BencHEIT process in Aalto University – Power BI reports

27.11.2018 Arto Malinen
Agenda

- Introduction and background
- BencHEIT in Aalto: past – present – future
  - Observations
  - Development ideas
  - IT cost dimensions
- Power BI reports
- Target state for BencHEIT at Aalto
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Application engineering roles @ Texas Instruments, 2004-2014

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Aalto University at a glance

About 12000 Students (FTE)

A staff of about 4000 of which 400 are professors.

37% of all academics are international.

Aalto University was established in 2010 as three leading Finnish universities, the Helsinki School of Economics, Helsinki University of Technology and the University of Art and Design Helsinki, were merged.

Today, Otaniemi campus is going through massive changes as schools are relocating to Otaniemi, ARTS in 2018 and BIZ in 2019.

Digital Transformation – Towards European Leadership
BencHEIT process at Aalto

Aalto has been participating in BencHEIT survey since 2011
• In 2018, for BM2017 data collection, the core team was changed
  • Learn process, identify painpoints and seek opportunities for automation

Observations made during the process
• Provides a **snapshot of the IT assetts** and insights on **yearly IT spend**
• Seen as **tedious** process; carried out **manually**, triggers the inventory
• Too tight schedule, **occurs during budgeting season**
• Seen as an extra work, **lack of motivation** – the benefits are not clear to people involved in the process
• **Data is spread around** (and managed manually) causing **variations in the data quality**
• Survey Excel sheet is splitted and combined too many times, manually
BencHEIT process observations

Observations made during the process

• **Service categories** are defined well enabling benchmarking on a general level, but current systems do not provide an easy way to **assign the correct category for financial/FTE data**
• **FTE definitions for IT work** are not clear
• Tracks **cash flow**, investments need attention during cost analysis
• Survey does not track **development vs maintenance** costs
• Tracks where costs occur, not who benefits/utilizes
• Does not track **the quality of the IT services**
• For some figures **headcount** would be more appropriate than FTE
• **Connection between volumes** and costs is missing
• Question/Concern: **Are we comparing apples to apples?**
Development ideas

• **Increase automatization!**
  • Data sources connected directly to our data warehouse
  • Automated Bencheit categorization with mapping tables and Machine Learning
  • Automated PowerBI reports

• **Clarify the benefits of the survey** to improve the motivation and increase the quality of the data

• **Define the roles and responsibilities of the virtual team**
  • **Alleviate the process** – review instead of create the data
  • Align the activities with annual clock to **optimize the workload**

• **Improve ways of working** to enable automated processes

• **Utilize results** to provide insights for budgeting
Dimensions of the IT costs

- Organisation
  - IT Centre
  - Other Centralized
  - Distributed
- Accounts
  - BENCHEIT
  - Account groups
- Services
  - Services
  - Sub-services
- Follow-up Targets
  - Run vs Grow
  - Development
  - Production
- Suppliers
  - Strategic
  - Mid-range
  - Small

Data input levels – mapping tables
- Cost center
- Account
- Object
- Project
- Comment
- Receipt Number
- Supplier

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PowerBI - reports
Comparing inside Aalto
Finance and FTE (high level)
Volumes – Workstation, Printers, WLAN, Voice
IT service figures
Comparing to other Higher education institutions by using PowerBI

Sample about future development
Country, year and services selected
BencHEIT growth
Target state for BencHEIT at Aalto

**Data utilisers**
- Regular meetings

**Data producers**
- Normal operative work
- Data quality

**Operative information resources**
- Invoicing
- Accounting
- Repository
- CMDB
- Facilities
- xRM
- Sharepoint/Excel
- Service Catalog
- Master data management
- Accounting
- Organisation

**Automated reports**
- Self-Service

**Data platform and Data warehouse**
- Information marts
- Information processing
  - Categorization
  - Machine Learning
- Raw Data

**BencHEIT Virtual team:**
- Annual clock-based operation
- BencHEIT survey at Aalto
- Data analysis and assurance
- Reports and Dashboards

**BencHEIT survey form**

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