Virtual Residency Workshop 2020 "Strategic Thinking & Visioning"

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NSF Trusted CI Cybersecurity Fellow, 2019

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Service Provider

- offer a service designed to address the needs of a consumer group
- Examples
  - Data collection and analysis tools
  - Cloud computing
  - Technical consulting
  - CUI/FISMA environment

Research Facilitator

- make (an action or process) easy or easier
- Liaise with HPC, library, other IT depts, InfoSec Office, Research Compliance, C&G office
- Examples:
  - GIS facilitation
  - SPSS facilitation
  - Agreements with vendors

Researcher Advocate

- one who supports or promotes the interests of a cause or group
- Examples:
  - Researcher Needs Assessments
  - External capabilities assessments
  - Presenting to senior leadership (VPR, Provost, Faculty Senate)

RESEARCH CAFÉ

GETTING STARTED WITH AWS — aws

GIS & DATA COLLECTION TOOLS

DATA TRANSFER WITH GLOBUS — globus

TECHNICAL CONSULTING

UPCOMING WORKSHOPS

RESEARCH DATA ARCHIVES

ADVANCED RESEARCH COMPUTING CENTER

Open Science Grid

XSEDE — Extreme Science and Engineering Discovery Environment

UCF INFOSEC

UCF Office of Research

ArcGIS

SPSS

REDCap — Research Electronic Data Capture

EPOC — Engagement and Performance Operations Center

Google Cloud

UCF

Shawn G. Doughty
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Roles

- Sponsor/Stakeholder
- Systems Facing
- Researcher Facing
- Software Data Facing

Frank Feagans

Vice President and Chief Information Officer
University of Texas at Dallas

OIT Business Strategies

- Focus on delivery of IT services that improve agility, quality & availability, while continuing to reduce operational costs.

- Leverage digital transformation to enhance learning, strengthen collaboration, reduce administrative burden & boost decision making capabilities.

- **Provide cyber-infrastructure services that help advance research & attract T/TT faculty.**

- Establish a partnering, "can do" customer-care culture with our customers, stakeholders, colleagues & each other.

Higher Ed (2011-present)

- UTD HPC
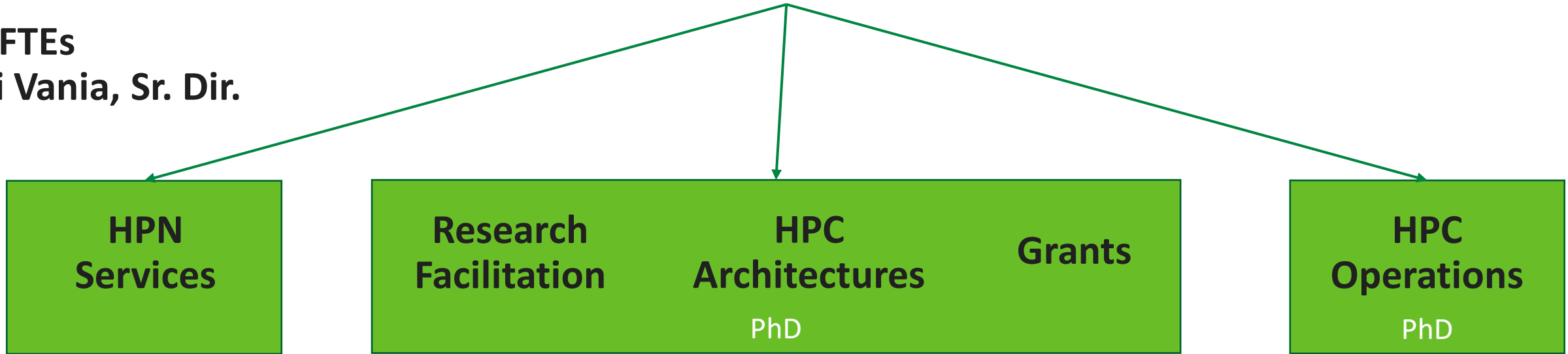- U of AZ HPC

Private Sector (1981-2011)

- McD HPC

MS, Computer Sci. – U of IL

BS, Computer Eng. – U of IL

UTD *"Science-Optimized"* Cyber-Infrastructure Services

6 FTEs
Gi Vania, Sr. Dir.

HPN Services	Research Facilitation	HPC Architectures	Grants	HPC Operations
		PhD		PhD

	GENI	TACC OSG AWS	Ganymede (condo) Europa (shared) Io (storage/AI/ML)	Private PI HPC Fed Reserve HPC Data Management

UC San Diego

About the University of California San Diego:
- RI Research Institution
- $1.35B in annual research funding
- One of the 10 campuses in the University of CA System
- ~3,000 Faculty and ~1300 Postdocs and ~40k students

CLAIRE MIZUMOTO

DIRECTOR, RESEARCH IT SERVICES

- A division of the central IT Services, under CIO
- As a formal group, Research IT is just 5 years old
- We have both Executive IT Governance and Research IT Governance

WHAT WE DO

Newsflash: We didn't start in an HPC/HTC Center

Researcher-Facing

not necessarily systems- , services-focused

- Consultation Services

- Proofs of Concept & Pilot Programs

- Sell off small percentages of effort, co-located Researcher-Facing professionals,

- Contract and Grant Support

- Training, Software Support

Built on the long-tail of research, partnerships with service-providers, fill the gaps in support

Acutely aware of the RCD Ecosystem

Research Computing Expert:

- IT & Research liaison
- Internal consultant and advisor to the research community
- Designer of research technologies
- "IT Ninja"
- Previously: app support & projects

Products and Services:

- Research Computing Consulting
- HPC
- Cloud computing
- Strategy advisor
- Project implementations
- Process improvements
- Security & compliance reviews
- External partnerships

Report to CISO

PhD Student & Researcher:

- Effects of technology (AI, ML) and technology policies on social justice and equity
- Application of technology to fight human trafficking and the exploitation of women and children

STEM Education & Advocacy:

- CyberAmbassadors Program (MSU, NSF)
- Leadership in Women in Tech groups (women & underrepresented groups in STEM)

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Strategic Technology

University of
New Hampshire

Research Computing Professional

- XSEDE Campus Champion – Started as a TeraGrid Campus Champion just before the change in 2011
- RC Evangelist – "Fake it till you make it" doesn't work
- Project Management isn't just for Central IT anymore
- Strategic Thinking – where do you want to be, when, and what are the steps to get there

Q&A

- Can you give us some examples of projects that you initiated and how you came up with the vision(s) for those projects?

Google Doc: https://bit.ly/vr2020-strategic

Virtual Residency Workshop 2020

Q&A

- How do you align your vision for your organization with the vision and direction provided by the VP/VC-Research, CIO, etc.?

Q&A

- Does your strategic planning include input from a Research Governance and/or Advisory Group? If so, how does that affect your plans?

Q&A

- How do you support others (researchers, departments, partners) as an RCF in thinking strategically themselves?

Google Doc: https://bit.ly/vr2020-strategic

Q&A

- How does your autonomy (or lack thereof) affect your vision and strategic planning?

Q&A

- To what extent does funding/financial backing affect your development of a strategic plan?

Q&A

- What's your vision for your own organization? How did you come up with it?

Q&A

- Can you give us some examples of how you used strategic thinking to resolve an issue or need for your organization and/or your researchers?

Q&A

- How did you learn how to do strategic thinking and visioning?