

Noor for Research

First User Group Meeting

WEP 235



Noor for Research

- Noor User Group – Community Creation
- Research Computing The Team
- Noor – Present and Future
- Faculty and Research Achievements
- Toast



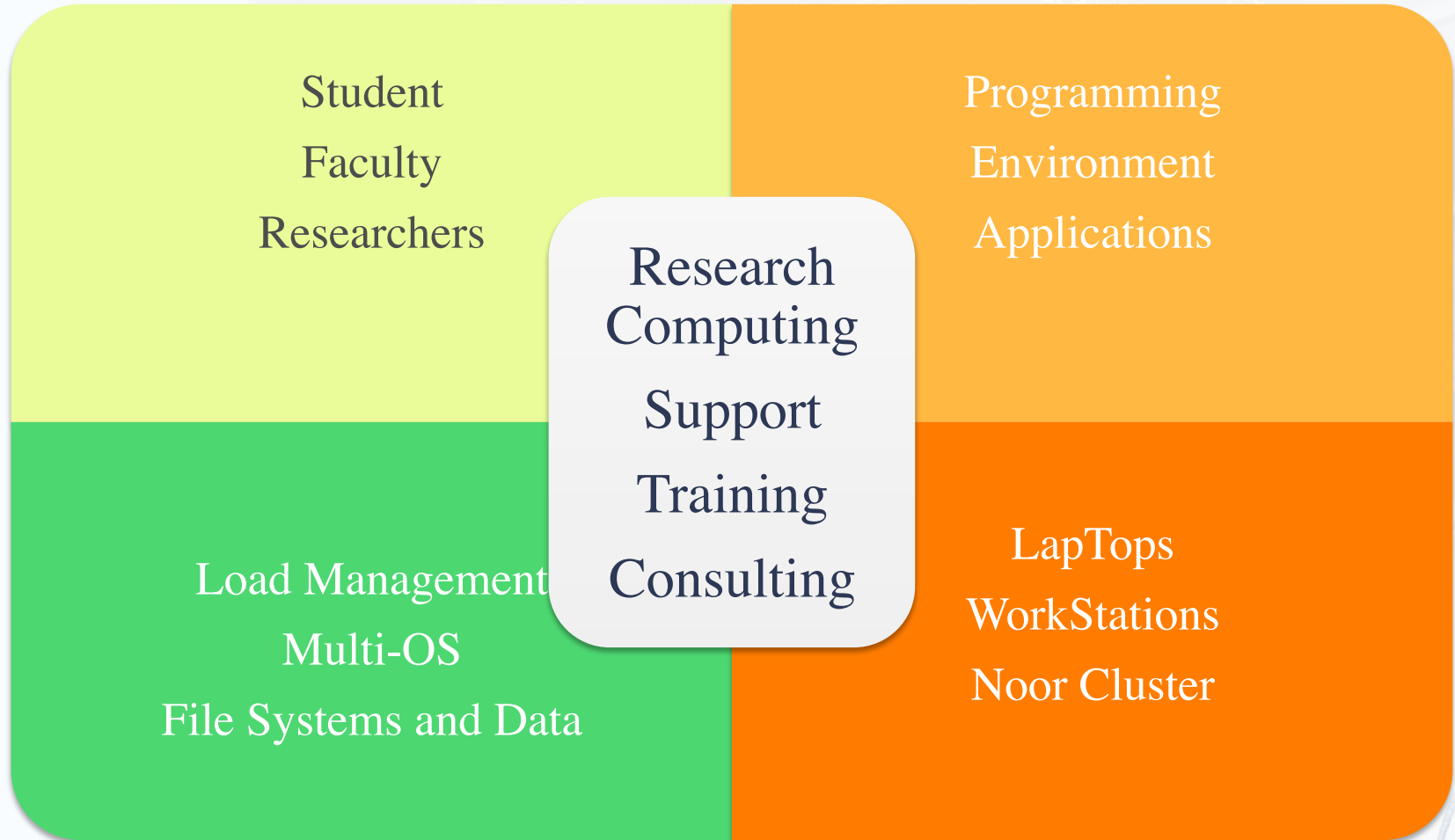
- **Marie-Jean Thoraval** : Von Karman Vortex Street within an Impacting Drop
- **Yan Azdoud** : Hybrid Approaches for Fracture Simulations in Solid Mechanics
- **Roberto Incitti** : High Throughput DNA Sequencing
- **Martin Mai** : Earthquake Rupture Dynamics in Elastic & Plastic Media
- **Mousumi UpadhyayKahaly** : Electronic and Physical Properties of Nanostructures: NOOR for "on-computer" experiments
- **Antonio Attili** : HPC for Reactive Flow and Turbulent Aerosol Simulations: a Perspective



Research Computing Team



Research Computing Ecosystem



Accelerate, Facilitate and Support

Research Computing - Noor

650 users
33 user groups

250 Applications
100 in shared mode
MPI, OpenMP,
OpenACC

LSF

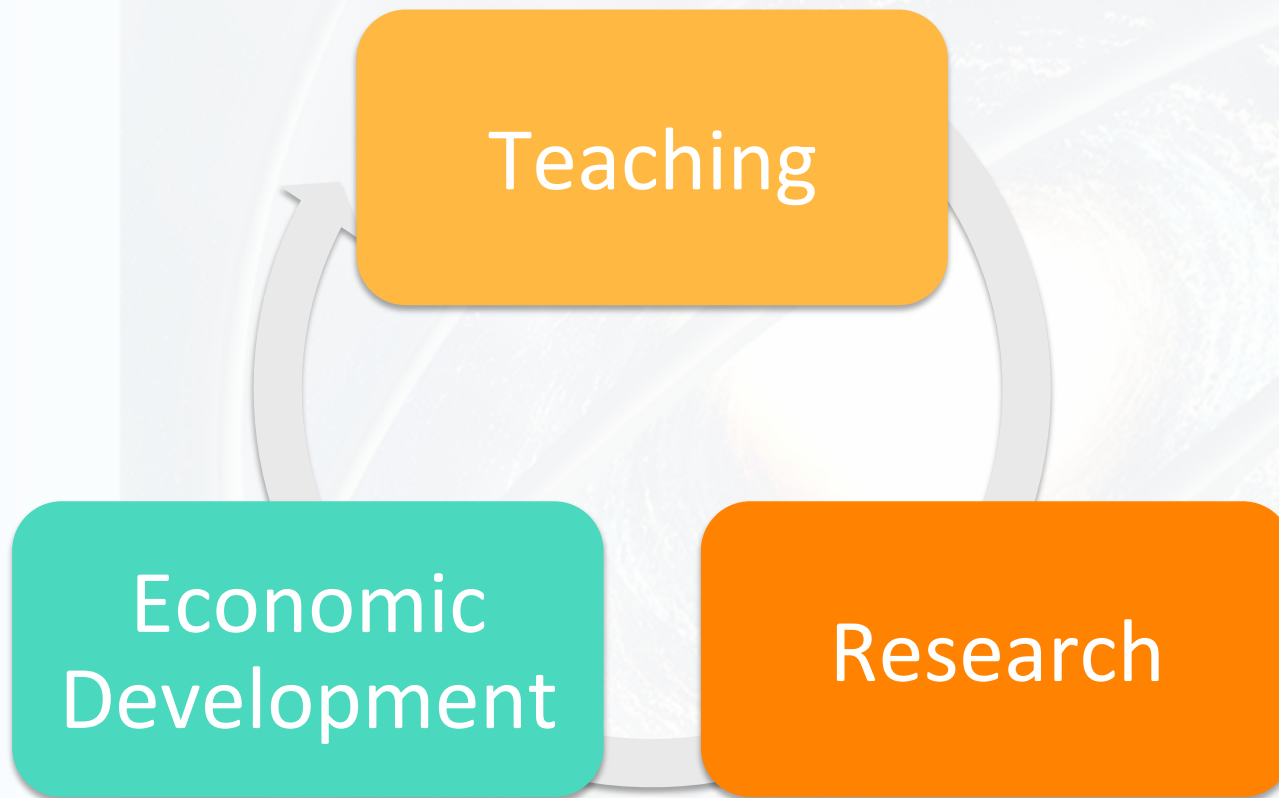
Fedora, Ubuntu, RedHat
Data 0.5PB disks 1.2PB tapes

General Purpose
Hybrid Computing Cluster

3200 Cores, 350 Nodes
CPU 32TF
GPU 23TF

Accelerate, Facilitate and Support

Research Cycles



http://rcweb.kaust.edu.sa/group/rc/IT_Forms/acct_req.html

NOOR

External Links

Classes, Schools,
Admin & Homes
(End User Devices)

R&D and
Innovation
(End User Devices)

Core Labs



Workstations



M
D



P
S
P



T
a
b



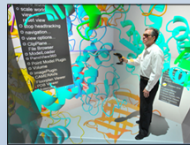
T



A



Shaheen



Vizlab



Marine
Research



Nuclear
Magnetic
Resonance



Digital
Microscopes



Research Commercial



IP Telephony



AudioVisual



IP Television



Internet



Email



SAP and
Enterprise
Applications

External Links

Network

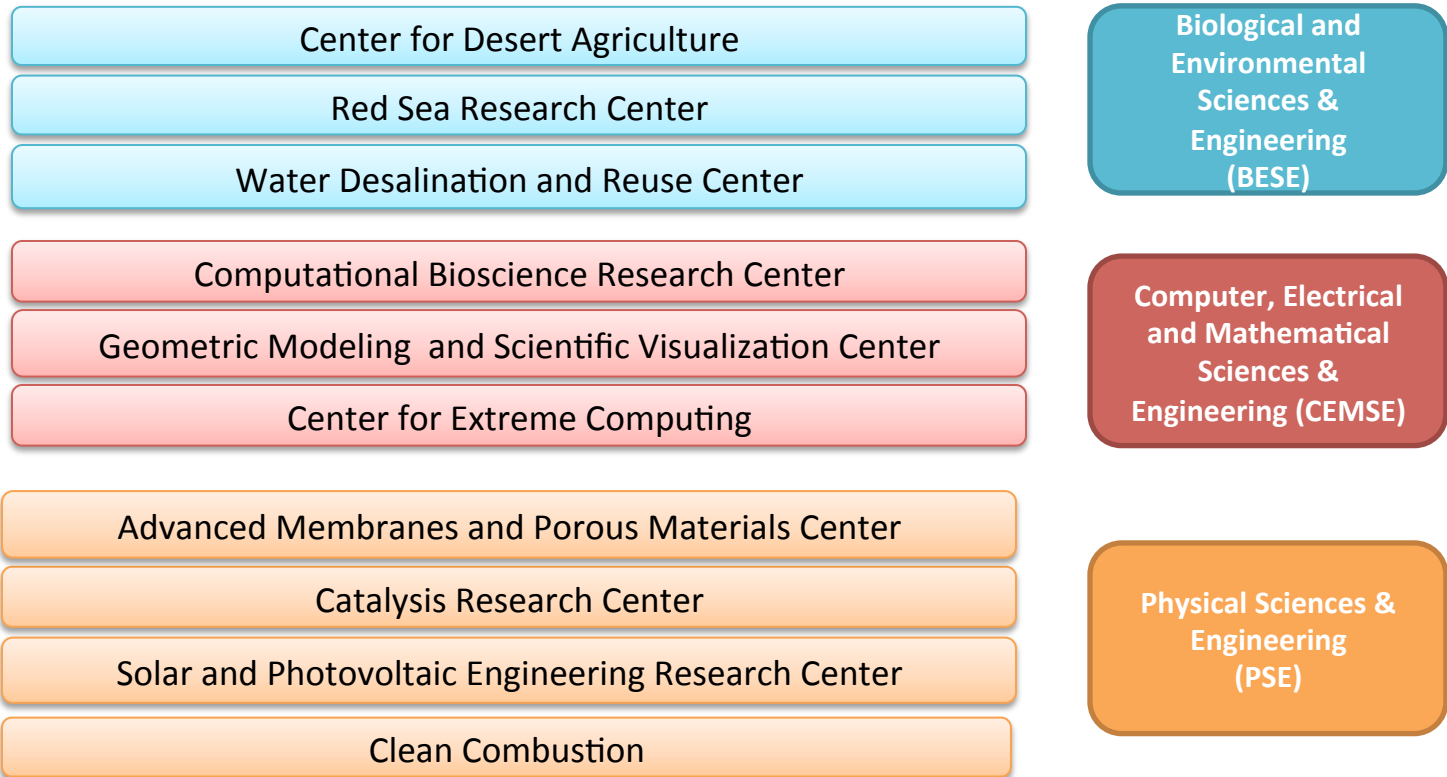
Outside/Inside Cable
Plant, Wireless

Voice, AV, Data, and
Applications

End-user Devices

End-user Devices &
Software

IT Research Computing Offers Campus Wide Resources with Shared Model



IT RESEARCH COMPUTING



ACCELERATE. FACILITATE. SUPPORT.



By ensuring availability and access to software, hardware, consulting and training services, we, at Research Computing, help researchers, faculty, and students use computing to meet their research and academic goals. Some of our main services revolve around:

- Noor Computer Cluster
- Noor Storage Cluster
- RC Workstations
- Scientific Applications
- Consulting & Trainings