![isa Interoperability Solutions for European Public Administrations]

National Interoperability Framework Observatory

Questionnaire form MS

National Interoperability Framework Observatory
NIF Analysis

Dear NIF representative,

As part of the ISA programme of the Commission, we are currently conducting a new process to update the National Interoperability Framewo

You have been requested to submit your MS' National Interoperability Framework and other initiatives on interoperability as input for analysis.

This document includes the preliminary results of the analysis, to be integrated by your inputs. The analysis includes an observatory of all artef EIFand level of monitoring and implementation.

We would like to kindly request you to **verify** the analysis of your MS' NIF and related initiatives and integrate it to ensure that the study team

Analytical Model

Objectives

The objectives of the NIFO are:

(1) the exchange of information on national interoperability frameworks;

(2) to help Member States aligning the national interoperability initiatives to the EIF.

As an observatory, the NIFO should by definition observe all the actions and initiatives on interoperability the MS' are pursuing. In order to d to observe all items currently present in the different NIFs and to highlight the alignment of the different NIFs with the EIF as well as their lev items presented in the MS' NIFs and related initiatives can be classified. The recommendations found in the EIF are an integral part of this an to highlight their current alignment with the EIF and to improve the degree of implementation and monitoring

Structure of this document

This document includes four tabs:

Analysis MS	NIF-EIF Alignment	NIF Implementation	NIFMonitori

The 'Analysis MS' sheet contains an analysis of all items observed in the MS' National Interoperability Framework.

The '**NIF-EIF Alignment**' sheet provides a numerical representation of the alignment of the MS' NIF with the EIF. This representation is solely

The '**NIF Implementation'** sheet provides a numerical representation of the implementation of the MS' NIF.

The '**NIF Monitoring'** sheet provides a numerical representation of the monitoring of the MS' NIF.

The numerical representation will **not** be used for comparison ranking the different Member States.

Analysis MS

The '**Analysis MS**' sheet represents the analysis of the MS' NIF. The table contains the following columns:

NIF-EIF Alignment		
	EIF Element - Reference - Category	This column displays the different principles and recommendations found in the EIF and the re
	Measurement	This column displays how the alignment between NIF-EIF will be measured.
	NIF element present - Reference - (Text in English)	This column explains if the element is present in the NIF (or applied by default through other le
	NIF original text (optional)	Many of the NIFs and related documents are written in the national language, it is often useful
	NIF-EIF alignment scoring 2: fully 1: partially 0: not aligned	If a specific element provides evidences for the NIF-EIF alignment, a score is given.
	Rationale	A rationale is provided to clarify the scoring, indicating the score itself

Implementation		
	Large scale implementation	This column displays evidence of large scale implementation of the NIF element.
	Only implementation examples	This column and its 3 sub columns display evidence through examples of practical implementat

NIF Implementation scoring	If a specific element provides evidences for the NIF implementation, a score is given.

NIF monitoring	The 'NIF Element monitored' Column contains information on how the MS is monitoring the us
Monitoring scoring	If a specific element provides evidences for the NIF monitoring, a score is given.

Scoring mechanism

As stated above, all evidence provided by the MS should be interpreted in order to give a scoring to the particulare element.

More specifically, the following scoring scale will be applied:

NIF - EIF aligment	**Implementation**
0 = not aligned	0 = not observed
1 = partially aligned	1 = some examples
2 = fully aligned	2 = common practice (large scale implementation)

NIF-EIF Alignment

The '**NIF-EIF Alignment**' sheet represents a numerical representation of the alignment of the MS' NIF with the EIF.

It is organised around the five dimensions/categories of the EIF: Principles, Conceptual Model, Interoperability Levels, Interoperability Agree

Each dimension/category contains a number of specific elements allowing to measure the NIF-EIF alignment.

A graphical representation highlights the alignment of the MS' NIF with the EIF.

Category	EIF Element
Principles	Subsidiarity and proportionality
	User-centricity
	Inclusion and accessibility
	Security and privacy
	Multilingualism
	Administrative simplification
	Transparency

Example of a specific EIF dimension/category and its elements.

NIF Implementation

The **'NIF Implementation '** sheet is a numerical representation of the implementation of the NIF.

It is organised around the five dimensions/categories of the EIF: Principles, Conceptual Model, Interoperability Levels, Interoperability Agree

Each dimension/category contains a number of specific elements allowing to measure the NIF implementation and monitoring.

A graphical representation highlights the NIF implementation.

Category	EIF Element
Principles	Subsidiarity and proportionality
	User-centricity
	Inclusion and accessibility
	Security and privacy
	Multilingualism
	Administrative simplification
	Transparency

Example of a specific EIF dimension/category and its elements.

NIF Monitoring

The **'NIF Monitoring'** sheet is a numerical representation of the monitoring of the NIF.

It is organised around the five dimensions/categories of the EIF: Principles, Conceptual Model, Interoperability Levels, Interoperability Agree

Each dimension/category contains a number of specific elements allowing to measure the NIF monitoring.

A graphical representation highlights the NIF monitoring.

Category	EIF Element
Principles	Subsidiarity and proportionality
	User-centricity
	Inclusion and accessibility
	Security and privacy
	Multilingualism
	Administrative simplification
	Transparency

Example of a specific EIF dimension/category and its elements.

ork observatory (NIFO).

The study team will analyse the submitted documents through an analytical model.

acts present in your MS' NIF and other inititiatives on interoperability. Secondary, this analysis highlights your MS' alignment with the

has a full picture and can include all aspects in the analysis.

Thank you in advance for your cooperation

The NIFO team

o this, an analytical model has been defined

vel of impementation and monitoring. The analytical model defines categories in which all

nalytical model allowing MS

ng

intended to highlight potential gaps between the MS' NIF and the EIF.

ferences in the EIF. It provides hyperlinks to the relevent documents.

egislation, documents, etc), provides the text in English and references.

to have the original text included so that interpretations can be made after translation

tion of a NIF element or how it is applied e.g. in a specific project.
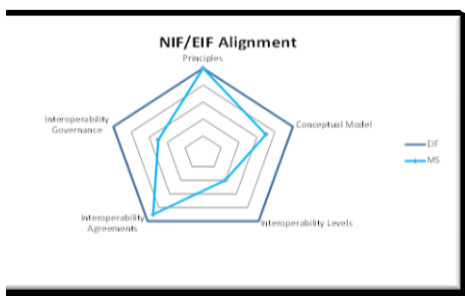
sage and application of the element in practice

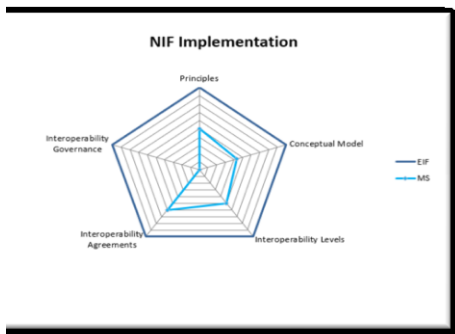**Monitoring**

0 = not observed

1= partially monitored

2= monitored

ments and Interoperability Governance.

NIF/EIF Alignment

Example of a graphical representation of the NIF-EIF alignment.

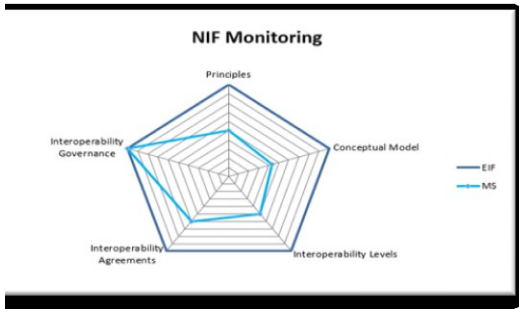ments and Interoperability Governance.

NIF Implementation

Example of a graphical representation of the NIF implementation.

ments and Interoperability Governance.

Example of a graphical representation of the NIF implementation.

Analysis of the NIFs

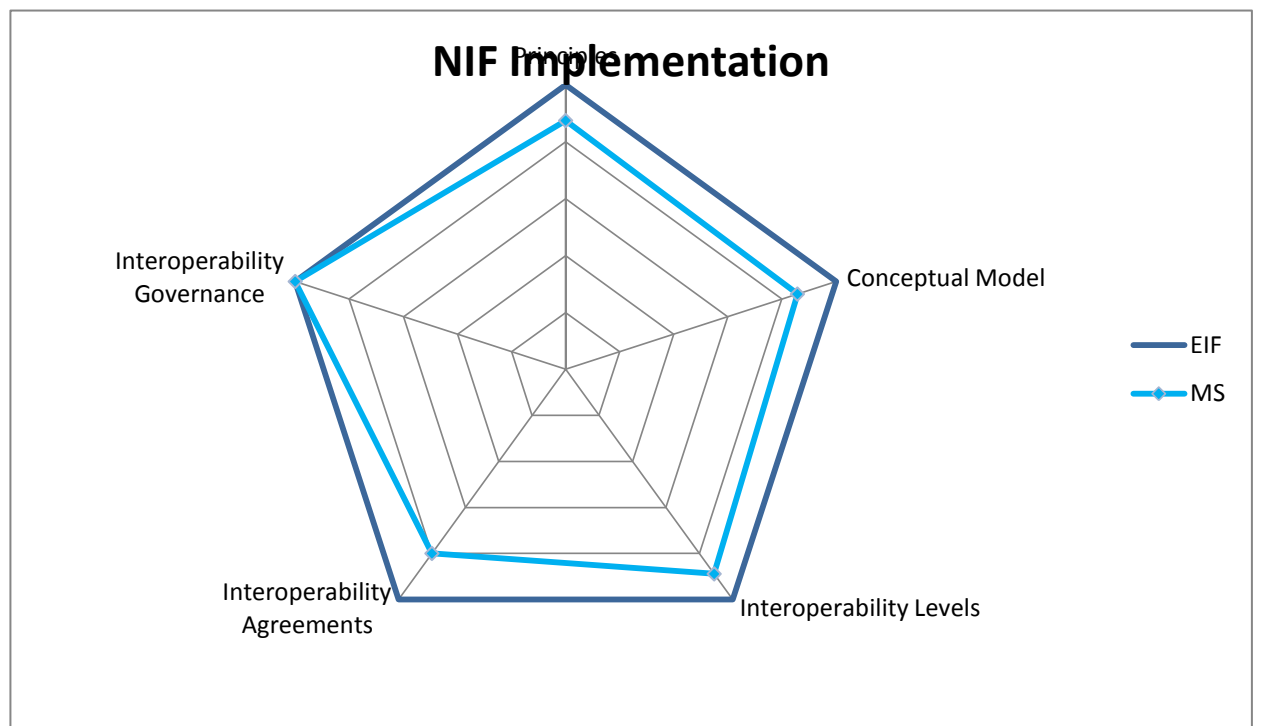| EIF Element - Reference - Category *See reference: the European Interoperability Framework_v2* *See definitions listed in the ISA EIF brochure*	NIF-EIF Alignment		NIF implementation		
	NIF element present - Reference - (Text in English)	**NIF-EIF alignment scoring** *2: fully* *1: partially* *0: not aligned*	**Large scale implementation** *[describe if and how implementation of the element is a common practice]*	Only implementation e**xamples** *[describe an implementation example specific to each element]*	**Implementa-tion scoring** *2: Common practice* *1: some examples* *0: not observed*
Subsidiarity and proportionality Ref: EIF, Chapter 2, Underlying principles Category: Principles	The EIF is translated and described in a local country framework, namely NORA (Nederlandse Overheid Referentie Architectuur): - NORA is primarily concerned with the 'information' and interoperability aspect, with due regard for the principle of subsidiarity. NORA is referred to as the Dutch Interoperability Framework. - Nora describes norms and measures relevant for involved parties. The different organisations are free to build further on this baseline to include internal quality aspects. See www.noraonline.nl	2	NORA is the national information framework of the Netherlands. All governmental domains like the global government, the provinces, the municipalities, and so on use their own specific IF's which ought to be derivate family members from NORA, like 'Matryoshka Nesting Dolls'. http://noraonline.nl/wiki/Visie_op_dochters	See for example www.earonline.nl or www.gemmaonline.nl, which are the IF's of the global government and the municipalities. See all other implementations http://noraonline.nl/wiki/Tabel_met_alle_dochters	2
User-centricity EIF, Chapter 2, Underlying principles Category: Principles	The EIF is translated and described in a local country framework, namely NORA (Nederlandse Overheid Referentie Architectuur). The basic principles of NORA include: '- Proactive - users will be provided with the service they need - Packages - users are offered related services as a package. When services, or their component parts, are closely related as seen from the user's perspective - they are offered to users as a package. The user gets the impression that they are just one single service. - Open to feedback - users can provide input about the service. Users can submit corrections, complaints, etc. to the service provider, either on request or on their own initiative. See http://noraonline.nl/wiki/Principes	2	The vision document 'better government services and action plan e-Government services' states that the government must put the citizen central to service delivery. It provides examples of eGovernment services where this principle has been implemented, including: - Digital client dossier: electronic forms have been made available and are prefilled, ensuring one-time request for information and reducing administrative burdens, it has also led to rationalisation of request for evidence and contributed to shorter for - Answers for Businesses: the Dutch Point of Single Contact provides a single electronic platform for businesses where all relevant information is provided procedures can be fulfilled electronically (see: http://www.answersforbusiness.nl/). See: http://e-overheid.nl/images/stories/Publicaties/visieenactieprogrammabeterepubliekedienstverlening.pdf		2

Category	EIF	MS
Principles	100%	95,8%
Conceptual Model	100%	100,0%
Interoperability Levels	100%	100,0%
Interoperability Agreements	100%	100,0%
Interoperability Governance	100%	100,0%

NIF/EIF Alignment

Category	EIF Element	Scoring	
		Max	MS
Principles	Subsidiarity and proportionality	2	2
	User-centricity	2	2
	Inclusion and accessibility	2	2
	Security and privacy	2	2
	Multilingualism	2	1
	Administrative simplification	2	2
	Transparency	2	2
	Preservation of information	2	2
	Openness	2	2
	Reusability	2	2
	Technological neutrality and adaptability	2	2
	Effectiveness and efficiency	2	2
	Total	**24**	**23**
Conceptual Model	Does the NIF contain a conceptual model?	2	2
	Is the conceptual model a component-based service model? (e.g. SOA)	2	2
	Does the NIF encourage the use of common schemes to interconnect loosely coupled service components.	2	2
	Does the NIF encourage to put in place the infrastructure to interconnect loosely coupled service components?	2	2
	Does the NIF encourage to make the authentic sources of information available to others?	2	2
	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	2	2
	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	2	2
	Total	**14**	**14**
Interoperability Levels	Does the NIF describe the four levels of interoperability?	2	2
	Does the NIF impose to consider all relevant legislation related to data exchange?	2	2
	Does the NIF describe that the business processes are documented in an agreed way in order for other administrations to understand the overall business process?	2	2
	Does the NIF encourage to agree on how these processes will interact among the different levels of public administrations?	2	2
	Does the NIF encourage public administrations to clarify their organisational relationships as part of the establishment of a (European) public service?	2	2
	Does the NIF encourage public administrations to agree on change management processes to ensure continuous service delivery.	2	2
	Does the NIF encourage the usage of a common taxonomy of basic public service?	2	2
	Does the NIF encourage public administrations to support the establishment of sectorspecific and cross-sectoral communities that aim to facilitate semantic interoperability and that share results on national and European platforms.	2	2
	Does the NIF encourage public administrations to agree on the formalised specification to ensure technical interoperability when establishing European public services.	2	2
	Total	**18**	**18**
Interoperability Agreeme	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - if they do not exist, to cooperate with communities working in the same areas.	2	2
	Does the NIF encourage Public administrations to use a structured, transparent and objective approach to assess and select formalised specifications?	2	2
	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	2	2
	Does the NIF encourages public administrations to lead or actively participate in standardisation work relevant to their needs?	2	2
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?	2	2
	Total	**10**	**10**
Interoperability Governa	A governance framework exists to control the interoperability activities across administrative levels.	2	2
	Total	**2**	**2**

Directorate-General for Informatics (DIGIT)

Category	EIF	MS
Principles	100%	87,5%
Conceptual Model	100%	85,7%
Interoperability Levels	100%	88,9%
Interoperability Agreements	100%	80,0%
Interoperability Governance	100%	100,0%

Category	EIF Element	Scoring	
		Max	MS
Principles	Subsidiarity and proportionality	2	2
	User-centricity	2	2
	Inclusion and accessibility	2	2
	Security and privacy	2	2
	Multilingualism	2	1
	Administrative simplification	2	2
	Transparency	2	1
	Preservation of information	2	1
	Openness	2	2
	Reusability	2	2
	Technological neutrality and adaptability	2	2
	Effectiveness and efficiency	2	2
	Total	**24**	**21**
Conceptual Model	Does the NIF contain a conceptual model?	2	1
	Is the conceptual model a component-based service model? (e.g. SOA)	2	2
	Does the NIF encourage the use of common schemes to interconnect loosely coupled service components.	2	2
	Does the NIF encourage to put in place the infrastructure to interconnect loosely coupled service components?	2	2
	Does the NIF encourage to make the authentic sources of information available to others?	2	2
	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	2	2
	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	2	1
	Total	**14**	**12**
Interoperability Levels	Does the NIF describe the four levels of interoperability?	2	2
	Does the NIF impose to consider all relevant legislation related to data exchange?	2	1
	Does the NIF describe that the business processes are documented in an agreed way in order for other administrations to understand the overall business process?	2	2
	Does the NIF encourage to agree on how these processes will interact among the different levels of public administrations?	2	2
	Does the NIF encourage public administrations to clarify their organisational relationships as part of the establishment of a (European) public service?	2	1
	Does the NIF encourage public administrations to agree on change management processes to ensure continuous service delivery.	2	2
	Does the NIF encourage the usage of a common taxonomy of basic public service?	2	2
	Does the NIF encourage public administrations to support the establishment of sectorspecific and cross-sectoral communities that aim to facilitate semantic interoperability and that share results on national and European platforms.	2	2
	Does the NIF encourage public administrations to agree on the formalised specification to ensure technical interoperability when establishing European public services.	2	2
	Total	**18**	**16**
Interoperability Agreements	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - if they do not exist, to cooperate with communities working in the same areas.	2	1
	Does the NIF encourage Public administrations to use a structured, transparent and objective approach to assess and select formalised specifications?	2	1
	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	2	2
	Does the NIF encourages public administrations to lead or actively participate in standardisation work relevant to their needs?	2	2
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?	2	2
	Total	**10**	**8**
Interoperability Governance	A governance framework exists to control the interoperability activities across administrative levels.	2	2
	Total	**2**	**2**

Category	EIF	MS
Principles	100%	54,2%
Conceptual Model	100%	57,1%
Interoperability Levels	100%	50,0%
Interoperability Agreements	100%	90,0%
Interoperability Governance	100%	100,0%

Category	EIF Element	Scoring	
		Max	MS
Principles	Subsidiarity and proportionality	2	1
	User-centricity	2	1
	Inclusion and accessibility	2	2
	Security and privacy	2	1
	Multilingualism	2	0
	Administrative simplification	2	1
	Transparency	2	1
	Preservation of information	2	1
	Openness	2	1
	Reusability	2	1
	Technological neutrality and adaptability	2	1
	Effectiveness and efficiency	2	2
	Total	**24**	**13**
Conceptual Model	Does the NIF contain a conceptual model?	2	1
	Is the conceptual model a component-based service model? (e.g. SOA)	2	1
	Does the NIF encourage the use of common schemes to interconnect loosely coupled service components.	2	1
	Does the NIF encourage to put in place the infrastructure to interconnect loosely coupled service components?	2	1
	Does the NIF encourage to make the authentic sources of information available to others?	2	1
	Does the NIF encourage access and control mechanisms to ensure compliance to security and privacy legislation?	2	2
	Does the NIF encourage the development of interfaces to authentic sources that are aligned at semantic and technical level?	2	1
	Total	**14**	**8**
Interoperability Levels	Does the NIF describe the four levels of interoperability?	2	1
	Does the NIF impose to consider all relevant legislation related to data exchange?	2	0
	Does the NIF describe that the business processes are documented in an agreed way in order for other administrations to understand the overall business process?	2	1
	Does the NIF encourage to agree on how these processes will interact among the different levels of public administrations?	2	1
	Does the NIF encourage public administrations to clarify their organisational relationships as part of the establishment of a (European) public service?	2	1
	Does the NIF encourage public administrations to agree on change management processes to ensure continuous service delivery.	2	1
	Does the NIF encourage the usage of a common taxonomy of basic public service?	2	1
	Does the NIF encourage public administrations to support the establishment of sectorspecific and cross-sectoral communities that aim to facilitate semantic interoperability and that share results on national and European platforms.	2	1
	Does the NIF encourage public administrations to agree on the formalised specification to ensure technical interoperability when establishing European public services.	2	2
	Total	**18**	**9**
Interoperability Agreeme	Does the NIF encourage: - Interoperability agreements to be based on existing formalised specifications? Or - if they do not exist, to cooperate with communities working in the same areas.	2	2
	Does the NIF encourage Public administrations to use a structured, transparent and objective approach to assess and select formalised specifications?	2	1
	Does the NIF encourage public administrations to prefer open specifications, taking due account of the coverage of functional needs, maturity and market support?	2	2
	Does the NIF encourages public administrations to lead or actively participate in standardisation work relevant to their needs?	2	2
	Does the NIF encourage public administrations to agree on minimum service requirements for secure data exchange?	2	2
	Total	**10**	**9**
Interoperability Governa	A governance framework exists to control the interoperability activities across administrative levels.	2	2
	Total	**2**	**2**