

# Moving a Decentralized Public University to the Cloud

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# University of Umea, Sweden

- Large public university, 4.400 staff and 31.500 students
- 60% research, 40% education. Turnover €430 Million
- IT-department 200+ FTE
- Responsible for large national system development - admission and student documentation
- 2 x 20 GB/s external internet
- Shadow IT, approx. 75 FTE



# University of Umea, Sweden

- Anarchy and weak leadership
- We are talking about herding cats ....
- Shadow IT is present and allowed



# Why move to cloud data centers?

- (Better) Availability – Scalability – Redundancy
- Price
  - Cut costs
  - CAPEX to OPEX
- Infrastructure security
  - Proven thru time, audits and certifications



# Legal issues

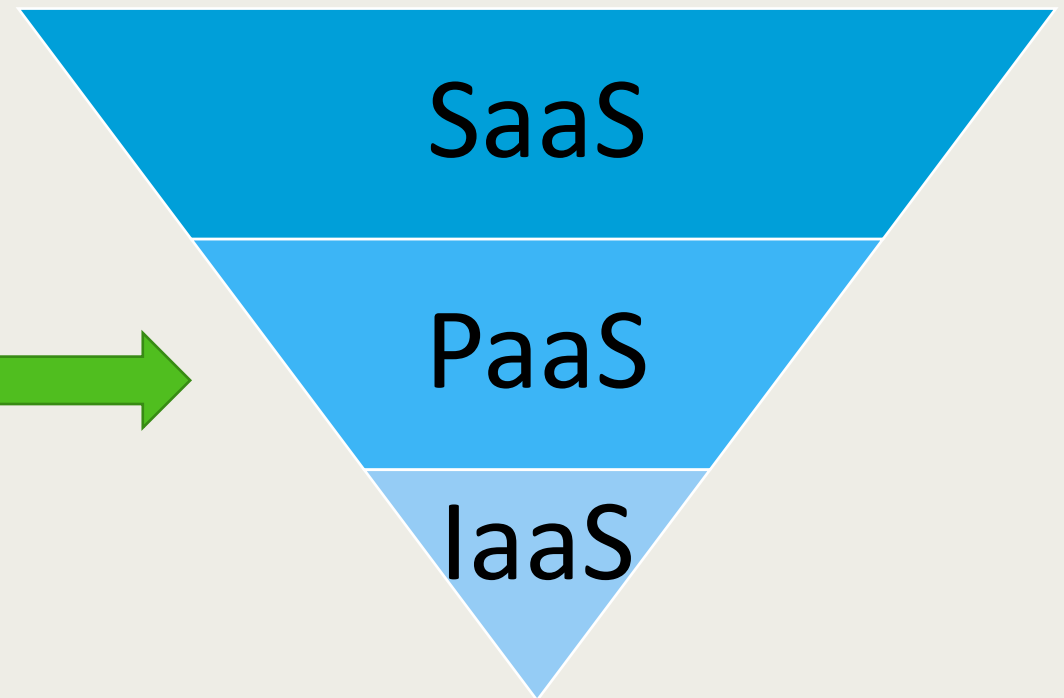
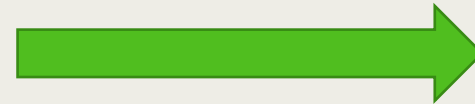
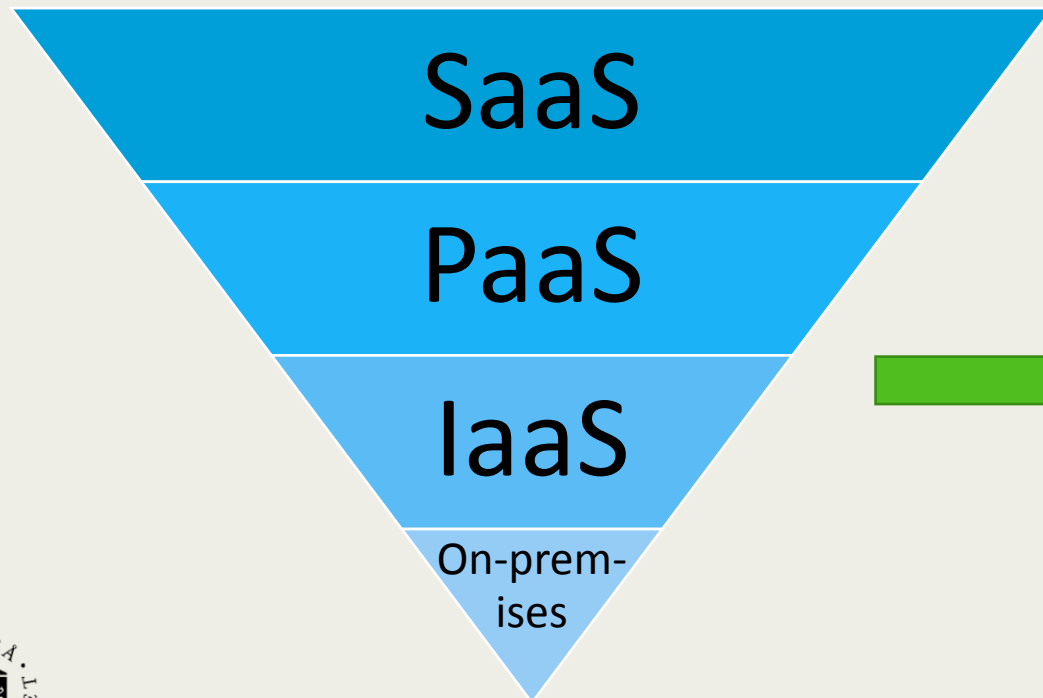
- The University is responsible for our users (personal) information
- The Data Inspection Board's guidelines for Cloud services
  - Legality check
  - Risk and impact assessment
  - Processor agreement
- Data inspection can impose fines
  - Five years back in time!



# Cloud first strategy

Traditional

Objective



# How to deal with changes?

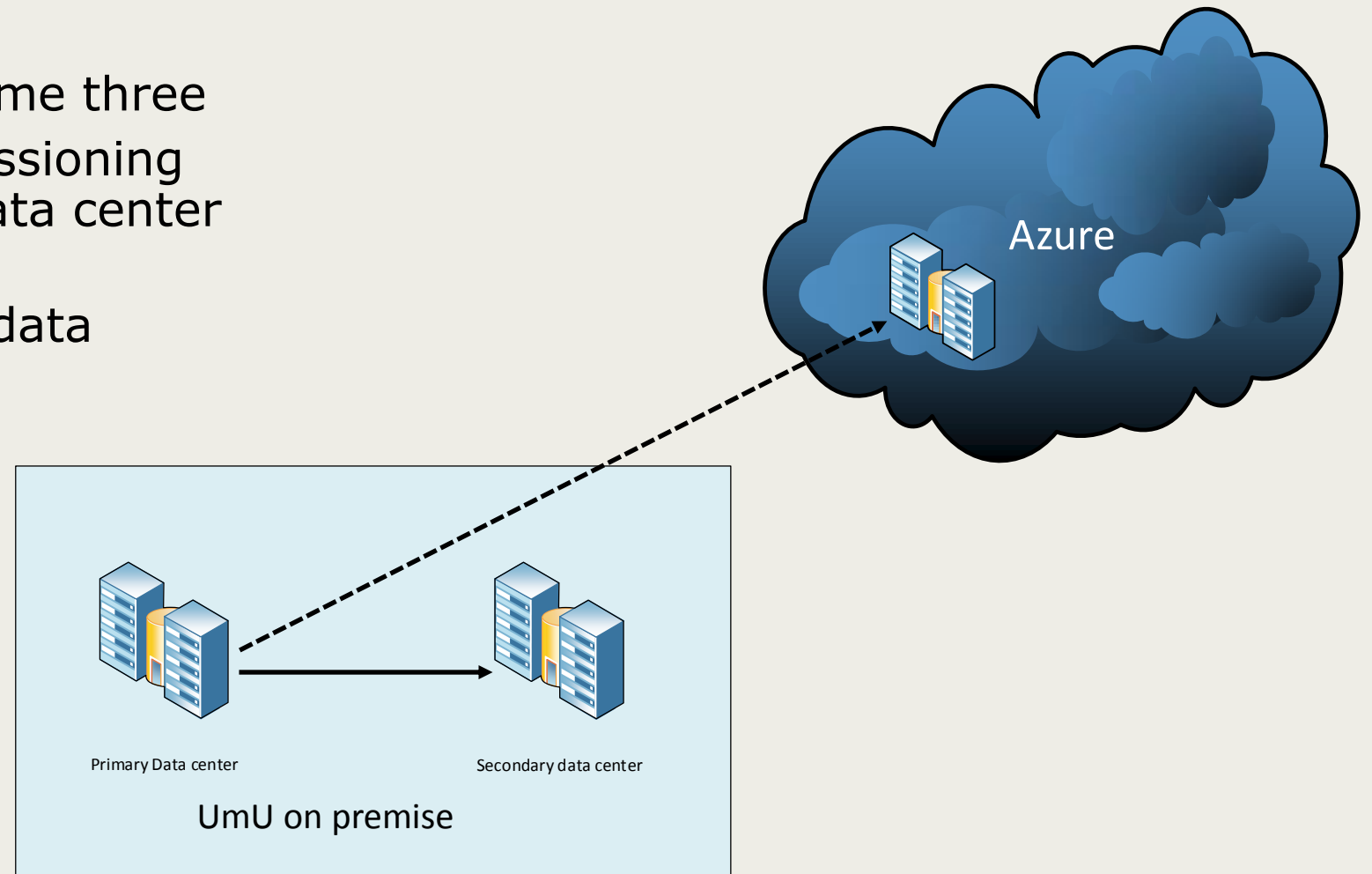
- Cloud first/only requires a significant culture change
- Speed of transition
- The leadership
  - Engage and motivate the staff





# Objective: Cloud data center

- Two datacenters become three
- Objective to decommissioning secondary on-prem data center within 2-3 years
- By 2020 No on-prem data center



# Technical challenges

- Support from Microsoft
  - Troubleshooting when things goes wrong
- Azure's traffic management vs SUNET
  - Dark fiber
- Monitoring
- Pricing
- Billing information and administration
- Follow-up and statistics of usage
- Backup
- Risks
- Exit strategy



# Current status

- Project running
- Cooperation with Microsoft
  - Premier services
- Proof of concept: Billing information portal
- Procurement of exit strategy supplier – Amazon Web Services



A bright blue sky with large, fluffy white cumulus clouds. The clouds are scattered across the frame, with a large, dense cluster in the lower half and smaller, wispy clouds in the upper right. The text "Thank you!" is centered in the upper half of the image.

Thank you!