



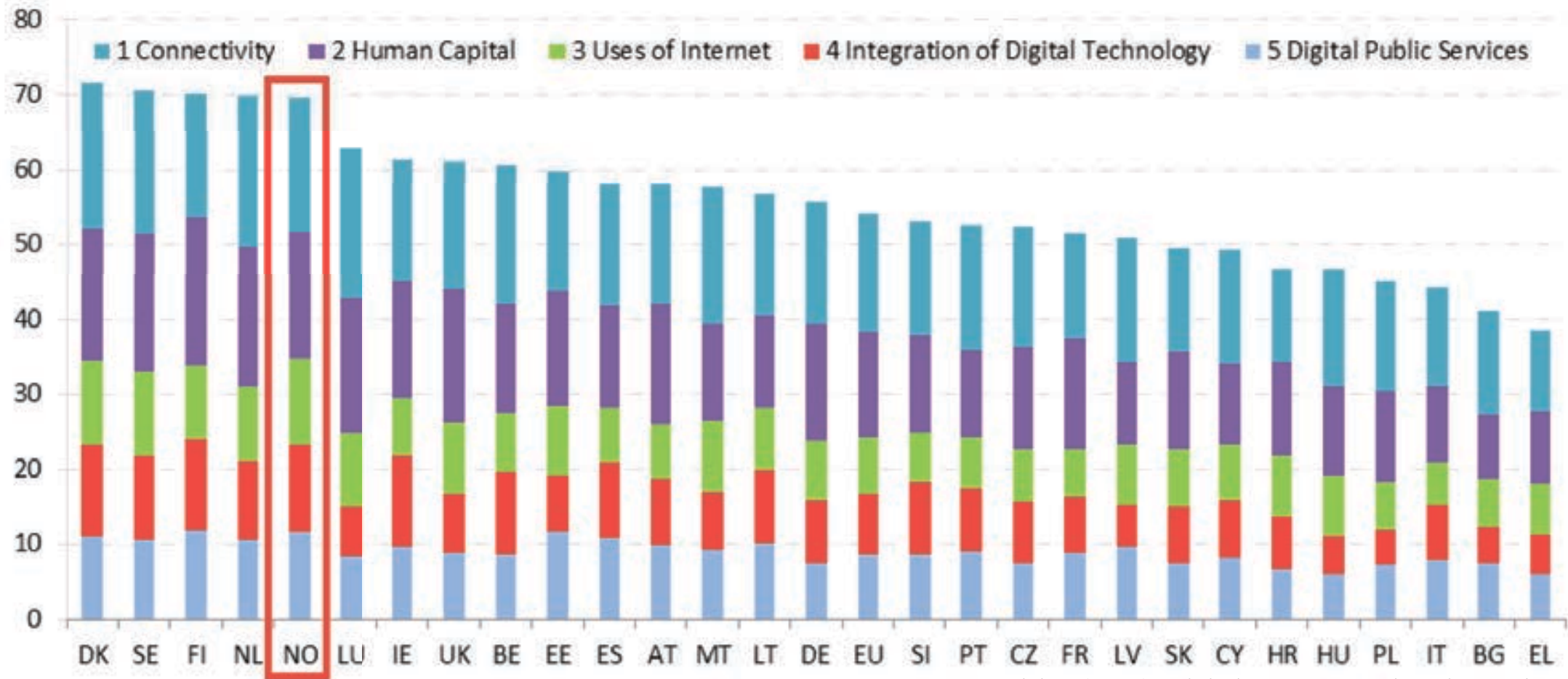
THE NORWEGIAN DIRECTORATE
FOR ICT AND JOINT SERVICES
IN HIGHER EDUCATION
AND RESEARCH

EUNIS IT Leader Forum, Trondheim, 4th of June 2019

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Digital Economy and Society Index (DESI) 2018 ranking



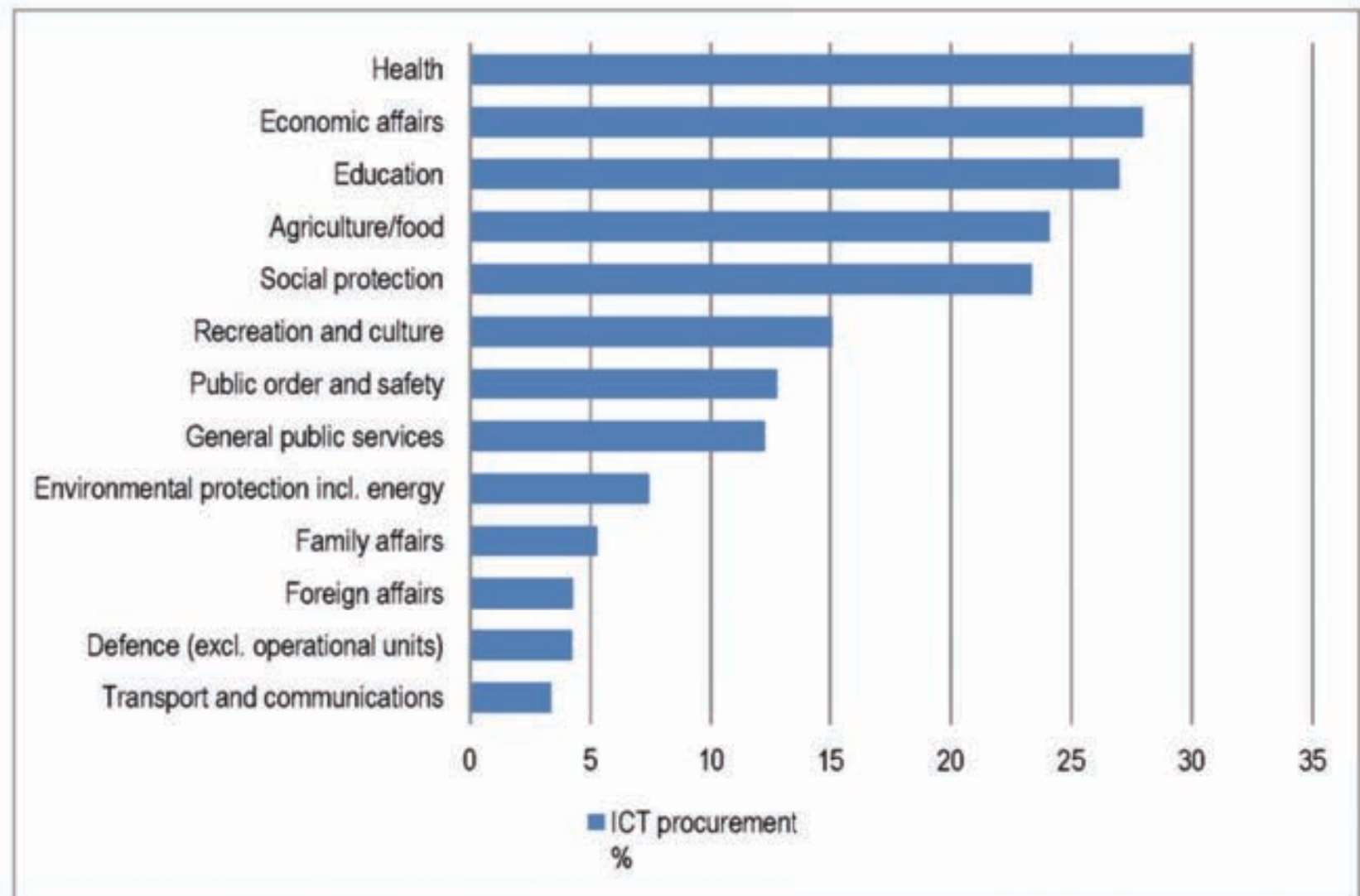
Source: European Commission (2018): Digital Economy and Society Index 2018, Country Report Norway

- Our mission: to be an innovative driving force for digitalisation
- Our vision: to digitalise a knowledge-based Norway
- How: we will utilize new technology to improve efficiency, quality and ensure access to knowledge.



Figure 3.1. ICT expenditures in Norwegian ministries

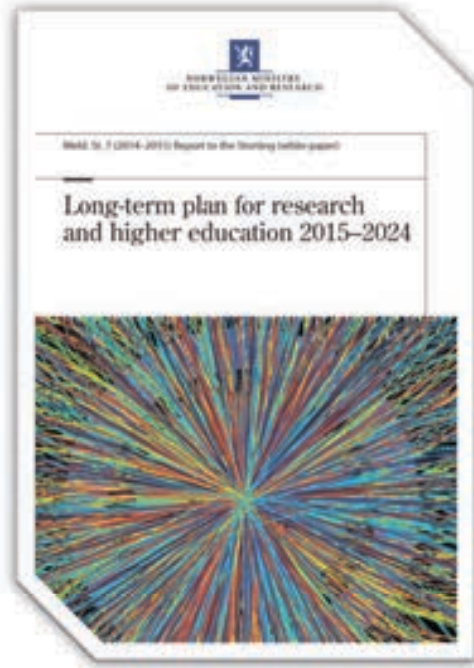
By individual ministry, in %



Source: OECD (2017a), "Digital Government Survey of Norway", central version, OECD, Paris. Based on the question, "Percentage of ICT procurement of the total procurement by individual ministry".

The challenge for Norway is to avoid fragmentation, leading to duplication and incoherence

LONG-TERM PLAN FOR RESEARCH AND HIGHER EDUCATION



NATIONAL DIGITALISATION STRATEGY FOR HE



The service agency will be responsible for ... digitalisation at the sectoral level and will be responsible both for implementing and following up the strategies and policies established by the ministry and for implementing and following up sectoral initiatives.

A fundamental condition for the administration of the service agency is that it has a clear mandate from the ministry to make decisions for the sector.

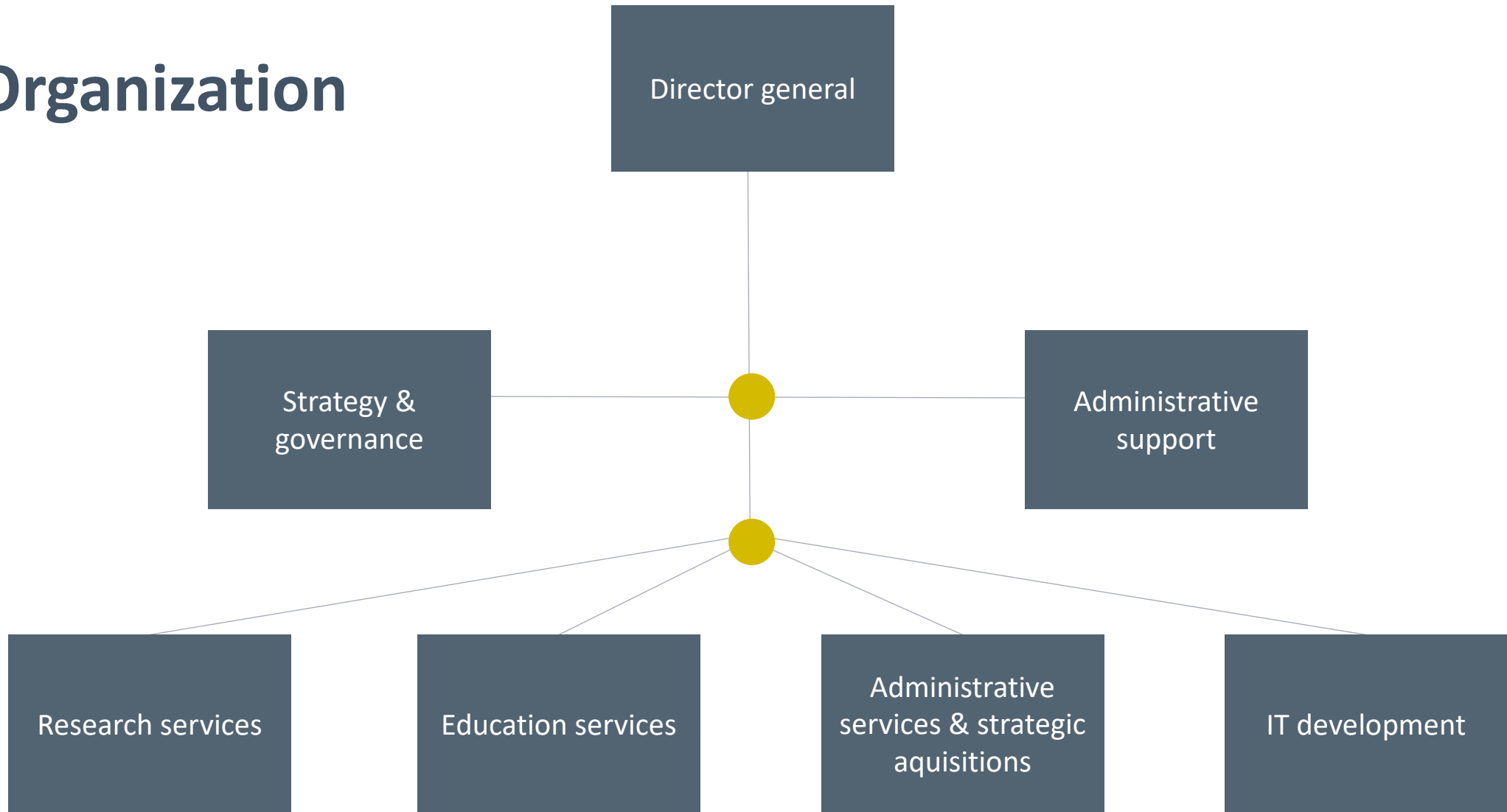
The greatest opportunities for realising benefits are expected to be found in the co-operation between the service agency and HEIs on shared solutions.

Unit: Key Figures

- Established 1st of January 2018
- Subordinate agency organised under the the Ministry of Education and Research
- 200 employees
- NOK 520 million budget
- Framework agreements for NOK 750 million/year
- Main office in Trondheim, branch office in Oslo
- Supporting 220 institutions in higher education, research and public service



Organization



Governance

- National governance model
- National portfolio management
- Strategic roadmaps
- Architecture management
- Information security at sector level

Service Delivery

- Education & learning
- Research
- Administration
- Infrastructure, Middleware and Data
- Information Security



30 YEARS OF EXPERIENCE WITH ICT SHARED SERVICES

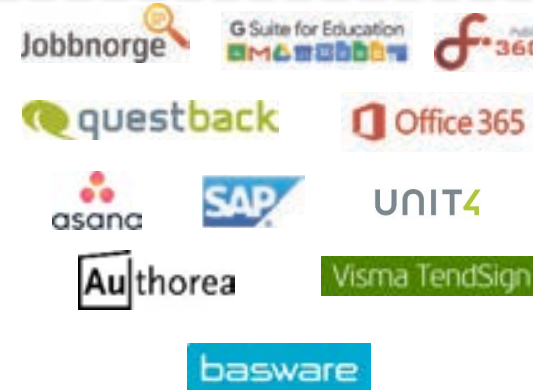
Education



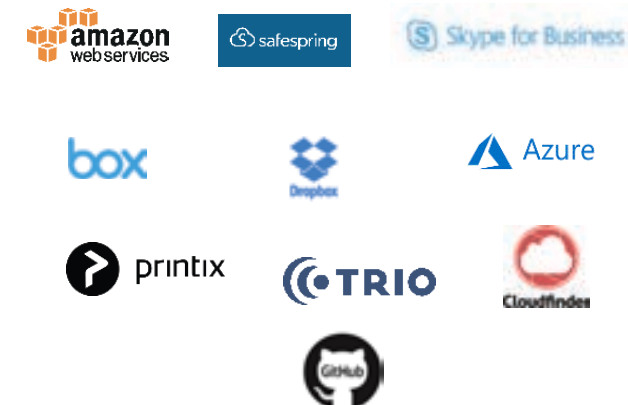
Research



Administration & Management



Infrastructure, middleware & data



International Collaboration



ICOLC
International Coalition
of Library Consortia



Digital student lifecycle



Application

Studies

Digital administration

After graduation

National
admission
system

LMS + tools
Digital exam

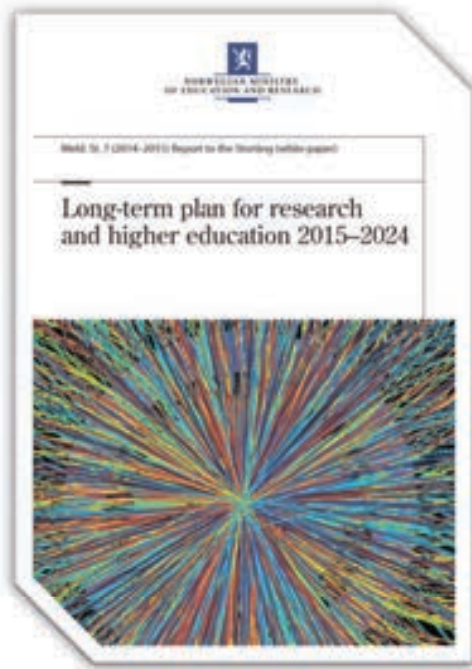
National student
system
Student web –
self service
Local application
and admissions

Digital transfer of
grades
EMREX –
international
exchange of
diplomas
Course planning

Infrastructure and basics; network, eduroam, Feide/eduGAIN, generic tools/applications

THE NATIONAL ACTION PLAN FOR DIGITALISATION

LONG-TERM PLAN FOR RESEARCH AND HIGHER EDUCATION



NATIONAL DIGITALISATION STRATEGY



NATIONAL ACTION PLAN FOR DIGITALISATION



THE PRIMARY GOALS FOR RESEARCH AND HIGHER EDUCATION *(as determined in the annual budget proposition)*

- High quality in education and research
- Research and education for welfare, value creation, and adaptation
- Good access to education
- An efficient, diverse, and robust higher education sector and research system

Digitalisation and ICT in the higher education and research sector must support these goals.



Action Plan for Digitalisation



EDUCATION



RESEARCH



MANAGEMENT,
AND SUPPORT
SERVICES



INFORMATION
SECURITY AND
PRIVACY



INFRASTRUCTURE,
MIDDLEWARE
AND DATA



MANAGEMENT
ORGANIZATION
AND FINANCE

Action Plan – Strategic principles

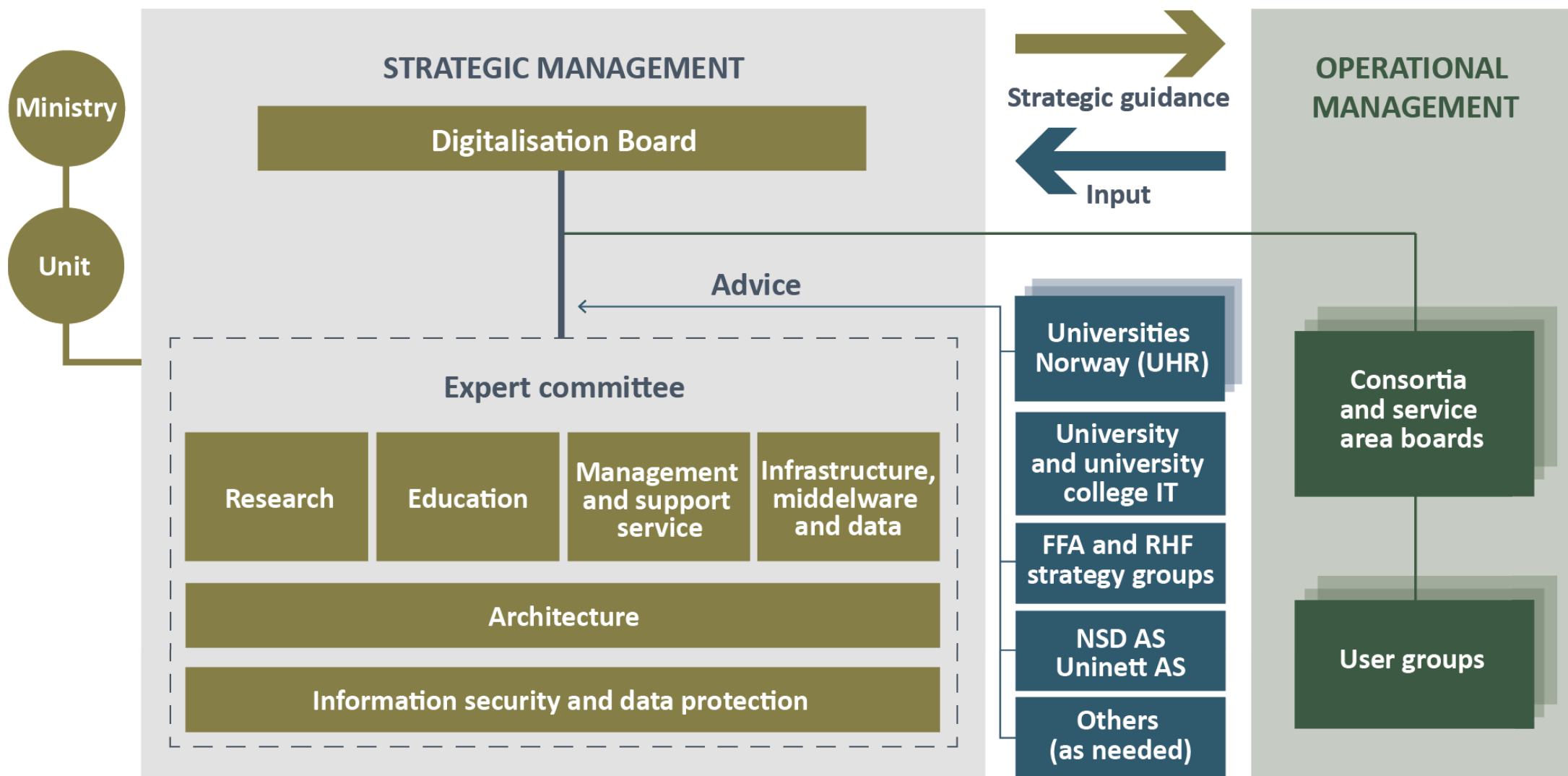
- User-centric approach.
- Think big, start small through flexible development. Prototyping and testing rather than reports.
- Data once-only: Store data just once and make it accessible for reuse.
- Privacy by design and security by design.
- Ensure access management to data and resources.
- Cloud first: Where there are no particular impediments to adopting cloud services, and such services offer the most practical, cost-efficient solution, the public sector should opt for such services.
- Active use of markets: public sector should not try to do itself what the market can do better and more efficiently.

We raise the bar through collaboration

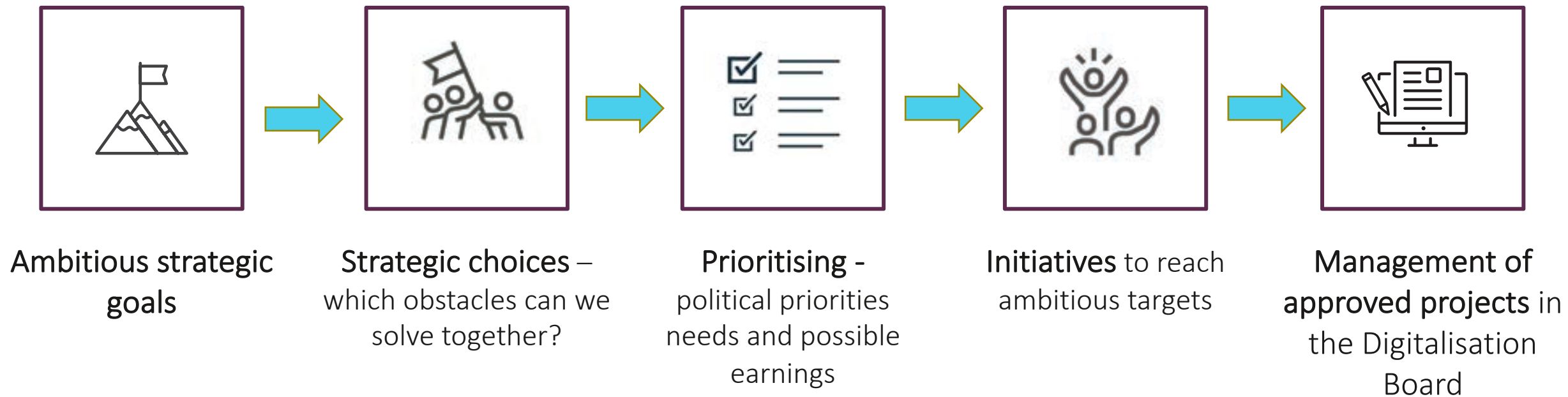


- Unit – The Norwegian Directorate for ICT and Joint Services in Higher Education & Research
 - Provides high level governance for shared ICT services
 - Can make decisions
- Digitalisation board
 - Provides user representation
 - Strengthens digitalisation nationally

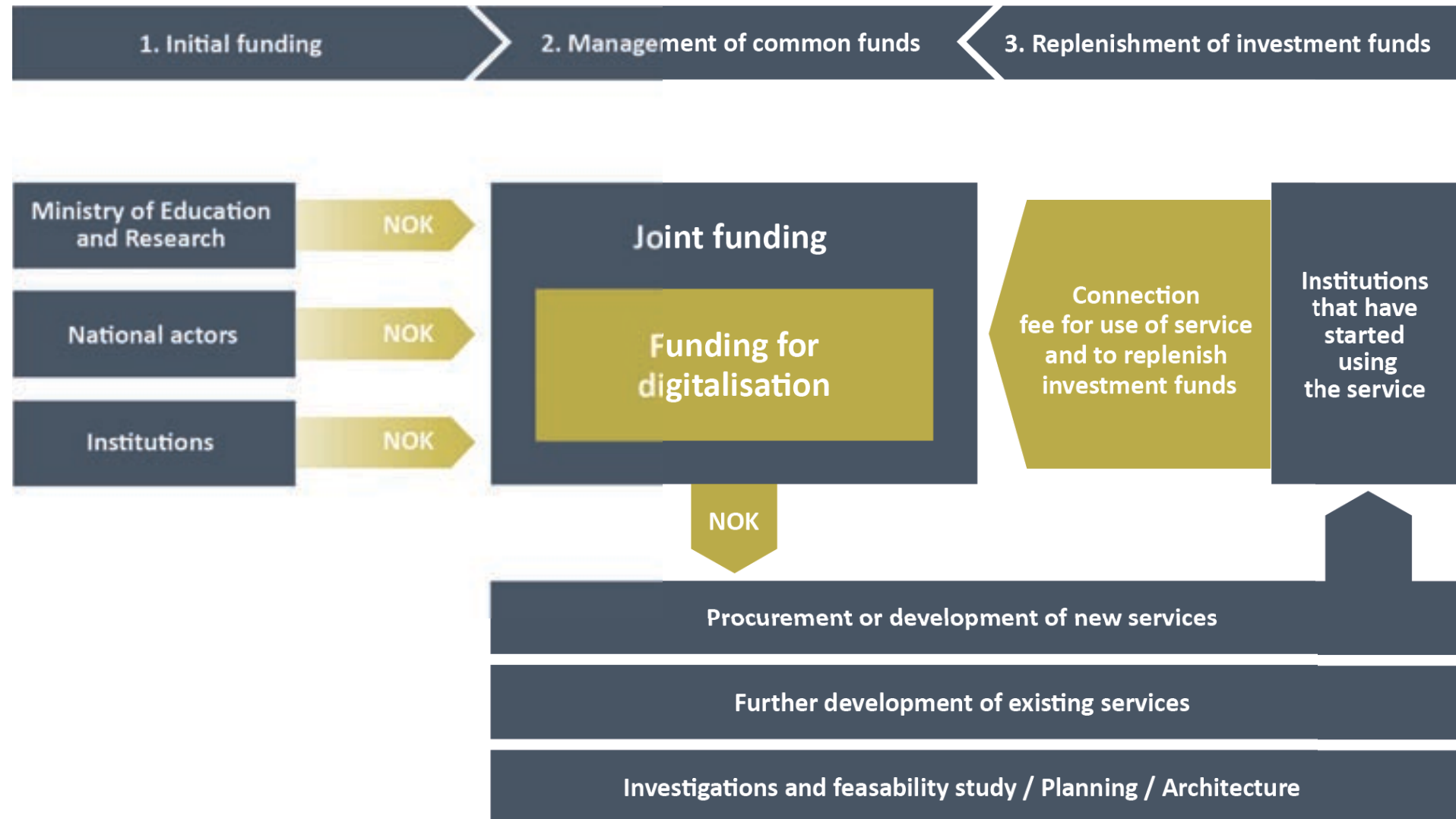
The national governance model



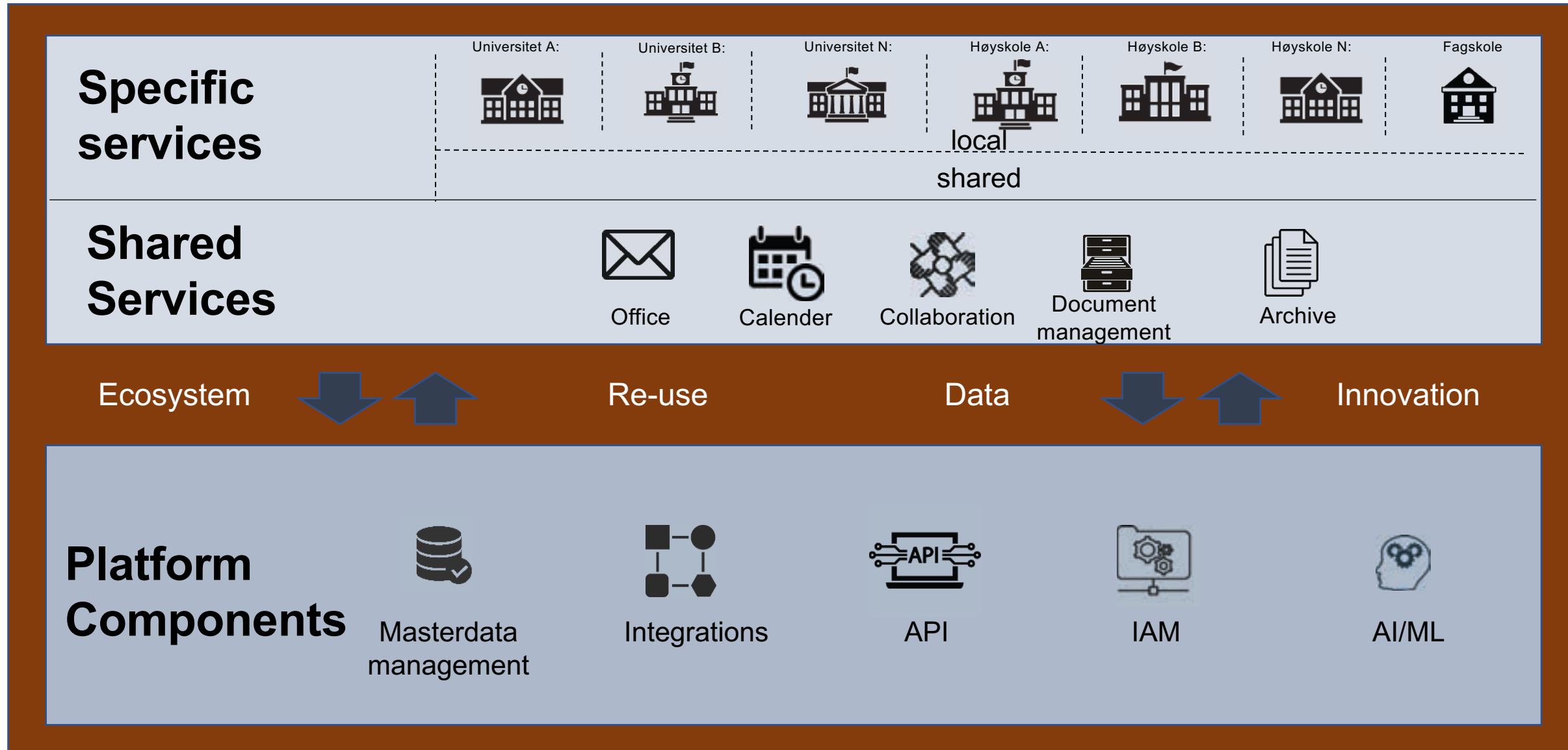
Strategic choices and prioritising of actions



Funding model for joint investments



DIGITAL TRANSFORMATION – FROM SERVICE ORIENTED TO ENABLING PLATFORMS



PRIORITISED AREAS

The foundation – the digital platform

- Infrastructure, middleware and data
 - Infrastructure for identity, access and data
 - Infrastructure for network, storage and computing
- Information security and privacy protection
 - Strengthen governance of information security and privacy in the HE sector
 - Establish joint detection and analysis capability, and advisory service for information security

Specialized services

- Education
 - Learning processes for the future
 - Student mobility
 - Simplify study administration and student admissions
- Research
 - Open Science
 - Simplify research administration
- Management and support services
 - Joint administrative services for the HE sector
 - Establishing technical solutions to enable decision-making support