ITC Meeting Notes (11/20/17)

Attendees: Dan Maletta, Michael Atzmon, Kincaid Brown, Marisa Conte, Ivo Dinov, Yanni Paulus, Elle Shwer, Ken Varnum

Discussion items:

- CoE has over 10K students (1/3 grads), 600(TT) + 200 (non-TT) Faculty
- CoE is part of North Campus, which also includes Music, Theatre & Dance and Art & Design
- CoE does not participate in MyWorkSpace/Shared Services.
- There are big 3 CoE Departments that drive decision making: EECS, Climate & Space Physics, and Mechanical Engineering, which have large and separate IT teams, other departments have 1-2 IT people.
- LectureCapture for auto recording and publicizing of video lectures – dual stream – instructor + screen.
- Hard CapEx (capital expanse purchasing) vs. Soft OpEx (operations expense per use)/Cloud services. Latter allows a more dynamic nature of turning On/Off things as needed. For example Student virtual machines (VMs) are cost-effective for classroom, education/training purposes.
- Entry-levelIT jobs that require some Linux OS and Python programming skills demand >$100K/yr salaries.
- CoE spends about $130K/yr for student Cloud Services and a total of $500K/yr for Software (including software licensing), e.g., Matlab annual license costs $40K, $30K/yr for Amazon streaming of CoE class/videos.
- Perry Samson's Echo360 Startup for indexing of video streams, transcribed for free using Google services.
- OSD provides free closed-captioning/transcription of class lectures.
- Can/Should UMich establish/run its own cloud service infrastructure where scale is achieved by pulling resources across units?
- Downsides of outsourcing all IT/storage/computing is the hollowing of the University infrastructure, challenges with migration to other more effective or modern infrastructure in the future, and loss of direct control.
- Another option is to purchase a BigPod from one of the Big 3 Cloud service providers (Azure, AWS, Google) that can be shared among all UMich units.
- Software Licensing is very difficult for Cloud Services.
- How to **protect Data** vs. SoM AirWatch mechanism to **protect Devices**? This dilemma has been discussed since 2007.
- Security and compliance are important.
- See Dan Malenta's PDF notes.
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