

# Digital assessment

## A National coordination project

Freddy Barstad, National coordinator Digital Assessment, eCampus UNINETT

SUNET - a short webinar about Digital eksamen in Norway - for Swedish universities

2015-11-27

**UNINETT**

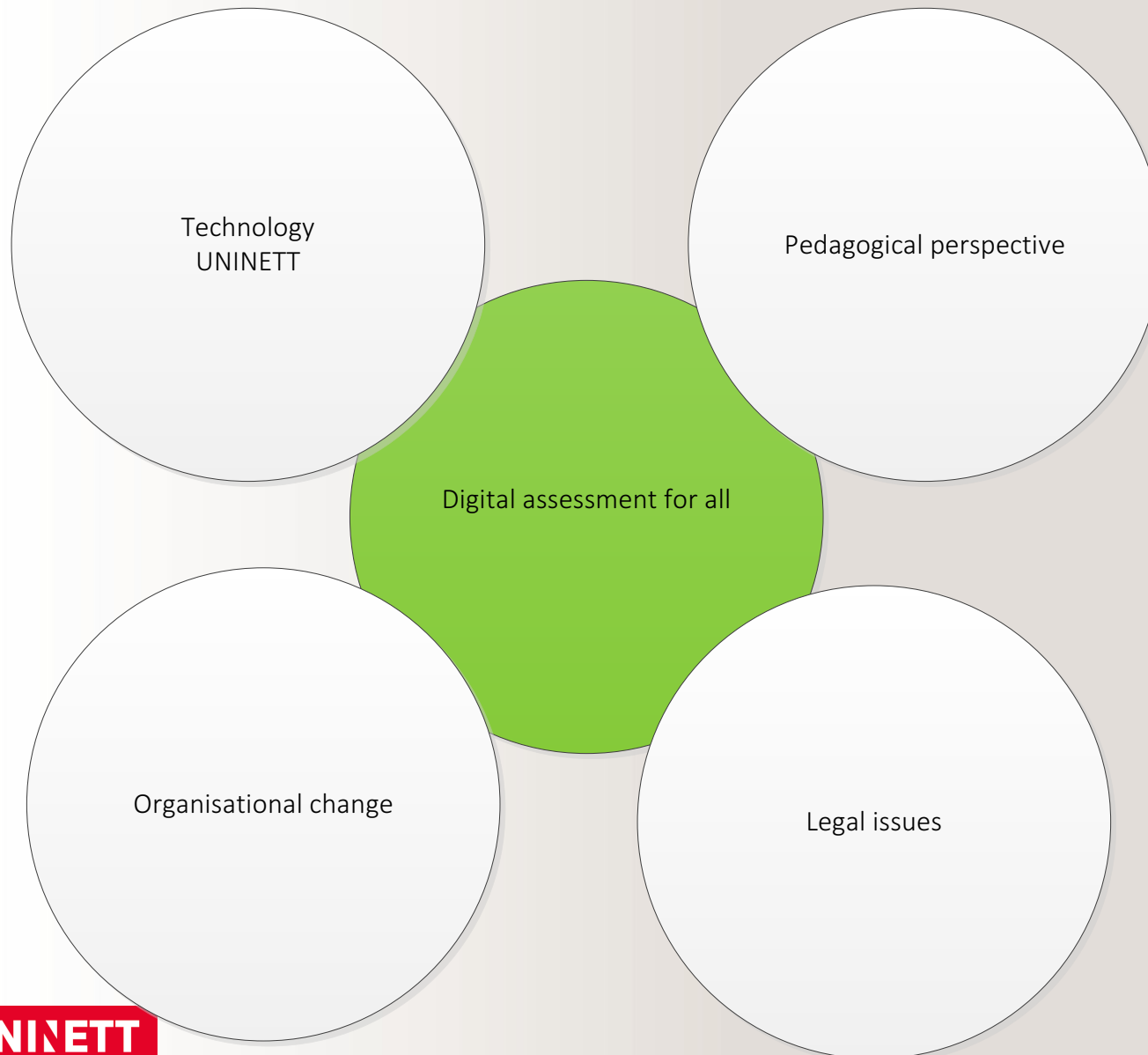
# UNINETT

- UNINETT is the Norwegian NREN
- Primarily serving higher education
- 300.000+ students
- 200+ customers
- Providing several administrative services for our customers
- Collaboration between NREN and customers
- There are major changes in Norway's higher education, universities are merging with university colleges, forming new larger, more attractive institutions for the students.
- eCampus program (2012-2016)

# Why Digital Assessment project?

- ▶ Digital assessment is about working smarter, moving from paper based assessment procedures to digital procedures, reducing the time and energy spent, and improving the quality of the old written assessments procedures.
- ▶ To change from paper-based procedures to digital procedures requires change in the operations procedures at the university, the assessment regulations at the university and the perception or understanding of the assessment processes, among both students and staff at the university.
- ▶ Students of today can't write by hand anymore, they using PCs in their study, why can't they use PCs on exams?
- ▶ There is no turnkey product, immature solutions from vendors, several promising solution but lacking features supporting workflow.

# Digital assessment as a whole



# Assessment process: From manual to digital routines

**System for register examinations**

Formalities  
Overview, e.g. language-variants  
Shortage, reminders

Archiving: Need of history archiving.

Critical: Access

**Systems for digital exam**

Challenges:

- Control access
- Scaling
- Context
- Infrastructure
- Costs
- Competence

Critical: Stability

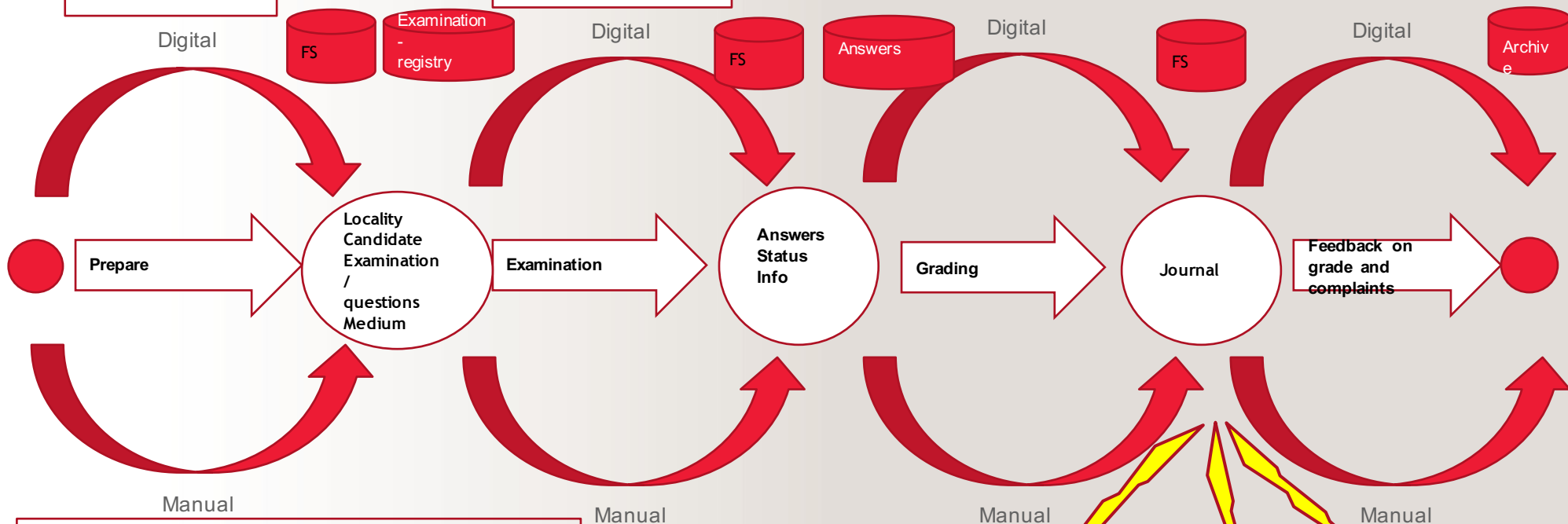
**System for digital censorship**

- Process support
- Transparent censorship

Support for varying methodology

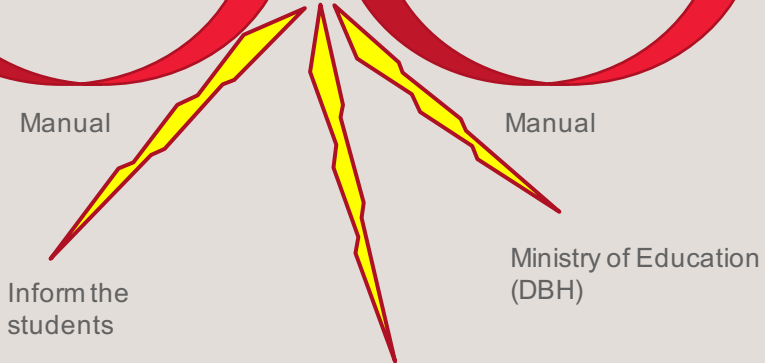
Critical: Access, Security, Transfer results.

Need for system support.  
Case management system  
Integration with archive system

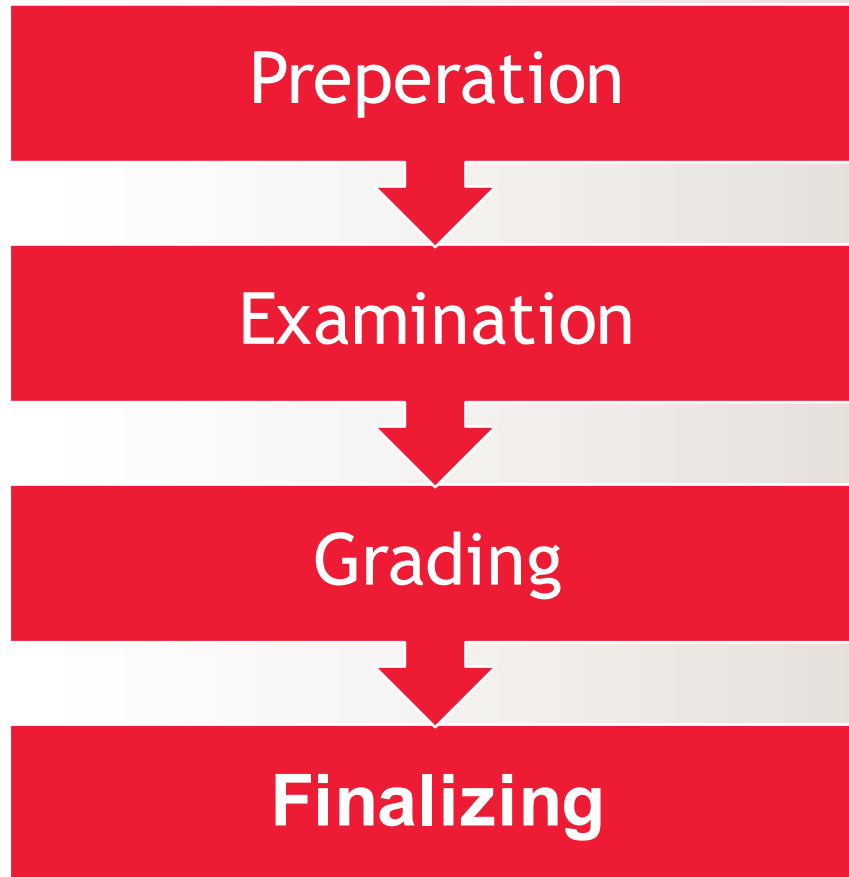


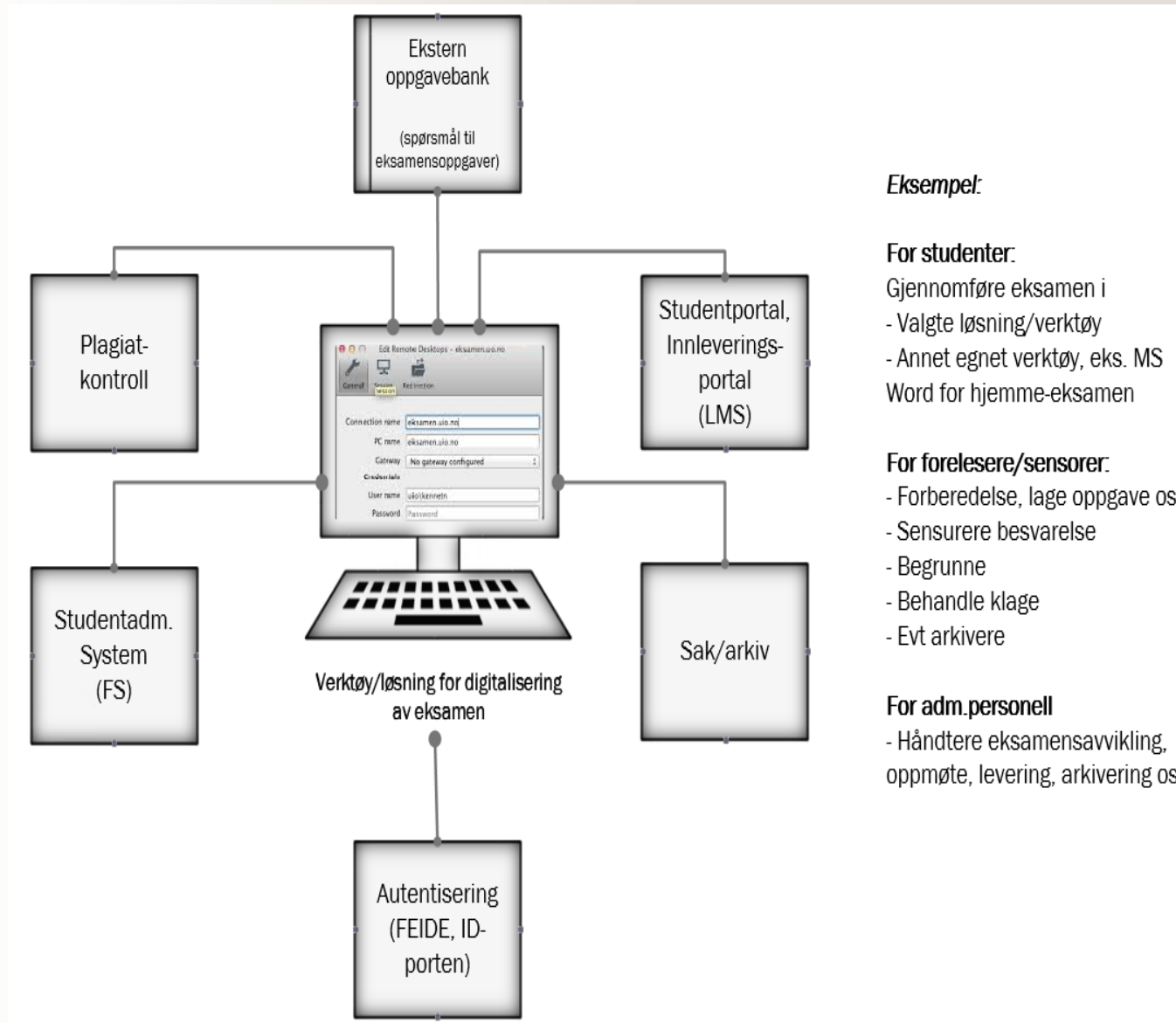
**In general:**

- Must support digital og manual routines
- Access to systems. People with loose connection to institution
- Digital signatures
- Clarify regulations
- Different forms of assessment
- Role of Learning Management Systems
- Hand over information to internal and national archives



# Assessment process





**Eksempel:**

**For studenter:**

- Gjennomføre eksamen i
- Valgte løsning/verktøy
  - Annet egnet verktøy, eks. MS Word for hjemme-eksamen

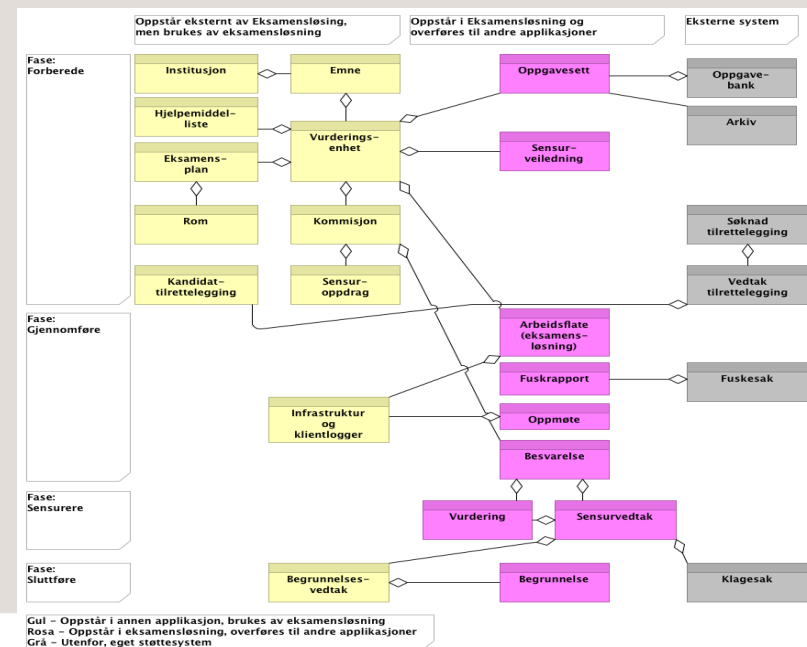
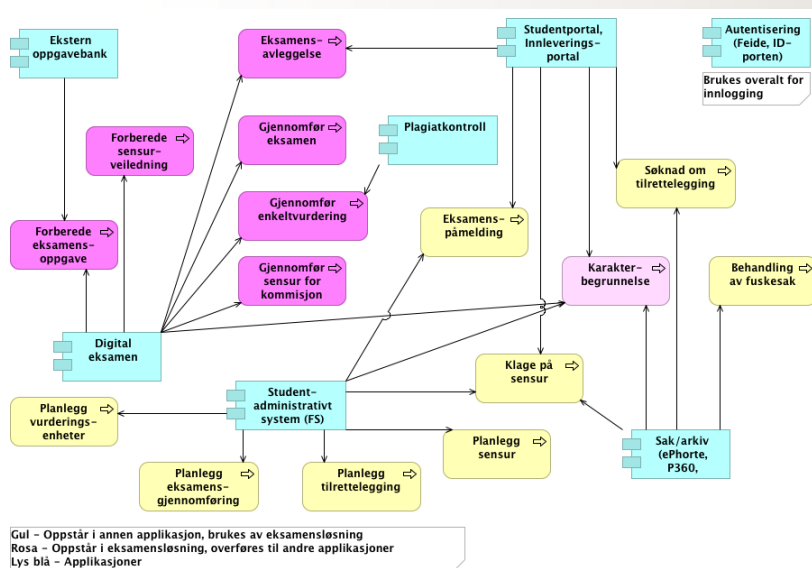
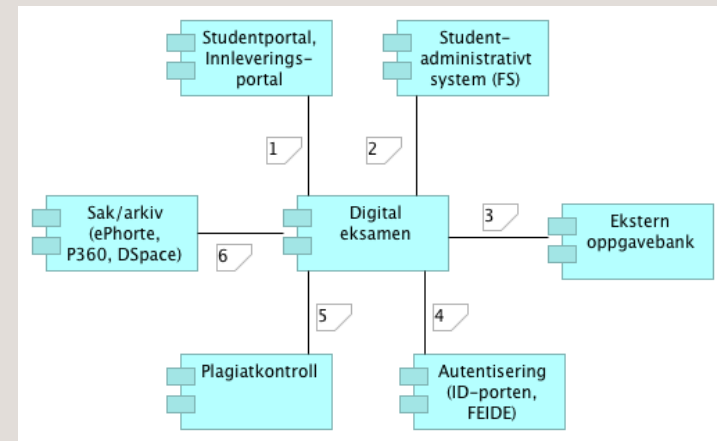
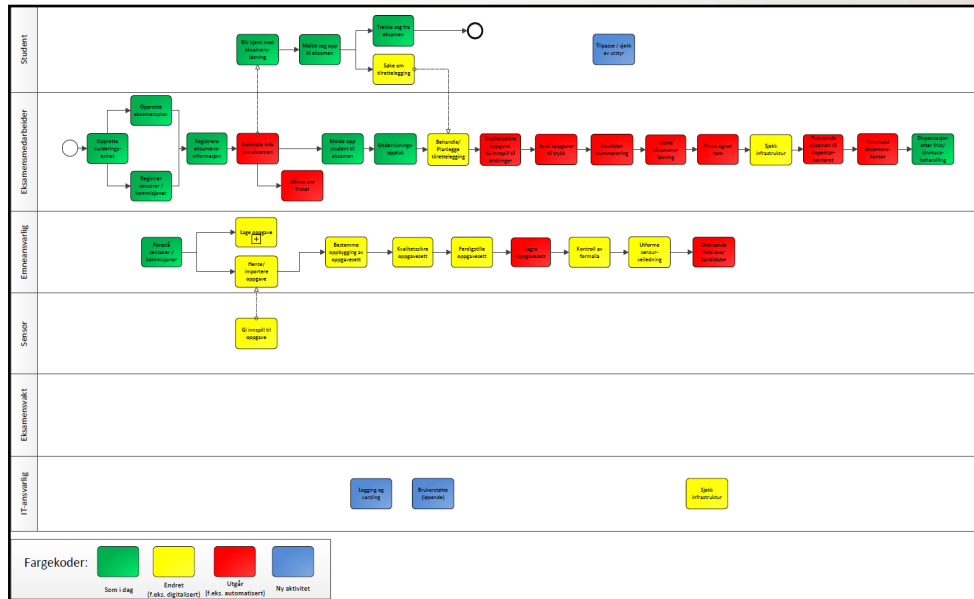
**For forelesere/sensorer:**

- Forberedelse, lage oppgave osv.
- Sensurere besvarelse
- Begrunne
- Behandle klage
- Evt arkivere

**For adm.personell**

- Håndtere eksamensavvikling, oppmøte, levering, arkivering osv.

# Digital assessment process & IT-architecture

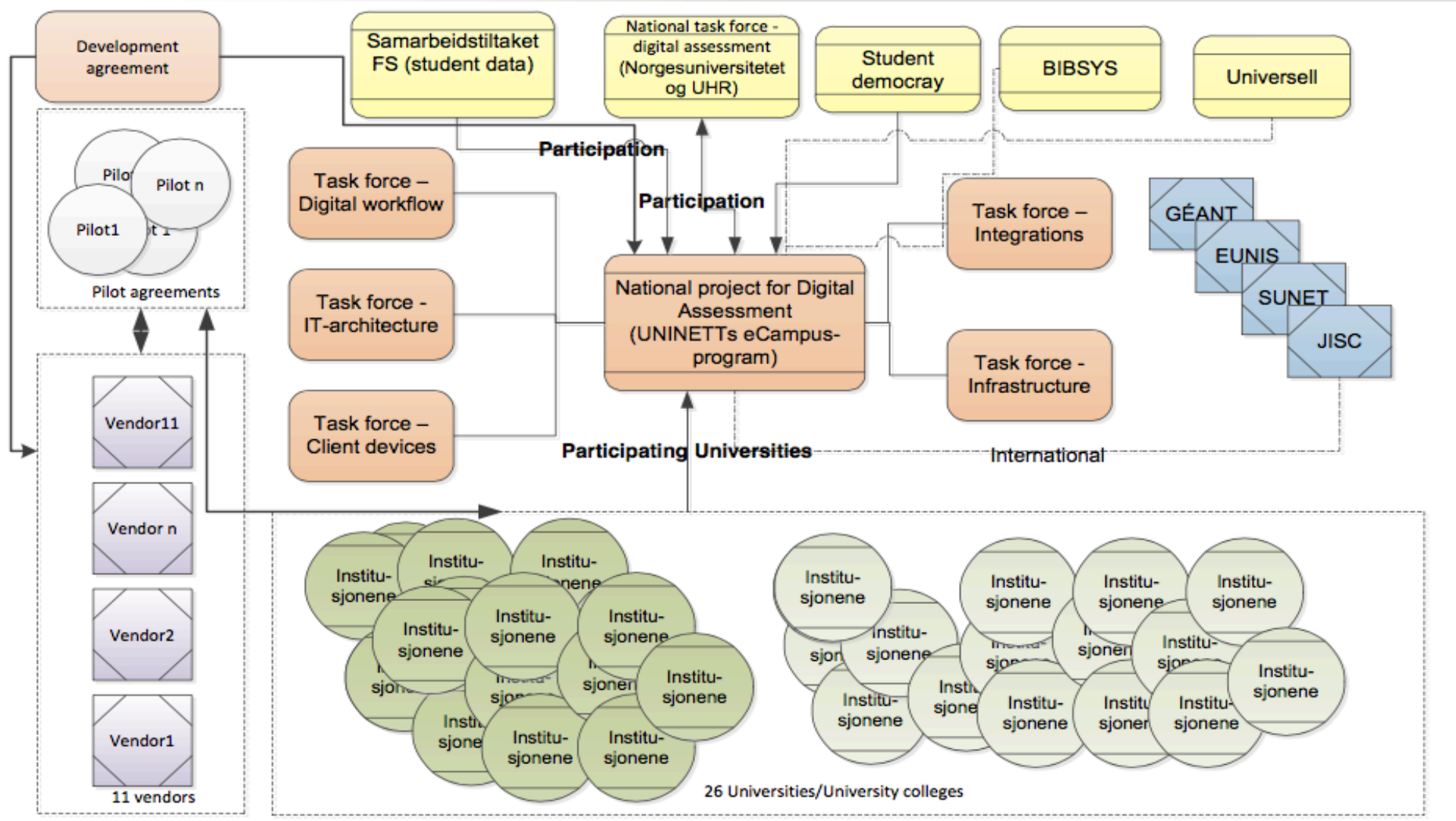




# How is the Digital Assessment project organized?

- ▶ The digital assessment project, is a part of the eCampus program
- ▶ UNINETT has established a national project to ensure that students get access to digital examination.
- ▶ All universities and university colleges was invited to participate in the project.
- ▶ Created several working group, with participation from the universities.
- ▶ Lots of coordination of existing activity
- ▶ Facilitating exchange of experiences
- ▶ Writhing specifications (CBP)

# Project organization



# Project deliveries

- Sharing knowledge
- Market development
- Pre-standardization descriptions (CBP-documents)
- Establish necessary infrastructure
- Risk analysis
- Prepare procurement(s)

# Sharing knowledge

Seminar series; <https://www.uninett.no/digitaleksamen/arrangementer-om-digital-eksamen>

Web-site:

<https://www.uninett.no/digitaleksamen>

Participation: <https://www.uninett.no/digitaleksamen/nasjonal-prosjektgruppe-digital-eksamen>

Experience reporting:

<https://www.uninett.no/digitaleksamen/status-mars-2014>

International collaboration

[jisc](#) & [GEANT](#) & [EUNIS](#)(ELTF) & [SUNET](#)

# Market development

- Pre-commercial Procurement (PCP)
- Dialog conference
- Vendors day at seminar

<https://www.uninett.no/seminar-om-digital-eksamen/leverand%C3%B8rer>

- Development agreements
- Sharing results
- Establish and testing integrations

# Pre-standardization descriptions - CBP documents

CampusBestPractice documents gives us a common understanding of digital assessment, common definitions, and a common starting point for future work

- UFS145/CBP 42 - Physical Infrastructure ([Norwegian](#) / English)
- UFS146/CBP 43 - Client devices (Norwegian / English)
- UFS147/CBP xx - Integrations (forthcoming)
- UFS148/CBP 44 - Digital assessment process & IT-architecture (Norwegian / English)
- UFS149/CBP 45 - Logging and monitoring in digital assessment (Norwegian / English)
- UFS150/CBP xx - Regulations & Cloud services (forthcoming)

Translation financed by GÉANT sponsored the European Commission.

CBSs are free, openly available documents available from the GÉANT website

([http://services.geant.net/cbp/Knowledge\\_Base/Pages/Home.aspx](http://services.geant.net/cbp/Knowledge_Base/Pages/Home.aspx))

In Norwegian: <https://www.uninett.no/digitaleksamen>

**UNINETT**

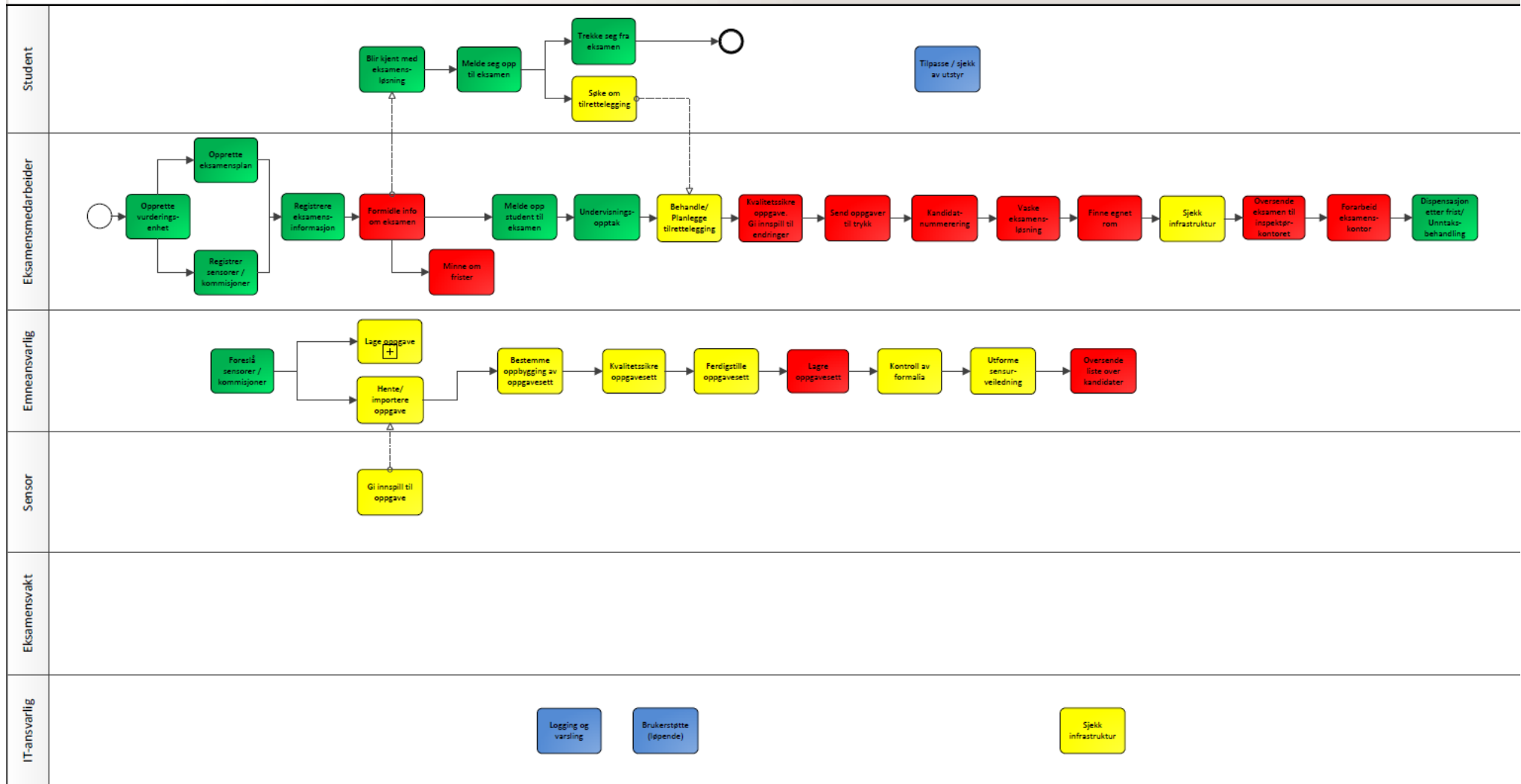
# Prefer it gift wrapped?

- Dr. Gill Ferrell: “Look out for our *Assessment Toolkit* due to launch in October 2015”

The screenshot shows the Jisc EMA toolkit website. The header includes the Jisc logo, the text 'EMA toolkit', and navigation links for 'EMA Lifecycle' and 'About EMA'. A search bar is located in the top right corner. The main content area features the heading 'Good practice to support the electronic management of assessment for your learners'. Below this, there is a call to action: 'Use our free self-assessment tool to find out what will help your institution make better use of EMA.' A prominent button labeled 'Start self-assessment' is positioned below the text. To the right, a circular diagram illustrates the 'EMA Lifecycle' with eight numbered steps: 1. Specifying, 2. Setting, 3. Supporting, 4. Submitting, 5. Marking & production of feedback, 6. Recording grades, 7. Returning marks & feedback, and 8. Reflecting. A central text prompt says 'Click to explore the EMA Lifecycle'. At the bottom, a section titled 'Explore by theme:' lists various topics such as 'Assessment design', 'Assessment literacies', 'Assessment processes', 'Assessment technologies', 'Employability and assessment', 'Feedback and feed forward', 'Managing an EMA project', 'Online Marking', 'Online submission', 'Online testing & exams', 'Peer review and peer assessment', and 'Self-reflection'.



# Workflow analysis



Fargekoder:



Som i dag



Endret  
(f.eks. digitalisert)



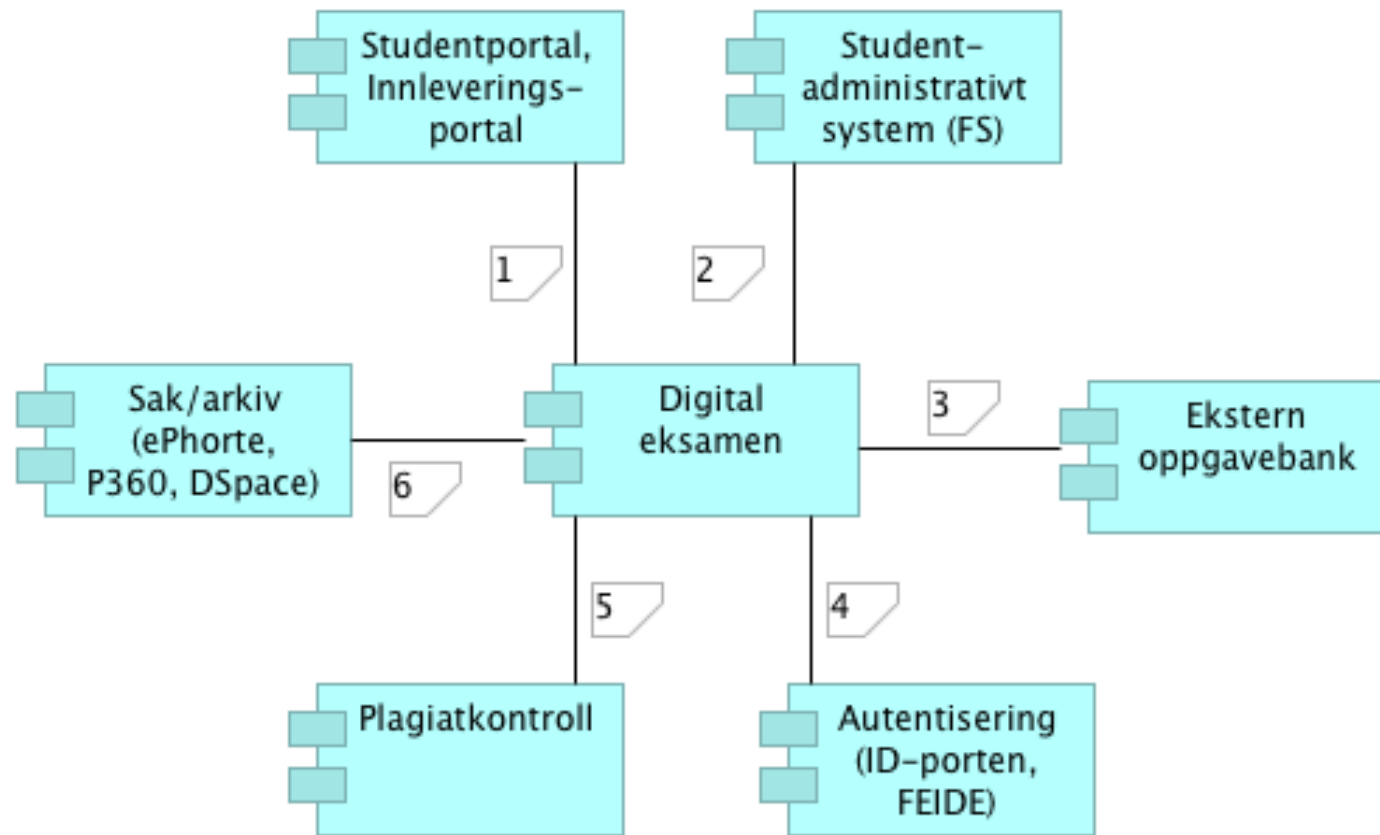
Utgår  
(f.eks. automatisert)

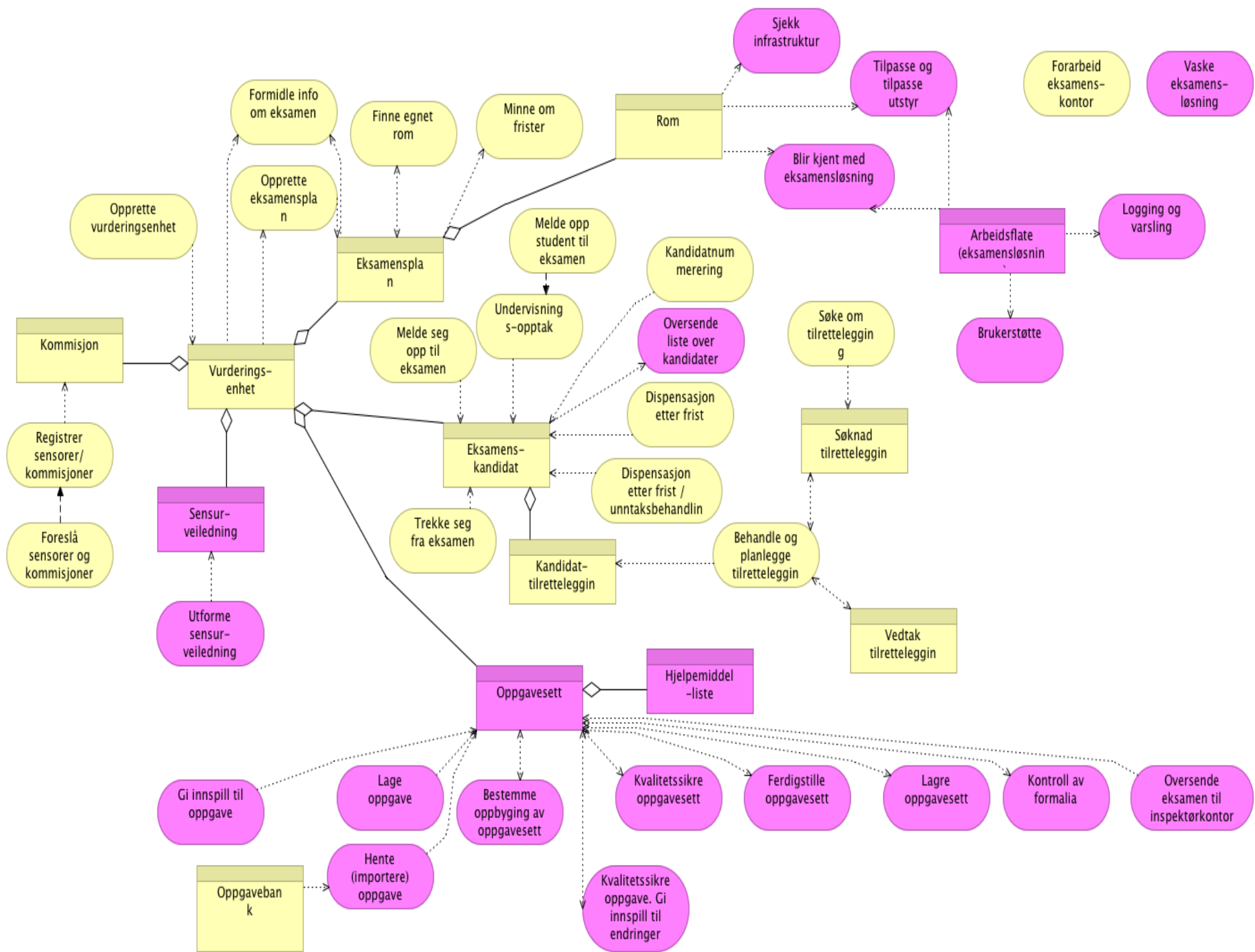


Ny aktivitet



# Applikasjonskart





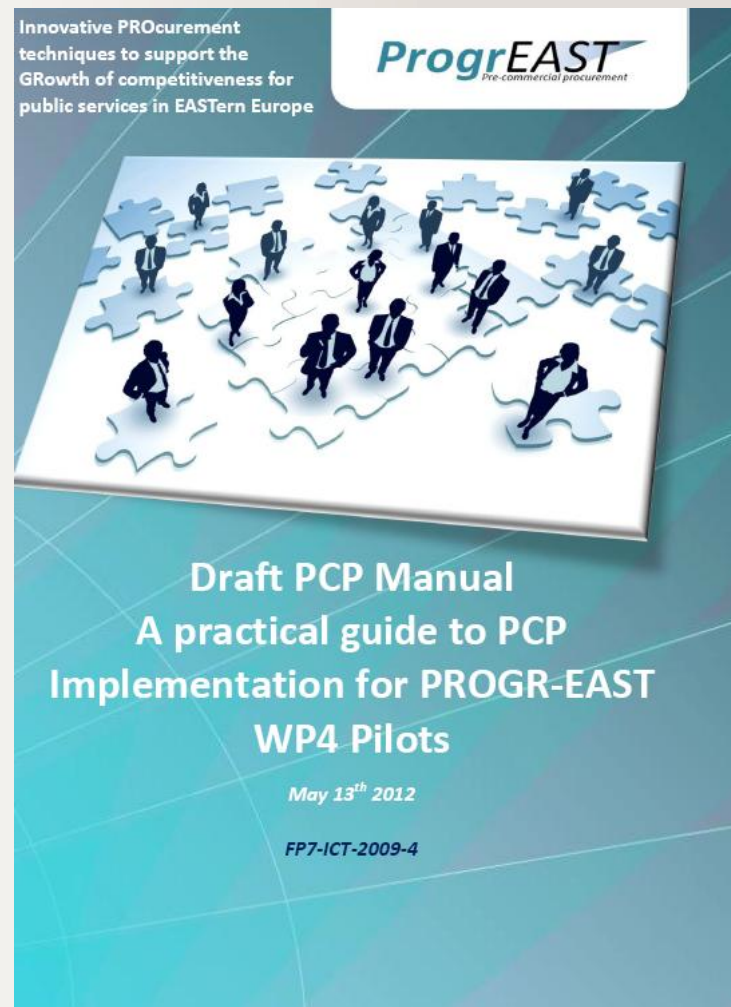
# Pre-commercial Procurement (PCP)



# National pilot in the supplier development program



# A practical guide to PCP



<http://www.innova-eu.net/docs/pcp17.pdf>

# Gruppene for ROS-analyse digital eksamen er nå etablert.

En nasjonal risiko-og sårbarhetsanalyse av løsninger for digital eksamen skal gjennomføres høsten 2015

<https://www.uninett.no/invitasjon-ros-analyse-digital-eksamen>

## Organisering:

ROS-arbeidet vil bli ledet av seniorrådgiver Øivind Høiem hos [sekretariat for informasjonssikkerhet ved UNINETT](#)

Arbeidsomfanget er berammet til deltakelse på to-tre samlinger i løpet av høsten 2015.

To arbeidsgrupper er nå etablert og består av følgende medlemmer:

### Arbeidsgruppe ROS Faglig & administrativt

Øivind Høiem (Leder)	UNINETT, Sikkerhetssekretariat
Marianne Huse	UiB
Knut Løvold	FSAT
Tine Richardsen	BI
Kjersti Møller	HiST
Marianne Seim	HiB
Aleksander Lorentzen	UiO
Christina Jenkins Slutås	NTNU
Tove-Kristin Hafsmo Yndestad	HiOA
Nina Tvenge	HIG
Freddy Barstad	UNINETT, eCampus

*Første arbeidsmøte er den 2/11-15, 09:00-16:00, ved NTNU*

**UNINETT**

### Arbeidsgruppe ROS Teknisk

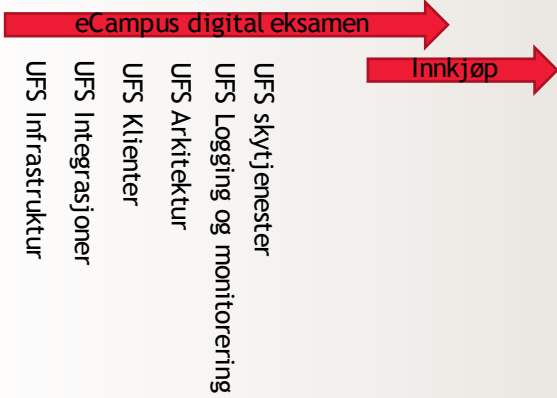
Øivind Høiem (Leder)	UNINETT, Sikkerhetssekretariat
Arild Aase Flobak	HiOF
Ronny Jordalen	UiB
Richard Borge	FSAT
Terje Johansen	BI
May Sigrid Olsen	HiST
Johanne Randøl Smestad	UiO
Anders Christensen	NTNU
Magnus Strømdal	UNINETT
(Freddy Barstad)	UNINETT, eCampus

*Første arbeidsmøte er den 26/10-15, 09:00-16:00, ved UiO*

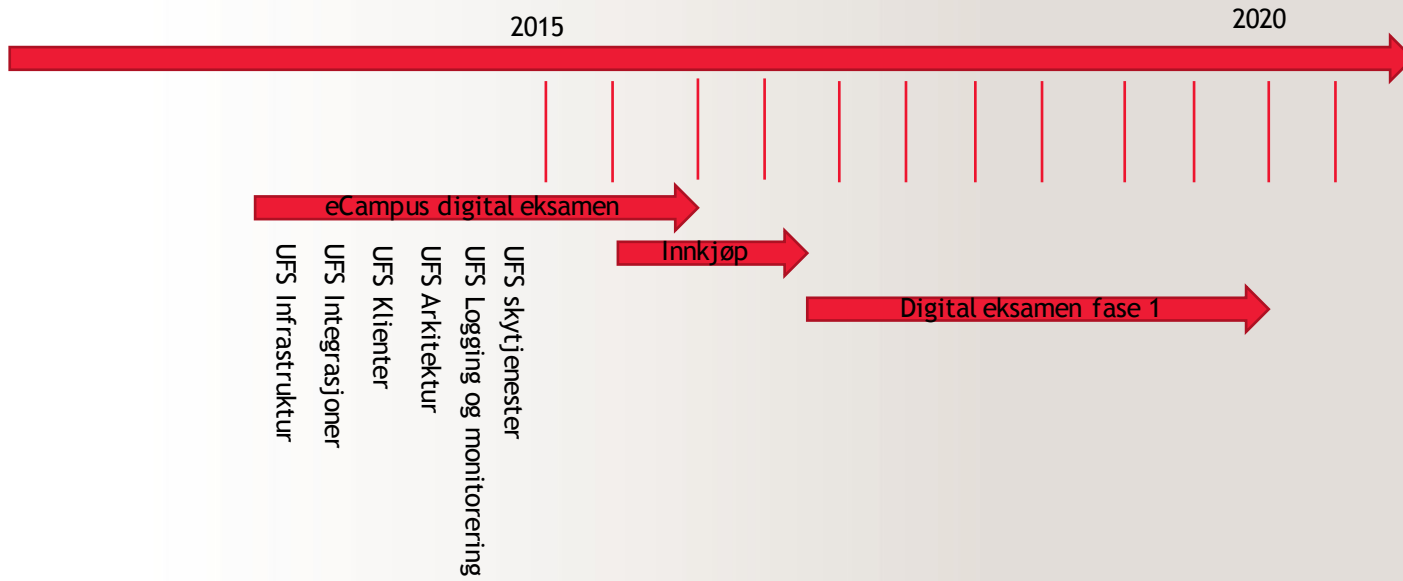


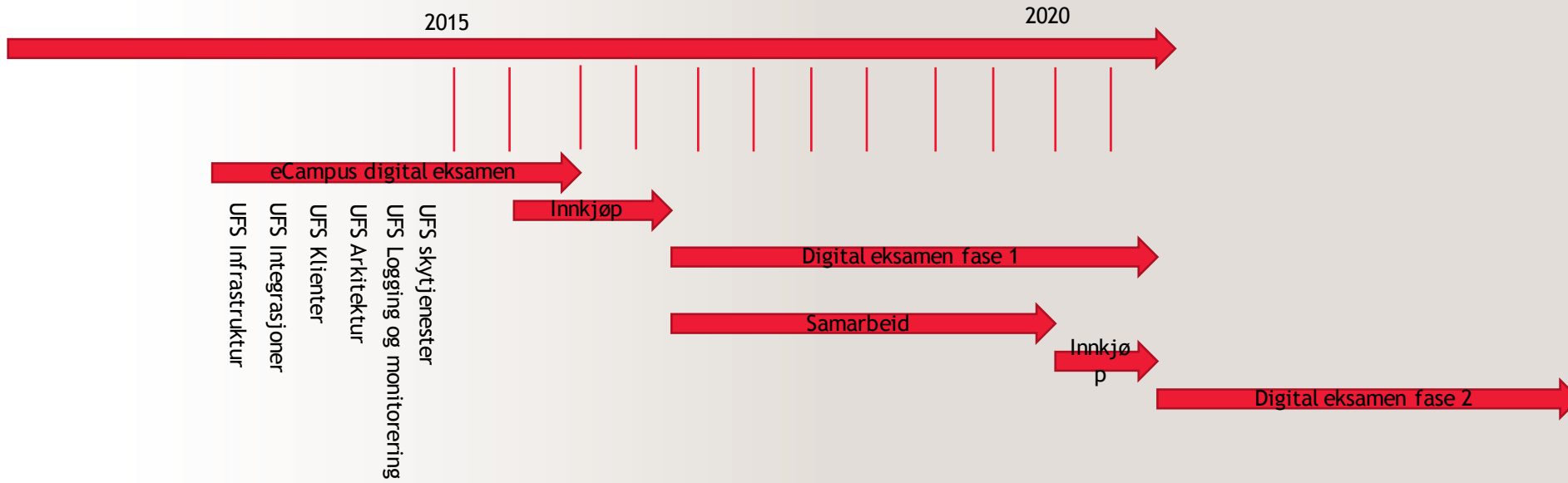
eCampus digital eksamen

- UFS skytjenester
- UFS Logging og monitorering
- UFS Arkitektur
- UFS Klienter
- UFS Integrasjoner
- UFS Infrastruktur









# Sharing — is caring



A mature HE-sector and a  
mature market

**UNINETT**

<https://www.uninett.no/digitaleksamen>

**UNINETT**

