The University of Southern Denmark

- a short introduction

SDU facts

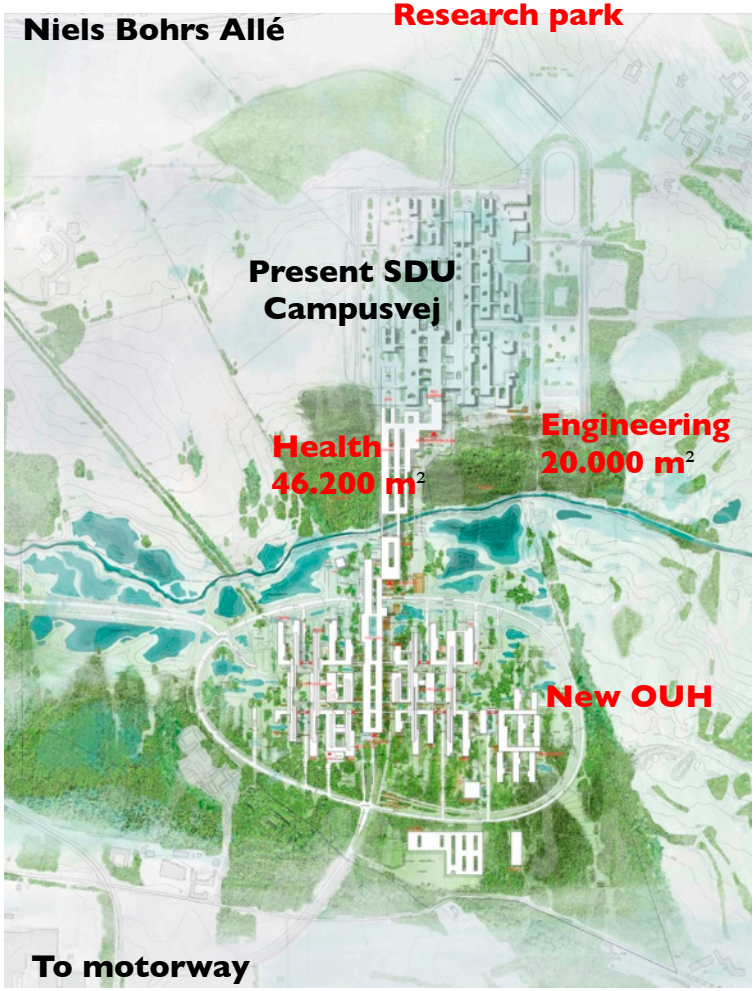
Etablished 1966. Merger of 4 partners in 1998.
Another 6 mergers since.

5 faculties: Engineering, Science, Health Sciences, Humanities, Business and Social Sciences

6 campuses – Odense is the main campus

Income, 2012:	351 mill. EUR
Academic staff, FTE, 2012:	1,973
Technical and adm. staff, FTE, 2012:	1,445
Students, no (oct. 2012):	26,034
(of which from other countries:	4,104)
Programs, no (bachelor + master):	222
(of which in English:	81)

Construction plans Campus Odense



Plans (with RED):

- Renovation of Lab.: 1 mill. Euro
- Construction Health: 0,8 mill. Euro
- Construction Eng.: 0,34 mill. Euro
- Research park
- 88.188 m²: 2,52 mill. euro for IT
- IT-infrastructure: 17 Euro pr. m²

CIO summary, SDU numbers 2012

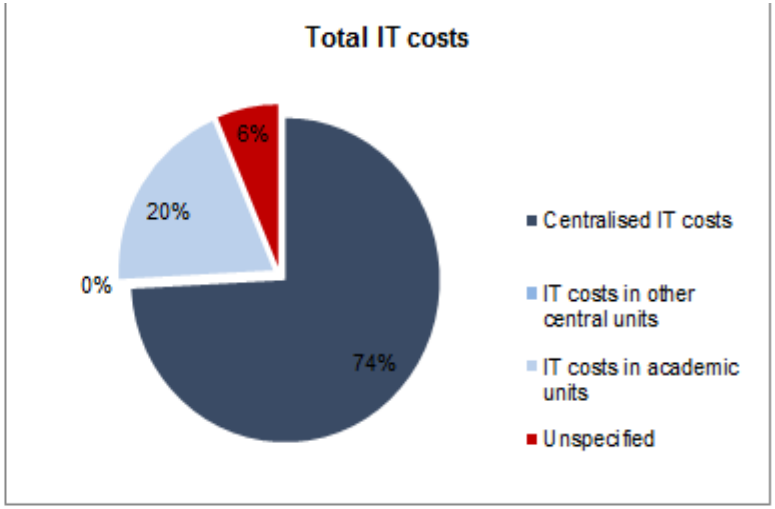
Summary of Bencheit questionnaire year 2012

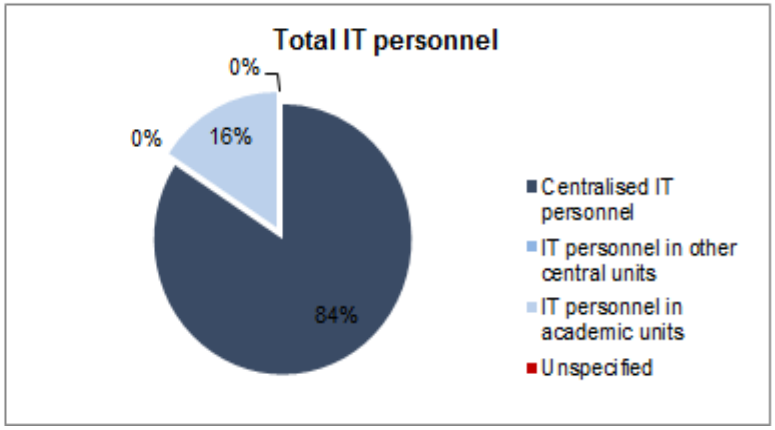
Organisation: University of Southern Denmark

Costs	1000 Euros	%
Centralised IT costs	10.653 t€	74,1 %
IT costs in other central units	0 t€	0,0 %
IT costs in academic units	2.794 t€	19,4 %
Unspecified	921 t€	6,4 %
Total IT costs	**14.368 t€**	**100,0 %**
IT share of institution budget	4,2 %	

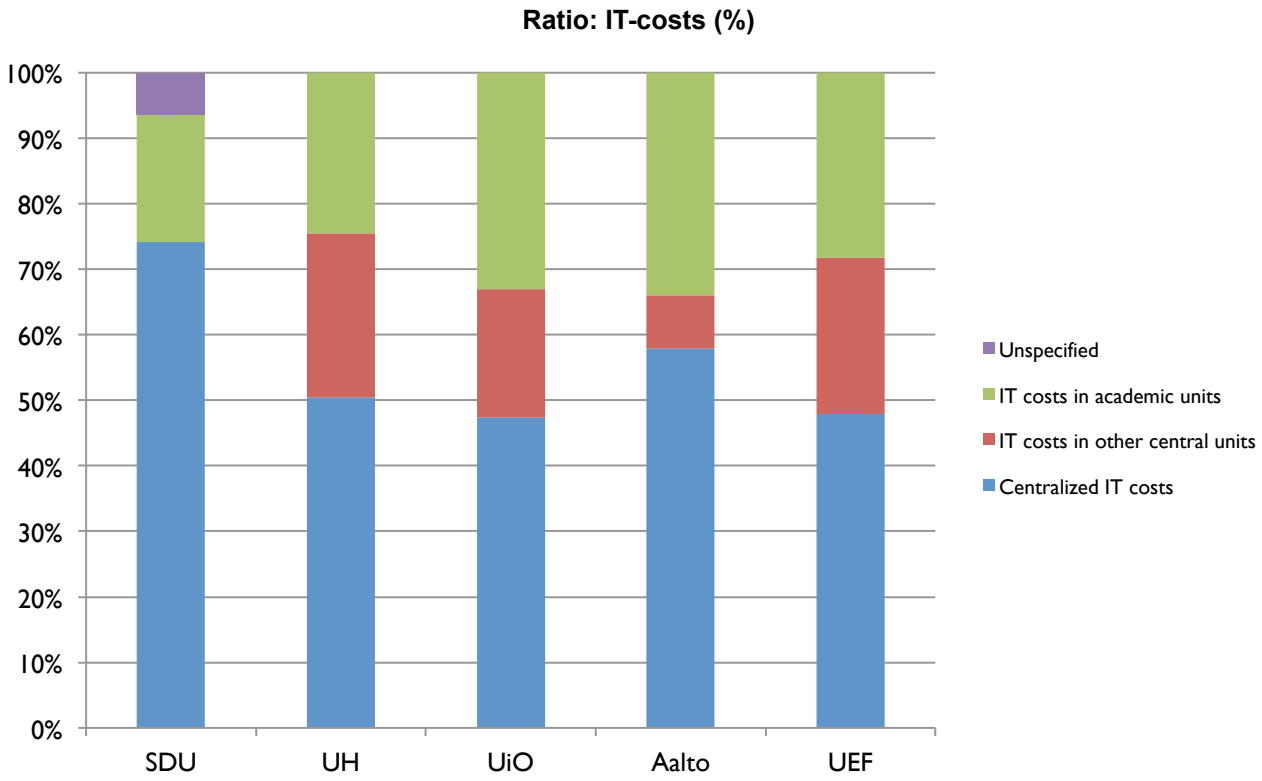
Personnel	FTE	%
Centralised IT personnel	109,4	84,2 %
IT personnel in other central units	0,0	0,0 %
IT personnel in academic units	20,5	15,8 %
Unspecified	0,0	0,0 %
Total IT personnel	**129,9**	**100,0 %**

Institution staff / IT (FTE)	26,0
Students / IT personnel (FTE)	177,1
User accounts / IT Personnel	423,4

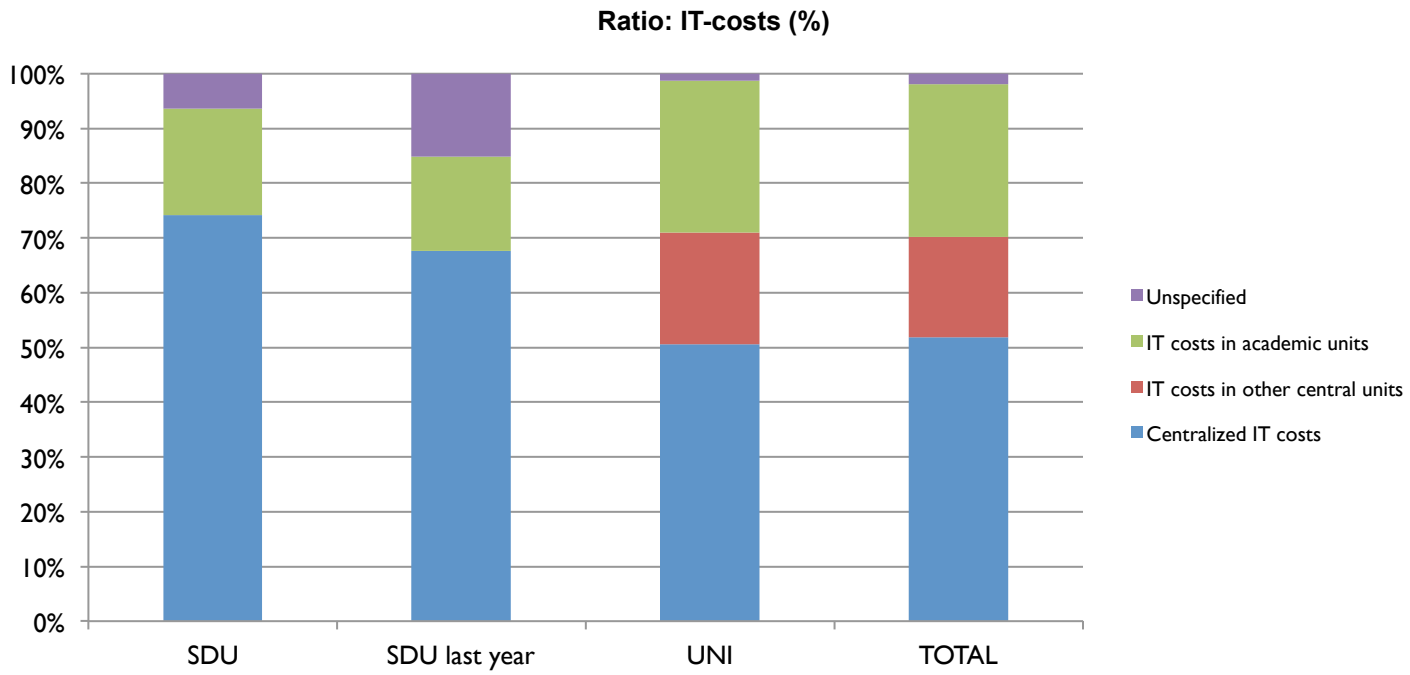




IT-cost compared with



Change for SDU from 2011 to 2012

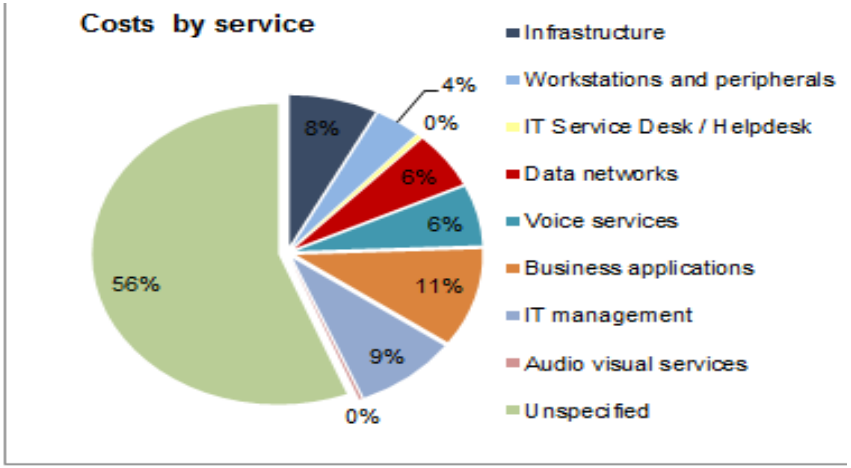


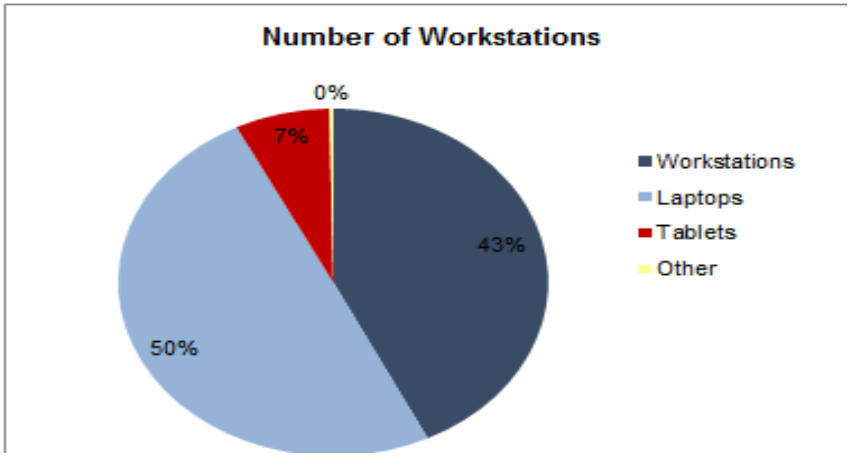
CIO summary, part II

Costs by service	1000 Euros	%
Infrastructure	1.093 t€	7,6 %
Workstations and peripherals	568 t€	4,0 %
IT Service Desk / Helpdesk	65 t€	0,5 %
Data networks	856 t€	6,0 %
Voice services	921 t€	6,4 %
Business applications	1.505 t€	10,5 %
IT management	1.282 t€	8,9 %
Audio visual services	30 t€	0,2 %
Unspecified	8.047 t€	56,0 %
***Total IT costs**	**14.368 t€**	**100,0 %**

Number of Workstations	#	%
Personal use	5922	76,3 %
Student classrooms	1343	17,3 %
Research laboratories	365	4,7 %
Other	131	1,7 %
Total # of workstations	**7761**	100,0 %

Per type	#	%
Workstations	3319	42,8 %
Laptops	3866	49,8 %
Tablets	555	7,2 %
Other	21	0,3 %
	7761	100,0 %





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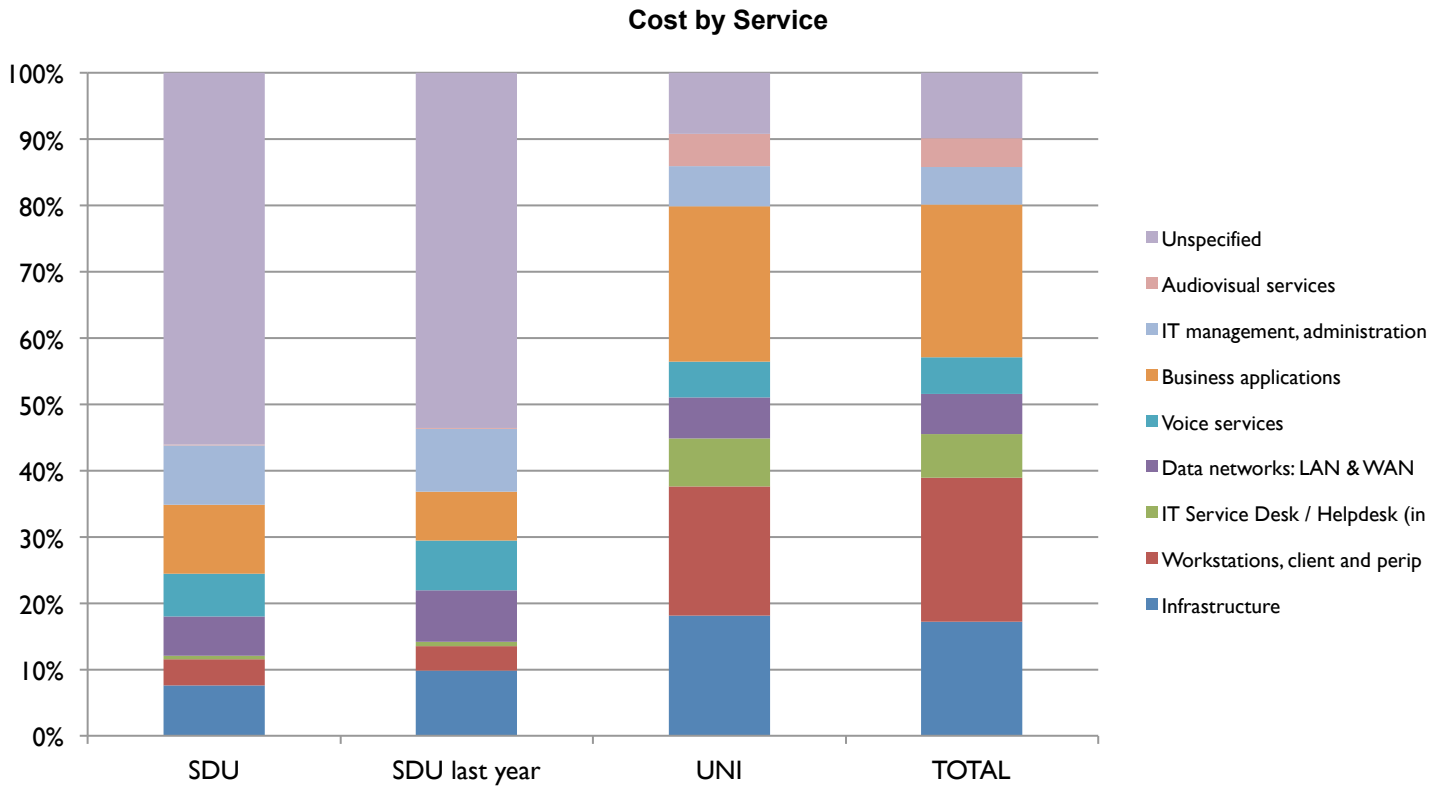

(Note: Unspecified SDU-costs ca. 8 mio. euro/60 mio. DKK include staff ex-penses ca. 6.3 mio. euro which have not been specified in relation to services, plus costs not specified in relation to account groups (see above), including running costs in other/academic IT-units (SFEO, TEK-IT): 1.070.000 euro/ca. 8 mio. DKK).

Cost pr. service

- Cost for voice service is 547.200 Euro for SDU.
- 100.000 Euro more than another comparable institution.

			Help texts	Grand total	Software €	Staff €	Facilities €	Outsourcing €	Other acc. group €
Help on/off: press +/-		Grand total		13.018.416 €	1.906.930 €	7.569.595 €	0 €	210.729 €	1.680.960 €
Service	Sub Service	Organisation Level							
		Unspecified org.level		0 €					??
Voice services			Look at subservices below	547.200 €	547.200 €	0 €	0 €	0 €	0 €
	Telephony		Include telephones, telephone exchanges, mobile phones, VoIP and all	547.200 €	547.200 €	0 €	0 €	0 €	0 €
		IT-centre		0 €					

- Implementing Microsoft Lync will bring down cost over 3 year.

Estimated cost for digital assessments

App. 1 mill. Euro pr. year for 75.000 digital assessments

5 fultime IT-supporter: 5 * 50.000= 300.000 Euro.
Studentemploye (TA): 66.000 Euro.
Technical solution: app. 100.000 Euro.
Inviligators/supervisors: 500.000 Euro.

Hidden cost:
Facility Mangement, exam rooms
IT-infrastructure (inital setup:1,6 mill. Euro)
Benefits:
No papers/copying, automation of workflow

What about benefit of digital assessments?

- On the basis of a conscious approach to active learning and activating teaching as well as E-learning, SDU has implemented digital assessments. There are many models in use at SDU, and because there is not just one model and one way to assess student there has been developed many IT-tools: multiple choice questionnaire (MCQ-test), e-Portfolios, exam with internet access, exam with some internet access.

Why digital assessments?

The quality of the assessment is traditionally measured according to the following criteria:

***Validity* – the assessment measures the content (knowledge, skills, competences) it is supposed to measure**

***Reliability* – the assessment is reliable – i.e. there is a consistent distinction between good and poor students**

***Feasibility* – the resources, which are required to conduct the examination, are present**

***Acceptability* – the assessment is widely accepted as being 'good' by students and faculty**

Why digital assessments II

The validity and reliability of an assessment is a function of the number of questions asked in the assessment – the more questions, the better.

Numerous questions ensure that the entire content is tested (*content validity*) and that the result is not determined by chance (which examination questions the student draws).

Digitisation allows you to ask and mark numerous of (for instance MCQ) questions and create exam databases across institutions and nations.

Benefit of digital assessments

In conclusion, we may assume that digitization will provide more opportunities to

- **test what we want to test (and not only what we are able to test)**
- **make the assessments more fair and reliable**
- **diversify and re-allocate the costs**
- **to meet the legitimate demand of using digital media – also in assessments.**

Q&A