

# NEWS FROM NORWAY

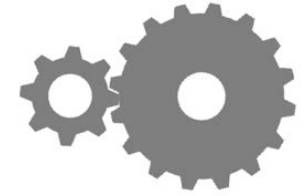
Nordforum digital alternative May 2020

UNIT – The Norwegian Directorate for ICT and Joint Services for Higher Education and Research



# Governance and Service Delivery

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- Helping the HE-sector **realize** the currently applicable **sectoral objectives** for research and higher education.
- **National coordination** and overall management responsibility in the ICT field. Governance of information security and data privacy.
- Implementing and **following up** the **strategies set by the Ministry** of Education and Research.
- **Portfolio management** of national development projects and joint services.
- Development and **management of** common **ICT architecture**
- Following up the **initiatives from the HE-sector** and other relevant actors, e.g. research institute and healthcare sectors.
- **System and service provider** (development and procurement)



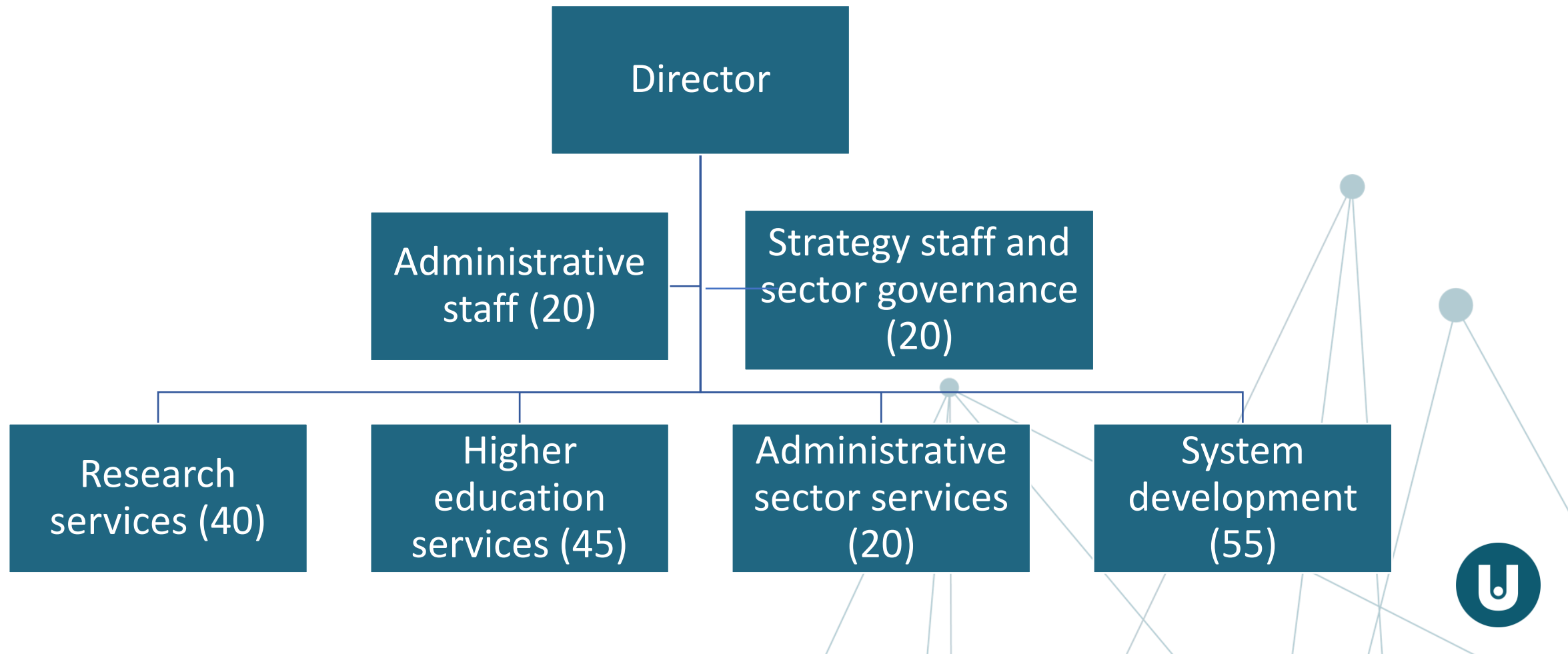
# Key figures

- 200 staff
- 2 locations
- 50 services
- 220 institutions
- 3 sectors
- €50 mill budget



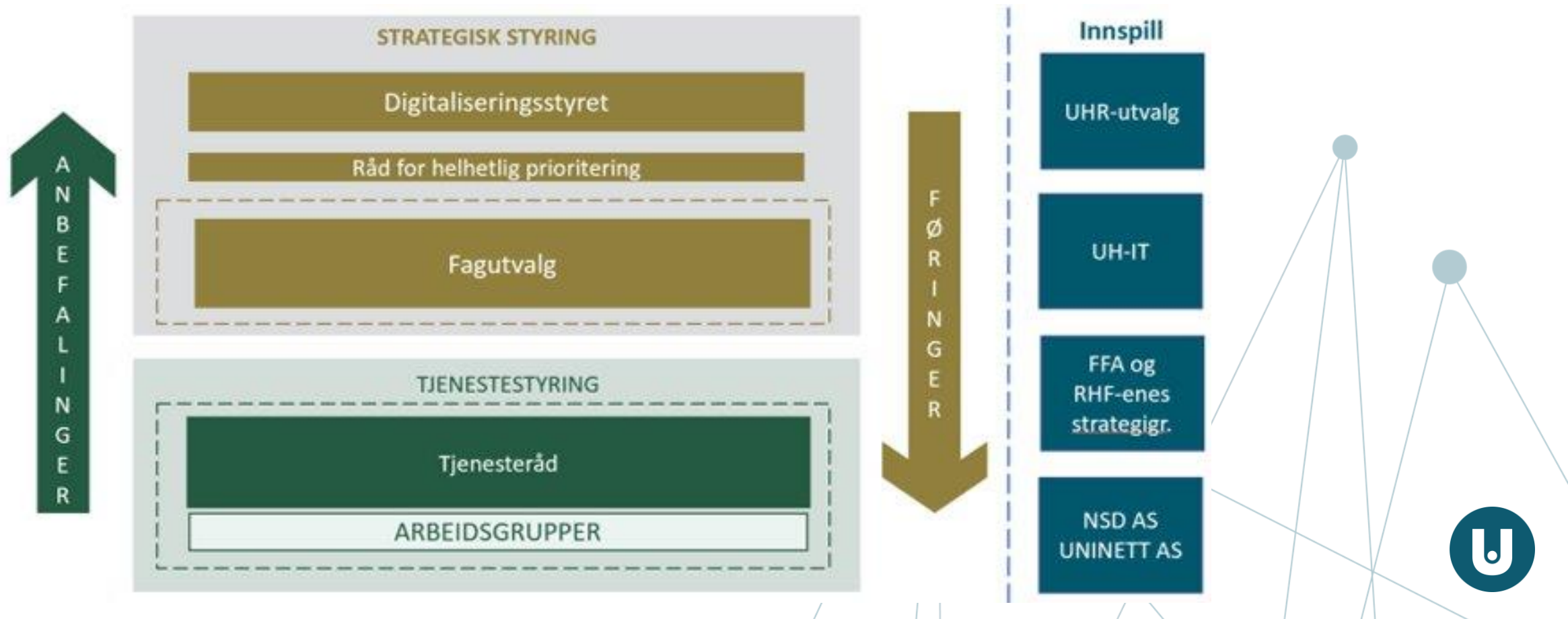
# UNIT – Organizational structure

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# National coordination of development projects

- New model for strategic governance and user involvement







Kunnskapsdepartementet

Strategi

## Digitaliseringsstrategi for universitets- og høyskolesektoren

2017-2021

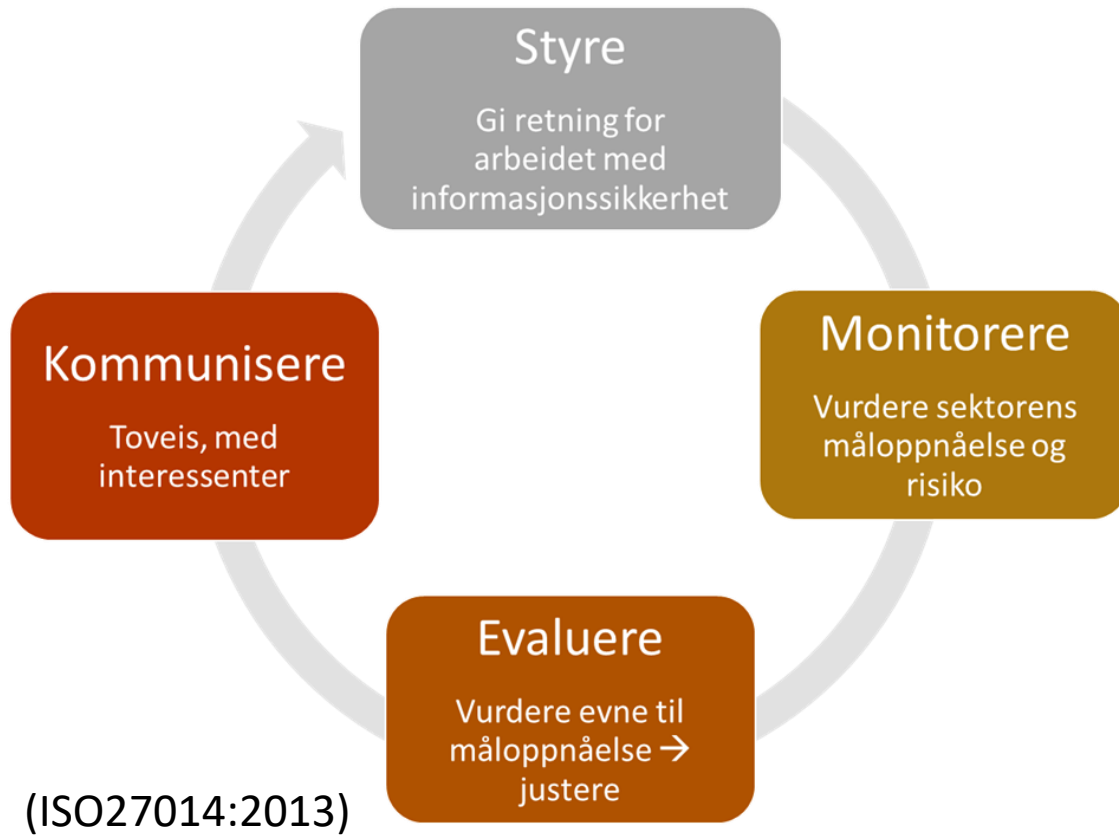


# Strategy for digitalization of HE-sector

The strategy states the need for **coordinated leadership of information security and privacy** on the institutional and on the national level as a condition for succeeding in obtaining the sector goals for the high quality in education and research.



# New national governance model for information security



## What's in it for the HEIs?

- **More clear direction** for HEIs work with information security in their systems and services through the sub-strategy and national policy for information security.
- **Planned implementation** of the strategy through an action-plan.
- **Closer dialogue and follow-up** between the HEIs, Unit and the Ministry.
- **Better and more accurate priorities** made by the Ministry.
- **Customized advice and guidance** for the HE-sector.

-> Direct -> Monitor -> Evaluate -> Communicate ->





Tilstandsvurdering av  
informasjonssikkerhet og  
personvern blant de statlig eide  
universiteter og høyskoler

Rapport 2019

# Annual report

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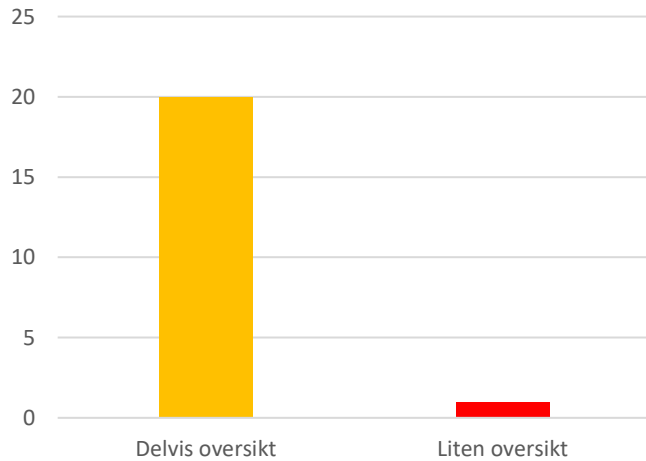
- Information values/ assest in HE-sector
- Threats and incidents
- Initiatives
- Key vulnerabilites/ challenges
- Risk assessment
- Recommendations



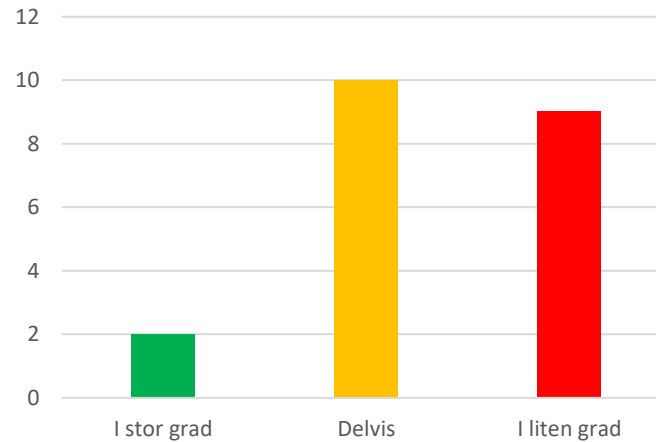


# Some findings...

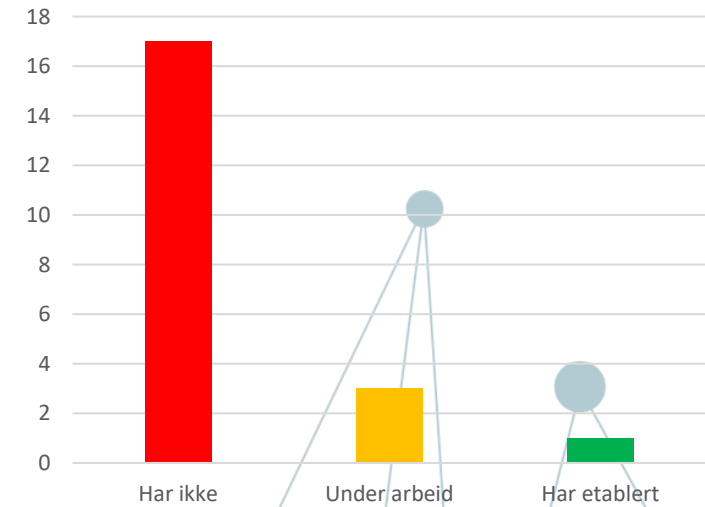
Oversight over information values (what should be protected)



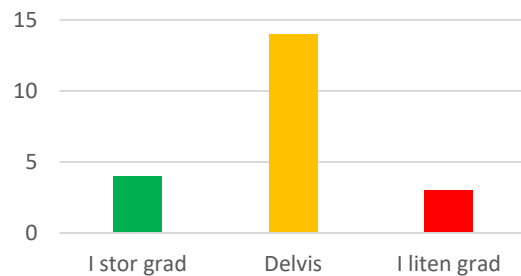
Established a management system for information security



Established continuity plans (handle ICT crisis)



Riskbased approach



# Recommendations (2019/2020)

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## Institutional level

- The HEIs give the tasks on information security and data privacy **top priority**
- The HEIs establish and implement the **ISMS**
- The HEIs get better **overview of the information/assets** they manage
- The HEIs establish **continuity planning**

## National level

- Clear and measurable **sector goals**
- **Requirements** for information security and data privacy in **procurement** processes
- Areas of focus: information security and data privacy in **research** and **teaching**.
- **Consultancy** service for the HEIs



# Unit and the HEIs in the times of Covid-19

- Implemented Zoom for all HEIs
- Developed national guidelines for GDPR for using video in education
- Increased the Uninett network capacity
- LOR: towards national coordination and sharing

## Digital utdanning

English



DIGITAL UTDANNING KORONA

### Hvordan minimere risiko ved digital eksamen?

Sist endret: 06.04.2020



DIGITAL UTDANNING KORONA

### Omlegging til digital eksamen

Sist endret: 31.03.2020



DIGITAL UTDANNING KORONA

### Videoundervisning og personvern

Sist endret: 20.03.2020



DIGITAL UTDANNING KORONA

### Covid-19: Nyttige ressurser for digital undervisning

Sist endret: 14.03.2020



DIGITAL UTDANNING KORONA

### Enormt trykk på digital undervisning

Sist endret: 13.03.2020

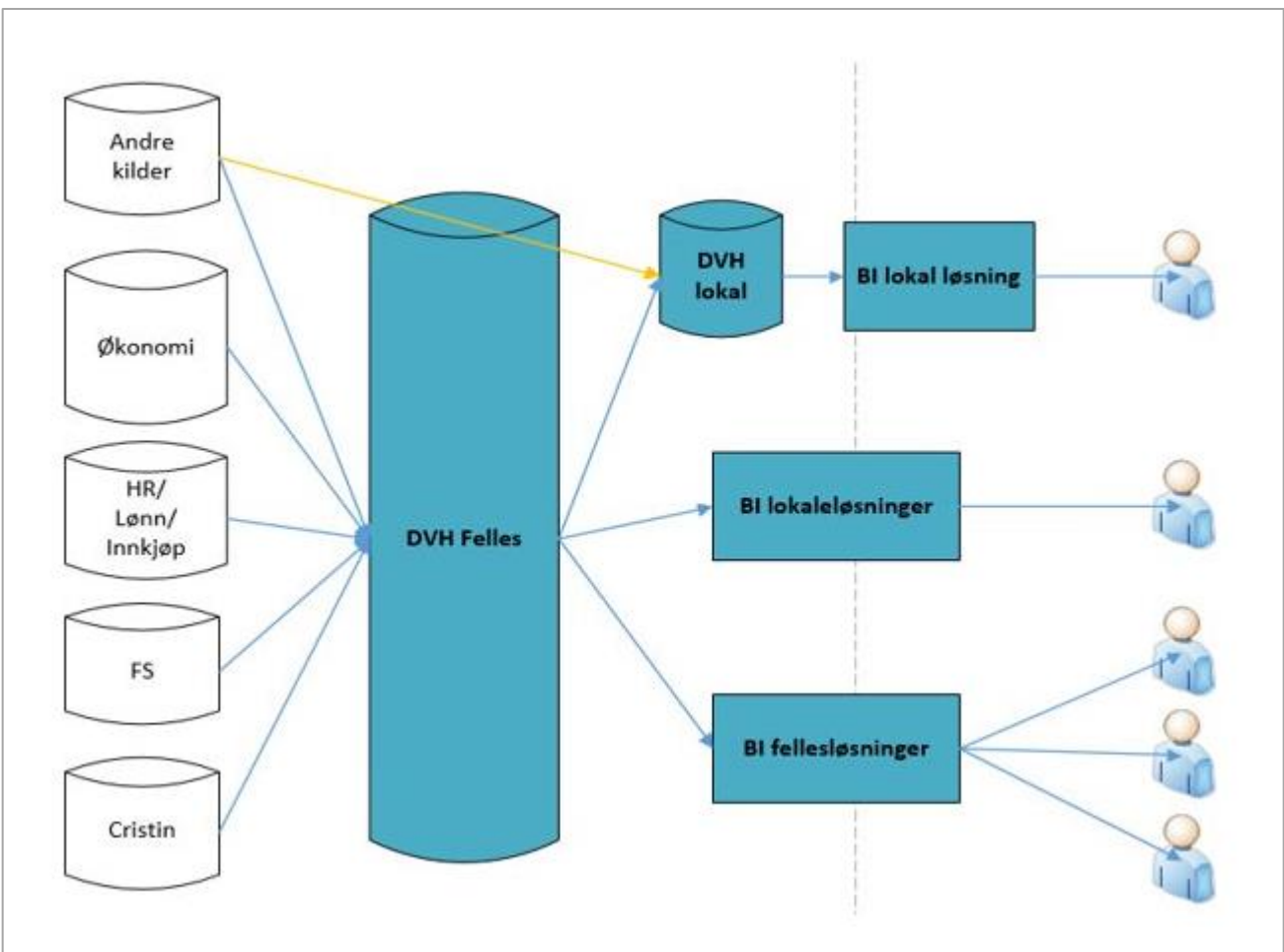
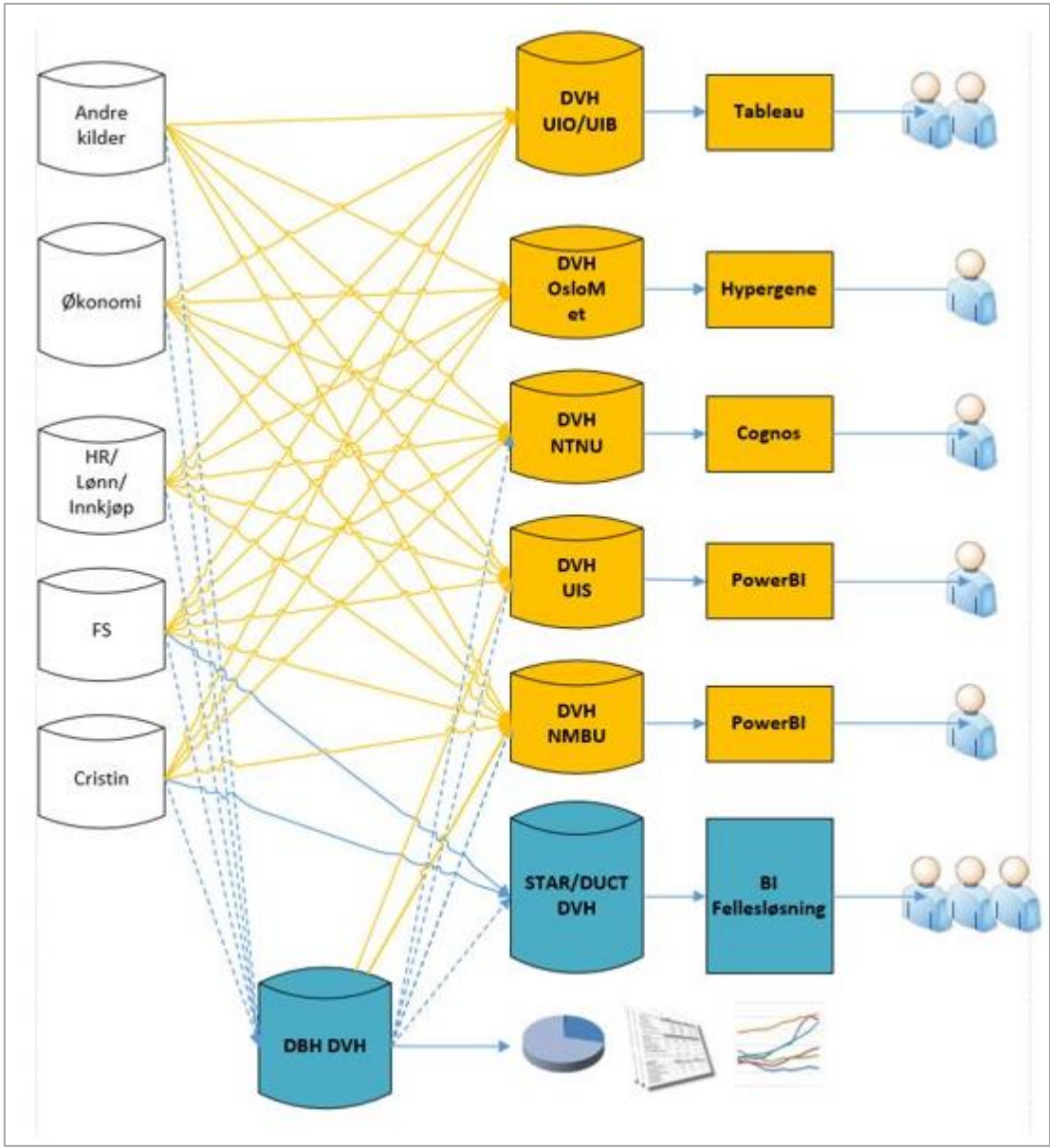


DIGITAL UTDANNING KORONA

### Koronaviruset: Anbefalinger og tiltak fra Unit for digital undervisning og eksamen

Sist endret: 11.03.2020

# New national data warehouse



# The use case

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*The manager needs to access data in the most important administrative areas; finance, payroll and purchasing, HR, studies and research in order to follow up his/her business.*

*The manager has **access to customized reports and analyzes that enable the manager to make data-driven decisions** for his / her business, as well as follow up his / her own business according to defined quantitative and qualitative indicators.*

*If needed, the manager, or the assistant can **develop new reports according to his or her institution's needs.***





# National framework for data sharing

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## Objective:

- Data is stored once and made available from one source

## Deliverables:

- Common frameworks for sharing data in higher education and research, including
  - technical common components,
  - interfaces with institution-specific components,
  - reference architecture.
- Governance model for the framework, including
  - processes for harmonization of the definitions
  - clarification of roles and responsibilities





# Some more national projects...

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- New strategy for digitalization
  - Focus on challenges and goals, not just the action plan
- New University Act
  - Legal base for data sharing, learning analytics, student mobility (personal data in standard contractual clauses)



## Advising council for Study administration

### Study- / studentadm.

WORKGROUP FOR  
STUDIEADM.

Expert group

Project group

Contact forum

User forum

### Admission

WORKGROUP FOR  
ADMISSION

Expert group

Project group

Admission leaders  
forum





# EVUweb



- EVUweb: Course registration for further/continuing education

- Brand new i 2020

- New technology (React, REST)



- Improved functionality

- Communication with applicants/students
- Registration for exam
- Course catalogue
- Payment
- Collect consent from applicants (GDPR)
- Identification using eIDAS eID, social media
- Handles courses orders by companies



# Integrations

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- New FS-API (Rest/Json)
  - Covering education, exams, study programs, ...
- Further development for digital exam
- Student id app
- Information on justification for grades and complaints on grades; Integration with archiving systems
- ELMO1.4-update (result exchange, EMREX)
- Support for third party actors



# Flyt



- In production from September 2019
- Support processes for executive work
  - Administrators
  - Teachers
- Processes
  - Recognition of external studies
  - Formal complaints on exams
- Connecting to
  - Student web
  - Archiving systems







# Fagpersonweb

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- Functionality for handling justification for grades and complaints on grades.
- Connected to the national eco system for digital exams.



# Digitalization of education and exams

- LMS - Canvas

- Common procurement for the HE sector
- In use by 90% of HEI's
- «Fully» integrated with FS

LMS  
Eksport:  J  
Rom-mal:

- Video service

- Zoom, Kaltura, Mediasite, LOR-service
- Common procurement for the HE sector

- Digital exam

- Common procurement for the whole sector
  - Inspera and Wiseflow
- Local exam systems
- Common eco system
  - National service bus
  - Standardized API's to connect to the eco system
- Managed from FS
  - System for digital exam
  - System for censorship
  - System for justification

Digitalt eksamenssystem:   
- sensursystem:   
- begrunnelse:



# Student mobility process

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- Pre-project on student mobility
  - Common processes
  - Common tools
  - Erasmus Without Paper
  - Other common EU building blocks?
- Project from January 2021
- EDSSI



# Other stuff

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- Handling new rules for web accessibility (WAD)

- WCAG2.1
- For students, applicants, nominations



- Student id app

- Renewed, iPhone and Android



- eIDAS eID

- Implemented in Student web and Application web



- Feide

- Updated national portal for identification
  - Education id (Feide, EduGain)
  - Id for all citizens (IdPortal, incl Bank Id)
  - eIDAS eID
  - Social media identity
- API manager
  - For single users to accept data exchange with third party app's
  - Machine to machine



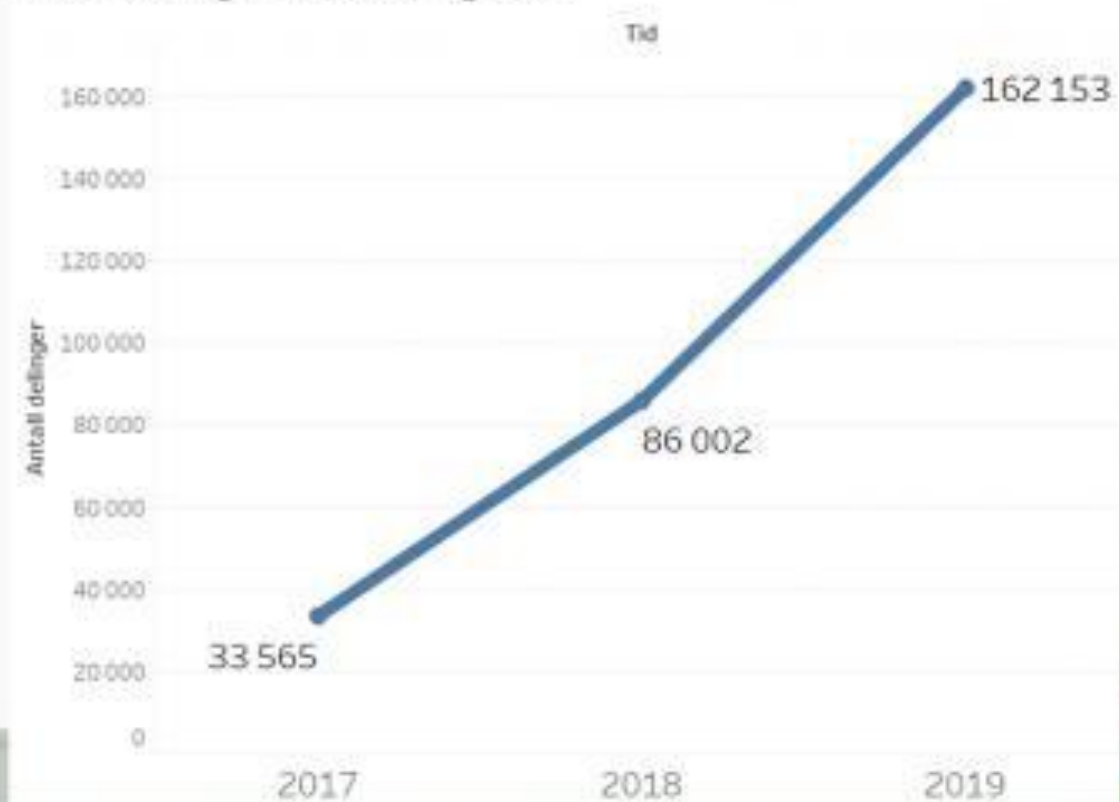
# Vitnemålsportal

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- ELMO 1.4
- Some work on Universal design and GDPR
- Ready for results from
  - Vocational higher education
  - Upper secondary school
- New HR- and recruitment systems connected (the EMREX way)
- Cooperation with other public entities for automation of processes
  - UDI, Sjøfartsdirektoratet, IMDI
- Cooperation the Confederation of Norwegian Enterprise (NHO)



## Antall delinger år utvikling total





# Digital Diploma

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- National working group
  - White paper December 2019
  - Hearing Spring 2020
  - Positive feedback from HEIs
- Planning for implementation



# International

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- Projects

- Erasmus Without Paper
- DigiRec
- ESMO
- Norwegian eIDAS eID implementation
- CEF - EDSSI?
  - European Digital Student Service Infrastructure
  - Follow up on EWP and more
  - Includes some EMREX stuff

- Other cooperation

- European Blockchain Partnership
- European Blockchain Service Infrastructure
- Europass – Digital credentials
- EMREX
- CEF European Student eCard DSI



# Gartner evaluation of FS eco system

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- Technical and function evaluation
- Including recommendation for further work
- To be presented for HEIs in May

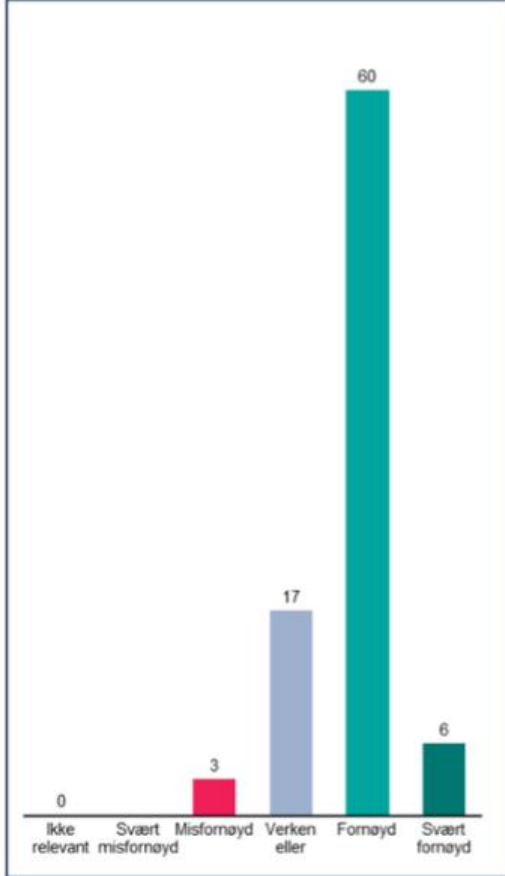


# Oppsummering fra brukertilfredshet brukergupper FS- /superbruker, fagperson og student

## FS-/superbruker (86 respondenter)

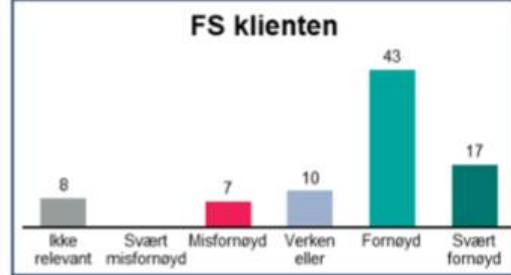
Hvor fornøyd\* er du med...

FS som helhet

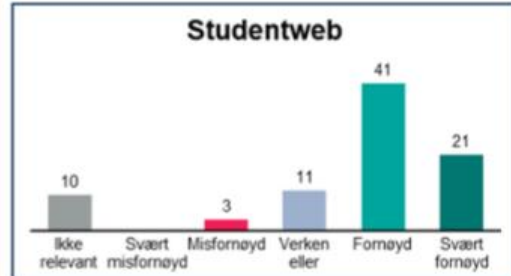


Topp 3 mest relevante applikasjoner

FS klienten



Studentweb



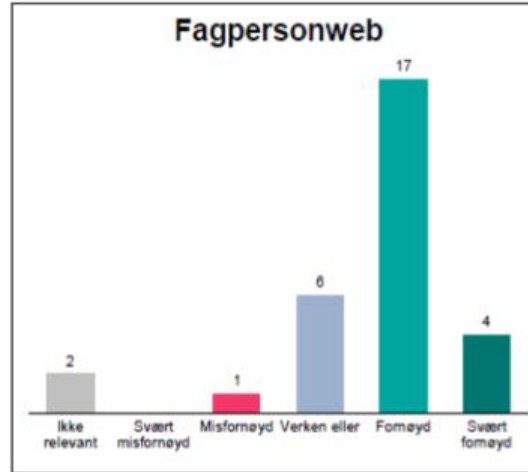
Vitnemålsportalen



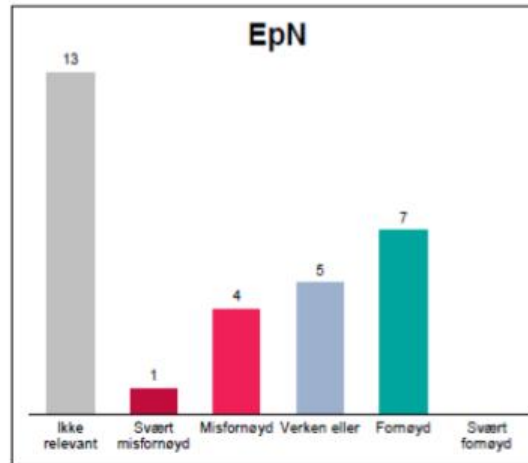
## Fagperson (30 respondenter)

Hvor fornøyd\* er du med...

Fagpersonweb



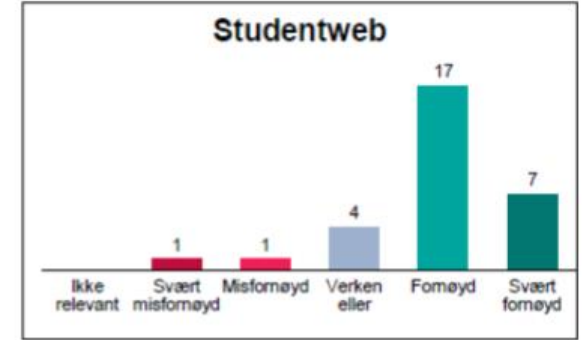
EpN



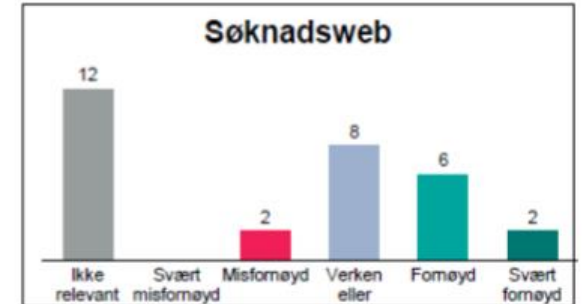
## Student (30 respondenter)

Hvor fornøyd\* er du med...

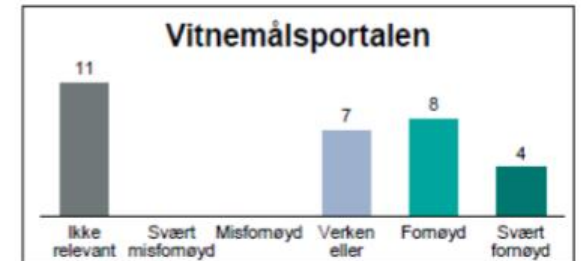
Studentweb



Søknadsweb

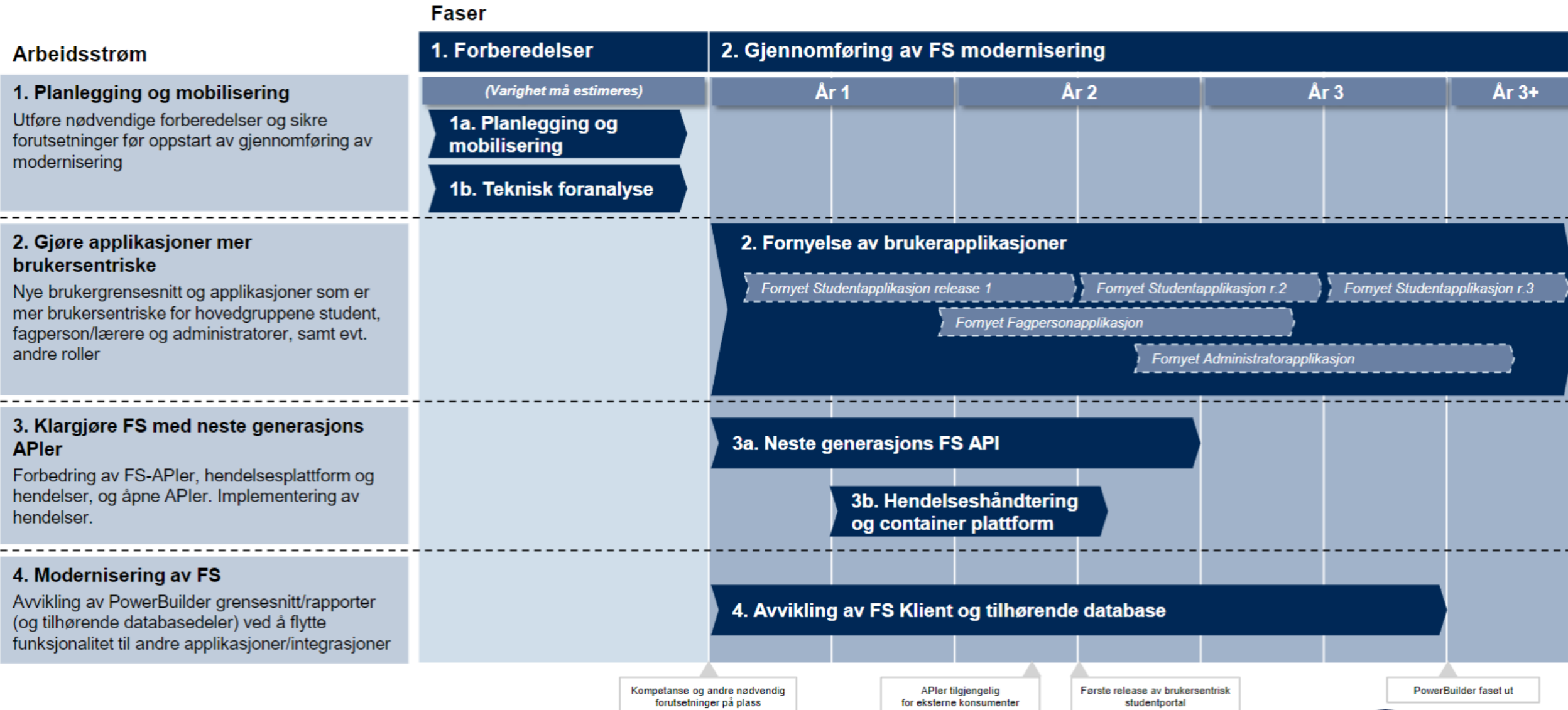


Vitnemålsportalen





# Treårig veikart for videre modernisering av FS mot målarkitekturen



Kompetanse og andre nødvendig forutsetninger på plass
APIer tilgjengelig for eksterne konsumenter
Første release av brukersentrisk studentportal
PowerBuilder faset ut



