

Division of  
Computing and Information Systems (**CIS**)

# New Faculty IT Orientation

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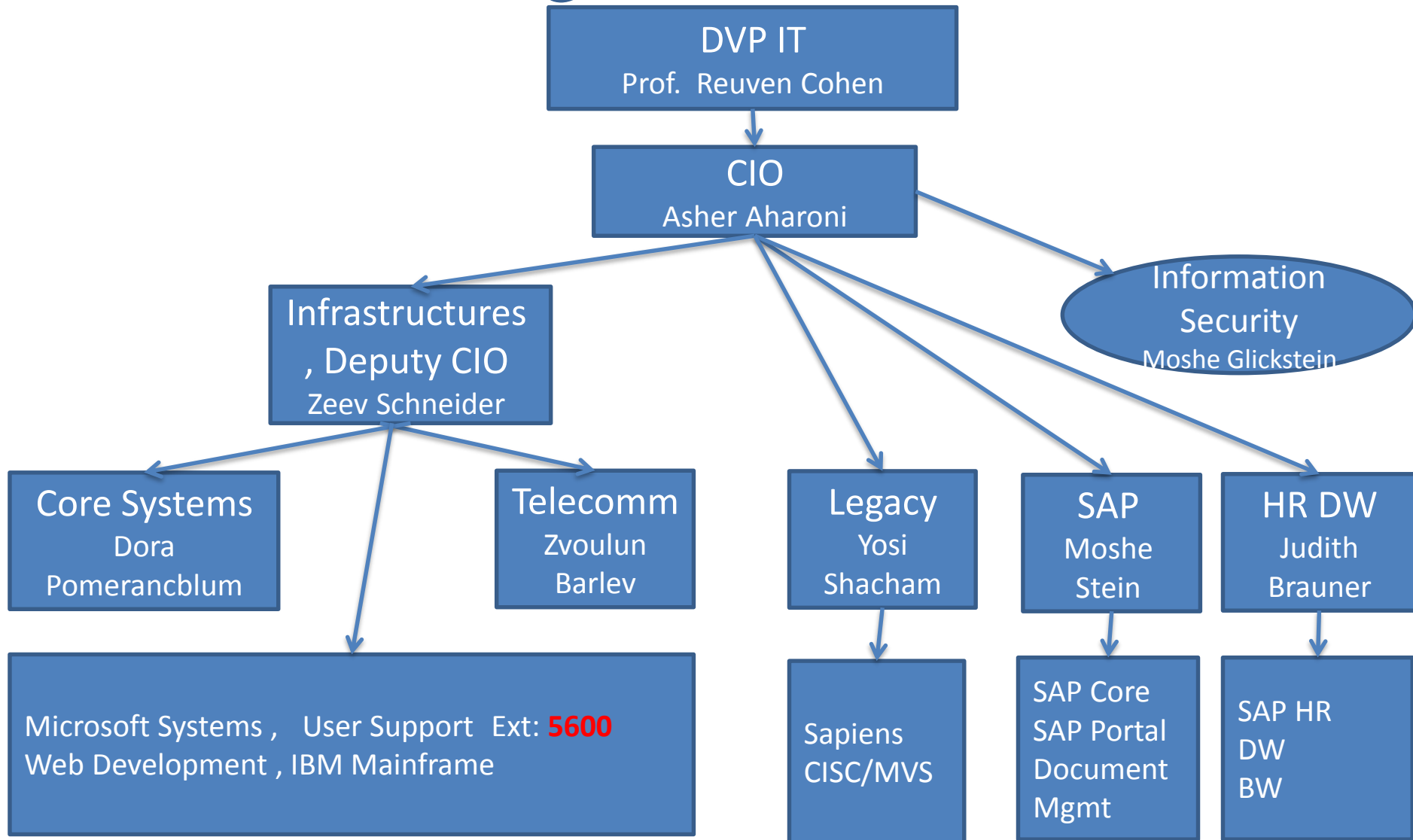
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# CIS brief and key initiatives

- New CIS division established in 2011
- Established campus IT leadership team
- Engage with faculty via meetings and visits with academic departments
- Consolidate and unify disparate e-mail, calendaring and productivity systems
- Developing IT standards for desktops, servers , security, network, etc.
- Strategic planning for information technology

# CIS Organization Chart



# CIS Statistics

- Staff - 83 Full Time Employees
- Network
  - 15+ km fiber optic cable & 60+ km high speed copper
  - Network supports ~ 20,000 users
  - 50+ building interconnections
  - Manage 128,000 IP addresses
  - Wireless network consists of 550+ managed access points
- Data Center
  - ~500 Physical and Virtual Servers (linux/windows)
  - 250 Terabytes of storage, in Storage Area Networks (SAN)
  - 90 Terabytes of data backed up on a daily basis (growing at 20% per year)
- Mail and Security
  - More then 100M email messages/year , more then 80% filtered as SPAM
  - Millions of unsuccessful intrusion attempts/year

# CIS Services – Legacy

Contact: Yosi Shacham, ext:2379, [yosis@dp.technion.ac.il](mailto:yosis@dp.technion.ac.il)

- Payroll
- Campus Management
  - Admissions
  - Undergraduate studies
  - Graduate school
  - Student accounting & dorms
  - Dean of students
  - Tuition

# CIS Services – SAP

Contact: Moshe Stein, ext:5515, [moshest@dp.technion.ac.il](mailto:moshest@dp.technion.ac.il)

- MM- Materials Management
- FI- Finance
- CO/FM – Controlling
- GM- Grants Management
- PM- Plant Maintenance
- PS- Project Systems
- SD- Sales and Distribution
- HR – Human Resources (went live on January 2014)
- SAP Portal
- CRM- Customers Relationship Management
- SRM – Suppliers Relationship Management
- Development – ABAP, Java, etc.

# CIS Services – HR BW

Contact: Judith Brauner, ext:2253, [judithb@technion.ac.il](mailto:judithb@technion.ac.il)

- HR section: Human Capital Management systems
- BI section: Data Warehouse systems – for reporting and analysis of data
  - DW – Data Warehouse for legacy systems, mainly Student Management system
  - BW – Business Warehouse for SAP systems (e.g. Finance, Logistics, Grant management...)



# Web development

Contact: Noam Bercovitz

Ext: 4247 noamb@technion.ac.il

- **Web development**
  - WordPress platform
  - Web sites building and consulting
  - E-learning: Moodle, Panopto, Video Server

# Microsoft Systems & User Support

Contact: Shay Oldak

Ext: 5510 shayol@technion.ac.il

- **Wintel Systems**
  - Windows Server Support
  - Active Directory Forest Management
  - Email/Collaboration tools (Microsoft Exchange)
  - Office 365
  - SAP Basis
  - Desktop Virtualization (VDI)

Contact: Daniella Tene

Ext: 5518 daniela@technion.ac.il

- **User support major fields**
  - Computer accounts
  - Administration applications
  - Email support
  - Off campus communication
- **User support contact options**
  - Ext. **5600 (Sun- Thu , 07:30 – 19:30)**
  - <http://5600.technion.ac.il>

# Telecomm and Core Systems

Contact: Zvoulun Barlev

Ext: 2174 [zvoulun@technion.ac.il](mailto:zvoulun@technion.ac.il)

- Telecommunications
  - Network Services
  - Wireless Access
  - Remote Access
  - Data Center Operations
  - Data Center Hosting
  - Cabling Management (copper & optics)

Contact: Dora Pomerancblum

Ext: 2649 [dora@technion.ac.il](mailto:dora@technion.ac.il)

- Core Systems
  - Central Linux/Unix Servers
  - High Performance Clusters
  - Storage Systems (SAN/NAS)
  - Backup and Recovery
  - Email systems
  - Virtualization
  - LISTSERV

# CIS Information Security

Moshe Glickstein, ext: 4992, [ciso@technion.ac.il](mailto:ciso@technion.ac.il)

- Perimeter protection
- Intrusion detection and preventions
- Awareness programs and training
- Information security incident handling
- Anti virus protection (mandatory)
- Smart spam email filter
- Developing security policies, standards and guidelines

# Focus and Key Initiatives

- Single Sign On (SSO) to core computing services and resources
- Establishing single Support focal point HELPDESK (ext. 5600)  
<http://5600.technion.ac.il>
- Servers Infrastructure Virtualization based on VMWARE
- Innovative Backup & Recovery System
- Core Network Upgrade
  - 1 Gb to desktop; 10Gb to buildings ; 10Gb Internet Uplink
  - Extending the Wi-Fi coverage
- Research **H**igh **P**erformance **C**omputing , **TAMNUN** (3500 cores cluster)
- **Portal:** Personal information to faculty (e.g. Sabbatical years gained, Keren Hishtalmut, Car entry permits) , eForms, smart Emails, Technion hotel's reservations, software purchases.