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 2/3

Germany
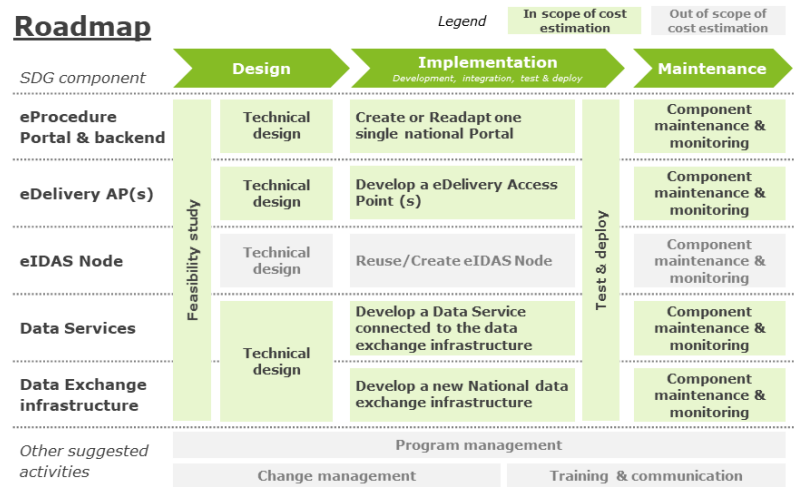## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Germany could choose to adapt a single national Portal to allow the request of evidence by EU citizens over the SDG OOP technical system. The country has in place 86 Access Points but could develop an additional one for the purposes of the SDG. It can count on an operating eIDAS Node to enable cross-border authentication. Germany could consider developing a national data exchange infrastructure to allow it to make available the different SDG evidence types over the SDG OOP technical system. It could then connect a single data service component to this infrastructure.
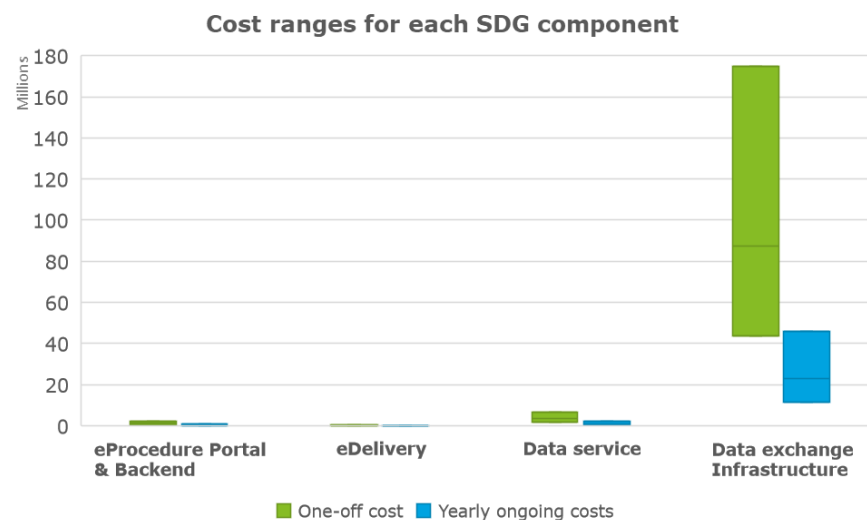
Cost estimates
Based on the collected information and chosen Implementation strategies, the estimated one-off cost to design, develop, test and deploy the SDG components is approximately 92,0 million € (cost range from 46,0 to 184,0 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 24,36 million € (cost range from 12,18 to 48,72 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	Develop a new National data exchange infrastructure	Component maintenance & monitoring

(Feasibility study ... Test & deploy)

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: 2,2 mln € **Avg: 1,1 mln €** Low: 0,55 mln €	Up: 0,66 mln € **Avg: 0,33 mln €** Low: 0,166 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,18 mln € **Avg: 0,09 mln €** Low: 0,045 mln €	Up: 0,1 mln € **Avg: 0,05 mln €** Low: 0,025 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 6,6 mln € **Avg: 3,3 mln €** Low: 1,65 mln €	Up: 2,0 mln € **Avg: 1,0 mln €** Low: 0,5 mln €
Data Exchange infrastructure	Opt 1 - Develop a new National data exchange infrastructure and connect 11872 data sources	Up: 174,9 mln € **Avg: 87,45 mln €** Low: 43, 72 mln €	Up: 45,95 mln € **Avg: 22,97 mln €** Low: 11,49 mln €
TOTALS		Up: 184,0 mln € **Avg: 92,0 mln €** Low: 46,0 mln €	Up: 48,72 mln € **Avg: 24, 36 mln €** Low: 12,18 mln €

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

Cost ranges for each SDG component

Millions — y-axis from 0 to 180

- eProcedure Portal & Backend
- eDelivery
- Data service
- Data exchange Infrastructure

■ One-off cost ■ Yearly ongoing costs

Greece
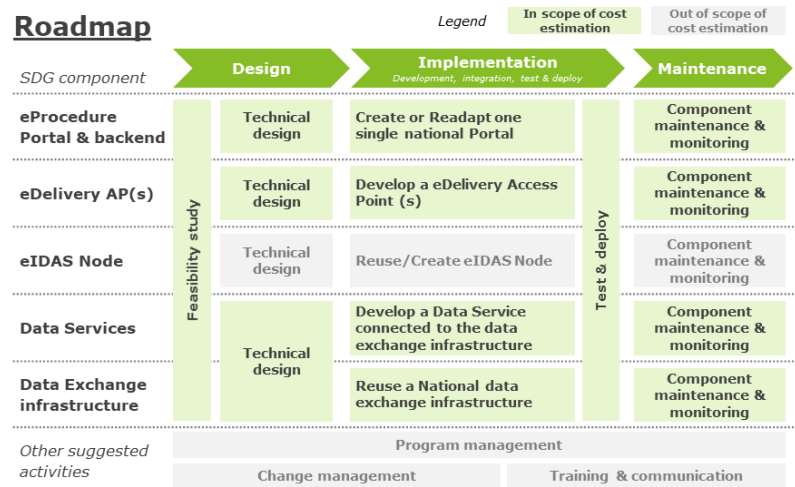## SDG high-level Roadmap and cost estimates

Summary

Roadmap

Greece recently deployed a new portal, acting as the single point of contact for citizens and businesses, that will be readapted to offer all the functionalities prescribed by the SDG regulation. The country has already deployed 9 eDelivery Access Points but could potentially deploy a new one for the SDG. It has an eIDAS Node in production which can facilitate cross-border authentication. Greece plans to reuse its existing national data exchange infrastructure (Government Service Bus) to exchange data with the SDG infrastructure. It could potentially connect one data service component to this.

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 2,9 million € (cost range from 1,45 to 5,8 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 0,88 million € (cost range from 0,44 to 1,77 million €).
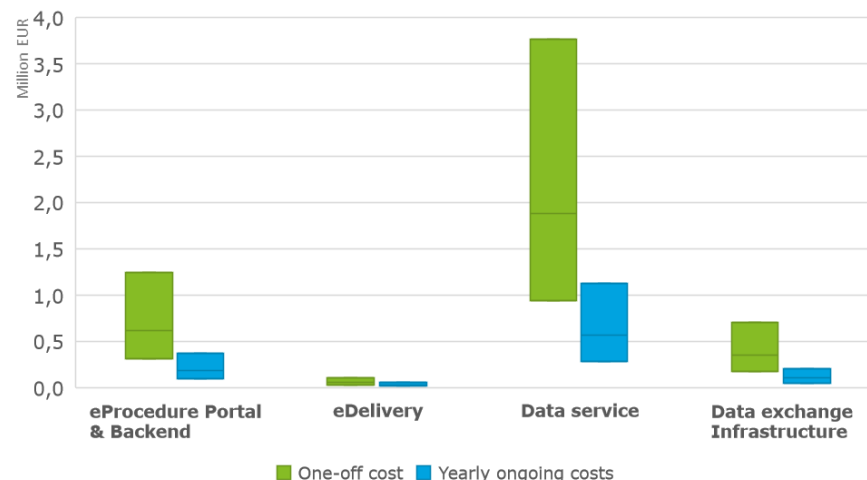
Roadmap

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 spans the Design column; Test & deploy spans between Implementation and Maintenance)

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: 1,24 mln € **Avg: 0,62 mln €** Low: 0,31 mln €	Up: 0,38 mln € **Avg: 0,19 mln €** Low: 0,095 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,10 mln € **Avg: 0,05 mln €** Low: 0,02 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: 3,76 mln € **Avg: 1,88 mln €** Low: 0,94 mln €	Up: 1,1 mln € **Avg: 0,56 mln €** Low: 0,28 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 37 data sources	Up: 0,7 mln € **Avg: 0,36 mln €** Low: 0,17 mln €	Up: 0,20 mln € **Avg: 0,10 mln €** Low: 0,05 mln €
TOTALS		Up: 5,8 mln € **Avg: 2,9 mln €** Low: 1,45 mln €	Up: 1,77 mln € **Avg: 0,88mln €** Low: 0,44 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

■ One-off cost ■ Yearly ongoing costs

Hungary
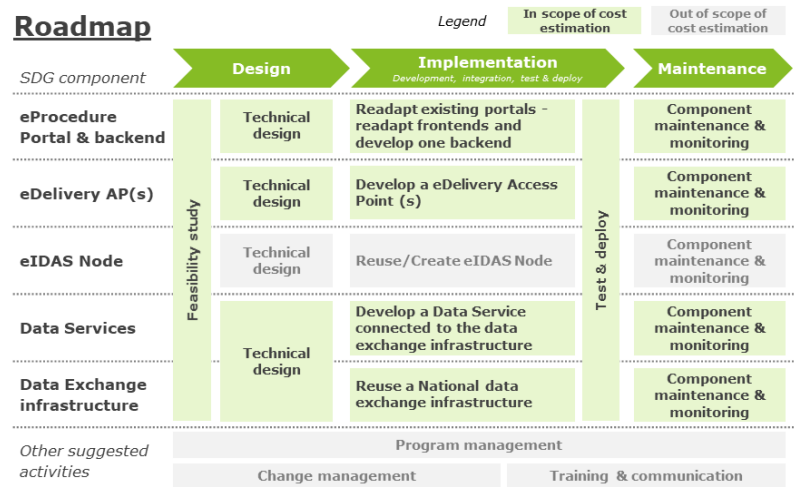## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Hungary could readapt multiple existing front-end portals and develop one back-end to allow the request of evidence by EU citizens. The country already has 2 eDelivery Access Points, but could choose to deploy a new one for the SDG. It is currently developing its eIDAS Node to enable cross-border authentication. The country plans to use its existing National data exchange infrastructure, the "Government Service Bus" to share evidence types with the SDG OOP technical system. It could develop and connect one single data service component 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 7,96 million € (cost range from 3,98 to 15,92 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 2,39 million € (cost range from 1,19 to 4,78 million €).
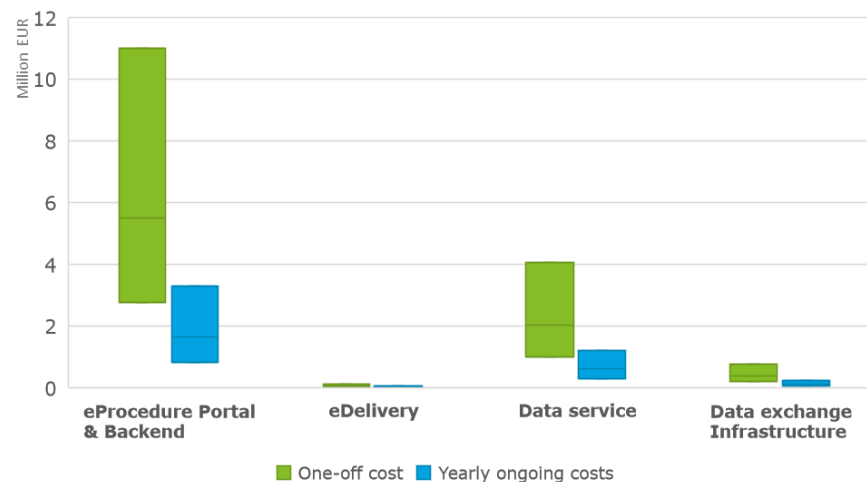
Roadmap

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 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 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 45 frontends and develop one backend	Up: 11,0 mln € **Avg: 5,5 mln €** Low: 2,75 mln €	Up: 3,3 mln € **Avg: 1,65 mln €** Low: 0,82 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,11 mln € **Avg: 0,056 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: 4,04 mln € **Avg: 2,02 mln €** Low: 1,01 mln €	Up: 1,2 mln € **Avg: 0,6 mln €** Low: 0,3 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 37 data sources	Up: 0,76 mln € **Avg: 0,39 mln €** Low: 0,19 mln €	Up: 0,22mln € **Avg: 0,11 mln €** Low: 0,055 mln €
TOTALS		Up: 15,92 mln € **Avg: 7,96 mln €** Low: 3,98 mln €	Up: 4,78 mln € **Avg: 2,39 mln €** Low: 1,19 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

■ One-off cost   ■ Yearly ongoing costs

Ireland
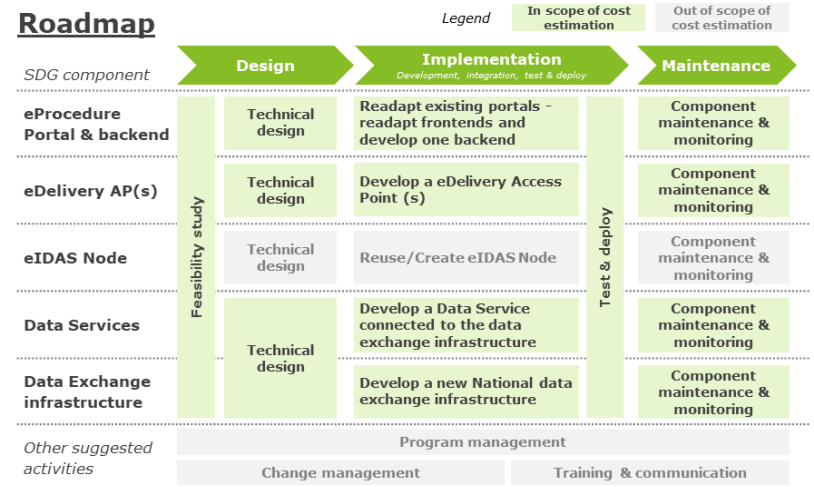## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Ireland could readapt multiple existing front-end portals and develop one back-end to allow the request of evidence by EU citizens. The country can already count on three eDelivery Access Points in place, but could consider developing a dedicated one for the SDG. It is currently developing its eIDAS Node to enable cross-border authentication. The country does not currently have a data exchange infrastructure in place to connect public authorities' registries, although they could develop one. Ireland could connect one 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 14,23 million € (cost range from 7,11 to 28,44 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 4,25 million € (cost range from 2,12 to 8,5 million €).
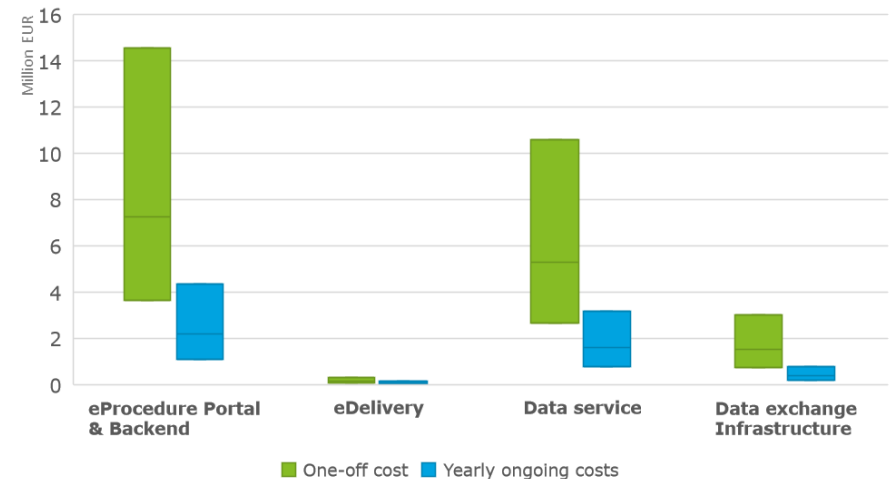
Roadmap

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 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		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 15 frontends and develop one backend	Up: 14,54 mln € **Avg: 7,27 mln €** Low: 3,63 mln €	Up: 4,36 mln € **Avg: 2,18 mln €** Low: 1,09 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,3 mln € **Avg: 0,15 mln €** Low: 0,007 mln €	Up: 0,15 mln € **Avg: 0,075 mln €** Low: 0,037 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 10,6 mln € **Avg: 5,3 mln €** Low: 2,65 mln €	Up: 3,2 mln € **Avg: 1,6 mln €** Low: 0,8 mln €
Data Exchange infrastructure	Opt 1 - Develop a new National data exchange infrastructure and connect 56 data sources	Up: 3,0 mln € **Avg: 1,5 mln €** Low: 0,75 mln €	Up: 0,8 mln € **Avg: 0,4 mln €** Low: 0,2 mln €
Legend Up: Upperbound cost (2x) Avg: Estimated cost (1x) Low: Lowerbound cost (0,5x)	TOTALS	Up: 28,44 mln € **Avg: 14,23 mln €** Low: 7,11 mln €	Up: 8,5 mln € **Avg: 4,25 mln €** Low: 2,12 mln €

Cost ranges for each SDG component

Legend: ■ One-off cost ■ Yearly ongoing costs

Italy
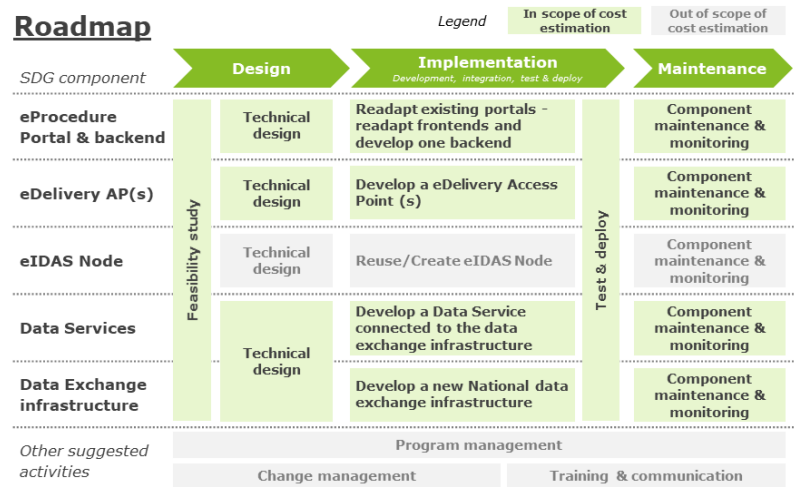## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Italy has a decentralized configuration, with many different portals both at national and regional level. It could adapt these multiple portals for the SDG OOP technical system and develop a single front-end. Italy has already 117 eDelivery access points in use but could choose to develop an additional one for the SDG. It already has an eIDAS Node to enable cross-border authentication. Italy could consider developing a national data exchange infrastructure to facilitate sharing its evidence types over the SDG OOP technical system. A single data service component could be connected 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 64,72 million € (cost range from 32,36 to 129,44 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 17,6 million € (cost range from 8,8 to 35,2 million €).
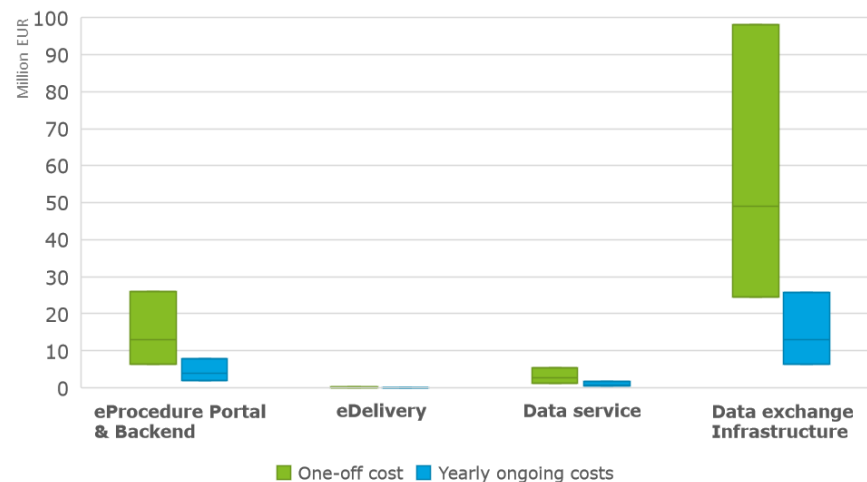
Roadmap

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 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

(Feasibility study — Test & deploy)

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 102 frontends and develop one backend	Up: 25,86 mln € **Avg: 12,93 mln €** Low: 6,46 mln €	Up: 7,76 mln € **Avg: 3,88 mln €** Low: 1,94 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,148 mln € **Avg: 0,074 mln €** Low: 0,037 mln €	Up: 0,08 mln € **Avg: 0,04 mln €** Low: 0,02 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 5,26 mln € **Avg: 2,63 mln €** Low: 1,31 mln €	Up: 1,58 mln € **Avg: 0,79 mln €** Low: 0,39 mln €
Data Exchange infrastructure	Opt 1 – Develop a new National data exchange infrastructure and connect 8146 data sources	Up: 98,16 mln € **Avg: 49,08 mln €** Low: 24,54 mln €	Up: 25,8 mln € **Avg: 12,9 mln €** Low: 6,45 mln €
Legend Up: Upperbound cost (2x) Avg: Estimated cost (1x) Low: Lowerbound cost (0,5x)	*TOTALS*	Up: 129,44 mln € **Avg: 64,72 mln €** Low: 32,36 mln €	Up: 35,2 mln € **Avg: 17,6 mln €** Low: 8,8 mln €

Cost ranges for each SDG component

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

■ One-off cost ■ Yearly ongoing costs

Latvia
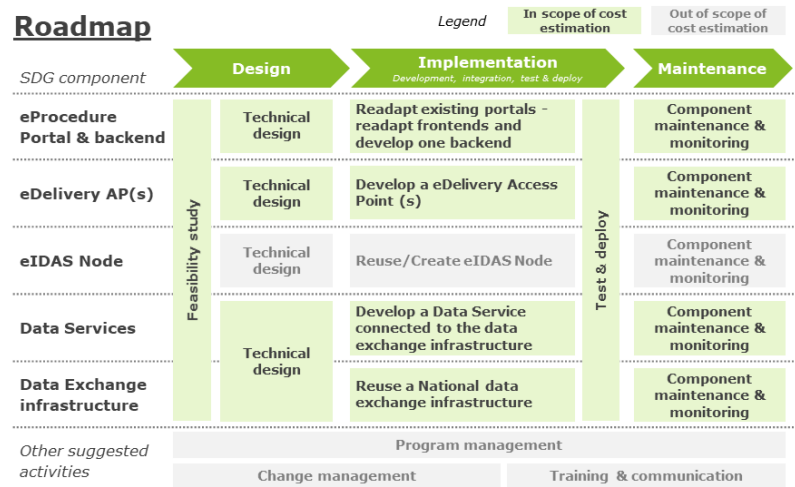## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Latvia has in place the central national portal "Latvija.lv" where services are listed, but the user is then redirected to all the competent authorities' websites. Latvia could readapt those multiple portals to allow users to request the re-use of evidence types over the SDG OOP technical system, linking them to one back-end. The country has in place 2 eDelivery Access Points, but could deploy a new one for the SDG. It also has an eIDAS Node under development to enable cross-border authentication. For data exchange, the country plans to reuse its "Integrated State Information System" (IVIS), providing a data exchange platform between national registries and information systems. The country could develop and connect a single data service to the system.

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 6,62 million € (cost range from 3,31 to 13,25 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 2,39 million € (cost range from 1,19 to 4,78 million €).
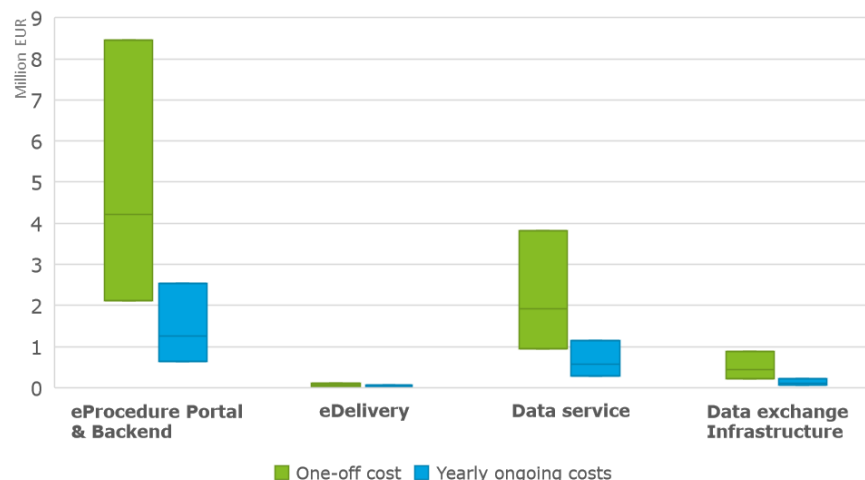
Roadmap

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 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
Other suggested activities	Program management		
	Change management	Training & communication	

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

High-level cost estimates

SDG component	Implementation option	One–off cost	Yearly ongoing cost
eProcedure Portal & backend	Opt 2 - Readapt existing portals – readapt 33 frontends and develop one backend	Up: 8,44 mln € **Avg: 4,22 mln €** Low: 2,11 mln €	Up: 2,54 mln € **Avg: 1,27 mln €** Low: 0,63 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,107 mln € **Avg: 0,053 mln €** Low: 0,026 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: 3,82 mln € **Avg: 1,91 mln €** Low: 0,95 mln €	Up: 1,14 mln € **Avg: 0,57 mln €** Low: 0,26 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 41 data sources	Up: 0,86 mln € **Avg: 0,43 mln €** Low: 0,21 mln €	Up: 0,22mln € **Avg: 0,11 mln €** Low: 0,055 mln €
TOTALS		Up: 13,25 mln € **Avg: 6,62 mln €** Low: 3,31 mln €	Up: 4,78 mln € **Avg: 2,39 mln €** Low: 1,19 mln €

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

Cost ranges for each SDG component

Legend: One-off cost (green) / Yearly ongoing costs (blue)
Y-axis: Million EUR (0-9)
X-axis: eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure
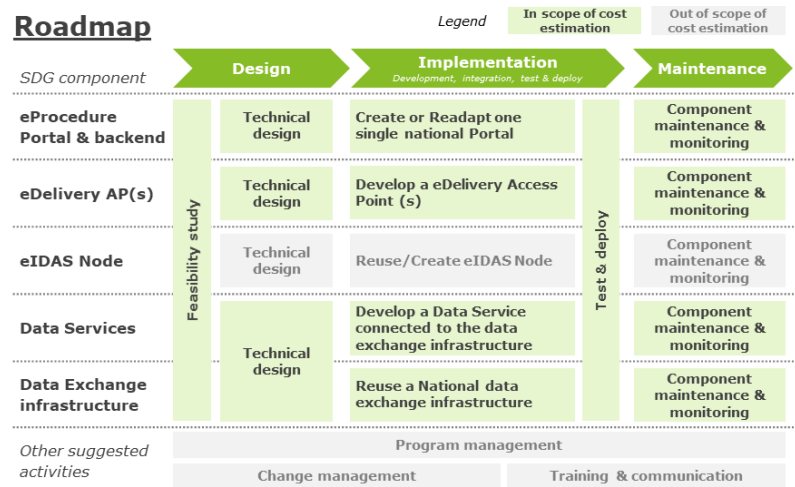
Summary

Roadmap

Lithuania has a main portal, "epaslaugos.it", that could be adapted and reused as the single front-end allow users to request the reuse of SDG evidence types. The country already uses five eDelivery Access Points but could develop a new one for the SDG. It already has in place an eIDAS node integrated with the national portal enabling cross-border authentication. Lithuania has also a national data exchange infrastructure in place, "SIRIP", which it plans to use so that it can share its SDG evidence types over the SDG OOP technical system. This could be connected 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 3,22 million € (cost range from 1,61 to 6,45 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 1,0 million € (cost range from 0,5 to 2,0 million €).
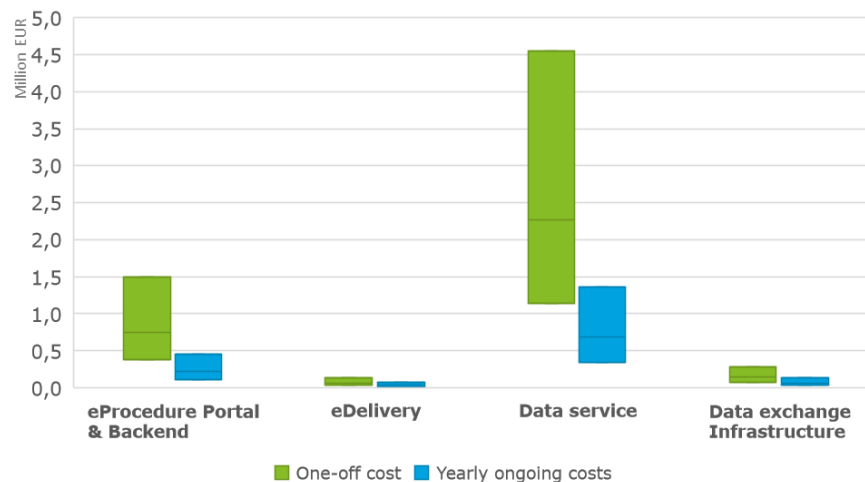
Roadmap

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
Other suggested activities	Program management		
	Change management	Training & communication	

(vertical labels: Feasibility study / Test & deploy)

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: 1,5 mln € **Avg: 0,75 mln €** Low: 0,37 mln €	Up: 0,44 mln € **Avg: 0,22 mln €** Low: 0,11 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,127 mln € **Avg: 0,063 mln €** Low: 0,031 mln €	Up: 0,067 mln € **Avg: 0,033 mln €** Low: 0,016 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 4,54 mln € **Avg: 2,27 mln €** Low: 1,13 mln €	Up: 1,36 mln € **Avg: 0,68 mln €** Low: 0,34 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 14 data sources	Up: 0,36 mln € **Avg: 0,18 mln €** Low: 0,09 mln €	Up: 0,09mln € **Avg: 0,05 mln €** Low: 0,02 mln €
TOTALS		Up: 6,45 mln € **Avg: 3,22 mln €** Low: 1,61 mln €	Up: 1,96 mln € **Avg: 0,98 mln €** Low: 0,49 mln €

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

Cost ranges for each SDG component

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

Luxembourg
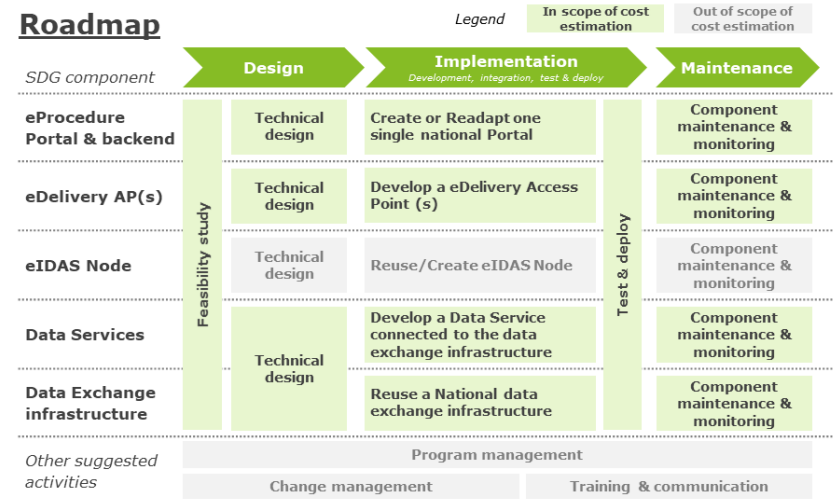## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Luxembourg could choose to readapt a single national portal to provide a front-end for users requesting the reuse of SDG evidence types. The country already has in place 3 eDelivery Access Points but could deploy a new one for the SDG. Its eIDAS Node is already connected to the central portal, enabling cross-border authentication. The country plans to reuse its "RACINE data exchange infrastructure to make available its evidence types over the SDG OOP technical system. This infrastructure could be connected to a single Data Service component 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 13,4 million € (cost range from 6,7 to 26,8 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 3,9 million € (cost range from 1,97 to 7,9 million €).
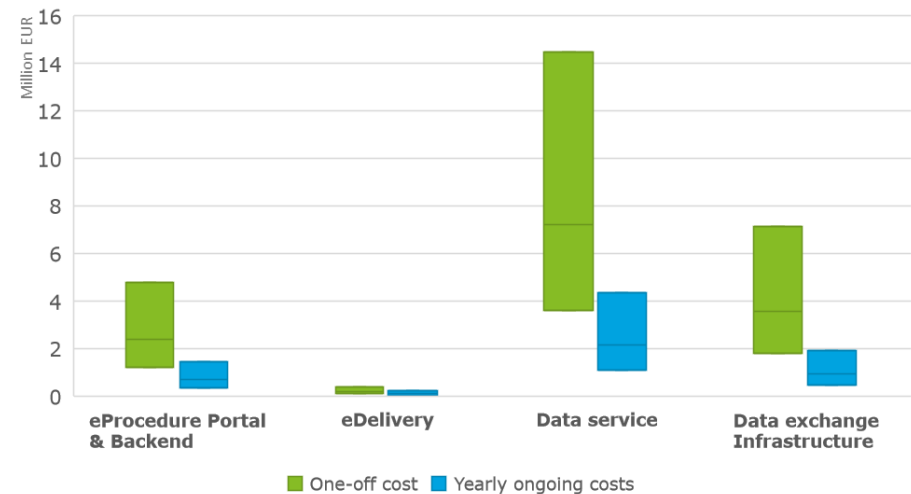
Roadmap

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		Reuse a National data exchange infrastructure	Component maintenance & monitoring
Other suggested activities	Program management / Change management / Training & communication		

(Feasibility study — Design phase; Test & deploy — Implementation phase)

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: 4,78 mln € **Avg: 2,39 mln €** Low: 1,19 mln €	Up: 1,42 mln € **Avg: 0,71 mln €** Low: 0,35 mln €
eDelivery AP(s)	Opt 1 - Develop 1 eDelivery AP	Up: 0,4 mln € **Avg: 0,2 mln €** Low: 0,1 mln €	Up: 0,2 mln € **Avg: 0,1 mln €** Low: 0,05 mln €
Data Services	Opt 1 - Develop one Data service connected to the National data exchange infrastructure	Up: 14,46 mln € **Avg: 7,23 mln €** Low: 3,61 mln €	Up: 4,34 mln € **Avg: 2,17 mln €** Low: 1,08 mln €
Data Exchange infrastructure	Opt 2 - Reuse the existing data exchange infrastructure and connect 116 data sources	Up: 7,1 mln € **Avg: 3,5 mln €** Low: 1,7 mln €	Up: 1,91 mln € **Avg: 0,95 mln €** Low: 0,47 mln €
TOTALS		Up: 26,8 mln € **Avg: 13,4 mln €** Low: 6,7 mln €	Up: 7,9 mln € **Avg: 3,9 mln €** Low: 1,97 mln €

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

Cost ranges for each SDG component

Million EUR — axis values: 0, 2, 4, 6, 8, 10, 12, 14, 16
Categories: eProcedure Portal & Backend, eDelivery, Data service, Data exchange Infrastructure
Legend: One-off cost / Yearly ongoing costs

Malta
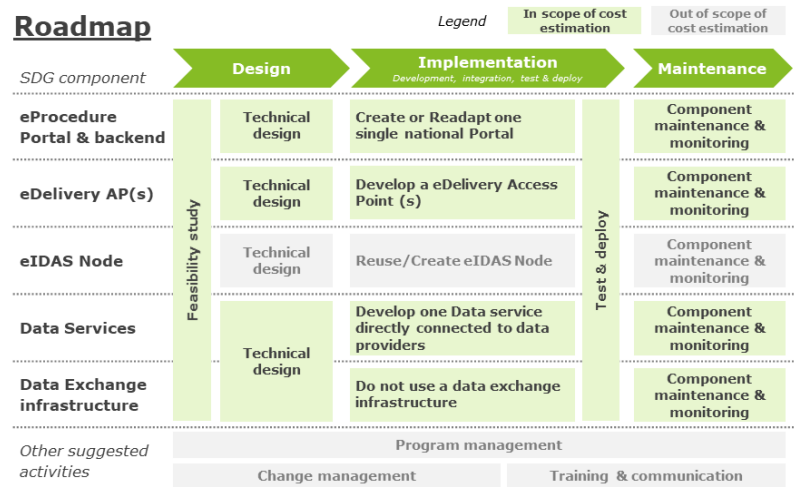## SDG high-level Roadmap and cost estimates

Summary

Roadmap
Malta has a central portal - Servizz.gov - that it could choose to readapt to allow users to request the reuse of SDG OOP evidence types. The country has already in place three eDelivery Access Points (ECodex, EESSI and BRIS) but it is considering the deployment of one or two new eDelivery Access Points to ensure adequate availability. The eIDAS node, currently in production, will be further developed in the future to be connected to all the MSs and enable cross-border authentication. Given the low number of data providers it needs to connect to the SDG OOP technical system, it could choose to directly connect 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 4,68 million € (cost range from 2,34 to 9,36 million €). The estimated yearly ongoing cost to maintain the SDG components is estimated to be around 1,44 million € (cost range from 0,72 to 2,88 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 | Test & deploy)

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: 1,8 mln € **Avg: 0,9 mln €** Low: 0,45 mln €	Up: 0,52 mln € **Avg: 0,27 mln €** Low: 0,13 mln €
eDelivery AP(s)	Opt 1 - Develop 2 eDelivery AP	Up: 0,3 mln € **Avg: 0,15 mln €** Low: 0,75 mln €	Up: 0,16 mln € **Avg: 0,08 mln €** Low: 0,04 mln €
Data Services	Option 2 - Develop one Data service directly connected to 20 data providers	Up: 7,24, mln € **Avg: 3,62 mln €** Low: 1,81 mln €	Up: 2,17 mln € **Avg: 1,08 mln €** Low: 0,54 mln €
Data Exchange infrastructure	Opt 3 - Do not use a data exchange infrastructure	---	---
Legend *Up: Upperbound cost (2x)* *Avg: Estimated cost (1x)* *Low: Lowerbound cost (0,5x)*	TOTALS	Up: 9,36 mln € **Avg: 4,68 mln €** Low: 2,34 mln €	Up: 2,88 mln € **Avg: 1,44 mln €** Low: 0,72 mln €

Cost ranges for each SDG component

Million EUR — eProcedure Portal & Backend / eDelivery / Data service / Data exchange Infrastructure

■ One-off cost   ■ Yearly ongoing costs