



**June 6th, 2017
ESC Conference of dissemination
Münster, Germany**

Mats Lindstedt - CSC - IT Services for Science



ERASMUS+

EMREX

6.6.2017



Uddannelses- og
Forskningsministeriet



Swedish Council for
Higher Education



6.6.2017
Mats Lindstedt

Facts about the project



- EU Erasmus+ project (2015-2017)
- Ministry level initiative
- Increase student mobility (20%)
- Recognition of previous studies
- Electronic and secure transfer of student data between HEIs
- Field trial and evaluation of impact
- Denmark, Finland, Italy, Norway, Poland, Sweden



EMREX webpage at
www.emrex.eu



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[News](#) [How to Join](#) [Field Trial](#) [Events](#) [About](#) [Contact](#)

SUPPORTING STUDENT MOBILITY

EMREX IS THE SOLUTION FOR ELECTRONIC TRANSFER OF STUDENT RECORDS BETWEEN HIGHER EDUCATION INSTITUTIONS IN EU

[EMREX VIDEO](#)

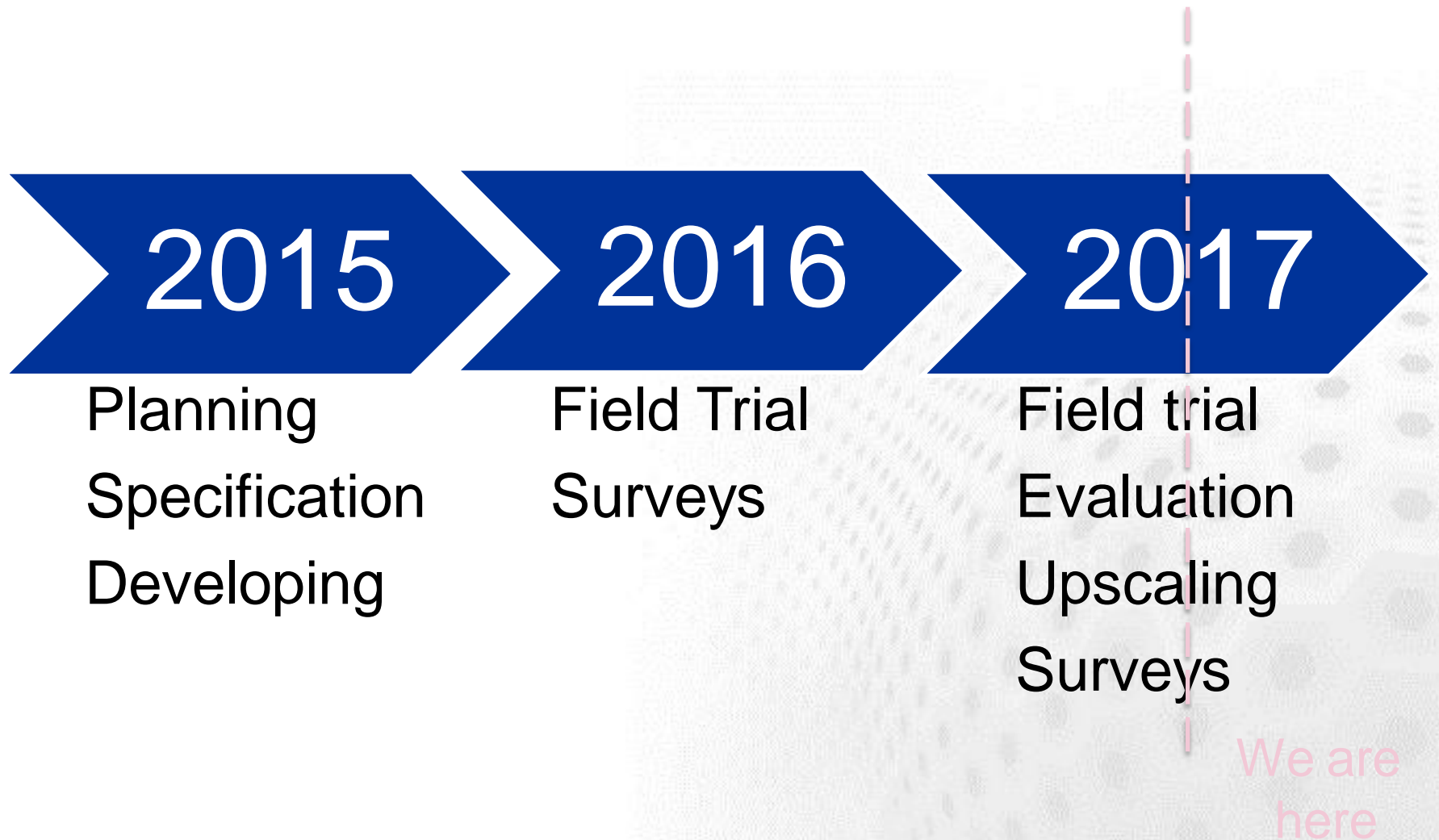
[STUDENTS REACT TO EMREX](#)

[STUDENTS REACT TO EMREX-EXTENDED](#)



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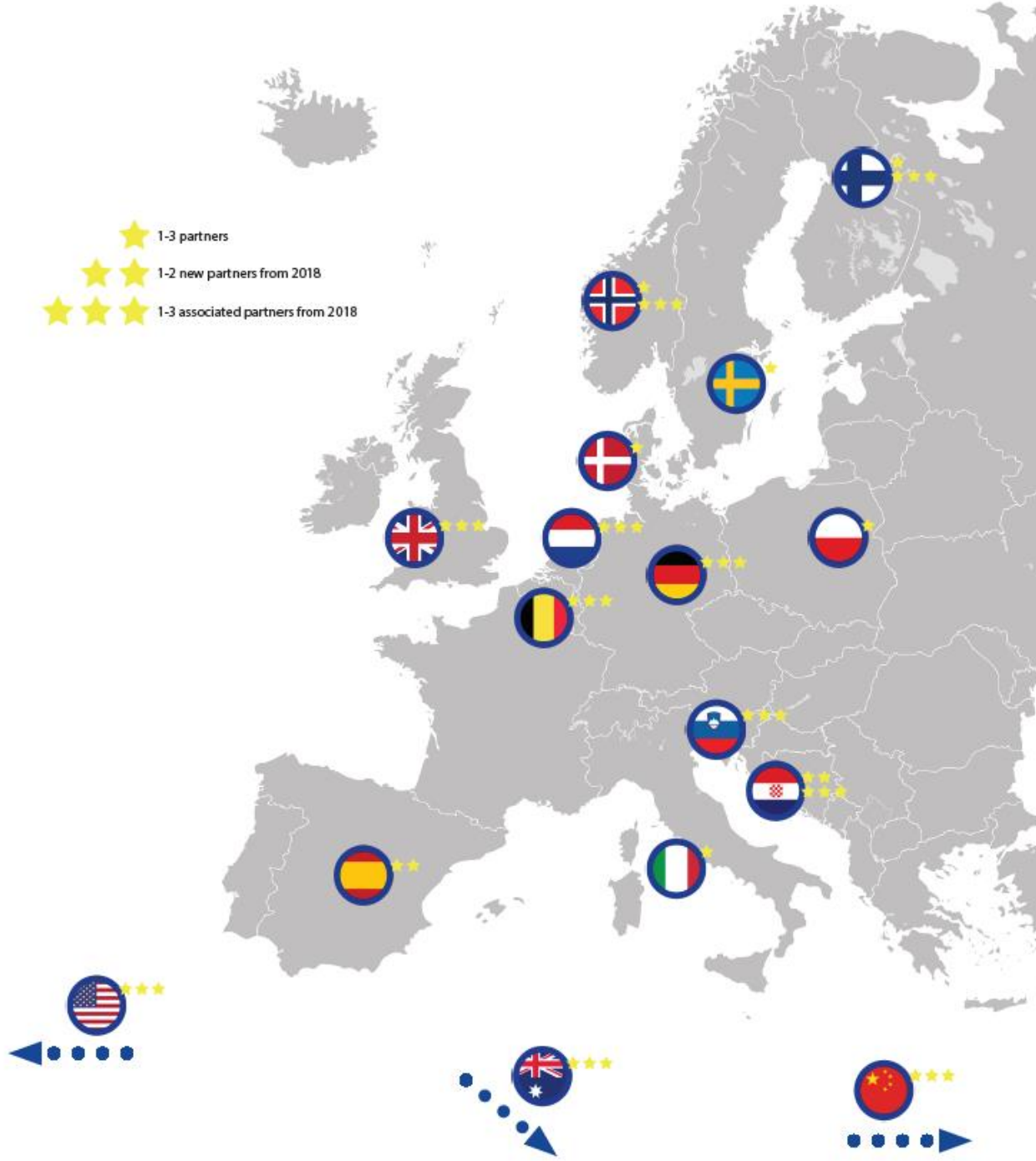
Timeline for first phase





EMREX NETWORK today

- ★ 1-3 partners
- ★★ 1-2 new partners from 2018
- ★★★ 1-3 associated partners from 2018





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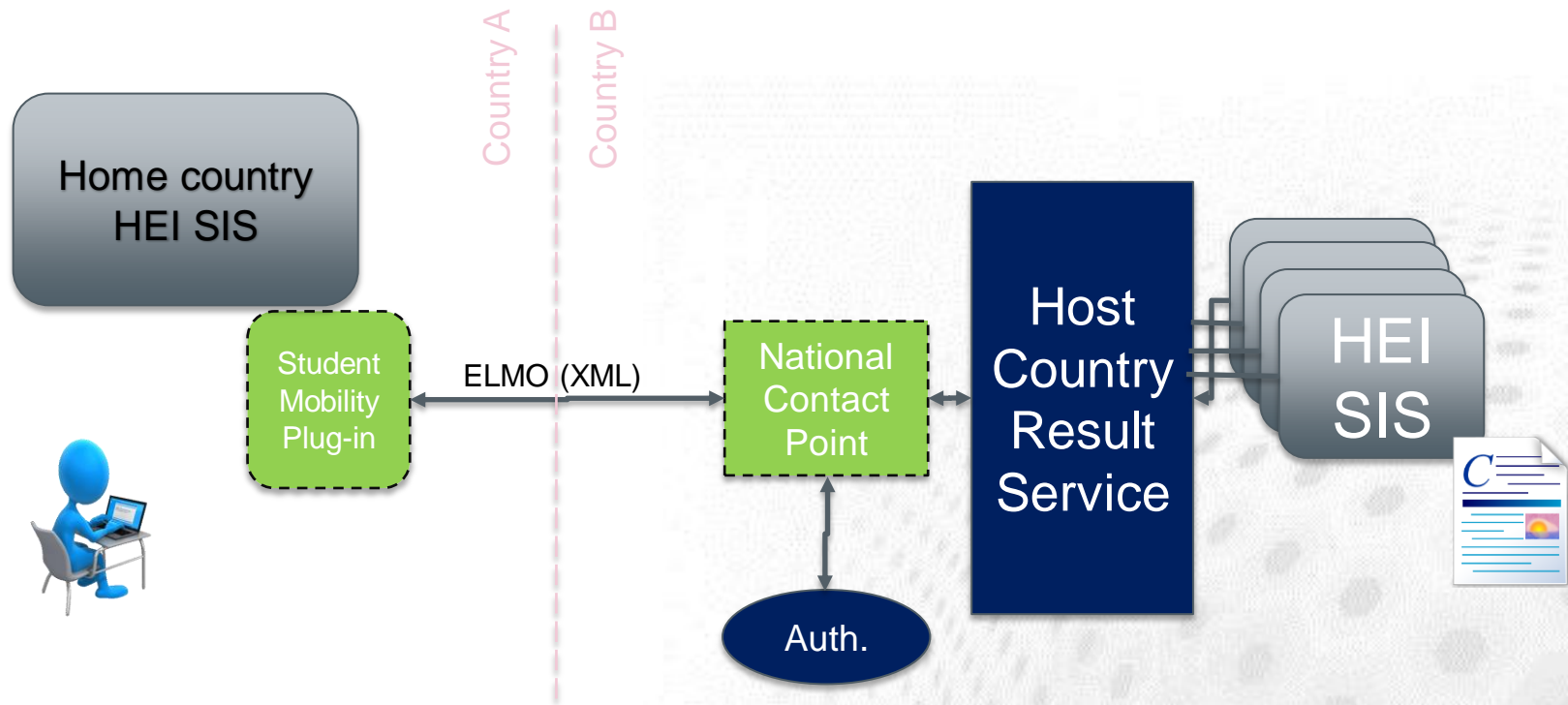
Field trial results so far

- Finland, Italy, Norway, Sweden, Denmark in production (Poland, Netherlands)
- Not that much exchange between Nordic countries, e.g. in Finland 50-70 students contacted
- Usage so far in field trial:

Country	HEIs	Students
Denmark	0	0
Finland	9	45
Italy	1	(5)
Norway	15	100
Sweden	8(13)	12(70)

Poland starting summer 2017, in Norway also recruitment (+1.300) and sharing of results (+5.000 people)

Supporting student mobility



Student returning home can retrieve his achievement data electronically



Demo



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Windows taskbar: TechSmith Relay Recorder (Self-Hosted) — agni... | 103.61 GB free

Browser tabs: UNINETT eCampus Support » ... | TechSmith Relay (Self-Hosted) | Studentweb

Browser address bar: Studentweb

Language: Norsk bokmål

Bytt bruker

Pålogging via Feide

FEIDE Feide - Felles Elektronisk IDEntitet - er Kunnskapsdepartementets valgte løsning for sikker identifisering i utdanningssektoren
[Pålogging via Feide](#)

FEIDE Brukere fra norske universiteter og høyskoler

Fødselsnummer og PIN

Login via ID-porten med MinID, BankID, Buypass eller Commfides

[Velg en annen utdanningsinstitusjon enn Utviklingsbase for FS](#)

Windows taskbar: 21:07 31.08.2016



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Next steps for EMREX

- EMREX+ proposal and/or EMREX usergroup
 - Admission services
 - Credential evaluation
 - Recruitment systems
 - Elmo: 2nd level, diploma supplements, informal
 - ESC, EWP, OLA, eID, etc
- New countries
 - DUO Netherlands, SIGMA Spain, Croatia
 - VTAC, Digitary, Australia
 - PESCC, USA



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Identifying students

- A mobile student has two (or more) different IDs
 - Home ID, with username password
 - Host ID, with different username
- Depending on country also different student number, national social security number, etc
- Currently only matching name+birthday, or manual check
- eID to the rescue?
- How could ESC be used?



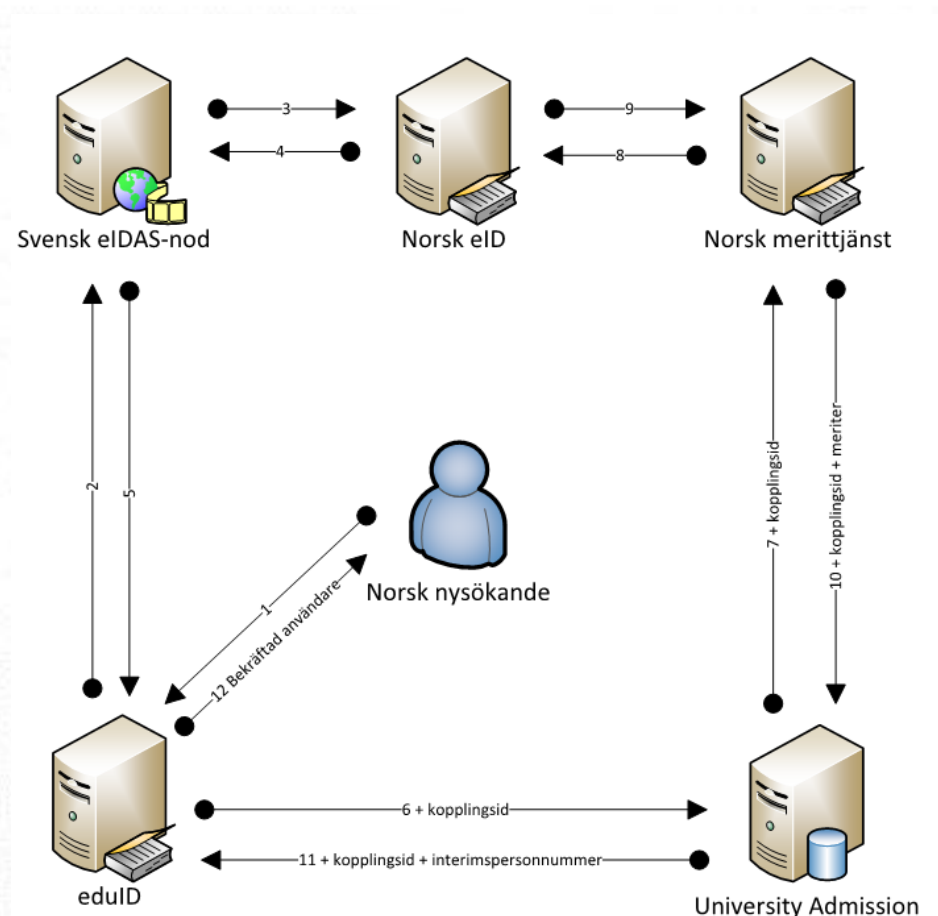
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When is a student a student?

- Authentication vs authorization
- Access rights to student accounts closes fast
- Lifelong learning should mean lifelong access to ones data
- Again, eID??
- National access to records?

Practical problem: NO+SE

- CERES and Umeå University testing new ideas
- Practical issue: eIDAS node doesn't release enough info (interim social security number)
- Two-factor authentication could help, i.e. a second session to get the missing data



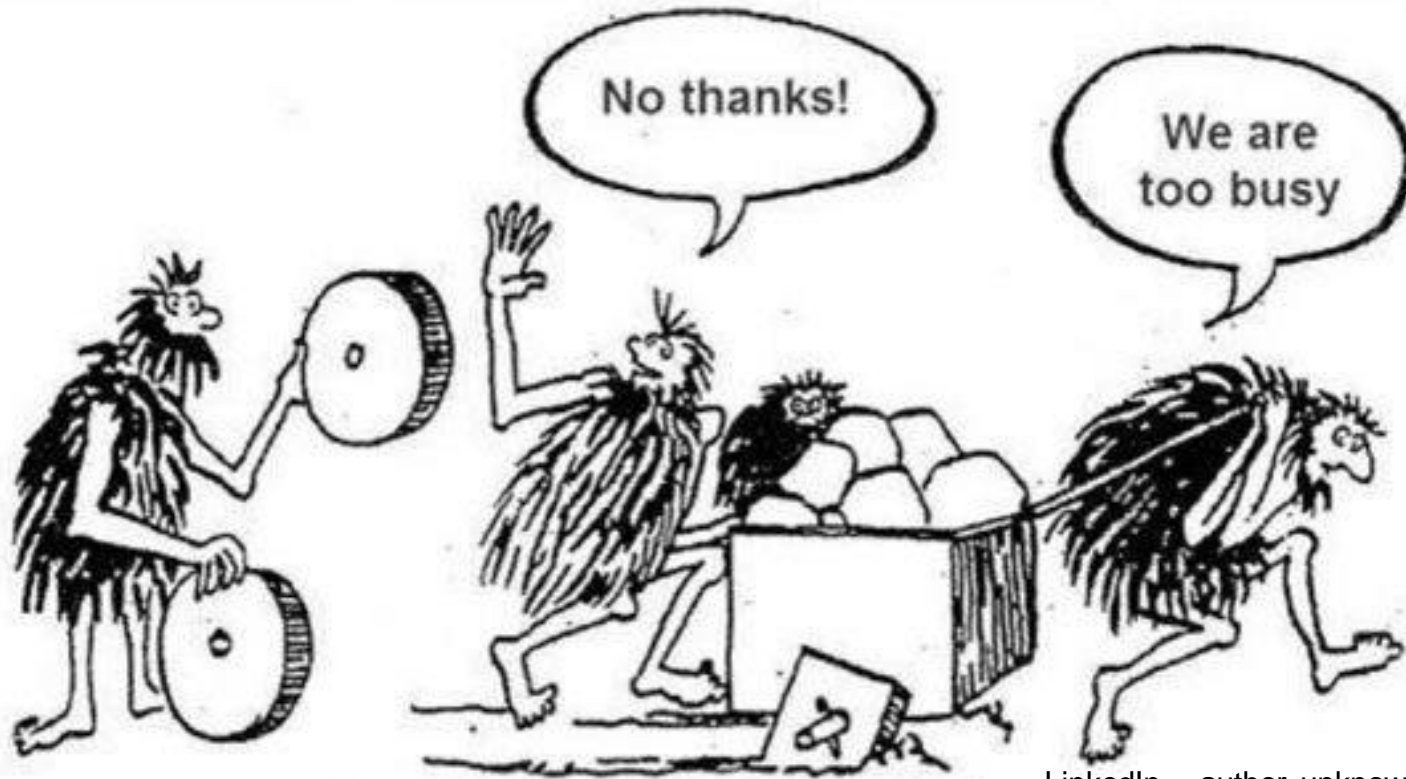


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How to join EMREX?

- EMREX is open to all, no licence costs
- Testing network available
- Possible to join EMREX also as only receiving end
- <http://emrex.eu/#joinus>
- EMREX website: www.emrex.eu
- GitHub: <https://github.com/emrex-eu/>

Questions?



LinkedIn – author unknown