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Delivering 3 in One Stroke

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Supporting student mobility, Automatic recognition and Learning mobility statistics

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EMREX

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Field trial on the impact of enabling easy mobility on recognition of external studies

EMREX prehistory

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- Collaboration between some of the nordic countries (Finland, Sweden, Norway and Denmark) began in 2006.

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Nordic glossary and Nordic hub

Term	Term (MLO/ELM)	EN translation/ description	N	DK	SV SE	FIN
Combination rule ("Rule")		Rule governing what is allowed or accepted regarding combination of learning opportunities taken by a learner. Example module A can only be taken after successful completion of module B, and must be studied in conjuction with module C.	Forkunnskapskrav Krav til utdanningsplan (emnekombinasjon)	Regel	Förkunskapskrav, behörighetsvillkor	Rakenteen säännöt (kuten, sisältyvyydet, edeltävyydet, edeltävät opinnot)
Cost	Cost	MLO: A cost associated with obtaining access to the learning opportunity (instance)	Kostnad	Pris?	Kostnad	Opetuksen osallistumismaksu
Course	Learning opportunity object: course	Formally specified education or training process in the form of a course	Emne	Undervisningsaktivitet	Kurs	Opintojakso
Course	Learning Opportunity Object: Course	Learning opportunity object that awards credits.				
Course instance	Learning opportunity instance: course	LO offered to students restricted to time, place, pace and form	Undervisnings-enhet, Undervisnings-aktivitet	Lektion?	Kurstillfälle	Opintojakson toteutus
Credit	Credit	Credit, a measure of the extent of the learner action according to a framwork like ECTS.	Studiepoeng (=ECTS)	Belastning	Poäng (ECTS = högskolepoäng)	Opintopiste

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EMREX Partners

CSC

a cineca company

Ladok

Uddannelses- og
Forskningsministeriet

UMEÅ UNIVERSITET

Swedish Council for
Higher Education

UNIWERSYTET WARSZAWSKI

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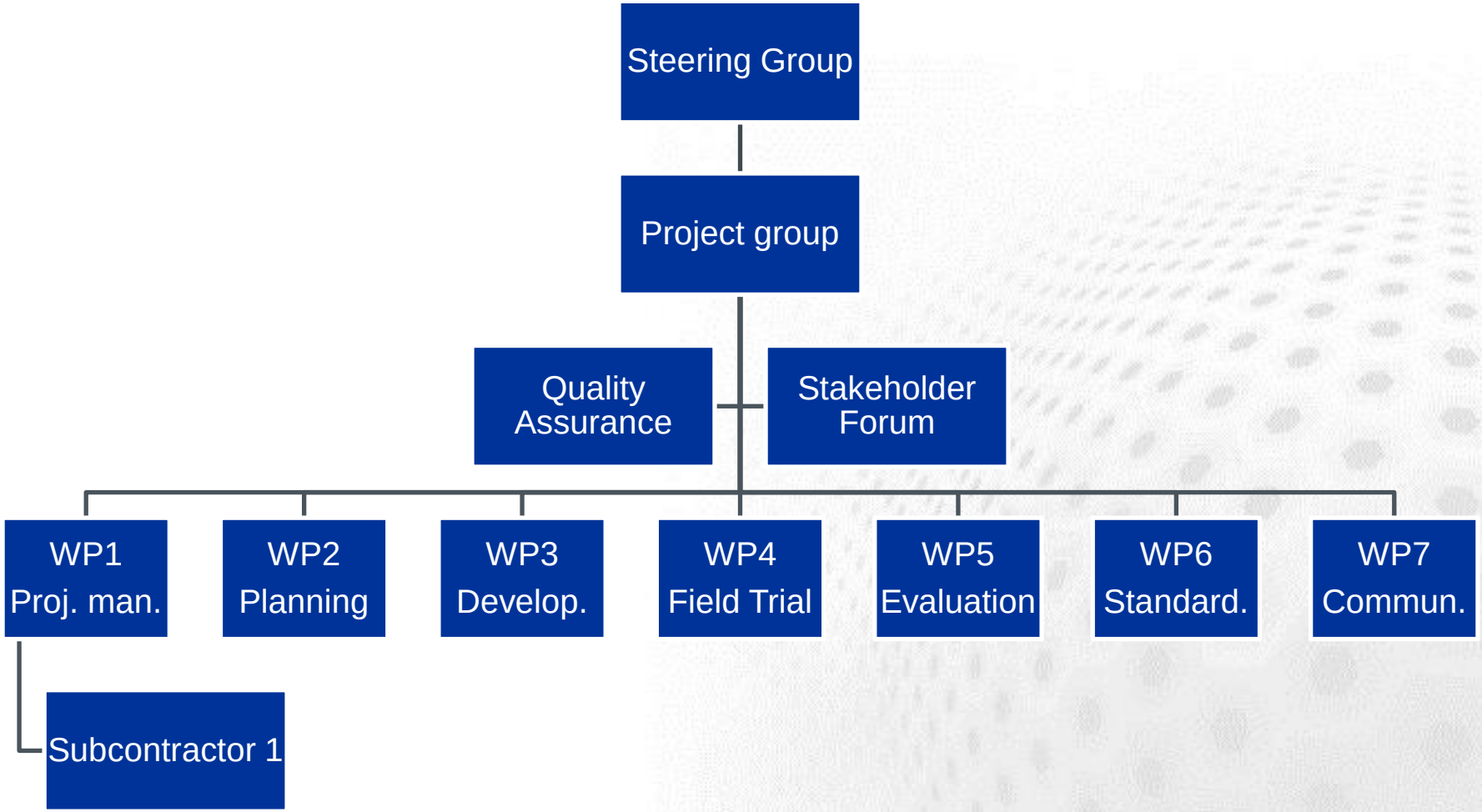
Organisation



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EU-funded project – Figures

- Total costs estimated at 1,9 million Euros
- 75% funded by the EU's Erasmus+ program, key action 3: Support for policy reform – Prospective initiatives

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Timeline

Planning
Specification
Developing

Field Trial
Surveys

Evaluation
Upscaling
Production

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EMREX Field Trial

Four nordic countries and Italy – University of Warsaw as evaluator:

- Working solution, tested with real students
- Can easily be scaled-up after project
- To promote higher attainment level to student mobility in higher education
- To test new ways to enable easier administration of student mobility

EMREX Field Trial Network

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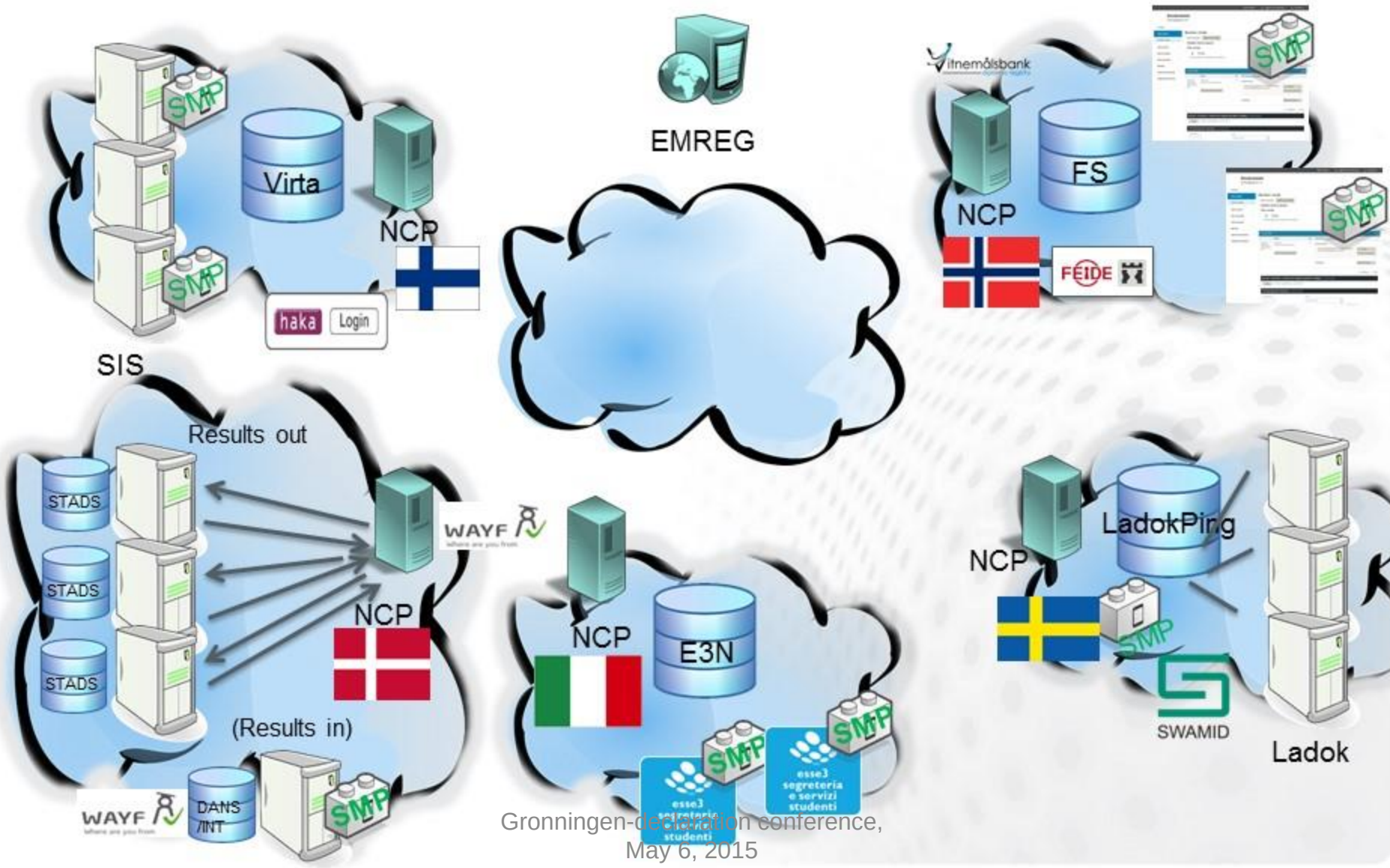

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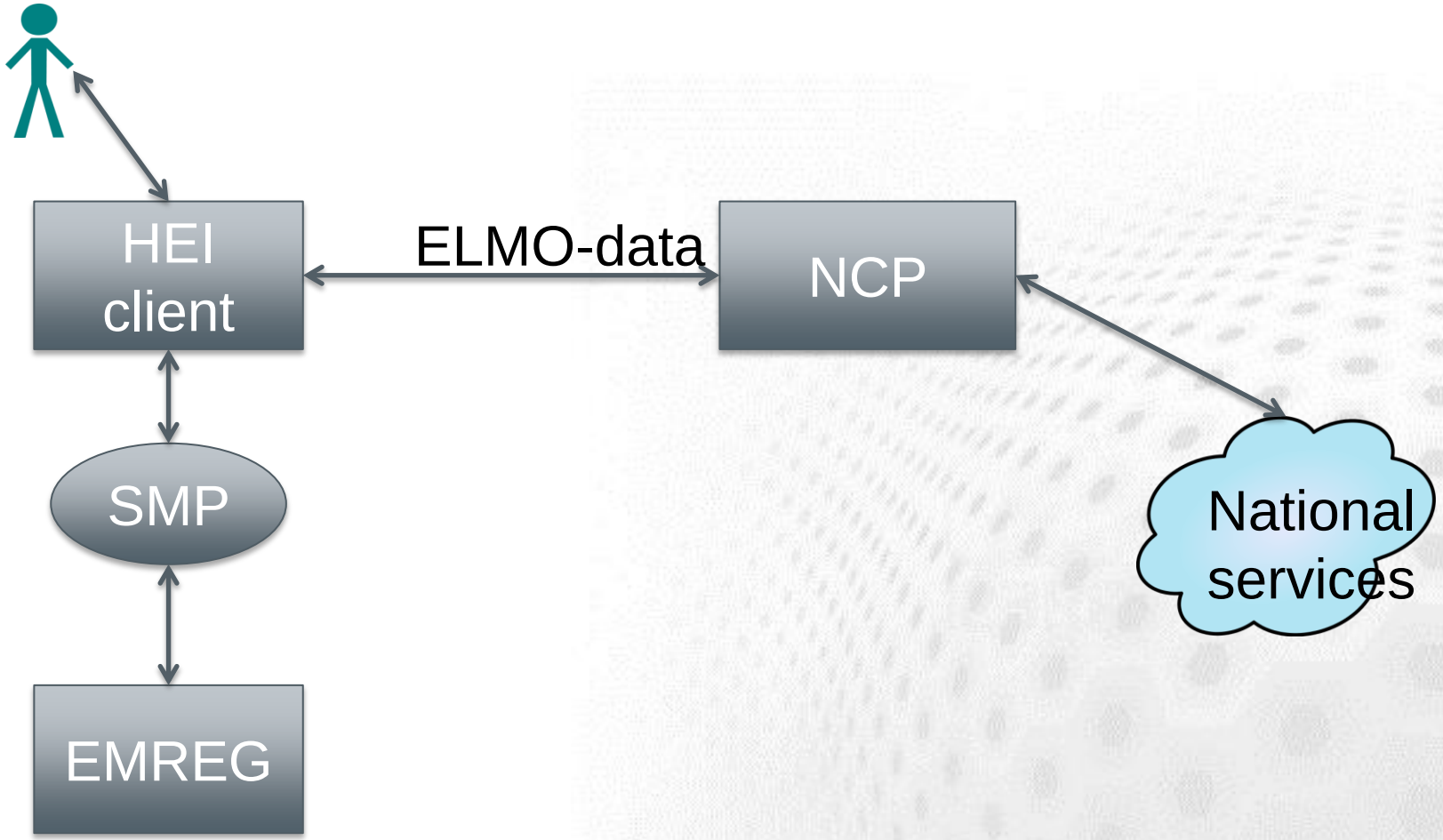
Technical components



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HEI client

- Initiates the EMREX transfer for the student
- Must implemet secure login
- Provide a way to store fetched results in local SIS

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SMP – Student mobility plugin

- Used by the HEI client to ensure that the transfer is standardized
- A library of helpful functions

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NCP – National contact point

- Entry point for the EMREX network to that countrys data
- Must contain functionality for secure login, result-fetching and transfer

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EMREG

- Only central component
- Registry of available NCPs with metadata
- Exposed through web services
- Currently hosted in Norway

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Standards – ELMO

- EMREX uses the ELMO XML format to exchange data
- Metadata for learner opportunities (MLO-AD)
- Earopean Learner Mobility – Achievment Information (EuroLMAI)

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Security

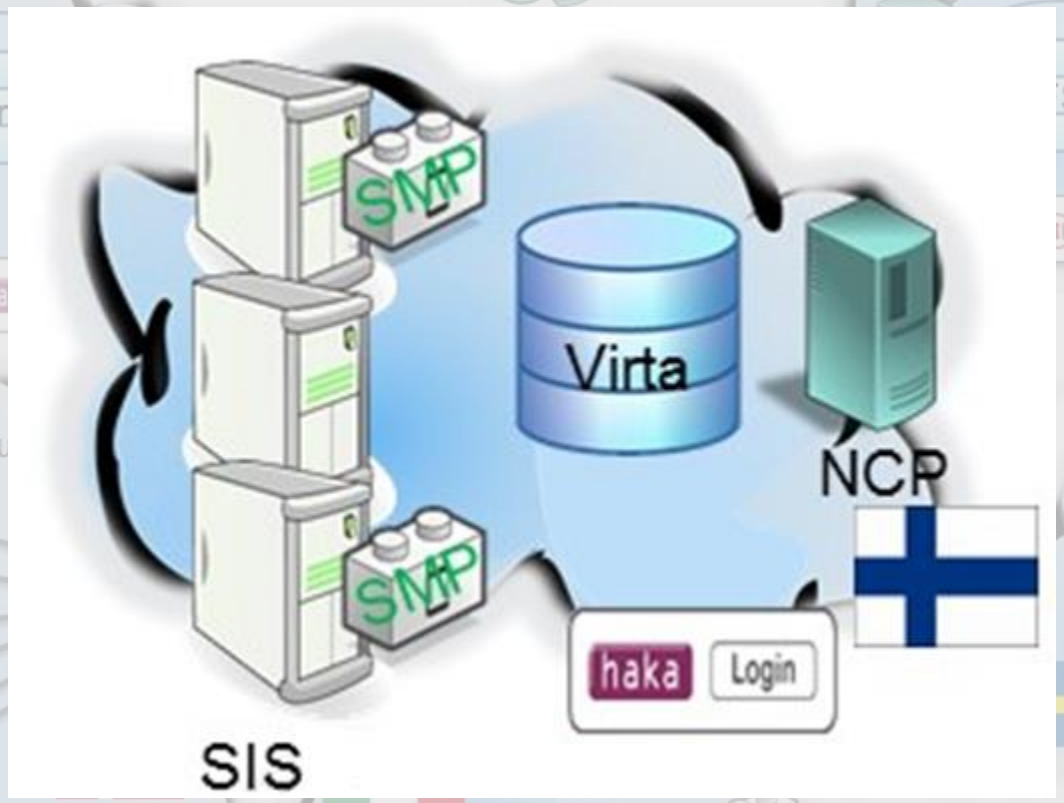
- Login at both client and NCP
- Enforce HTTPS
- Sign ELMO data. Public key in EMREG
- Validate student

Wireframe mock-ups

Not supported by IE

https://moqups.com/lundin.goran@gmail.com/2sWGyfXn/p:a2fa73ae2

Field Trial Network - Finland



Field Trial Network - Denmark

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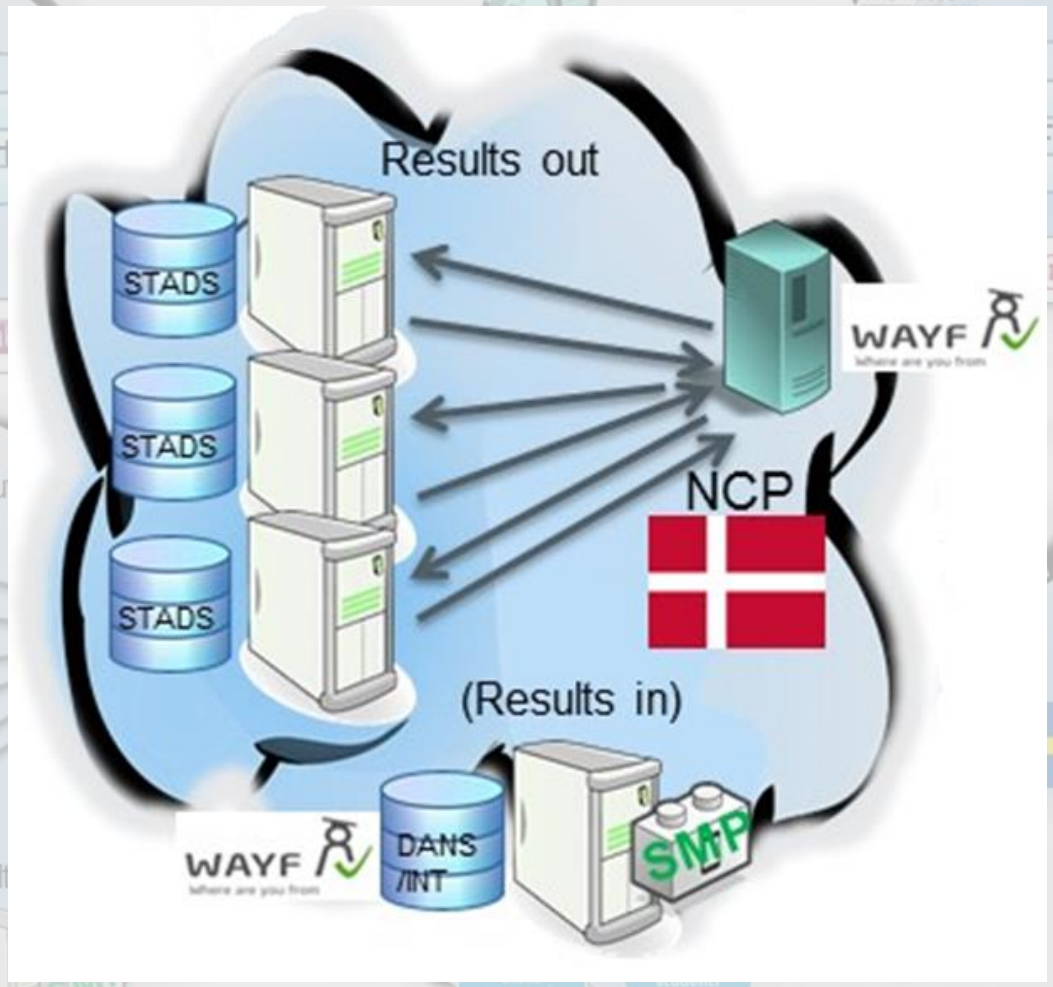

Field Trial Network - Norway

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Field Trial Network - Sweden

Field Trial Network - Italy

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Upscaling

- Peer-to-peer communication, so no bottlenecks
- EMREX provides examples of clients and NCPs
- Some local implementation required

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Future organisation?

- New steering group to be set down in the end of the project.

Delivering 3 in one stroke
Supporting student mobility

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- EMREX will be based on common procedures
- EMREX will simplify the exchange of results by making it:
  - Easier
  - Faster
  - Authenticated
  - Secure
  - Initiated by the student

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Automatic recognition

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Conditions that have to be fulfilled:

- Information about the student must be brought in to the system where it shall be handled
- Information in the form of data
- Standard formats to be used
- Standardized information
- All parties must agree on this information

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Learning mobility statistics

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- EMREX can provide quality data about the students assessments
- Prevention of doublecounting
- Result:
  - Extended degree of knowledge about recognition practises in EMREX-countries
  - More focus on the need of quality assurance for the proces of recognition
  - Transparency will lead to more uniform processes
  - Equal treatment of the recognition cases

Information and contact

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