World Bank Study Tour
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Highlights on the State of Play of Interoperability in Europe 2014
2014 edition will be published in the coming weeks.

Clear picture on the state of play of interoperability in Europe.

Identification of areas of progress and main challenges the administrations face when designing and implementing their National Interoperability Frameworks.

A yearly collection exercise by NIFO, the National Interoperability Framework Observatory. NIFO is funded by the ISA programme.
European Interoperability Framework
Main goals

1. Support European public administrations move towards a **digital single market**

2. Establish **common approaches to interoperability** between public administrations that will make collaboration a lot easier and help to provide joint delivery of public services

3. Guide public administrations in their work to **provide European public services to businesses and citizens**

4. **complement and tie together National Interoperability Frameworks (NIF)** of European Member States

   NIF’s are more detailed and often prescriptive whereas EIF operates as a “meta framework"
NIFO analytical models, factsheets on JOINUP.EU

- Compiled, for each MS, from the analysis of the NIF and initiatives via the Analytical Model
- Show the latest available information on the state of play of interoperability in each country

Summary of the NIFs

Other initiatives on interoperability

MS’ main activities on interoperability

NIF-EIF Alignment

# of NIFO factsheets 31
Main findings emerging from the analysis of the NIFs across Europe are presented in the annual State of Play of Interoperability.

Two types of analysis:

- Analysis of the level of NIF-EIF alignment
- Analysis of the level of NIF Implementation & Monitoring

19 countries provided detailed information.
State of Play of Interoperability in EU
Main highlights

There is an overall very good NIF-EIF alignment across countries for 2014
State of Play of Interoperability in EU
Main highlights

There is a very good level of alignment.
State of Play of Interoperability in EU
Main highlights on Implementation

It is essential to establish the monitoring of the activities in order to ensure the effective implementation of the NIFs.

The overall average of NIF Implementation and Monitoring for 2014 is significantly minor than the overall average of NIF-EIF Alignment (72%).
Member States still need to boost their ability to put in place interoperability initiatives in order to better implement their NIF in real by public administrations.
State of Play of Interoperability in EU

Main Technology trends

Service Oriented Architectures - SOA

XML technology and related open technology

Open Data technologies

Cloud

Big Data
### Key Challenges

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<tr>
<th>Economic</th>
<th>Technical</th>
<th>Legal &amp; Political</th>
<th>Organisational</th>
<th>Semantic</th>
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<tbody>
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<td>Reduction on IT public budget &amp; Lack of resources on local public entities</td>
<td>Lack of ‘thinking out-of-the-box’ and introducing innovative technologies</td>
<td>Legislative acts may become outdated in a fast-evolving landscape (IOP)</td>
<td>Country’s size &amp; complexity</td>
<td>Need for skills/competencies improvement for the development of ontologies and taxonomies</td>
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<td>Multiple laws for base registers</td>
<td>Huge effort needed for NIF implementation and monitoring</td>
<td>Multilingualism can be perceived as an obstacle</td>
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State of Play of Interoperability in EU
Best Practices

“State of Play of Interoperability in EU Best Practices

The identification of interoperability best practices is fundamental in order to enable a knowledge-sharing process among MSs, and NIFO plays an important role in this process.

Best practice example:

Lithuanian SIRIP Platform for the delivery of e-services Lithuania implemented the ‘State information resources interoperability platform – Sirip’. The technological interoperability platform offers an easy way for all the public local authorities to design, deliver and manage e-services. The platform permits the development of e-services on a flexible service-oriented architecture (SOA).
State of Play of Interoperability in EU
More information:

Analytical models:
https://joinup.ec.europa.eu/community/nifo/analytical

NIFO factsheets:

Toolbox (EIF, State of play report, best practices):