The PEPPOL project
Pan-European Public Procurement Online
www.peppol.eu

André Hoddevik, Project Director
Agency for Public Management and eGovernment (Norway)
Overall, governments are the largest buyer in the European Union, but they are lagging behind major industries in electronic data exchange with suppliers.

- Government purchases in the European Union account for around 16% of GDP, which is equal to 1,800 Billion Euro.
- Overall capabilities of governments to handle key processes with their suppliers such as tenders, orders, delivery notes, catalogues, invoices, or payments is lagging behind other major industries.
- The lack of common standards for electronic data exchange is considered an obstacle for companies to participate without barriers in public procurement processes.
EU member states have expressed a political will to change public procurement significantly.

The Manchester ministerial declaration of 24 November 2005 defines the target:

“By 2010 all public administrations across Europe will have the capability of carrying out 100% of their procurement electronically and at least 50% of public procurement above the EU public procurement threshold will be carried out electronically.”
The PEPPOL project

The PEPPOL project is the result of the European Competitiveness and Innovation Programme (CIP) ICT Policy Support Programme (ICTPSP) 2007 Call for Proposals

- A Large Scale Pilot focused on Interoperability (Pilot A)
  - Key actors: Member States or national authorised representatives
  - The outcome should be an open, common interoperable solution with results widely disseminated and available to all Member States
  - The EU contribution is up to 50% of costs for achieving interoperability

- Coordinated by the Norwegian Agency for Public Management and eGovernment (Difi)
  - 14 beneficiaries from 8 countries
  - Total budget 19,6 M€
  - 8 work packages, <900 person months and 6,6 M€ on sub-contractors
  - Project start up: 1 May 2008, duration 36 months
The broader vision is that any company (incl. SMEs) in the EU can communicate electronically with any EU governmental institution for all procurement processes.
National solutions will not be replaced, instead they will be aligned with common European standards and then linked through a common interoperability infrastructure.
Consortium and Operational reference Group

- **Consortium**
- **Operational reference group**
- **Regional Nodes**
Project Scope

The project consists of 8 work packages:

1. eSignatures (City of Bremen, Germany)
2. Virtual Company Dossier (University of Koblenz, Germany)
3. eCatalogues (CONSIP, Italy)
4. eOrdering (PEPPOL.AT, Austria)
5. eInvoicing (NITA, Denmark)
6. Consortium Management (DIFI, Norway)
7. Awareness, Training and Consensus Building (PEPPOL.AT, Austria)
8. Solutions architecture, design and validation (NITA, Denmark)
Framework

Pre Award Tendering

Virtual Company Dossier (WP 2)

Post Award Procurement

eCatalogues (WP 3)
eOrdering (WP 4)
eInvoicing (WP 5)

eSignature (WP 1)

Open Infrastructure (WP 8)

Payment
High level project plan

- **Q2/2008 - Q2/2009:** Requirements and design
  - Month 1: Detailed planning
  - Month 2 – 6: Analysis and coordination with other WPs and external projects
  - Month 5 – 12: Design, functional specifications

- **Q2/2009 - Q2/2010:** Implementation

- **Q2/2010 - Q2/2011:** Pilots running

- **2009 Enlargement of PEPPOL through CIP ICTPSP third call for proposal**
  - Additional funding up to **5 M€** of EU contribution
  - Three additional relevant administrations
  - Methodology to encompass all Member States
  - Strengthen long term sustainability plan
  - Additional eProcurement cross border cases

- Proposal deadline 2 June
- Newcomers to be included from November 2009
PEPPOL participation possibilities
The Call for Proposals under the CIP ICTPSP Work Programme is open to legal entities established in the Member States.

Legal entities established in EFTA countries which are members of the European Economic Area (EEA), in accession or candidate countries or countries of the Western Balkan, as well as other third countries, may participate on the basis of and in accordance with the conditions laid down in the relevant agreements.

The Community may allow participation of entities from third countries which are not associated to the Programme (by means of an agreement with the Community) in individual actions on a case-by-case basis.

- Such entities will not receive Community funding.
Specific possibilities – PEPPOL

- Use www.peppol.eu to keep informed on
  - Events and news from the project
  - Work packages and scope of work
  - Deliverables (reports, specifications, software)

- Join the Operational Reference Group
  - Bi-annual meetings
  - Get firsthand information about ongoing work and deliverables in progress
  - Participate as observers in work packages of particular interest

- Join the CEN/ISSS Workshop on Business Interoperability Interfaces in Public Procurement in Europe (CEN/BII)
  - Participate in the development of the future standards for electronic public procurement in Europe
  - The CEN/BII Workshop Agreements (CWA) will be implemented in PEPPOL

- Implement PEPPOL-deliverables into national solutions
  - PEPPOL deliverables are made available under common creative licenses (reports/specifications) and open source software licenses (EUPL or similar)
PEPPOL contact points

Please visit [www.peppol.eu](http://www.peppol.eu). Further information can be obtained from the regional contact points below:

**Denmark, Estonia, Finland, Ireland, Iceland, Lithuania, Latvia, Norway, Sweden, UK**
Please contact:
Ms. Gry HELLEVIK  
Email: gry.hellevik@peppol.no

**Bulgaria, Cyprus, Italy, Greece, Malta, Portugal, Romania, Spain and Turkey**
Please contact:
Mr. Giancarlo DE STEFANO  
Email: giancarlo.destefano@tesoro.it

**Austria, Czech Republic, Hungary, Poland, Slovakia, Slovenia, Switzerland, Western Balkan and outside Europe**
Please contact:
Mr. Peter SONNTAGBAUER  
(Public Relation Director)  
Email: peter.sonntagbauer@brz.gv.at

**Germany, Netherlands**
Please contact:
Ms. Maria A. WIMMER  
Email: wimmer@uni-koblenz.de

**France, Belgium, Luxembourg**
Please contact:
Mr. Alain Ducass  
Email: alain.ducass@adetef.finances.gouv.fr

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Please contact:
Mr. Alain Ducass  
Email: alain.ducass@adetef.finances.gouv.fr
"Public Procurement for the Future"

Dates: 18th, 19th and 20th of May 2009
Venue: Thon Hotel Bristol, Oslo
Key note speakers from the European Commission, BUSINESSEUROPE, Confederation of Norwegian Enterprises and the Norwegian Government
Full programme available
www.peppol.eu/peppol-conference
BORDERLESS E-PROCUREMENT – LET’S MAKE IT HAPPEN!
High level presentation of PEPPOL work packages
Snapshot overview WP 1 eSignature

The following Beneficiaries participate in WP 1:
• Bremen – Work Package Coordinator
• Difi
• CNIPA
• Adetef

WP 1’s current budget is € 2 424 920

WP 1 is allocated 136 Person Months*
• 49 Public Entity Person Months
• 87 Subcontractor Person Months

* Person Month = 150 hours
## Snapshot overview WP 1 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 Transnational verification solution(s) - Prototype Documentation</td>
<td>2010-04-30</td>
<td>2010-04-30</td>
<td>In progress</td>
</tr>
<tr>
<td>1.3 Demonstrator and Revised Specification eSignature-solution for E-Procurement/Trustmodel</td>
<td>2010-10-31</td>
<td>2010-10-31</td>
<td>Not started</td>
</tr>
<tr>
<td>1.4 Pilot report and Recommendations for European Roll-Out</td>
<td>2011-04-30</td>
<td>2011-04-30</td>
<td>Not started</td>
</tr>
</tbody>
</table>
Seven parts:

1. Introduction in the project, it’s scope and environment
2. Description of the PEPPOL WP1 pilot
3. Description of signature policy requirements to enable cross-border interoperability of e-signatures
4. Definition of architecture and trust issues for validation solutions for e-signatures and eIDs
   
   *WP1 specifies validation services and their interfaces. A validation service must be able to assess and return information related to signature policy adherence, which necessitates a richer interface than OCSP or CRL for revocation checking:*

5. XKMS v2 for eID certificate validation
6. OASIS DSS for verification of entire signed documents
7. Specification of a quality profile for digital signatures that can be used to set requirements to and make assessments of the quality of digital signatures in public e-procurement across borders in Europe
Snapshot overview WP 2 Virtual Company Dossier

The following Beneficiaries participate in WP 2:
• UKL – Work Package Coordinator
• PEPPOL.AT
• IC
• Difi
• Adetef

WP 2’s current budget is €2 263 923

WP 2 is allocated 172,2 Person Months*
• 162,7 Public Entity Person Months
• 9,5 Subcontractor Person Months

* Person Month = 150 hours
## Snapshot overview WP 2 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1 Functional and non-functional requirements specification for the VCD, including critical synthesis, comparison and assessment of national vs. pan-European needs - report</td>
<td>2009-01-31</td>
<td>2009-03-16</td>
<td>Completed. Internally Approved.</td>
</tr>
<tr>
<td>2.2 Technical, legal and organisational specification of the VCD, incl. agreement procedure – specification and documentation</td>
<td>2009-10-31</td>
<td>2009-10-31</td>
<td>In progress</td>
</tr>
<tr>
<td>2.3 Implementation and piloting of the VCD – pilot application</td>
<td>2010-10-31</td>
<td>2010-10-31</td>
<td>Not started</td>
</tr>
<tr>
<td>2.4 Rollout master plan including application experience report, implementation, maintenance &amp; expansion guideline, training material for the pan-European VCD specification</td>
<td>2010-10-31</td>
<td>2010-10-31</td>
<td>Not started</td>
</tr>
</tbody>
</table>
Deliverable D2.1 (int. approved)

- VCD concept as a four-stage maturity model

<table>
<thead>
<tr>
<th>Stage 1: Pre-VCD Mapping</th>
<th>VCD structure containing references to services; access data; existing government network to access evidences directly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage 2: VCD Simple Package</td>
<td>VCD structure with machine-readable evidences and a comprehensive set of metadata including e.g. indications of validity of evidences</td>
</tr>
<tr>
<td>Stage 3: VCD Advanced Package</td>
<td>VCD structure with metadata, interoperability and the evidences in pdf, tiff, etc.</td>
</tr>
<tr>
<td>Stage 4: VCD Network Package (from Push to Pull)</td>
<td>Mapping of evidences to national and European level selection and exclusion criteria; Mutual recognition of evidences; Precondition for any VCD package; Key principle: transparency</td>
</tr>
</tbody>
</table>

VCD maturity level (interoperability, transparency, mutual recognition of evidences, Service Automation)
The following Beneficiaries participate in WP 3:

- CONSIP – Work Package Coordinator (Difi)
- MEF (NITA)
- Intercent-ER (Bremen)
- CSI (KSZF)
- PEPPOL.AT (VM)

WP 3’s current budget is € 2 470 216

WP 3 is allocated 167.4 Person Months*
- 132.7 Public Entity Person Months
- 34.8 Subcontractor Person Months

* Person Month = 150 hours
## Snapshot overview WP 3 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 Functional, Technical, legal and organisational specifications for the development of Building Blocks Software enabling cross-border use of eCatalogues</td>
<td>2009-05-31</td>
<td>2009-05-31</td>
<td>In progress</td>
</tr>
<tr>
<td>3.2 Standard eCatalogue format and data structure for pre-award and post-award use (ref. Work of CEN/ISS, WS BII)</td>
<td>2010-04-30</td>
<td>2010-04-30</td>
<td>Not started</td>
</tr>
<tr>
<td>3.3 Building Blocks Software enabling cross-border use of eCatalogues (post-pilot release)</td>
<td>2011-04-30</td>
<td>2011-04-30</td>
<td>Not started</td>
</tr>
<tr>
<td>3.4 Rollout master plan including application experience report, implementation, maintenance &amp; expansion guideline, training material for the pan-European eCatalogues application</td>
<td>2011-04-30</td>
<td>2011-04-30</td>
<td>Not started</td>
</tr>
</tbody>
</table>
Deliverable 3.1 (in progress)

“AS-IS” Activities (Budgeted resources: 15,7 person months)
- Overview of existing studies and initiatives on eCatalogues standardisation
- As-is analysis of existing eCatalogue management systems of WP participants
- Compared study of the legal frameworks in the relevant countries
- Study of eProcurement systems’ features in countries not taking part to the pilot

“TO-BE” Activities (Budgeted resources: 37,8 person months)
- Design of use-case scenarios
- Preliminary study of possible solutions to enable interoperability
- Study of existing eProcurement market solutions
- "Quick Win" on eCatalogues
- Drafting of Functional specifications
- Drafting of Tender documentation
- Software Provider selection
- Study of possible evolution towards dynamic purchasing system

“Support” Activities (Budgeted resources: 16,4 person months)
- Interaction with other work packages
- Communication activities (to SMEs, SMEs associations, PAs, other MSs)
- General coordination for the eCatalogue Work package
The following Beneficiaries participate in WP 4:

- PEPPOL.AT – Work Package Coordinator
- DIFI
- UKL
- CONSIP

WP 4’s current budget is € 2 469 884

WP 4 is allocated 171,6 Person Months*

- 131,1 Public Entity Person Months
- 40,5 Subcontractor Person Months

* Person Month = 150 hours
# Snapshot overview WP 4 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1 Standard Basic eOrdering format and data structure</td>
<td>2009-04-30</td>
<td>2009-04-30</td>
<td>In progress</td>
</tr>
<tr>
<td>4.2 Functional specifications for the development of Building Blocks Software enabling cross-border use of eOrdering</td>
<td>2009-10-31</td>
<td>2009-10-31</td>
<td>Not started</td>
</tr>
<tr>
<td>4.3 Building Blocks Software enabling cross-border use of eOrdering</td>
<td>2010-04-30</td>
<td>2010-04-30</td>
<td>Not started</td>
</tr>
</tbody>
</table>
Deliverable D4.1 (in progress)

- Mind map of deliverable outline
The following Beneficiaries participate in WP 5:
• NITA – Work Package Coordinator
• VM
• PEPPOL.AT

WP 5’s current budget is estimated at €1,400,287

WP 5 is allocated 90.5 Person Months*
• 75.5 Public Entity Person Months
• 15 Subcontractor Person Months

* Person Month = 150 hours
## Snapshot overview WP 5 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1 Methodologies, measures and indicators for test and evaluation. (With WP 3 and WP 4)</td>
<td>2008-10-31</td>
<td>2009-10-31</td>
<td>Reported delayed – In progress</td>
</tr>
<tr>
<td>5.2 eInvoicing specification</td>
<td>2009-04-30</td>
<td>2009-04-30</td>
<td>In progress</td>
</tr>
<tr>
<td>5.3 eInvoicing software components</td>
<td>2009-10-31</td>
<td>2009-10-31</td>
<td>In progress</td>
</tr>
<tr>
<td>5.4 eInvoicing framework technical specification</td>
<td>2009-12-31</td>
<td>2009-12-31</td>
<td>Not started</td>
</tr>
<tr>
<td>5.5 eInvoicing framework software components</td>
<td>2010-04-30</td>
<td>2010-04-30</td>
<td>Not started</td>
</tr>
<tr>
<td>5.6 eInvoicing framework pilot and evaluation report</td>
<td>2011-04-30</td>
<td>2011-04-30</td>
<td>Not started</td>
</tr>
</tbody>
</table>
WP5 approach

The work package is divided into 3 stages (each stage consisting of Design, Construction and Operational activities):

• Stage 1 - Proof-of-Concept (PoC)
  – Solve semantically interoperability issues, with minimal focus on technical and organizational issues
  – The aim is to create a foundation for further development by building and testing a PoC

• Stage 2 - Pilot
  – Solve semantically (and some organizational) interoperability issues, with minimal focus on technical issues
  – Analyse, implement and pilot eInvoicing for an expanded the number of awarding entities.
  – Analyse, implement and pilot integrated simple eOrdering and simple eInvoicing

• Stage 3 - Framework
  – Support the development of the European eInvoicing Framework (created by European eInvocing Expert group) by piloting (part of) the framework

• The WP 5 is cooperating with the European Commission e-Invoicing and e-Ordering project for public procurement and follows its solutions and recommendations
• The WP 5 will use the specifications from CEN ISSS WS/BII
• The WP 5 will contribute to and use the European eInvoicing Framework
Snapshot overview WP 6

Project Management

The following Beneficiaries participate in WP 6:
• DIFI – Work Package Coordinator
• All beneficiaries

WP 6’s current budget is € 3 176 259º

WP 6 is allocated 116,8 Person Months*
• 75 Public Entity Person Months
• 41,8 Subcontractor Person Months

º includes budget set aside for newcomers

* Person Month = 150 hours
## Snapshot overview WP 6 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1 1\textsuperscript{st} Quarterly report to EU commission</td>
<td>2008-07-31</td>
<td>2008-09-30</td>
<td>Completed</td>
</tr>
<tr>
<td>6.2 2\textsuperscript{nd} Quarterly report to EU commission</td>
<td>2008-10-31</td>
<td>2008-12-31</td>
<td>Completed</td>
</tr>
<tr>
<td>6.3 3\textsuperscript{rd} Quarterly report to EU commission</td>
<td>2009-01-31</td>
<td>2009-04-03</td>
<td>Completed</td>
</tr>
<tr>
<td>6.4 1\textsuperscript{st} Annual report to EU commission</td>
<td>2009-04-30</td>
<td>2009-06-30</td>
<td>In progress</td>
</tr>
<tr>
<td>6.5 4\textsuperscript{th} Quarterly report to EU commission</td>
<td>2009-07-31</td>
<td>2009-09-30</td>
<td>Not started</td>
</tr>
<tr>
<td>6.6 5\textsuperscript{th} Quarterly report to EU commission</td>
<td>2009-10-31</td>
<td>2009-12-31</td>
<td>Not started</td>
</tr>
<tr>
<td>6.7 6\textsuperscript{th} Quarterly report to EU commission</td>
<td>2010-01-31</td>
<td>2010-03-31</td>
<td>Not started</td>
</tr>
<tr>
<td>6.8 2\textsuperscript{nd} Annual report to EU Commission</td>
<td>2010-04-30</td>
<td>2010-06-30</td>
<td>Not started</td>
</tr>
<tr>
<td>6.9 7\textsuperscript{th} Quarterly report to EU commission</td>
<td>2010-07-31</td>
<td>2010-09-30</td>
<td>Not started</td>
</tr>
<tr>
<td>6.10 8\textsuperscript{th} Quarterly report to EU commission</td>
<td>2010-10-31</td>
<td>2010-12-31</td>
<td>Not started</td>
</tr>
<tr>
<td>6.11 9\textsuperscript{th} Quarterly report to EU commission</td>
<td>2011-01-31</td>
<td>2011-03-31</td>
<td>Not started</td>
</tr>
<tr>
<td>6.12 Final report and 3\textsuperscript{rd} Annual report to EU Commission</td>
<td>2011-04-30</td>
<td>2011-06-30</td>
<td>Not started</td>
</tr>
</tbody>
</table>
WP6 approach

Level 1
Governance principles
- Strategy, Vision and values; ethics and Code of Conduct
- Policies and directives

Level 2
Steering processes
- Project management
- Risk management
- Budgeting and finance

Level 3
Transaction processes
- Accounting
- Outgoing and incoming invoices
- Procurement
- Salary, travel and remuneration
- Bank and finance transactions

Level 4
Process execution guidelines
- Reporting
  - Timesheet reporting
  - Expense submittal
  - Invoicing

Document Level
- Grant Agreement
- EU and National legislation
- Consortium Agreement
- Project handbook
- Process descriptions
- Appendices template
- Policy and Instructions
- Guidelines
- Forms and templates

Self servicing system
**Snapshot overview WP 7 Awareness, Training & Consensus building**

The following Beneficiaries participate in WP 7:
- PEPPOL.AT – Work Package Coordinator
- All beneficiaries

<table>
<thead>
<tr>
<th>WP 7’s current budget is € 2 513 698</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP 7 is allocated 124,1 Person Months*</td>
</tr>
<tr>
<td>- 118,9 Public Entity Person Months</td>
</tr>
<tr>
<td>- 5,2 Subcontractor Person Months</td>
</tr>
</tbody>
</table>

* Person Month = 150 hours
### Snapshot overview WP 7 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 Basic dissemination material and plans consisting of dissemination action plan, initial database of contacts, dissemination material for campaign I, project website</td>
<td>2009-04-30</td>
<td>2009-04-30</td>
<td>In progress</td>
</tr>
<tr>
<td>7.2 Non consortium member state report</td>
<td>2009-04-30</td>
<td>2009-04-30</td>
<td>In progress</td>
</tr>
<tr>
<td>7.3 Dissemination material information campaign 2</td>
<td>2009-09-30</td>
<td>2009-09-30</td>
<td>In progress</td>
</tr>
<tr>
<td>7.4 Report and evaluation campaign I</td>
<td>2009-10-31</td>
<td>2009-10-31</td>
<td>Not started</td>
</tr>
<tr>
<td>7.5 Report and evaluation campaign II</td>
<td>2011-02-28</td>
<td>2011-02-28</td>
<td>Not started</td>
</tr>
</tbody>
</table>
Snapshot overview WP 8

Architecture

The following Beneficiaries participate in WP 8:

• NITA – Work Package Coordinator
• All remaining beneficiaries

WP 8’s current budget is €2 880 813

WP 8 is allocated 262,4 Person Months*

• 155,8 Public Entity Person Months
• 106,6 Subcontractor Person Months

* Person Month = 150 hours
## Snapshot overview WP 8 Deliverables

<table>
<thead>
<tr>
<th>Deliverable Code &amp; Name</th>
<th>Planned delivery date</th>
<th>Actual delivery date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.1 Beta version of services</td>
<td>2009-04-30</td>
<td>2009-04-30</td>
<td>In progress</td>
</tr>
<tr>
<td>8.2 Demo version (Golden Master) of the technical interoperability layer completed</td>
<td>2009-12-31</td>
<td>2009-12-31</td>
<td>Not started</td>
</tr>
<tr>
<td>8.3 Final infrastructure report and recommendations for European Roll-Out</td>
<td>2011-03-31</td>
<td>2011-03-31</td>
<td>Not started</td>
</tr>
</tbody>
</table>
BORDERLESS E-PROCUREMENT – LET’S MAKE IT HAPPEN!