

8.11 ASSESSMENT OF TRANS-EUROPEAN SYSTEMS SUPPORTING EU POLICIES (2016.36)

8.11.1 IDENTIFICATION OF THE ACTION

Type of Activity	Common frameworks
Service in charge	DG DIGIT.B6
Associated Services	CONNECT.H.3, DIGIT.01, DIGIT.B, MARKT.B.1 and TAXUD.C5

8.11.2 EXECUTIVE SUMMARY

The European Commission is determined to improve the efficiency on its ICT portfolio management, especially for solutions of trans-European nature having direct impact on the implementation of EU policies.

On the one hand the Commission ITT Governance should rationalise existing IT systems by identifying and eliminating overlaps through reusability.

On the other hand the policy makers i.e. in the context of the recently launched Digital Single Market strategy should make good use of technology in EU legislation, by referring to an updated repository of IT solutions linked with legal and business needs and technically sound.

For the above to happen, the identification, collection, documentation and assessment of Trans European Systems (TES) managed by the Commission on behalf of/jointly with the Member States is needed. TES should be put into a Cartography (EUCart) which means that they all have to be described in a common way using a reference architecture. This reference architecture has been chosen to be the EIRA. The scope of this action includes:

- the creation of an EUCart based on EIRA that will allow the identification of reusable and interoperable IT solutions to the benefit of the ICT portfolio management of the Commission and in support of the makers of the EU policy-makers.
- The assessment of the reusability and interoperability levels of the building blocks of each TES

So far, more than 75 TES have been put into the current version of the EUCart and can be easily queried and organised.

Next steps include the update and extension of the EUCart and the application and assessment of reusability and interoperability criteria that will increase the reusability potential of TES.

8.11.3 OBJECTIVES

The objective of this action is:

- To rationalise the portfolio of the Trans European Systems managed by the Commission, through the identification and elimination of overlaps and through maximizing reusability to the benefit of those using these systems, public administrations included;
- To assess/produce/validate reusability and interoperability guidelines that could be used to allow solutions entering the European Interoperability Cartography;
- To allow policy-makers benefit from reusing TES or their parts when preparing EU legislation.

8.11.4 SCOPE

All Trans European Systems developed by the Commission on behalf of/jointly with the Member States and contained in the ICT portfolio of the Commission are in scope. Member State systems identified by NIFO are also potential targets for inclusion in the Cartography.

More particularly, the following activities fall under the action in question:

- Identify, collect and document using EIRA all concerned TES in a Cartography (EUCart);
- Analyse and identify overlaps, missing modules and reusability possibilities;
- Identify TES that could be included into the European Interoperability Cartography (EIC) when this is ready and/or on the Joinup, as needed;
- Feed back to the Commission's IT Governance to ensure proper decision making in relation to (on-going) rationalisation.

8.11.5 PROBLEM STATEMENT

The problem of	not having a detailed and similarly documented (with the use of a common architectural description) portfolio of Trans European Systems supporting EU policies,
affects	the Commission responsible services (policy-makers, ICT decision-makers, portfolio managers, etc.) in their endeavour to rationalise its ICT portfolio and properly reuse ICT solutions in the preparation of EU legislation
the impact of which is	inefficient decision-making and possible duplication of effort in the development of ICT solutions due to difficulties in identifying reusable elements. This in turn results into higher cost and longer development time with no guarantee of openness and interoperability
a successful solution would be	to put in place a Cartography of TES (EUCart) that will cater for common presentation and proper rationalisation process.

8.11.6 EXPECTED BENEFICIARIES AND ANTICIPATED BENEFITS

Beneficiaries	Anticipated benefits
Member States' Public Administrations	<ul style="list-style-type: none"> • More streamlined interfacing/integration with less EU systems; • Reduced training efforts as a fewer IT tools are used; • Shorter time to obtain IT tools for new areas; • Boost for e-government policies.
Commission Services	<ul style="list-style-type: none"> • Reduced IT development and maintenance costs; • Reduced training, helpdesk and awareness raising costs ; • Shorter time to deliver IT solutions for new areas; • Better quality due to reusing existing (proved) solutions and/or their modules.
(Indirectly) EU citizens and businesses	<ul style="list-style-type: none"> • Better digital services delivered by public authorities

8.11.7 RELATED EU ACTIONS / POLICIES

Action / Policy	Description of relation
Communication on "A Digital Single Market Strategy for Europe", COM(2015)192	The EUCart will be used in the frame of the Impact Assessment/Evaluation processes of the DSM initiatives as a repository of reusable solutions. Policy-makers can search in there for ICT solutions or their parts fulfilling their legal/business/technical needs.
ISA Action 2.1 – European Interoperability Architecture	The overall architectural design principles, direction and approach of EIRA drives the description of TES.

8.11.8 REUSE OF SOLUTIONS DEVELOPED BY ISA, ISA² OR OTHER EU / NATIONAL INITIATIVES

The TES action is linked with many other ISA/ ISA² actions, more specifically with:

- EIRA which is used to describe and document TES in a common way (including assessing them in relation to upcoming interoperability criteria);

- EIC which will benefit from the pilot implementation of EUCart;
- EIS which will potentially identify exemplary TES to refer to;
- Sharing and re-use which will co-define the criteria that TES will use to identify reusable solutions contained in the EUCart;
- Interoperable Testbed which could be potentially used for those TES having particular testing needs.

The TES action will support decisions to be taken by the IT Governance of the Commission through identifying and proposing reusability opportunities.

It will also support any legislation preparation or evaluation activity, through providing the means to the policy owners to identify synergies between legislation and reusable TES.

8.11.9 EXPECTED RE-USABLE OUTPUTS (solutions and instruments)

Output name	EUCart
Description	European Union Cartography of TES
Reference	CarTool using QlickView
Target release date / Status	regularly updated

8.11.10 ORGANISATIONAL APPROACH

8.11.10.1 Expected stakeholders and their representatives

Stakeholders	Representatives
European Commission Services	Policy units in the DGs, responsible for the setup of EU systems supporting exchanges between Member states and with EU institutions
IT Governance of the Commission	DG representatives
Member States Public Administrations	Relevant departments responsible for the information systems connected to or using the TES

8.11.10.2 Communication plan

Event	Representatives	Frequency of meetings / absolute dates of meetings?

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ISA ² committee/working/coordination group meetings	Member States representatives	At least yearly
Internal dedicated Commission meetings	Policy DGs	Ad-hoc

8.11.10.3 Governance approach

The action will be managed by DIGIT as well as CONNECT, MARKT and SANCO as associated DGs with the support of an external contractor and in close collaboration with the Commission DGs owners of the concerned TES.

8.11.11 TECHNICAL APPROACH

Up until 2013 the EUCart included 58 TES and provided a set of rationalization recommendations to the IT Governance of the Commission.

In 2015 the EUCart was updated with the latest version of the EIRA, started using the CarTool as the technical means for its organisation/presentation and extended to more than 75 solutions including 9 base registries. The EUCart is meant to feed into the European Interoperability Cartography (EIC). It is the playground to practise/validate outputs coming from relevant action, i.e. reusability criteria, EIRA, base registers, etc.

The next big step is to migrate/transfer EUCart solutions complying with certain interoperability/reusability criteria, to the EIC. To qualify a solution as interoperable and reusable thus making it eligible for the EIC, all TES views as per EIRA (i.e. legal, organizational, semantic and technical) shall be considered and checked against reusability criteria proposed by the sharing and re-use action and interoperability criteria (resulting from interoperability specifications) developed under the EIRA action. The total reusability cost shall also be estimated per EIRA building block.

Briefly, in 2016 the action will:

- Maintain/extend the EUCart and propose rationalisation recommendations to the Commission's IT Governance, including reusable TES;
- Assess the pertinence and efficiency of interoperability criteria that will be developed by the EIRA action for the purpose of allowing TES to enter the EIC.

8.11.12 COSTS AND MILESTONES

8.11.12.1 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)
	<ul style="list-style-type: none"> Constantly maintain/extend the EUCart Test interoperability criteria on TES 	200	ISA ²	Q2/2016	Q1/2017
	Total	200			

8.11.12.2 Breakdown of ISA² funding per budget year

Budget Year	Phase	Anticipated allocations (in KEUR)	Executed budget (in KEUR)
2016		200	