-level cost estimates

SDG component	Implementation option	One–off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 2 - Readapt existing portals – readapt 136 frontends and develop one backend	Up: 23,4 mln € **Avg:11,7 mln €** Low: 5,85 mln €	Up: 7,0 mln € **Avg: 3,5 mln €** Low: 1,77 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,108 mln € **Avg: 0,054 mln €** Low: 0,027 mln €	Up: 0,056 mln € **Avg: 0,028 mln €** Low: 0,014 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 3,8 mln € **Avg: 1,9 mln €** Low: ,95 mln €	Up: 1,14 mln € **Avg: 0,57 mln €** Low: 0,28 mln €
Data Exchange infrastructure	Opt 1 – Develop a new National data exchange infrastructure and connect 80 data sources	Up: 1,44 mln € **Avg: 0,72 mln €** Low: 0,36 mln €	Up: 0,38 mln € **Avg: 0,19 mln €** Low: 0,99 mln €
Legend Up: Upperbound cost (2x) Avg: Estimated cost (1x) Low: Lowerbound cost (0,5x)	**TOTALS**	Up: 28,77 mln € **Avg: 14,38 mln €** Low: 7,19 mln €	Up: 8,6 mln € **Avg: 4,3 mln €** Low: 2,15 mln €

Cost ranges for each SDG component

Legend: One-off cost (green) / Yearly ongoing costs (blue)

Slovakia
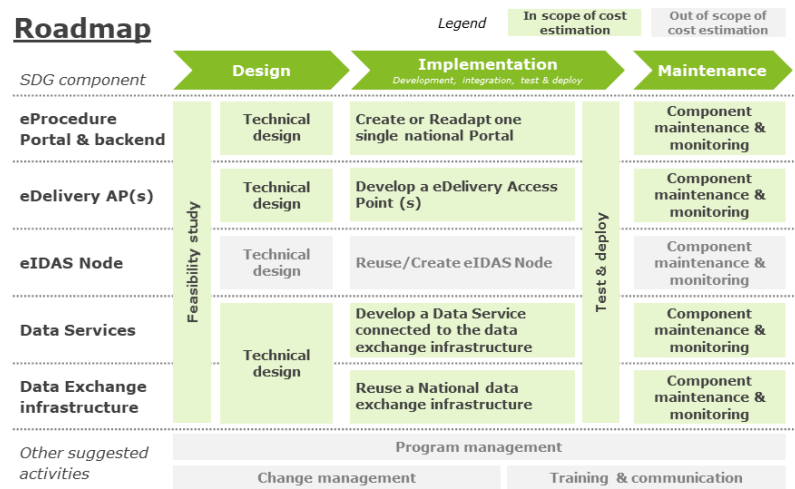## SDG high-level Roadmap and cost estimates

Summary

Roadmap

Slovakia has in place the "Central Public Administration Portal (CPAP)" where users can access different online services provided by public administrations. It plans to use this a single portal where users can request the reuse of SDG evidence types for different procedures. The country already has in place 14 eDelivery Access Points developed during European and national projects, however it is evaluating the development of a new one for the SDG. For cross-border authentication, Slovakia will reuse its eIDAS Node which is already in production. It plans to reuse its national data exchange infrastructure, the "Data integration platform", to serve as a central point of integration with the SDG OOP technical system. It connect one data service to this infrastructure.

Cost estimates

Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 3,2 million € (cost range from 1,6 to 6,3 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 0,96 million € (cost range from 0,48 to 1,9 million €).
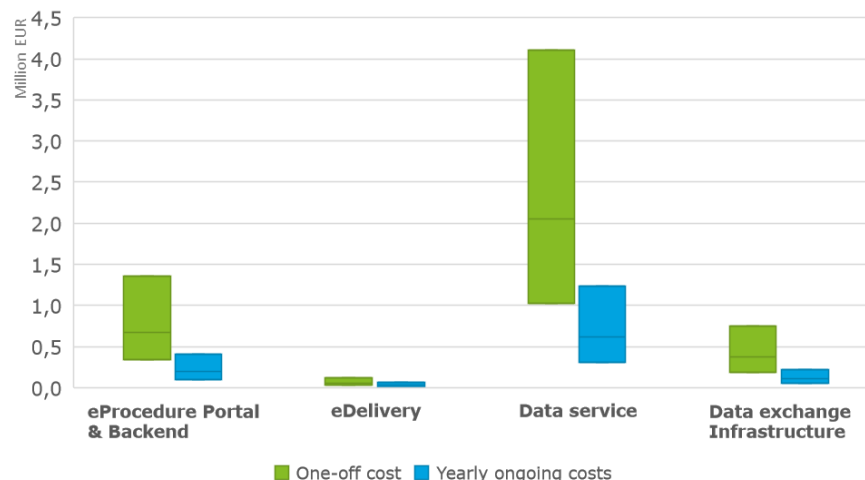
Roadmap

Legend:
- In scope of cost estimation
- Out of scope of cost estimation

SDG component	Design	Implementation *Development, integration, test & deploy*	Maintenance
eProcedure Portal & backend	Technical design	Create or Readapt one single national Portal	Component maintenance & monitoring
eDelivery AP(s)	Technical design	Develop a eDelivery Access Point (s)	Component maintenance & monitoring
eIDAS Node	Technical design	Reuse/Create eIDAS Node	Component maintenance & monitoring
Data Services	Technical design	Develop a Data Service connected to the data exchange infrastructure	Component maintenance & monitoring
Data Exchange infrastructure	Technical design	Reuse a National data exchange infrastructure	Component maintenance & monitoring

(Feasibility study spans the Design column; Test & deploy spans the Implementation column)

Other suggested activities		
Program management		
Change management		Training & communication

High-level cost estimates

SDG component	Implementation option	One–off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 1 - Create or Readapt one single national Portal	Up: 1,35 mln € **Avg: 0,67 mln €** Low: 0,38 mln €	Up: 0,4 mln € **Avg: 0,2 mln €** Low: 0,1 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,114 mln € **Avg: 0,057 mln €** Low: 0,028 mln €	Up: 0,06 mln € **Avg: 0,03 mln €** Low: 0,015 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 4,1 mln € **Avg: 2,05 mln €** Low: 1,02 mln €	Up: 1,23 mln € **Avg: 0,61 mln €** Low: 0,3 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 36 data sources	Up: 0,78 mln € **Avg: 0,39 mln €** Low: 0,19 mln €	Up: 0,23 mln € **Avg: 0,11 mln €** Low: 0,055 mln €
TOTALS		Up: 6,3 mln € **Avg: 3,2 mln €** Low: 1,6 mln €	Up: 1,9 mln € **Avg: 0,96 mln €** Low: 0,48 mln €

Legend
Up: Upperbound cost (2x)
Avg: Estimated cost (1x)
Low: Lowerbound cost (0,5x)

Cost ranges for each SDG component

Chart axis: Million EUR (0,0 to 4,5). Categories: eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure.

Legend: ■ One-off cost ■ Yearly ongoing costs

Slovenia
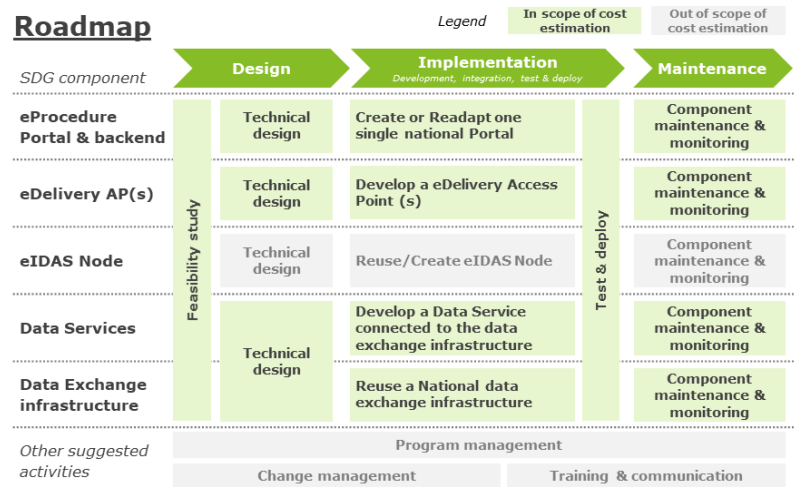## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Slovenia could consider readapting a single portal to create a single point of contact for accessing the SDG procedures and requesting reuse of evidence types. The country has seven eDelivery Access Points, however it could deploy an additional dedicated access point for the SDG. Its eIDAS nodes is in production, enabling cross-border authentication. The country has an existing data exchange infrastructure, TRAY, which it plans to reuse to share SDG evidence types over the SDG OOP technical system. This infrastructure could be connected to a single data service to be developed.

Cost estimates
Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 3,7 million € (cost range from 1,8 to 7,3 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 1,1 million € (cost range from 0,6 to 2,3 million €).
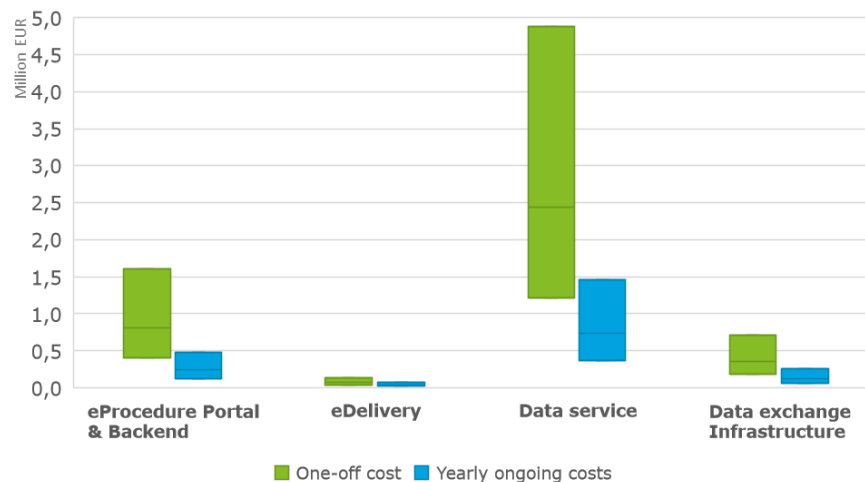
Roadmap

Legend: In scope of cost estimation | Out of scope of cost estimation

SDG component	Design	Implementation Development, integration, test & deploy	Maintenance
eProcedure Portal & backend	Technical design	Create or Readapt one single national Portal	Component maintenance & monitoring
eDelivery AP(s)	Technical design	Develop a eDelivery Access Point (s)	Component maintenance & monitoring
eIDAS Node	Technical design	Reuse/Create eIDAS Node	Component maintenance & monitoring
Data Services	Technical design	Develop a Data Service connected to the data exchange infrastructure	Component maintenance & monitoring
Data Exchange infrastructure		Reuse a National data exchange infrastructure	Component maintenance & monitoring

(Feasibility study / Test & deploy shown as vertical bands framing the Implementation column)

Other suggested activities	Program management
	Change management	Training & communication

High-level cost estimates

SDG component	Implementation option	One–off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 1 - Create or Readapt one single national Portal	Up: 1,6 mln € **Avg: 0,8 mln €** Low: 0,4 mln €	Up: 0,48 mln € **Avg: 0,24 mln €** Low: 0,12 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,137 mln € **Avg: 0,068 mln €** Low: 0,034 mln €	Up: 0,072 mln € **Avg: 0,036 mln €** Low: 0,018 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 4,88 mln € **Avg: 2,44 mln €** Low: 1,22 mln €	Up: 1,46 mln € **Avg: 0,73 mln €** Low: 0,36 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 34 data sources	Up: 0,78 mln € **Avg: 0,39 mln €** Low: 0,19 mln €	Up: 0,20mln € **Avg: 0,10 mln €** Low: 0,05 mln €
TOTALS		Up: 7,3 mln € **Avg: 3,7 mln €** Low: 1,8 mln €	Up: 2,3 mln € **Avg: 1,1 mln €** Low: 0,6 mln €

Legend
Up: Upperbound cost (2x)
Avg: Estimated cost (1x)
Low: Lowerbound cost (0,5x)

Cost ranges for each SDG component

Chart: Million EUR, y-axis 0,0 to 5,0. Categories: eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure. Legend: One-off cost (green), Yearly ongoing costs (blue).

Spain
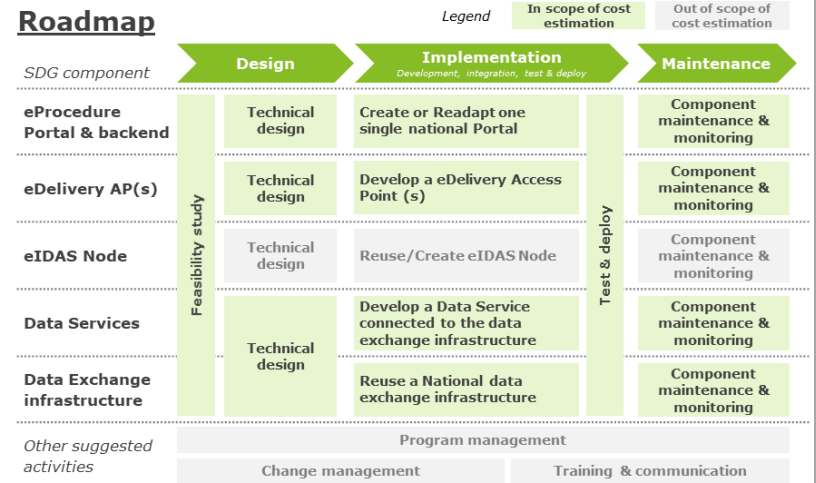## SDG high-level Roadmap and cost estimates

Summary

Roadmap

Spain could choose to adapt a single national portal to allow users to request reuse of SDG evidence types for all the SDG procedures. The country has 11 already implemented eDelivery Access Points, but could choose to develop an additional one for the SDG. It already has in place its eIDAS node enabling cross-border authentication. Spain plans to reuse its national data exchange infrastructure – PID – as a single point connected to the SDG OOP technical system to through which it would share SDG evidence types. Spain could develop a single Data Service component to connect to this infrastructure.

Cost estimates

Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 4,3 million € (cost range from 2,2 to 8,7 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 1,3 million € (cost range from 0,6 to 2,6 million €).
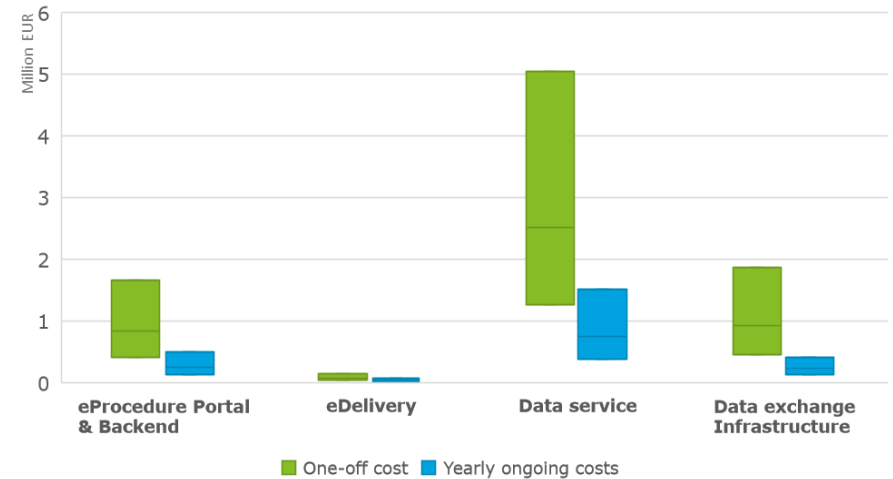
Roadmap

Legend: In scope of cost estimation | Out of scope of cost estimation

SDG component	Design	Implementation (Development, integration, test & deploy)	Maintenance
eProcedure Portal & backend	Technical design	Create or Readapt one single national Portal	Component maintenance & monitoring
eDelivery AP(s)	Technical design	Develop a eDelivery Access Point (s)	Component maintenance & monitoring
eIDAS Node	Technical design	Reuse/Create eIDAS Node	Component maintenance & monitoring
Data Services	Technical design	Develop a Data Service connected to the data exchange infrastructure	Component maintenance & monitoring
Data Exchange infrastructure	Technical design	Reuse a National data exchange infrastructure	Component maintenance & monitoring

(Feasibility study spans the Design phase; Test & deploy spans the Implementation phase)

Other suggested activities	Program management
	Change management	Training & communication

High-level cost estimates

SDG component	Implementation option	One−off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 1 - Create or Readapt one single national Portal	Up: 1,66 mln € **Avg: 0,83 mln €** Low: 0,41 mln €	Up: 0,5 mln € **Avg: 0,25 mln €** Low: 0,12 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,141 mln € **Avg: 0,071 mln €** Low: 0,035 mln €	Up: 0,074 mln € **Avg: 0,037 mln €** Low: 0,018 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 5,04 mln € **Avg: 2,52 mln €** Low: 1,26 mln €	Up: 1,5 mln € **Avg: 0,75 mln €** Low: 0,37 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 221 data sources	Up: 1,8 mln € **Avg: 0,9 mln €** Low: 0,45 mln €	Up: 0,47 mln € **Avg: 0,23 mln €** Low: 0,12 mln €
TOTALS		Up: 8,7 mln € **Avg: 4,3 mln €** Low: 2,2 mln €	Up: 2,6 mln € **Avg: 1,3 mln €** Low: 0,6 mln €

Legend
Up: Upperbound cost (2x)
Avg: Estimated cost (1x)
Low: Lowerbound cost (0,5x)

Cost ranges for each SDG component
(Million EUR — One-off cost / Yearly ongoing costs for eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure)

Sweden
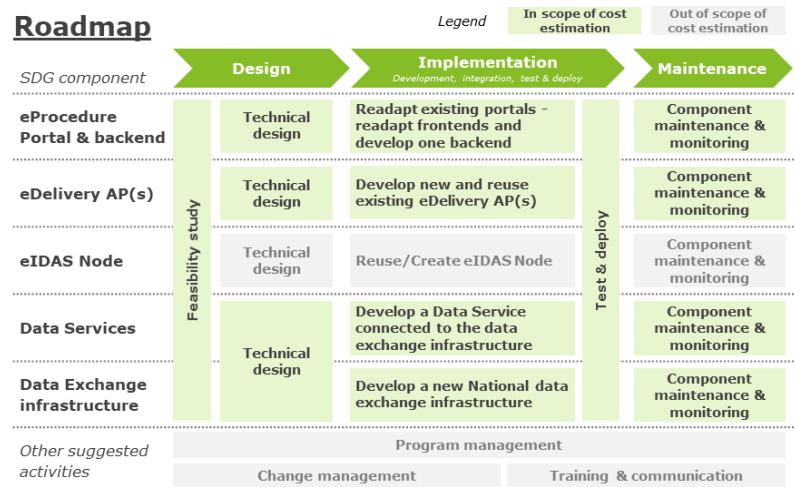## SDG high-level Roadmap and cost estimates

Summary

Roadmap
In Sweden, multiple existing portals are used to provide access to the different SDG procedures. It plans to readapt these as front-ends for the SDG OOP technical system and could connect them to a single back-end. The country has 29 eDelivery Access Points in use, but could consider developing an additional dedicated one for the SDG. It already has an eIDAS Node enabling cross-border authentication. The country could potentially consider developing a national data exchange infrastructure (it currently only has sectorial infrastructures) to facilitate the sharing of SDG evidence types over the technical system. It could then connect a single data service component to this new infrastructure.

Cost estimates
Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 49,03 million € (cost range from 24,51 to 98,07 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 14,55 million € (cost range from 7,27 to 29,1 million €).

Roadmap

Legend: In scope of cost estimation / Out of scope of cost estimation

SDG component	Design	Implementation — Development, integration, test & deploy	Maintenance
eProcedure Portal & backend	Technical design	Readapt existing portals - readapt frontends and develop one backend	Component maintenance & monitoring
eDelivery AP(s)	Technical design	Develop new and reuse existing eDelivery AP(s)	Component maintenance & monitoring
eIDAS Node	Technical design	Reuse/Create eIDAS Node	Component maintenance & monitoring
Data Services	Technical design	Develop a Data Service connected to the data exchange infrastructure	Component maintenance & monitoring
Data Exchange infrastructure	Technical design	Develop a new National data exchange infrastructure	Component maintenance & monitoring

(Feasibility study spans Design; Test & deploy spans Implementation)

Other suggested activities	Program management
	Change management / Training & communication

High-level cost estimates

SDG component	Implementation option	One−off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 2 - Readapt existing portals – readapt 315 frontends and develop one backend	Up: 79,2 mln € **Avg: 39,6 mln €** Low: 19,8 mln €	Up: 23,78 mln € **Avg: 11,89 mln €** Low: 5,94 mln €
eDelivery AP(s)	Opt 3 - Develop new and reuse existing eDelivery AP(s) for cross border interactions	Up: 0,24 mln € **Avg: 0,12 mln €** Low: 0,06 mln €	Up: 0,196 mln € **Avg: 0,098 mln €** Low: 0,049 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 6,64 mln € **Avg: 3,32 mln €** Low: 1,66 mln €	Up: 1,99 mln € **Avg: 0,99 mln €** Low: 0,49 mln €
Data Exchange infrastructure	Opt 1 – Develop a new National data exchange infrastructure and connect 80 data sources	Up: 11,89 mln € **Avg: 5,94 mln €** Low: 2,97 mln €	Up: 3,12 mln € **Avg: 1,56 mln €** Low: 0,78 mln €
Legend Up: Upperbound cost (2x) Avg: Estimated cost (1x) Low: Lowerbound cost (0,5x)	TOTALS	Up: 98,07 mln € **Avg: 49,03 mln €** Low: 24,51 mln €	Up: 29,10 mln € **Avg: 14,55 mln €** Low: 7,27 mln €

Cost ranges for each SDG component

Million EUR. Categories: eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure. Legend: One-off cost (green), Yearly ongoing costs (blue).