Digital assessment

A National coordination project

Freddy Barstad, National coordinator Digital Assessment, eCampus UNINETT

NUAS conference

Århus, 2015-11-19

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- 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.

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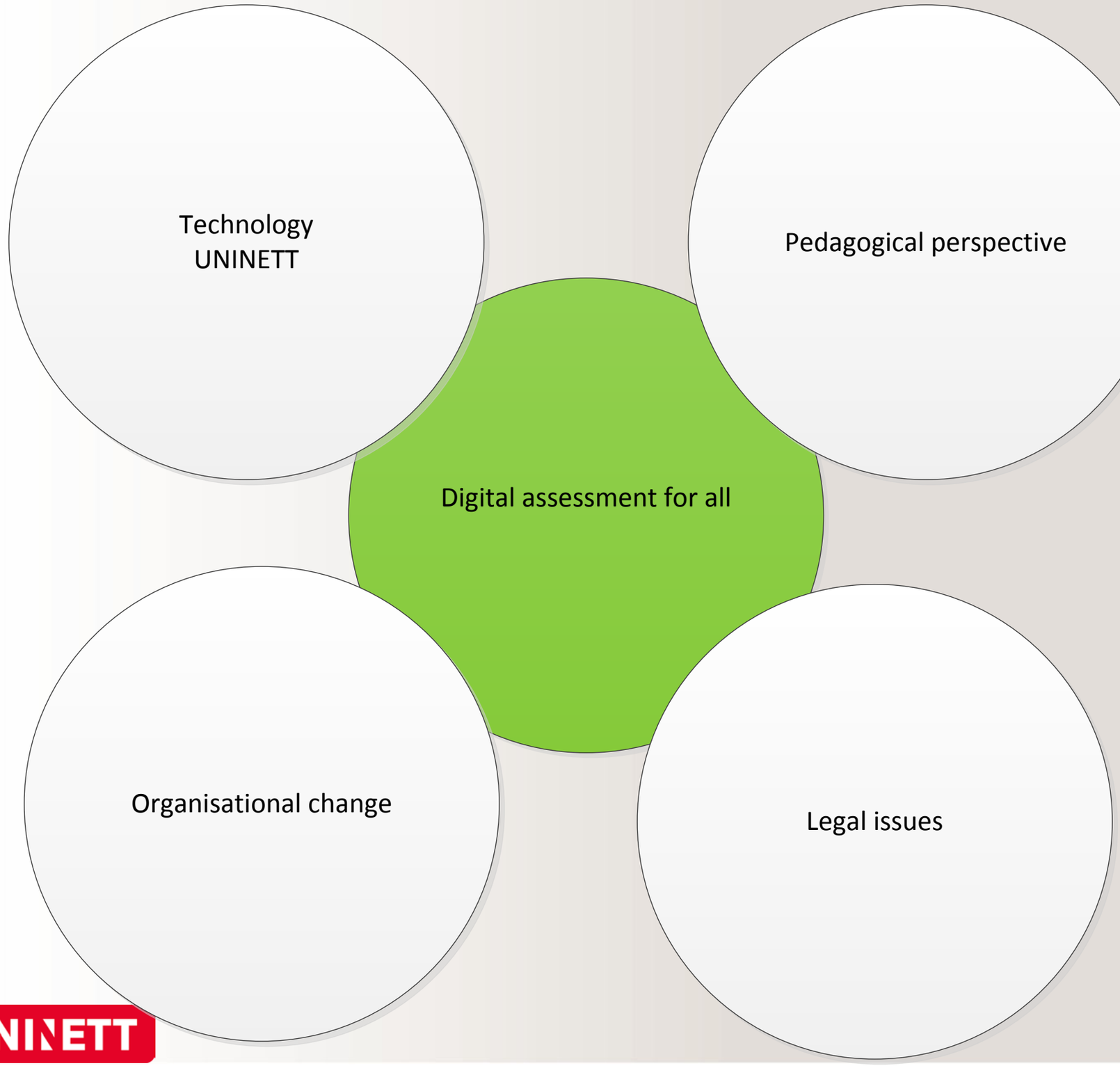
Digital assessment as a whole



Assessment process: From manual to digital routines

System for register examinations

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

Archiving: Need of history archiving.

Critical: Access

Systems for digital exam

Challenges:
- **Control access**
- **Scaling**
- **Context**
- **Infrastructur**
- **Costs**
- **Competence**

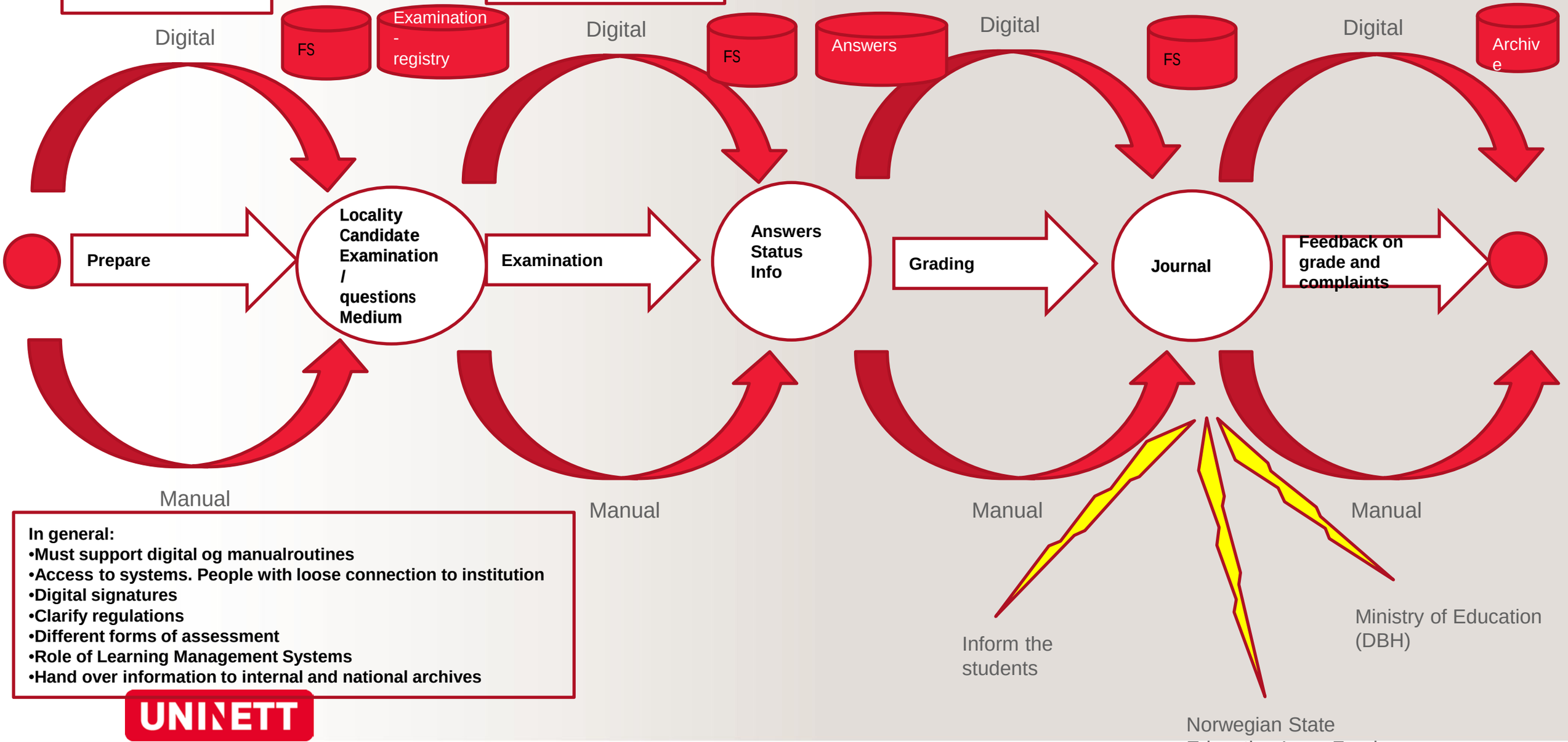
Critical: Stability

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 manualroutines**
- **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**

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by NTNU

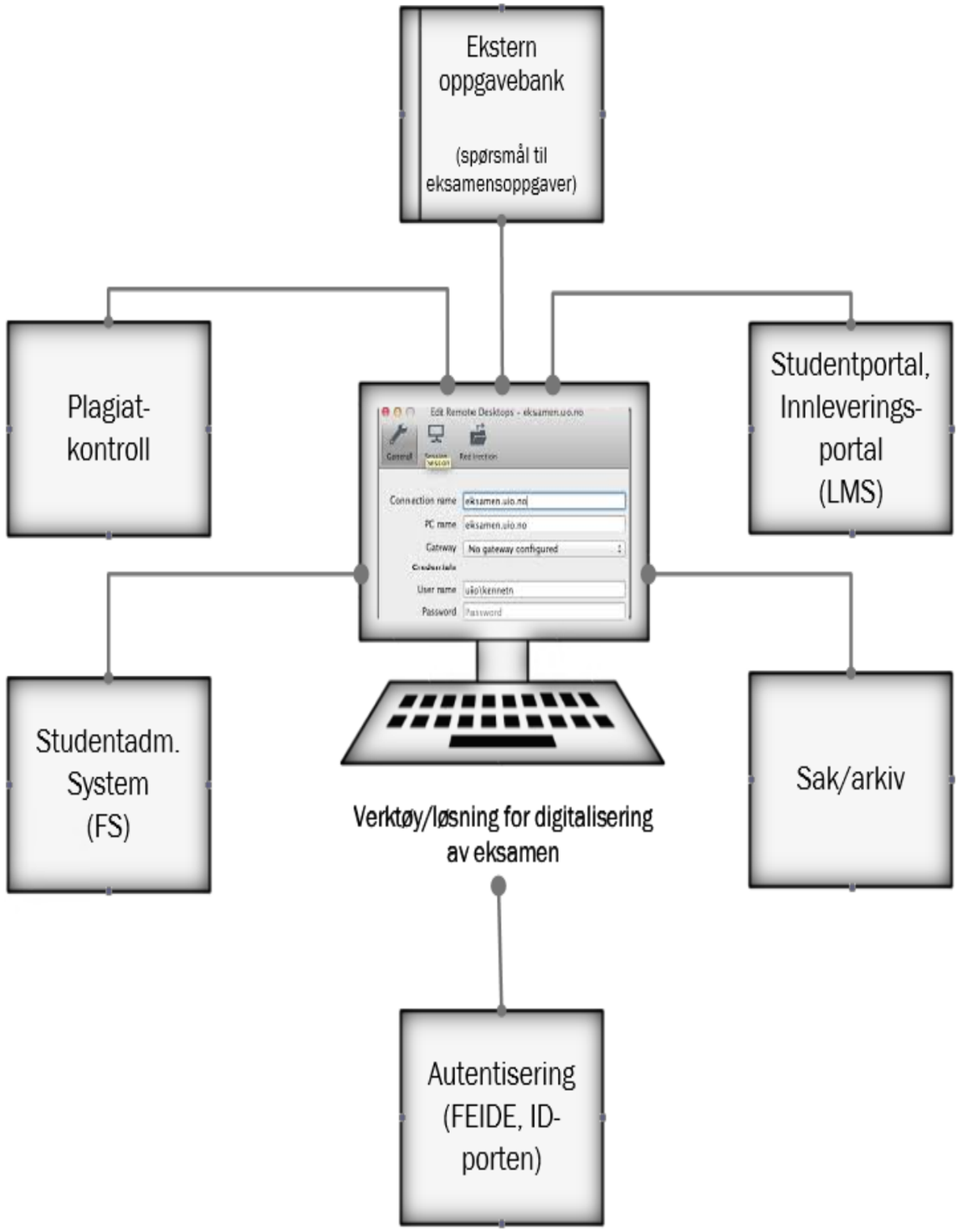
Assessment process

Preperation

Examination

Grading

Finalizing



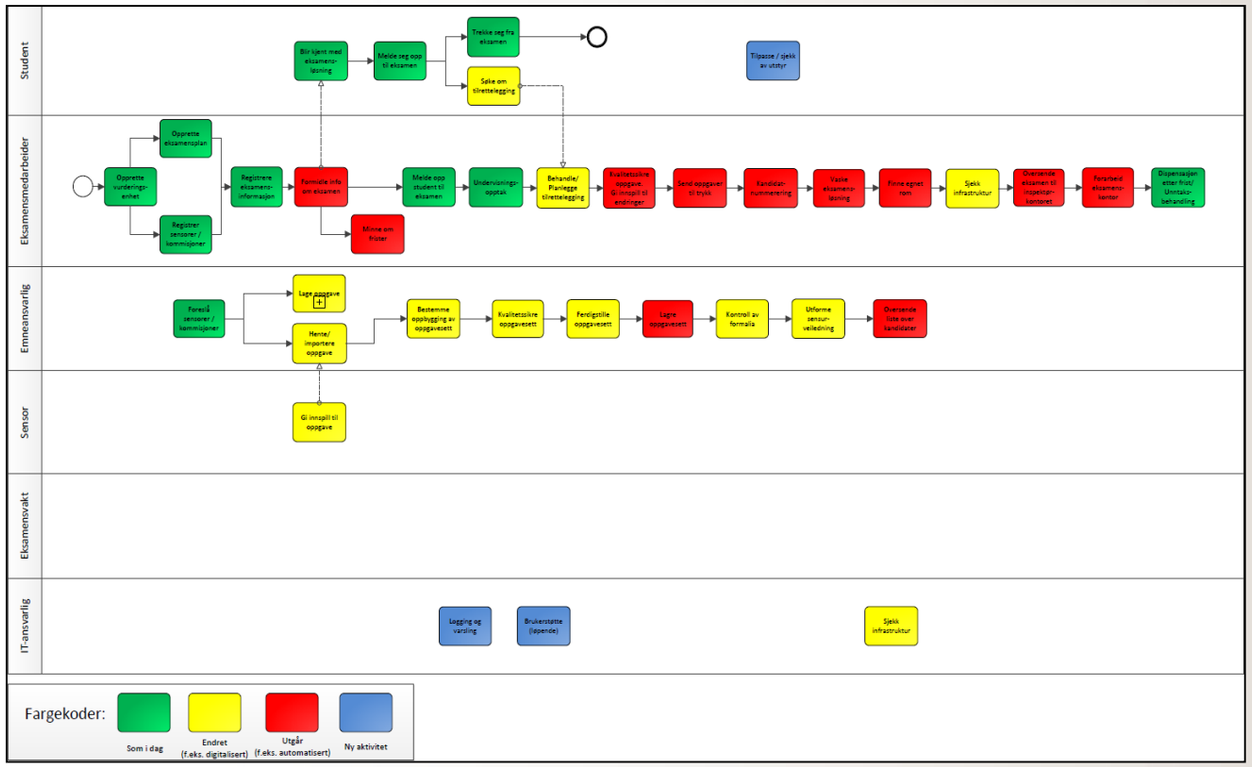
Eksempel:

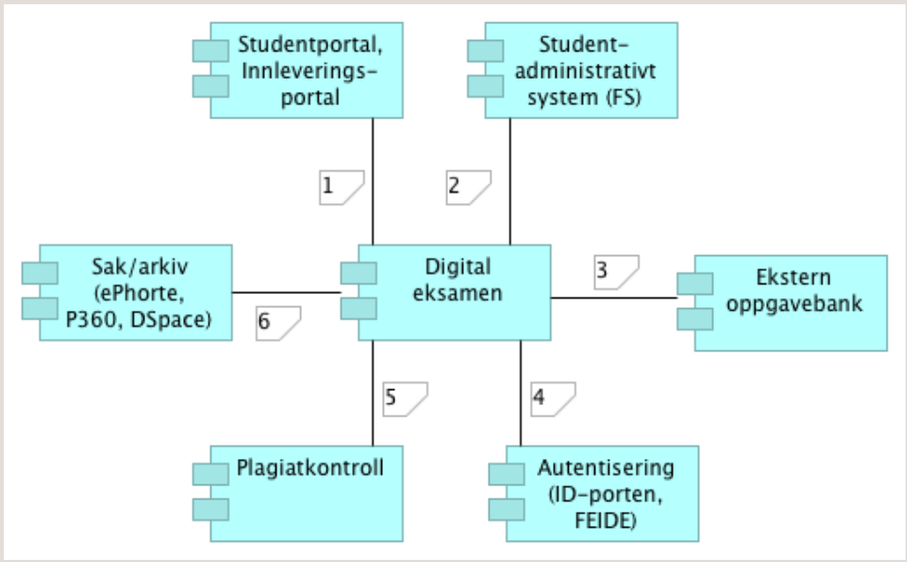
For studenter:
Gjennomføre eksamen i
- Valgte løsning/verktøy
- Annet egnet verktøy, eks. MS Word for hjemme-eksamen

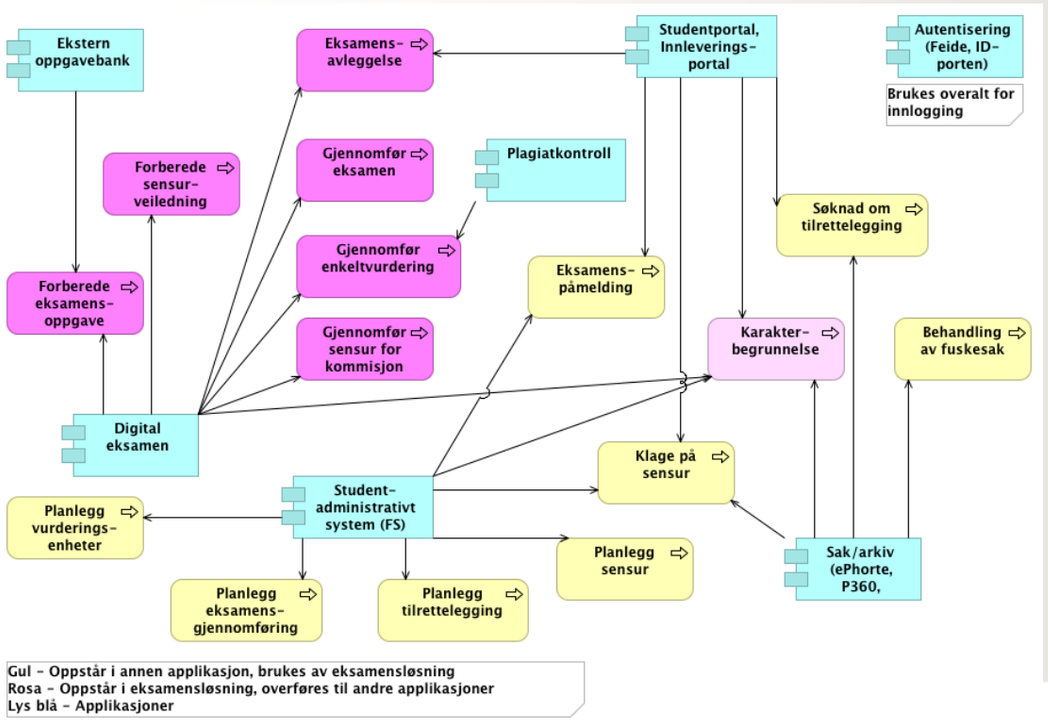
For forelesere/sensorer:
- Forberedelse, lage oppgave osv.
- Sensurere besvarelse
- Begrunne
- Behandle klage
- Evt arkivere

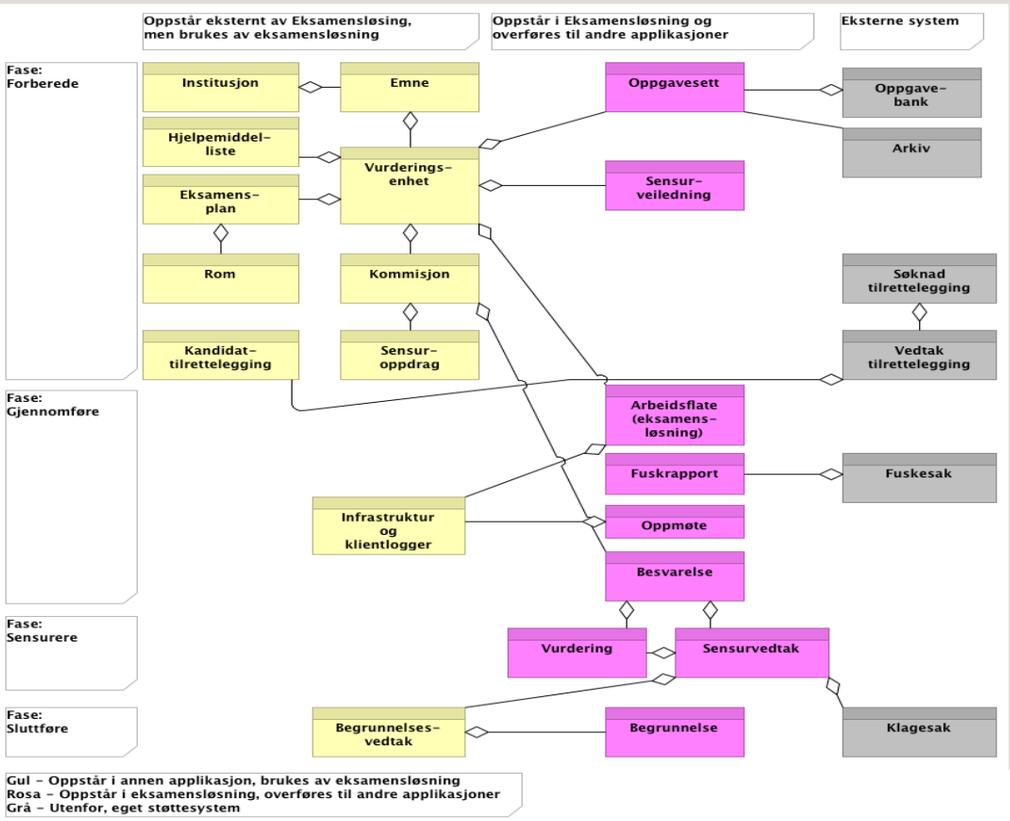
For adm.personell
- Håndtere eksamensavvikling, oppmøte, levering, arkivering osv.

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)

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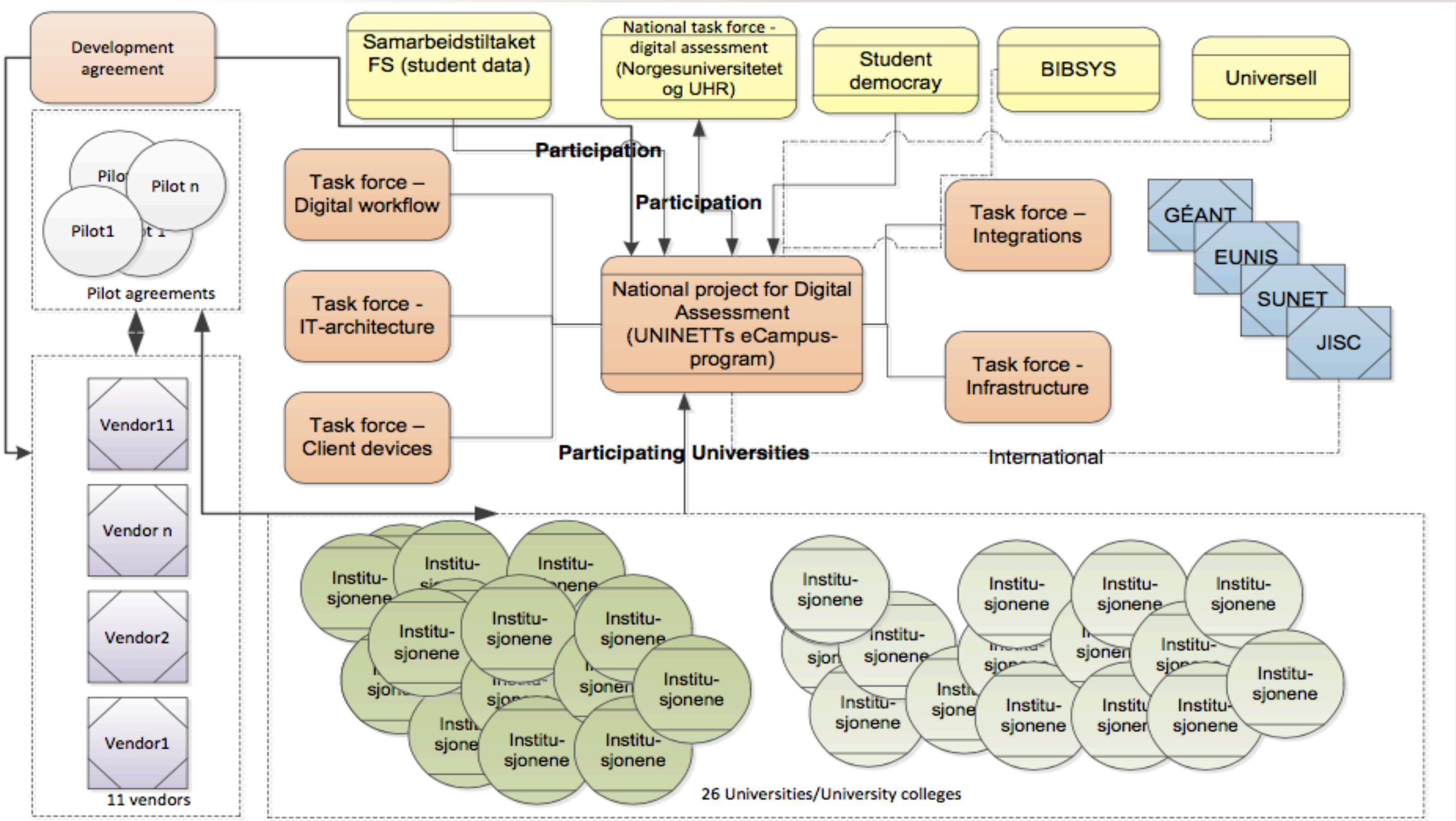
Project organization



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)

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

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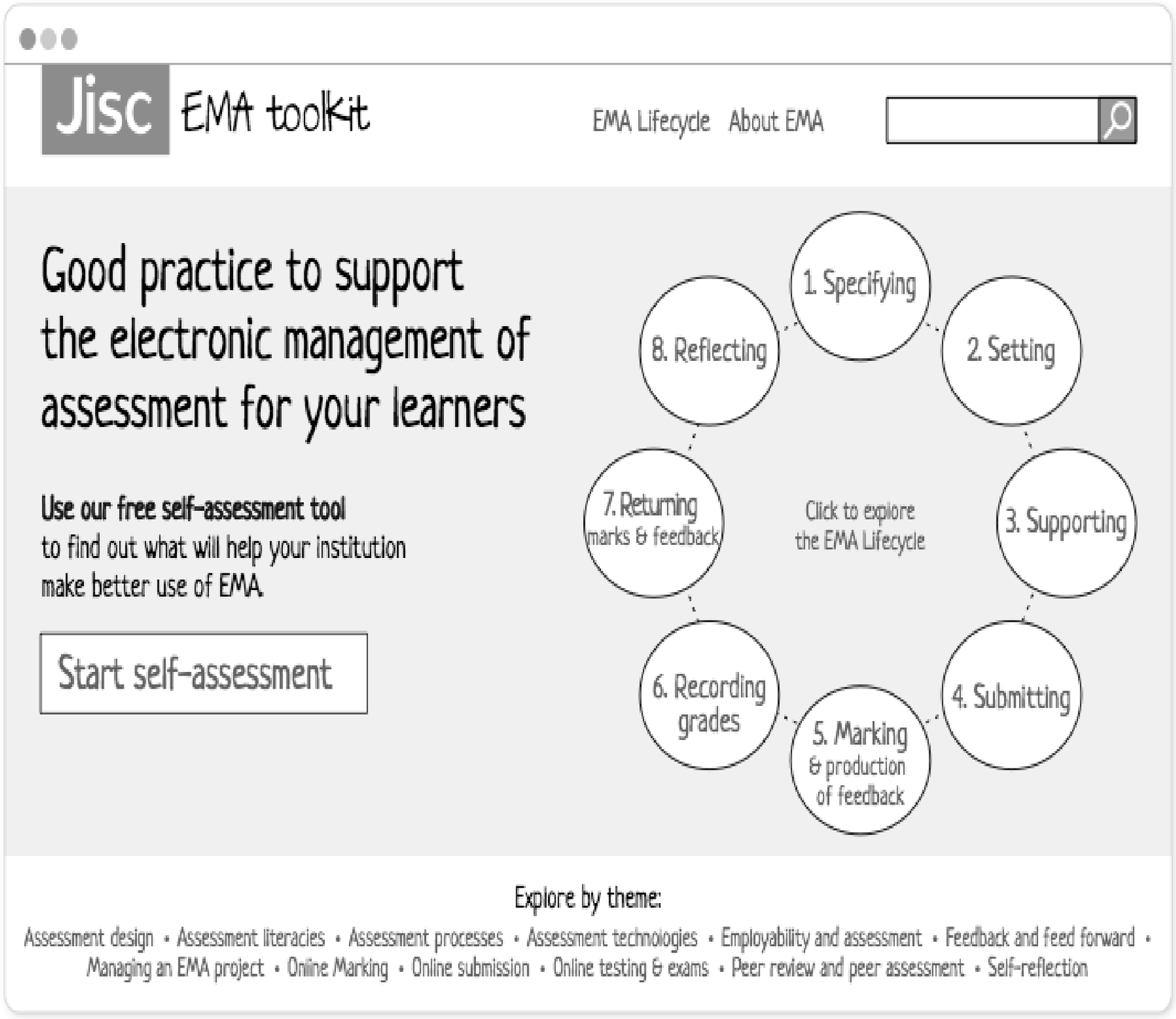
Prefer it gift wrapped?

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



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

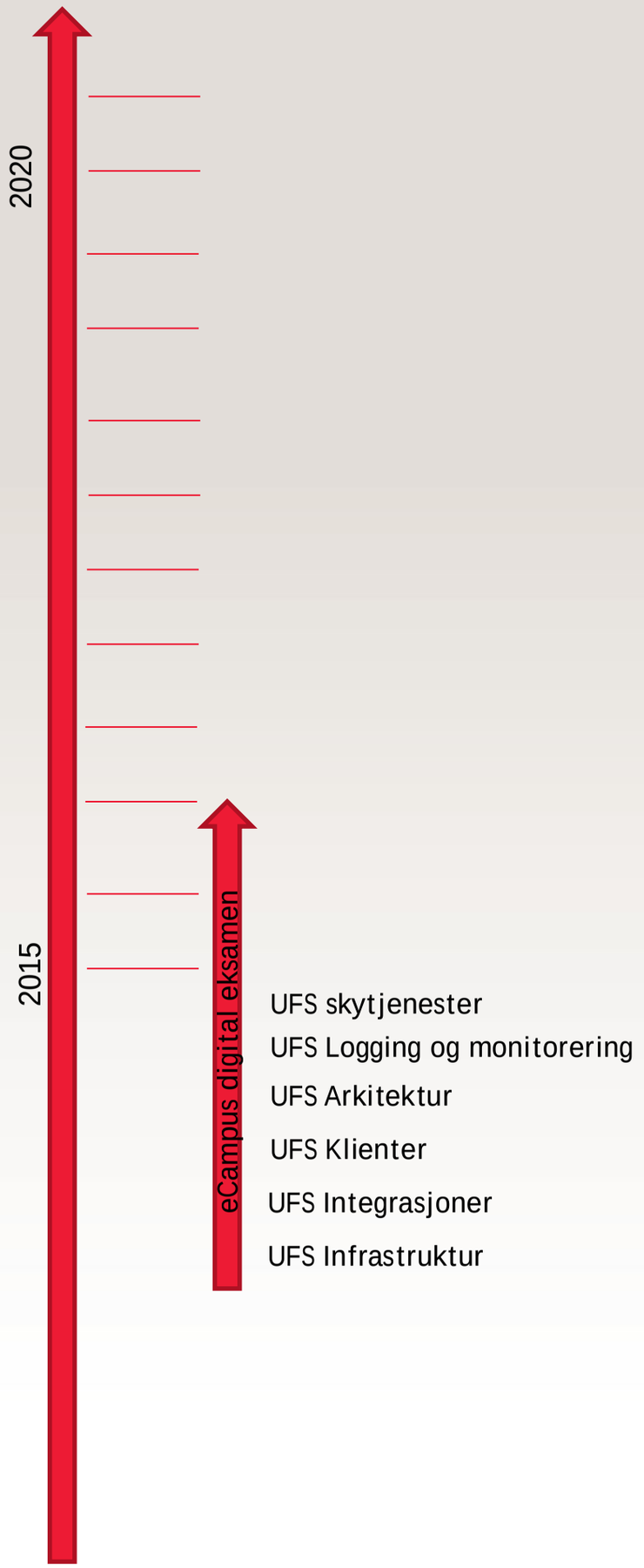
Øivind Høiem (Leder)	**UNINETT, Sikkerhetssekretariat**
Marianne Huse	UiB
Knut Løvold	FSAT
Tine Richardsen	BI
Kjersti Møller	HiST
Marianne Seim	HiB
Aleksander Lorentzen	UiO
Christina Jenkins Slutås	NTNU
Tove-Kristin Hafsmo Yndestad	HiOA
Nina Tvenge	HIG
Freddy Barstad	UNINETT, eCampus

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

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


2020
2015
eCampus digital eksamen
UFS skytjenester
UFS Logging og monitorering
UFS Arkitektur
UFS Klienter
UFS Integrasjoner
UFS Infrastruktur

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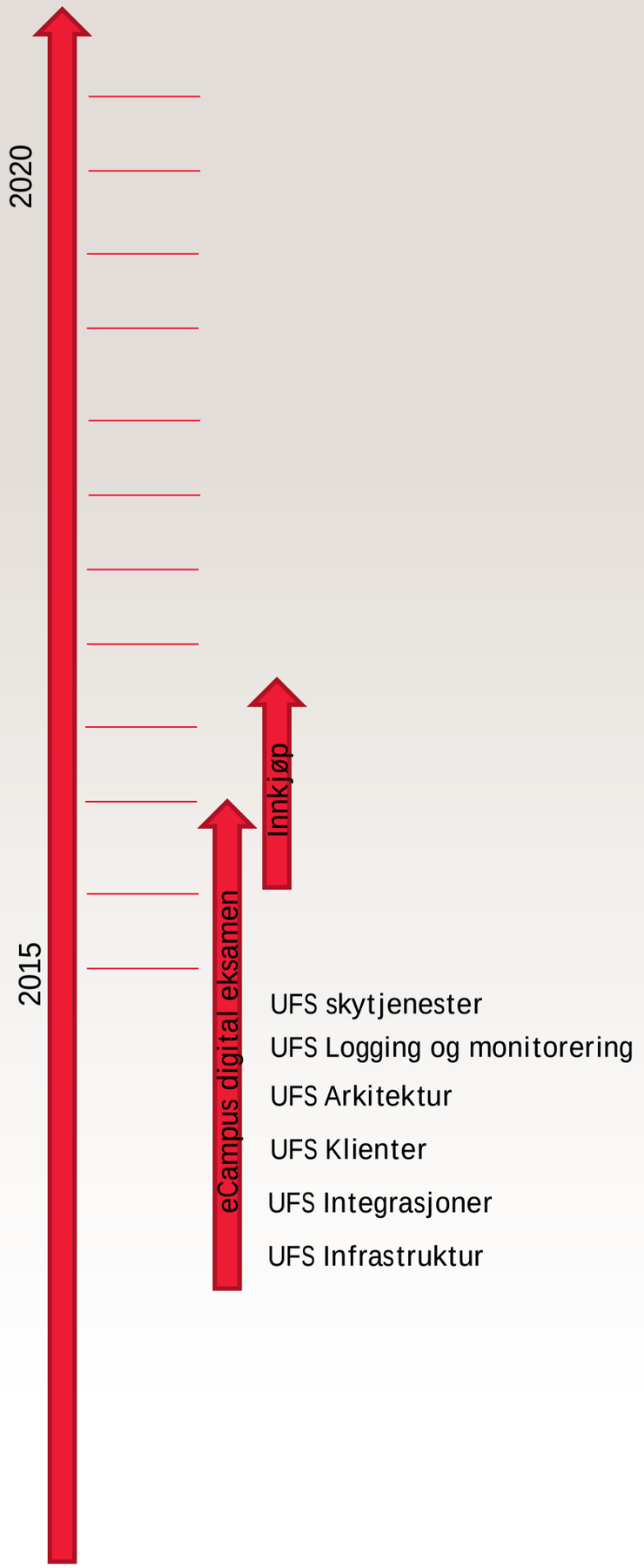
2020
2015
Innkjøp
eCampus digital eksamen
UFS skytjenester
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UFS Arkitektur
UFS Klienter
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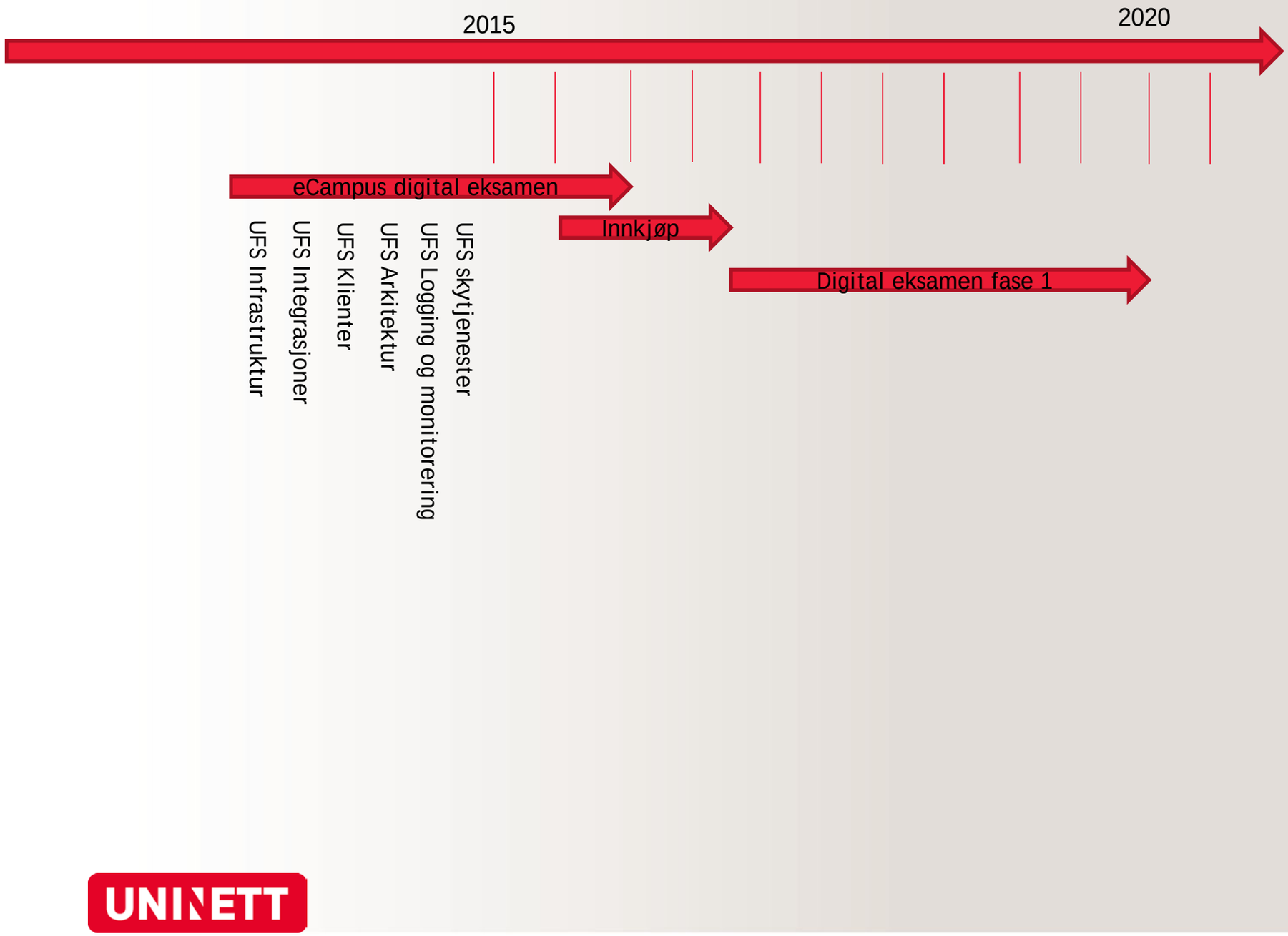
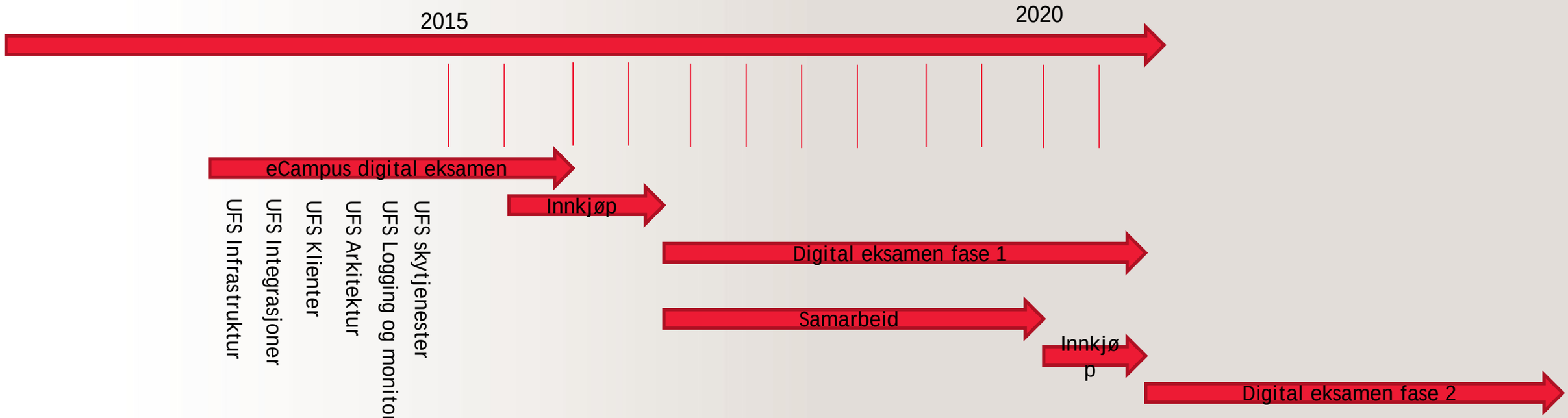

2015
2020
eCampus digital eksamen
Innkjøp
Digital eksamen fase 1
UFS Infrastruktur
UFS Integrasjoner
UFS Klienter
UFS Arkitektur
UFS Logging og monitorering
UFS skytjenester


2015
2020
eCampus digital eksamen
Innkjøp
Digital eksamen fase 1
Samarbeid
Innkjø
p
Digital eksamen fase 2
UFS skytjenester
UFS Logging og monitorering
UFS Arkitektur
UFS Klienter
UFS Integrasjoner
UFS Infrastruktur

A mature HE-sector and a mature market

https://www.uninett.no/digitaleksamen

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