

# ISC Cloud First Program

RETROSPECTIVE

**DECEMBER 5, 2017** 

### A long time ago, in a galaxy Far, far away.... An edict went out among the Penn ISC Community

## Actually it was more like 18 Months ago.... But it seems a lot longer

#### How did we get here?

- In the early part of calendar year 2016, Tom Murphy challenged ISC to take a "Moonshot" around the use of Cloud at Penn
- A small collaborative team was formed to brainstorm and come up with a framework for the effort

# MISSION POSSIBLE

We Can Do This!

"Moving Applications to the Cloud"























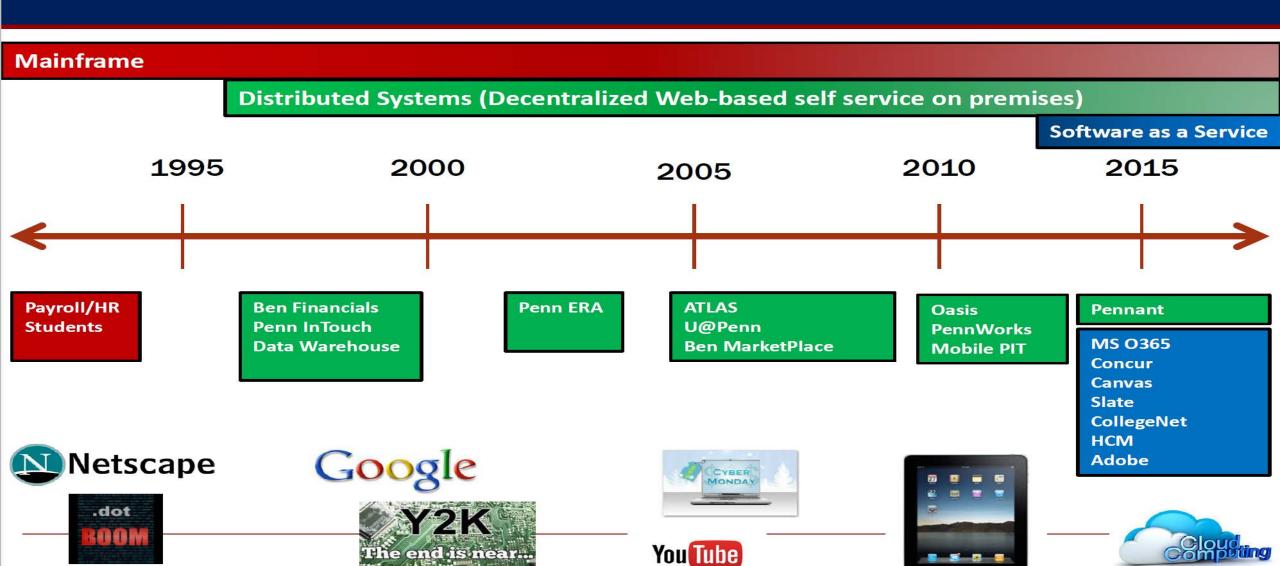






#### Penn IT Transformation – 2+ Decades







Commit to a "cloud-first" strategy for delivery of all new services and cloud-enable 80% of all existing ISC services by **March 2018** Move to Blue



Research Academic Business Finance Support and Student Systems Systems Systems Systems Identity and Telecommunications Security Access Networking Management Middleware Client Cloud Other? Collaboration & Tools

#### IS THAT GUY CRAZY?



#### Why Cloud First?

- Make it easier to choose Software as a Service options
- Make it easier for partners to work with us
- Re-envision the full technology stack for cloudnative agility
- Model and socialize iterative and transparent value delivery
- Automate or eliminate maintenance work
- Socialize and share what we learn

#### Program Vision

Vision

Position Penn for the future of IT systems and services by pursuing a "Cloud First" strategy to accelerate speed of delivery and to drive more value through technology to the Penn Community.

#### Program Objectives

#### **Objectives**

- Increase business application agility, scalability, and effectiveness
- Improve resource availability for higher value work
- Take advantage of economies of scale
- Challenge conventional approaches to IT at Penn
- Stay current with where technology is going
- Decrease capital spend over time (TCO)
- Increase availability
- Position Penn for the future

ISC's Cloud First Program at a glance

James Choate

Owner

Tiffany Hanulec

Architecture, Infrastructure & Migration

Bryan Hopkins

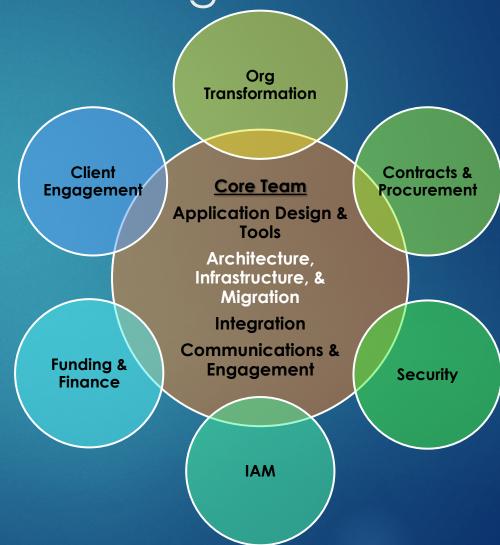
**Application Design & Tools** 

Teresa Leo

**Communications & Engagement** 

Janet Lind

Integration



#### Cloud First – By the Numbers FY17

- 250+ website links to cloud resources; also program updates, presentations, team pages, and program documents
- 25+ Presentations (Town Halls, SIGS, ITR, EVP, SUG, ISC etc.)
- 25+ Meetings with clients in Schools and Centers
- 9 Program updates to clients and ISC
- 4 Lunchtime Learnings (average attendance 100)
- 2 IT Staff Convention events (Hackathon, AWS Panel)
- 2 Cloud curriculum tracks (Infrastructure 19 courses and Development 26 courses)
- 2 Newsletter articles
- 2 Slack channels
- 1 Knowledge exchange with clients

### What are our operating principles?



- Choose simplicity, speed, and iterative improvement over upfront completeness and strict controls.
- Continuously iterate and re-evaluate decisions; nothing is beyond question.
- Be mindful of increasing technical debt.
- Choose automated solutions over manual ones, but respect the implications to manual process owners.
- Use tools and technologies "off the shelf" in secure ways and as the provider intended.

## Accomplishments



#### Panel Discussion