ICT IMPLICATIONS OF EU LEGISLATION (2016.23)

IDENTIFICATION OF THE ACTION

Service in charge	DG DIGIT.B6			
	DG SG and any Commission DG wishing to assess the ICT			
Associated Complete	impact of its legislation, especially those performing Impact			
Associated Services	Assessments and Evaluations, Parliament, Council, Publications			
	Office			

EXECUTIVE SUMMARY

The assessment of ICT implications of EU legislation is directly mentioned as a main activity in the ISA² and ISA decisions and contributes to their main objective notably through ensuring that EU legislation is prepared and evaluated with ICT in mind. The later facilitates cross-border and cross-sector interoperability thus contributing to the realisation of the Digital Single Market (DSM) strategy. Given that ISA² special focus is on interoperability, it is also necessary that a mechanism is developed to measure the costs and benefits of interoperability not only when legislation is produced but also whenever it is necessary to justify new interoperability initiatives or promote existing ones.

The problem of not considering or underestimating ICT impacts when EU legislation is prepared or evaluated results into legislation that does not take advantage of new digital technologies, may impose unrealistic deadlines and be more costly in its implementation. Also the lack of a mechanism to prove the value of interoperability may slow down or undermine investments on interoperability.

The action has succeeded as part of the ISA programme to promote the ICT assessment concept within the Commission and produce the supporting tools (ICT assessment method) necessary for ICT impacts to be well analysed as part of the Impact Assessment and Evaluation process. It has also produced a draft mechanism to allow measuring the costs and benefits of interoperability, still pending testing.

The scope of the action includes that:

- ICT/digital checks apply to all new legislation through screening;
- New legislation is digital minded and ICT impacts are properly assessed in Impact Assessments and Evaluations as part of the policy cycle of the Commission;
- A hook is made with the ICT Governance of the Commission to ensure that an end-to-end governance process is in place;
- Support and training is provided to those involved in the law-making process;
- The ICT assessment method and all related tools are constantly refined as a result of gained experience;
- A proper mechanism to measure the costs and benefits of interoperability is developed and made publicly available.

Beneficiaries are the Commission DGs that will prepare coherent and interoperable ICT based legislation, as well as the legislation stakeholders, namely MS, business and citizens. MS public authorities involved in similar ICT assessments of national legislation could also use the action's ICT assessment method (possibly) refined to fit to their specific needs.

In 2016, the action will update the assessment methodology and conduct a number of assessments in relation to new legislations.

In addition, a method to measure the cost benefit of interoperability will also be developed.

OBJECTIVES

The objective is to ensure that ICT implications are well identified and assessed when EU legislation is prepared or evaluated and are properly and in due course taken into account to support the implementation of the concerned legislation effectively, timely and at reasonable cost. It is also to make available tools that could measure the value of interoperability and provide convincing arguments for its wide application.

The action is meant to support the DSM strategy by ensuring that EU legislation is digital minded, interoperable and fully exploits the benefits of ICT.

SCOPE

In scope:

- Monitoring of the pre-notifications (via Inception Impact Assessments and Evaluation Roadmaps) addressed by the Commission DGs about the preparation of new or evaluation of existing legislation to early identify possible ICT implications;
- Establish a service to support the Impact Assessment and Evaluation process of the Commission in relation to ICT;
- Constant update of an Impact Assessment/Evaluation method (based on an IDABC method published in 2010) used in the delivery of the above service;
- Except from the Commission services, the method could also be used by the MS as a tool to assess the impact of EU and national legislation;
- Promotion within the EU services of the need to produce digital minded legislation in support to the Digital Single Market (DSM) strategy of the Commission;
- Development of a mechanism to measure costs and benefits of interoperability.
- Establish a service to support the use of the mechanism in cases coming both from Commission and Member States;
- Investigate the combination of the mechanism with other measuring and assessement tools and methodologies such as the interoperability maturity model (IMM).

Out of scope:

• It is only the method that is provided to the MS as a tool to help them in their ICT assessment process and not the service.

PROBLEM STATEMENT

In relation to the ICT implications method:

The problem of	not taking into account ICT implications of EU legislation		
	during the legislative proposals' preparation stage or at		
	legislation evaluation		
affects	the Commission services involved in the preparation,		
	adoption, implementation and evaluation of the concerned		
	legislation and the legislation's target audience, usually EU		
	Public Administrations, citizens and businesses		
the impact of which is	moderate ICT implementation quality, at higher cost, unmet		
	deadlines, lack of interoperability, possible sub-optimal		
	implementation of the legislation due to insufficient ICT		
	support, etc.		
a successful solution would be	the early consideration of ICT impacts when EU legislation is		
	prepared or evaluated to allow for efficient use of ICT		
	technologies, timely identification of synergies with other IT		
	systems, reusability and interoperability, provide guaranties		
	of timely implementation and decrease the administrative		
	burden/cost.		

In relation to the measurement mechanism for costs and benefits of interoperability:

The problem of	not having tangible means to assess costs and benefits of				
	interoperability				
affects	the Commission and the MS wishing to invest on				
	interoperability initiatives				
the impact of which is	hesitation to make proper interoperability investments etc.				
a successful solution would be	To develop such a mechanism and make it publicly available				

EXPECTED BENEFICIARIES AND ANTICIPATED BENEFITS

A monetary benefit of running the specific action cannot be estimated upfront. The expected benefit will be cumulative:

- from all studies (Impact Assessment and Evaluation) that consider an ICT based approach as an integrated part of the EU legislation as opposed to having ignored or underestimated ICT and
- from savings due to applying interoperability principles in ICT developments.

Qualitative benefits can be identified and are listed below:

Beneficiaries	Anticipated benefits
European Commission	• Legislation benefitting from ICT: it means legislation that applies both to

services	the physical and digital worlds and makes ultimate use of ICT means to	
Public Administrations	provide electronic, online and interoperable services;	
Businesses	• Wider use of interoperability due to proofs that it can provide benefits	
Citizens	(included monetary)	
	This will have positive impact to the modernisation of Public Administration	
	will maximise growth through a European digital economy and enable an	
	inclusive e-society.	

RELATED EU ACTIONS / POLICIES

Action / Policy	Description of relation, inputs / outputs
Communication on "A	Legislation to be prepared or evaluated in various domain related to the DSM
Digital Single Market	(e-health, e-government, e-transport, e-energy, etc.) can benefit from the
Strategy for Europe",	action and the proposed ICT assessment method to assess ICT impacts.
COM(2015)192	
Communication on	It concerns an update to the Commission's guidelines on how to perform
"Better Regulation for	Impact Assessments and Evaluations. This new version requires explicitly the
better results",	consideration of ICT as part of the process and includes a tool to help such
COM(2015) 215	assessment (tool No 23 on "ICT assessment, the digital economy and
	society" ¹). The action will align with the requirements set out by the new
	guidelines and will put in place a service to help targeted Impact Assessments
	and Evaluation in the identification and analysis of their ICT impacts.
Any other policy	
domain the action will	
be asked to support	
though Impact	
Assessments and	
Evaluations	
ISA ² Action	Reusable solutions that allow the electronic participation of stakeholders, the
'Participatory	analysis of the captured opinions and the discovery and generation of
knowledge for	knowledge will be taken into account for the properly preparation and
supporting decision	evaluation of EU legislation regarding the ICT implications.
making'	
ISA ² Action (Interinstitutional	The proposed interoperable ways of structuring the content of the
framework for digital	documents that need to be exchanged between the institutions for the purposes of the ordinary legislative procedure will be taken into account for
OLP management'	the properly preparation and evaluation of EU legislation regarding the ICT
	implications.
ISA ² Action 'Legislation	Existing or under development building blocks (i.e. software, tools etc.) that
interoperability tools	support and improve the electronic exchange of documents and metadata in

¹ http://ec.europa.eu/smart-regulation/guidelines/tool 23 en.htm

(LEGIT)'the context of the legislative process and the transformation between different formats will be taken into account for the properly preparation and evaluation of EU legislation regarding the ICT implications.ISA² Action 'European Legislation Identifier (ELI)'The proposed approach for identifying legislation documents and the supporting assets and solutions will provide input for the properly preparation and evaluation of EU legislation regarding the ICT implications.ISA² Action (ELI)'Reusable tools and the underlying semantic structures and data standards for monitoring the application of EU law will be taken into account for the properly preparation and evaluation of EU legislation regarding the ICT implications.ISA² Action 'Application of EU law: provision of cross- sector communication and problem solving tools (THEMIS)'Regarding the interoperability measuring mechanism: "all ISA² actions shall		
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"all ISA ² actions shall	mechanism:	
	"all ISA ² actions shall	
use the mechanism"	use the mechanism"	
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REUSE OF SOLUTIONS DEVELOPED BY ISA, ISA² OR OTHER EU / NATIONAL INITIATIVES

Various ISA² actions such as the EIRA, EIC, EIS, EIF, TES, Semantics, Base Registries, Catalogue of Services, just to name some of them, inter-relate with the action in question. The idea is that whenever ICT implications are analysed, interoperability effects and reusability possibilities are always considered. ISA and ISA² actions provide the means (frameworks, services and tools) to achieve the above.

In case interoperability requirements are to be defined in proposed legislation, EIF should be named as the desired framework. If a high level architecture is to be included, then EIRA as such or a compatible one could be proposed. EIC, TES, Base registries and Catalogue of Services can be used as sources of reusability whereas Semantics can drive the definition of legislations' data models. The cost and benefit model used by the action in question will be enriched with the mechanism to measure costs and benefits of interoperability.

Liaison with the internal Commission ICT Governance is a must to ensure that ICT implications identified during the law-making process are well linked with the internal ICT Governance procedures when the Commission is amongst the concerned stakeholders. This way, reusability possibilities are highly increased.

Output	ICT Implications Assessment method
name	
Description	It is a method to guide the ICT assessment process. It is based on an older method
	developed in 2010 by IDABC.
	The method was updated in Jun 2015 and will be formally published in 2016 following
	additional testing in a number of cases and consultation with the MS.
Reference	Older IDABC method:

EXPECTED RE-USABLE OUTPUTS (solutions and instruments)

	http://ec.europa.eu/isa/actions/documents/isa_3.1_description_of_the_method.pdf
	Draft updated method:
	http://ec.europa.eu/isa/documents/actions/ks-sc9-d04-03-ict-assessment-
	method_v5.00.pdf
Target	Q2/2016 / Stable release
release date	Current status: Draft
/ Status	

Output	Measurement mechanism for costs and benefits of interoperability
name	
5	It is a mechanism to allow measuring the exact cost and benefit of interoperability
Description	solutions
Reference	
Target	Q1/2015 as draft (to pilot with the MS in 2016)
release date	
/ Status	

ORGANISATIONAL APPROACH

Expected stakeholders and their representatives

Stakeholders	Representatives
European	The Secretary General and any Commission DG in charge of preparing new or
Commission services	evaluating existing legislation.
Member States	MS representations to the ISA ² Committee and Coordination group and through
	them MS public administration authorities involved in similar studies at national
	level that may use the proposed method and/or give feedback on good
	practices applied nationally.

Communication plan

The communication plan includes:

- Promotion/consultation rounds with the Commission stakeholders namely, the IT heads, the Impact Assessment units and the concerned policy units of the Commission DGs;
- Communication with the ICT Governance of the Commission to better align the law-making and the ICT development processes within the Commission thus ensuring policy coherence and maximising ICT rationalisation effects;
- Active participation to the Impact Assessment Working Group and communication of the benefits resulting from the assessment of the ICT impacts;

• Communication with the MS representatives through the regular ISA² management meetings and through webinars and dedicated workshops.

Governance approach

The action will be managed by DIGIT with the support of an external contractor. Whenever major deliverables are to be published, the validation of the MS representatives will be sought.

TECHNICAL APPROACH

A good step forward has been done with the integration of ICT assessment in the policy cycle of the Commission and the update of the ISA assessment method. Also, a measurement mechanism for costs and benefits of interoperability wasdeveloped in 2015 and is expected to be tested before the end of 2016.

Next major objective is to ensure that the use of the method is generalised. The method should be constantly maintained and refined with lessons learnt and its benefits should be measured and evaluated with feedback received from the policy makers. The measurement mechanism should also be made part of the method once tested with the MS.

Q2/2016 - Q1/2017:

- The updated method is foreseen to be used in a number of different cases (3–6). Communication activities to promote its use within the Commission DGs will be intensified. A good link should be established with the ICT Governance of the Commission and tested in practise;
- The mechanism to measure costs and benefits of interoperability will be tested in pilots with the Member States and will be supported as a service by the external contractor. It should be noticed that this mechanism can be used for the 2017 work-programme as a means to assess candidate actions, in accordance with the ISA² decision.

COSTS AND MILESTONES

Breakdown of anticipated costs and related milestones

Phase: Inception Execution Operational	Description of milestones reached or to be reached	Anticipated Allocations (KEUR)	Budget line ISA ² / others (specify)	Start date (QX/YYYY)	End date (QX/YYYY)
	 Screen/Monitor all published Inception Impact Assessments and Roadmaps of the Commission to identify the need of ICT impact analysis; Assess ICT implications of Impact 	745	ISA ²	Q2/2016	Q2/2018

	essments and uations as needed			
thro	ugh a service			
prov	vided by DG DIGIT;			
• Upd	ate the method as			
need	ded;			
Pilot	t and finalise a			
mea	surement			
mec	hanism for costs			
and	benefits of			
inter	roperability and			
mak	e it available as a			
serv	ice			
Total		745		

Breakdown of ISA² funding per budget year

Budget		Anticipated allocations	Executed budget (in KEUR)
Year	Phase	(in KEUR)	
2016		450	
2017		295	
2018			
2019			
2020			

ANNEX AND REFERENCES

		Attached
Description	Reference link	document
IDABC existing	http://ec.europa.eu/isa/actions/documents/isa 3.1 descripti	
method and	on_of_the_method.pdf	
Draft updated		
method	http://ec.europa.eu/isa/documents/actions/ks-sc9-d04-03-	
	ict-assessment-method_v5.00.pdf	