



erasmus  
without paper

# The Erasmus without Paper Project

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# Context and problem area

- ◆ Student mobility an established practice in Europe
- ◆ Erasmus+ is now going global
- ◆ Large amounts of student data need to be exchanged in the process
- ◆ Even though most of it is stored electronically, the exchange of data is still largely paper-based
- ◆ Room for improvement when it comes to correct application of ECTS Users' Guide guidelines

# The EWP solution

- ◆ Create a network that will enable data repositories in whatever form to communicate with each other
  - ◆ Security: authentication of servers and users
  - ◆ User identification and electronic signatures
- ◆ Exchange structured data, not primarily documents (e.g. scans)
- ◆ Keep the data where they are, but make them accessible in a simple, reliable and secure way
- ◆ Align with global developments (Groningen Declaration)

# EWP Project goals

- ◆ Create pilot for an integrated communication network supporting exchange of student data<sup>1</sup> in an electronic form
- ◆ Build pilot connectors that will allow data repositories to exchange data over the EWP Network

<sup>1</sup>data, not documents (eg. scanned copies), which can be processed automatically, stored in databases, used to create documents

# EWP connector in practice - 1

```
<hei>
  <hei-id>ugent.be</hei-id>
  <other-id type="erasmus">B GENT01</other-id>
  <other-id type="pic">999986096</other-id>
  <other-id type="UGentcode">UGENT</other-id>
  <name xml:lang="en">Ghent University</name>
  <name xml:lang="nl">Universiteit Gent</name>
  <abbreviation>UGent</abbreviation>
  <ns2:mailing-address>
    <ns2:buildingNumber>25</ns2:buildingNumber>
    <ns2:streetName>Sint-Pietersnieuwstraat</ns2:streetName>
    <ns2:postalCode>9000</ns2:postalCode>
    <ns2:locality>Ghent</ns2:locality>
    <ns2:region>Oost-Vlaanderen</ns2:region>
    <ns2:country>be</ns2:country>
  </ns2:mailing-address>
  <website-url>http://www.ugent.be</website-url>
```

# EWP connector in practice - 2

## Data from EWP

SCHAC code: ugent.be  
Name in national language:\* Universiteit Gent (nl)  
Name in English: Ghent University  
Participant Identity Code: 999986096  
ERASMUS code: B GENT01  
Factsheet:  
  
WWW: <http://www.ugent.be>  
  
Logo:  
UGentcode: UGENT

## Correspondence address

Country: be  
Foreign code: 9000  
City/village: Ghent  
Street: Sint-Pietersnieuwstraat  
House number: 25  
Address type:\*

## Data in USOS

ugent.be  
↪ ↻  x  
↪ ↻   
↪ ↻   
↪ ↻   
  
Bytes remaining:2000  
↪ ↻   
Characters remaining:81

Not stored in USOS

Belgia  x  
↪ ↻   
↪ ↻   
↪ ↻   
↪ ↻

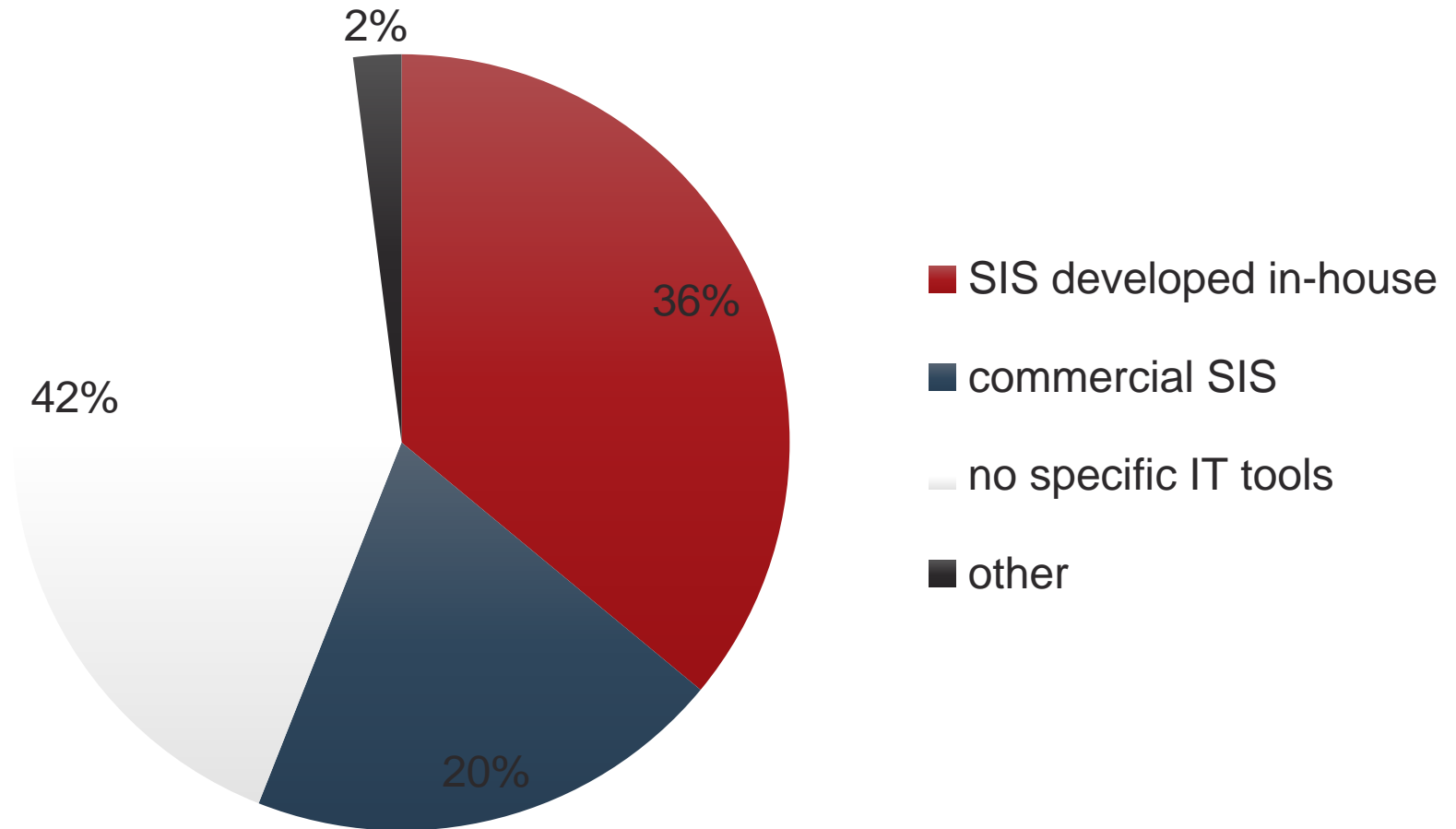
# What processes are we talking about?

- ◆ Interinstitutional agreements between HEIs
- ◆ Range of student data exchange processes:
  - ◆ Key data of HEIs
  - ◆ Nominations
  - ◆ Agreeing on Learning agreements (link with course catalogues)
  - ◆ Host Transcripts of Records
  - ◆ Home Transcripts of Records (including grade conversion)
  - ◆ Arrival/Departure certificates etc ...

New services can be added at any time

- ◆ Reporting Erasmus+ student data (Mobility Tool+)

# Where are the data?





# Main tasks - 1

- ◆ Describe all possible user scenarios in mobility. A desk-research report has been [published](#) on the issues involved, including the results of a large questionnaire
- ◆ Create common data models and appropriate document formats for the structured data that is exchanged
- ◆ Define the necessary transport protocols and standards
- ◆ Take care of identity management: create a register to handle users

## Main tasks - 2

- ◆ Look into security and privacy issues
- ◆ Build connectors (sets of APIs) that allow all data handling software to send and receive data over the network with minimum effort
- ◆ Include extra services to increase performance (e.g. grade conversion tool Egracons, integration of other services...)
- ◆ Look for synergies and collaboration
- ◆ Open source, interoperability
- ◆ Look into how to provide electronic signatures

# EWP for you

- ◆ It's free
- ◆ If you use commercial or consortium-built software, you will have access to all services.
- ◆ If you have your own house-built software you will have to implement the APIs yourself and integrate them in your software (EWP can provide examples and help)
- ◆ If you have no software (smaller HEIs), you can use a 'light' commercial software version (free)

# More information

- ◆ EWP website: [www.erasmuswithoutpaper.eu](http://www.erasmuswithoutpaper.eu)
- ◆ GitHub: [github.com/erasmus-without-paper](https://github.com/erasmus-without-paper)
- ◆ EWP for developers:  
[developers.erasmuswithoutpaper.eu](http://developers.erasmuswithoutpaper.eu)

Register for EWP Newsletter to keep in touch!  
[www.Erasmuswithoutpaper.eu](http://www.Erasmuswithoutpaper.eu)



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# What's next: EWP 2.0 (?)

- ◆ EWP Network
- ◆ EWP competence center
  - ◆ Support change of culture and processes
  - ◆ Outreach and dissemination
- ◆ EWP Hub
  - ◆ Single point of entry for HEIs looking to benefit from
  - ◆ Open source repository

# 2019 vision

- ◆ + 700 HEIs connected to the EWP Network/Hub
- ◆ And many more getting ready to do the same
- ◆ Anticipating a thoroughly modern new architecture for the forthcoming Erasmus+ programme

# Who is involved?

- ◆ Higher Education Institutions (HEIs)
- ◆ (Semi-)public (I)SIS consortia
- ◆ Commercial (I)SIS vendors
- ◆ European Higher Education Networks
- ◆ Student Organisations
- ◆ National data repositories
- ◆ Groningen Declaration affiliated organisations
- ◆ Related projects e.g. EMREX

## Consortium partners



## Associate partners







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**Thank you!**  
... and stay tuned ...



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