It's not just about the amount, but also about the style.

“Preparing for B2015”

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BencHEIT – BM-survey

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BM2014 – Survey / Dimensions

- Infrastructure
  - Operative
  - HPC
- Workstations
- Printing
- IT Service Desk
- Data networks: LAN & WAN
- Voice services
  - Telephony
  - Phone calls
- Business applications
  - Finance
  - Human resources
  - Facilities
  - Communications
- Student administration systems
- Research administration
- Library
- Teaching
- Other
  - Unspecified
- IT management
  - Management
  - Information security
- Audio visual services
- Other or unspecified
BM2015 – Survey / Development ideas for BM2015

• Data centers
  – No need to make new questions

• High performance computing
  – No need to make new questions or changes

• Distributed computing
  – No need to make new questions or changes

**Number of major data centers**
**Number of small data centers**
**Total UPS power consumption**

**TFlop/s (peak) CPU**
**TFlop/s (peak) accelerators**
**HPC related storage volume**
**Number of cores**
**Total Power Consumption for HPC (kW)**

**Number of workstations for distributed computing on average**
**How many CPU cores can be used for distributed computing**
BM2015 – Survey / Development ideas for BM2015

• Should we …?
  – "Ask, how many of physical servers is used to run virtual servers"
  – "Include an chart showing the division of server types"

• Telecoms – suggestions for indicators:
  – Calling and data costs
  – Other tools of communication (Skype etc.)
  – Total number of connections / Staff FTE
  – Mobile device cost / Mobile connection
BM2015 – Survey / Development ideas for BM2015

• Should we …?
  – "Separation of consultant from permanent staff in their own column"
    Permanent FTE | Consultant FTE
    Permanent staff costs | Consultant costs

  – include cloud storage to volume data?
    • "The results are probably not very accurate"
    • "Cloud storage could be included only if we buy IAAS"

  – use "Outsourcing"-category in volume data
    • "Tempting but also challenging..."
BM – Comparison 2012-2014 / Notes

- Data is only from those institutes which participated 2012-2014
- Facilities costs excluded*
- Cash flow based*

# of participants in comparison

- Finland
- Norway
- Sweden
- Denmark

IT costs* of participants in
Million €

- 2012
- 2013
- 2014

UAS

UNI

14

10

1

2

2

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BM – Comparison 2012-2014 / Operational and IT-costs

Total operational costs

- Tech UNI
- Multi UNI
- UAS
- >250 M€
- 250-100 M€
- <100 M€

IT costs*

- Tech UNI
- Multi UNI
- UAS
- >250 M€
- 250-100 M€
- <100 M€

*Remarks! Facilities costs excluded, investments included
BM – Comparison 2012-2014 / Share of IT-cost from total costs

IT costs per Total operational costs of institution

- 2012: 6.50%
- 2013: 6.00%
- 2014: 6.00%

Only universities

- 2012: Finland - 5.50%, Norway - 6.00%, Sweden - 5.50%
- 2013: Finland - 5.00%, Norway - 5.00%, Sweden - 5.00%
- 2014: Finland - 4.50%, Norway - 5.00%, Sweden - 4.50%

Remarks! Facilities costs excluded, investments included
BM – Comparison 2012-2014 / IT-costs by organizational level

Universities only! Classified by total operational costs >250M€>100M€>

Remarks! Facilities costs excluded, investments included
BM – Comparison 2012-2014 / IT-costs per ECTS credit

Remarks! Facilities costs excluded, investments included
BM – Comparison 2012-2014 / IT-costs per FTEs

Remarks! Facilities costs excluded, investments included
BM – Comparison 2012-2014 / Workstation types

Remarks! Universities = Multi + Tech

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VAT

– In business, *input VAT* included in selling price is compensated by the value of the *output VAT*.
– VAT is different in different countries and also within different services/products.
– In Finland VAT is fully compensated to universities by state, except if university is making 'business'. Universities of applied sciences has not had this compensation before 2016.
– In Norway VAT is not compensated, except if making 'business'.
– In bookkeeping VAT is always hold separate from actual prices of products and services.

➤ VAT is not considered as an IT-cost in BM-survey
Investment

– A purchase of a product which is not consumed immediately.

Depreciation

– A method of allocating the cost of a tangible asset over its useful life.
– Different products has different life cycle.
– Organizations can choose the length of the life cycle within limits.
– Organizations can decide what is the lowest price between a costs and investment.
– There are several types of depreciation methods.

Cash flow

– Representing the operating activities of an organization.

BM-survey is using cash flow method
BM – survey → Know your numbers!

Thank you!

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BM2014 – Survey / Participating organisations

- Aalto University (FI)
- Abo Akademi University (FI)
- Arcada University of Applied Sciences (FI)
- Aristotle University of Thessaloniki (GR)
- Diaconia University of Applied Sciences (FI)
- Ernst-Abbe-Fachhochschule Jena - University of Applied Sciences (DE)
- Fontys University of Applied Sciences (NL)
- HAAGA-HELIA University of Applied Science (FI)
- HAMK University of Applied Sciences (FI)
- Helsinki Metropolia University of Applied Sciences (FI)
- Jyväskylä University of Applied Sciences (FI)
- Kajaani University of Applied Sciences (FI)
- Karelia University of Applied Sciences (FI)
- Lahti University of Applied Sciences (FI)
- Lapland University of Applied Sciences (FI)
- Lappeenranta University of Technology (FI)
- Laurea University of Applied Sciences (FI)
- Linköping University (SE)
- Luleå University of Technology (SE)
- Norwegian University of Science and Technology (NO)
- Oulu University of Applied Sciences (FI)
- Royal Institute of Technology (SE)
- Saimaa University of Applied Science (FI)
- Satakunta University of Applied Sciences (FI)
- Savonia University of Applied Sciences (FI)
- Seinäjoki University of Applied Sciences (FI)
- South-Eastern Finland University of Applied Sciences Ltd (FI)
- Stockholm University (SE)
- Tampere University of Applied Sciences (FI)
- University of Eastern Finland (FI)
- University of Gothenburg (SE)
- University of Helsinki (FI)
- University of Jyväskylä (FI)
- University of Lapland (FI)
- University of Ljubljana (SI)
- University of Münster (DE)
- University of Oslo (NO)
- University of Southern Denmark (DK)
- University of Stavanger (NO)
- University of Tampere (FI)
- University of Tromsø - The Arctic University of Norway (NO)
- University of Turku (FI)
- University of Vaasa (FI)
- Vaasaen Ammattikorkeakoulu, University of Applied Sciences (FI)