NDUS Information Technology Initiatives

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NDUS CIO

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NDUS System Information Technology Services

NDUS IT Strategic Plan

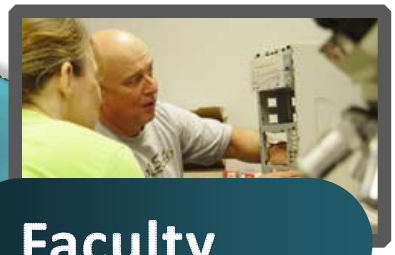
- **Goal 1** - Improve NDUS information technology-enabled business processes and services while providing and managing resources to align with strategic goals
- **Goal 2** - Support NDUS infrastructure needs
- **Goal 3** - Improve and enhance NDUS collaborative efforts
- **Goal 4** - Improve and enhance student learning
- **Goal 5** - Increase NDUS customer focus

Links to Learning and Services

Everything is Connected

Integrate Services

Students

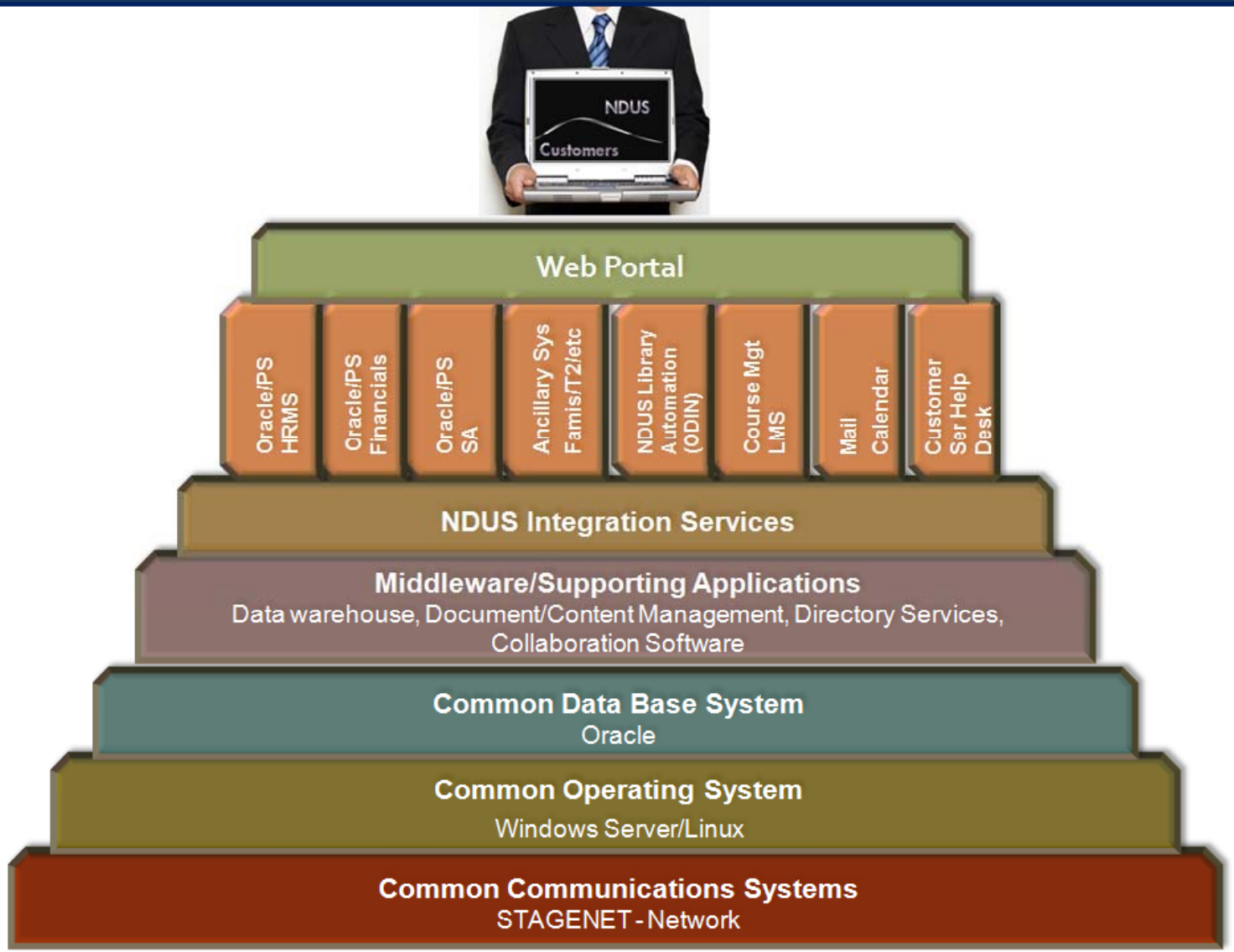


Faculty

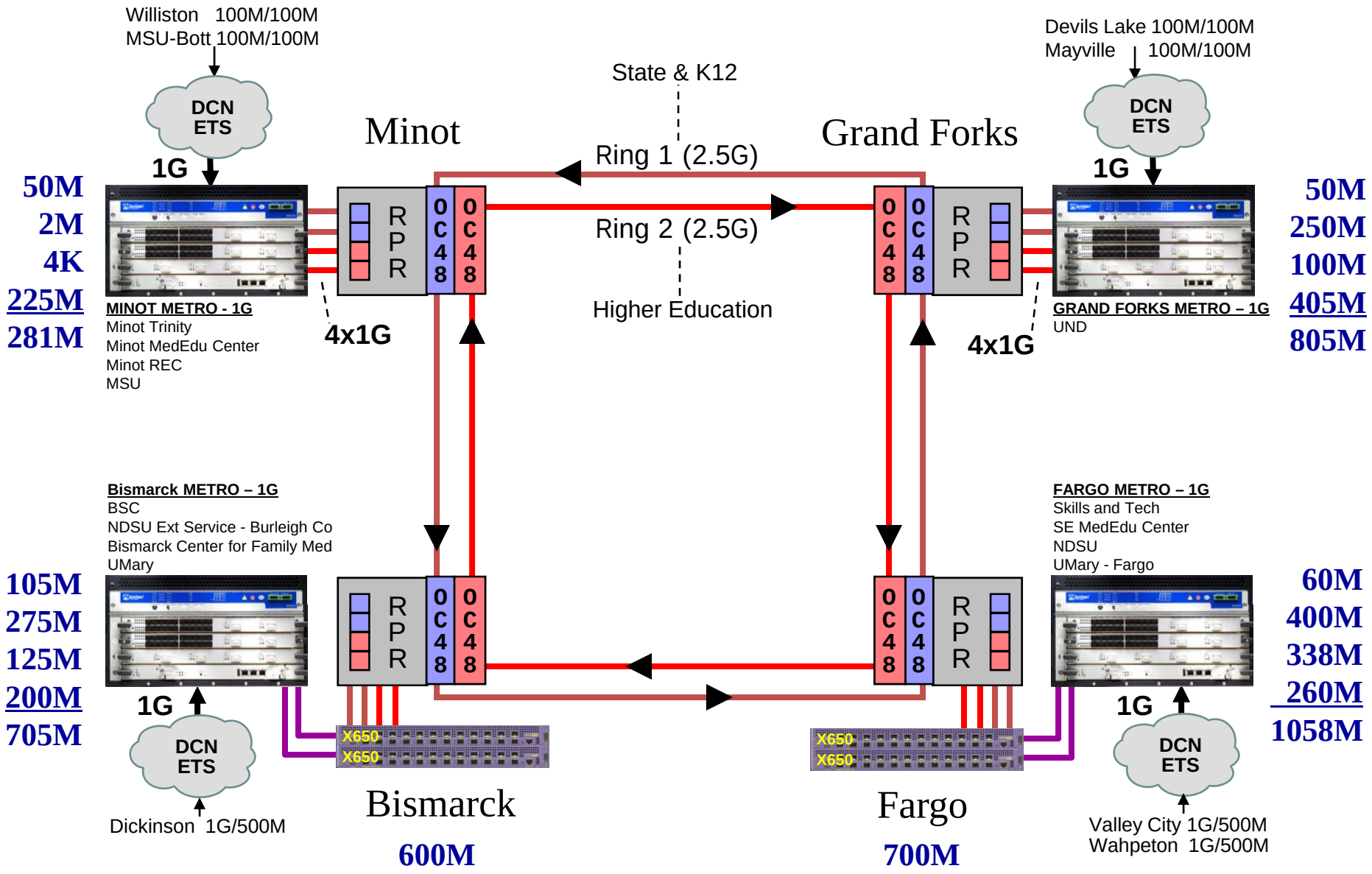
Campus Portal
Housing
Registration
System Portal
Scheduling
Campus Solutions (Student Sys)
StageNet
Data Warehouse
Class Schedules Classes
Bookstore
E-Mail
Parking
Admissions
Peoplesoft HR
LMS
CRM
PeopleSoft Finance
Content Repositories
ODIN (Aleph)

Staff

Strategic Architecture Vision



STAGEnet RPR/Ethernet Backbone



Why NDUS Integrated Services?

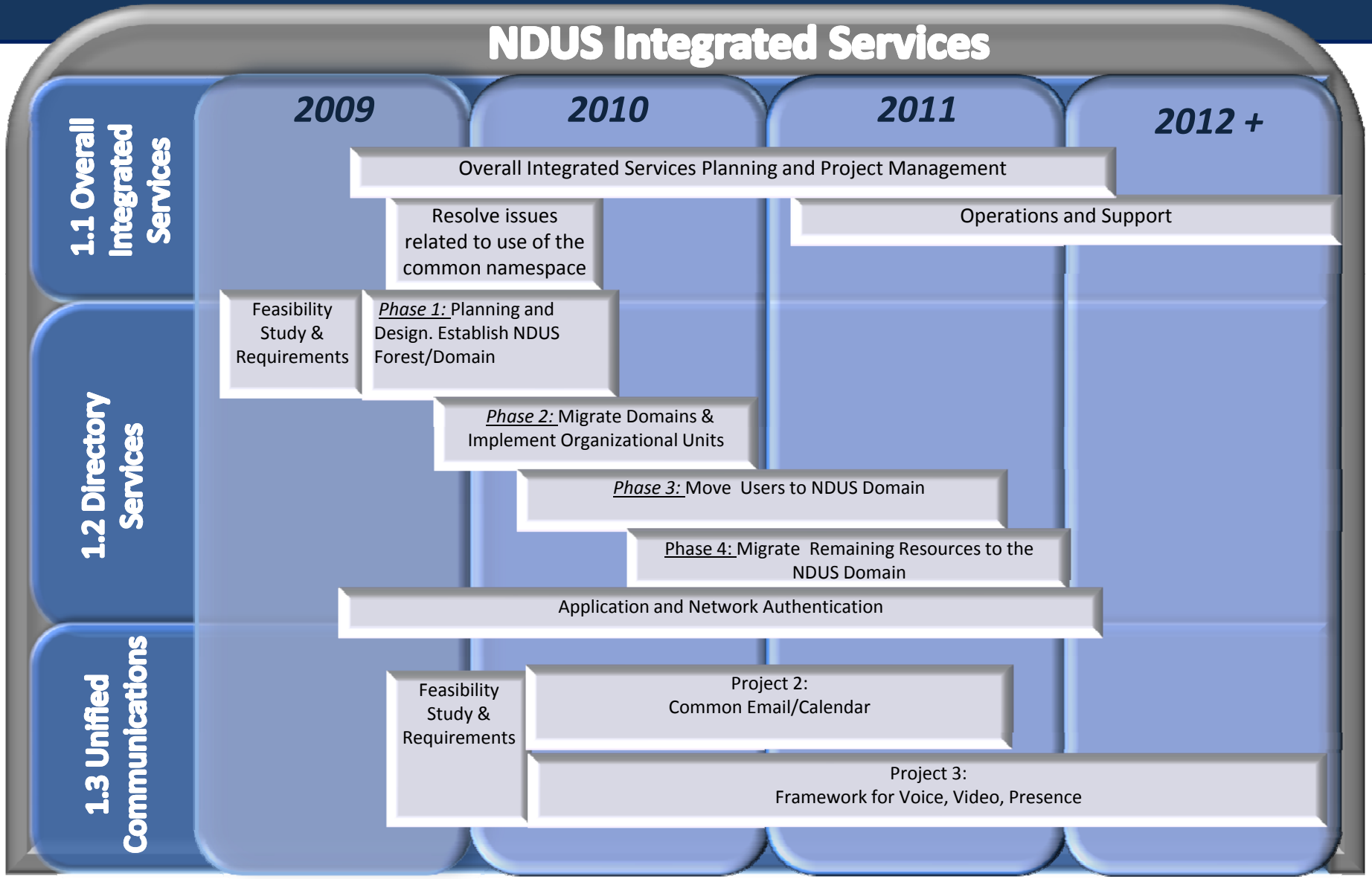
Improve integration of system-wide applications

Improve coordination of resources, applications, and processes

Provide consistent end user experience

Enable better support for collaborative students

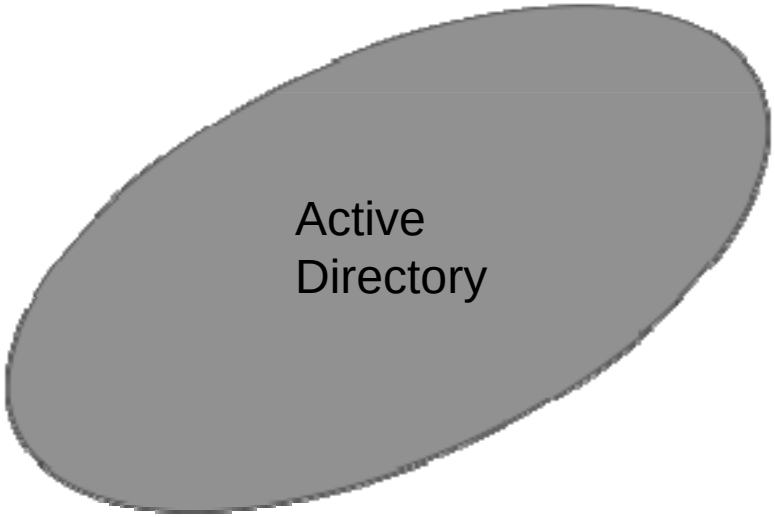
NDUS Integrated Services Roadmap



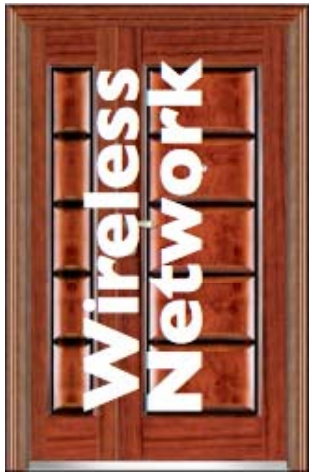
Where We are Headed

- Directory Services
  - Operate as one system (and federated with ITD)
  - Applications integrated for authentication
  - Support for collaborative students, faculty, and staff
- Unified Communications
  - Email and calendar services In the cloud
  - Presence, instant messaging, OCS
  - Integrated advance telephony services

What Is Active Directory?



The Way It Has Been:



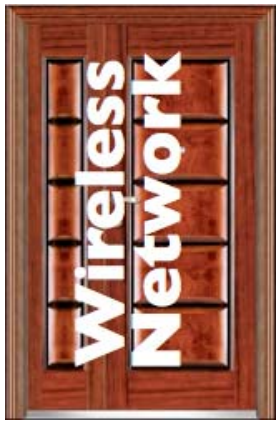
randall.thursby
password

rthursby
admin123

rathursby
dpass123

randall.thursby
123pass

With Active Directory



randall.thursby
123pass

For Active Directory to Work

Each Tom Smith….

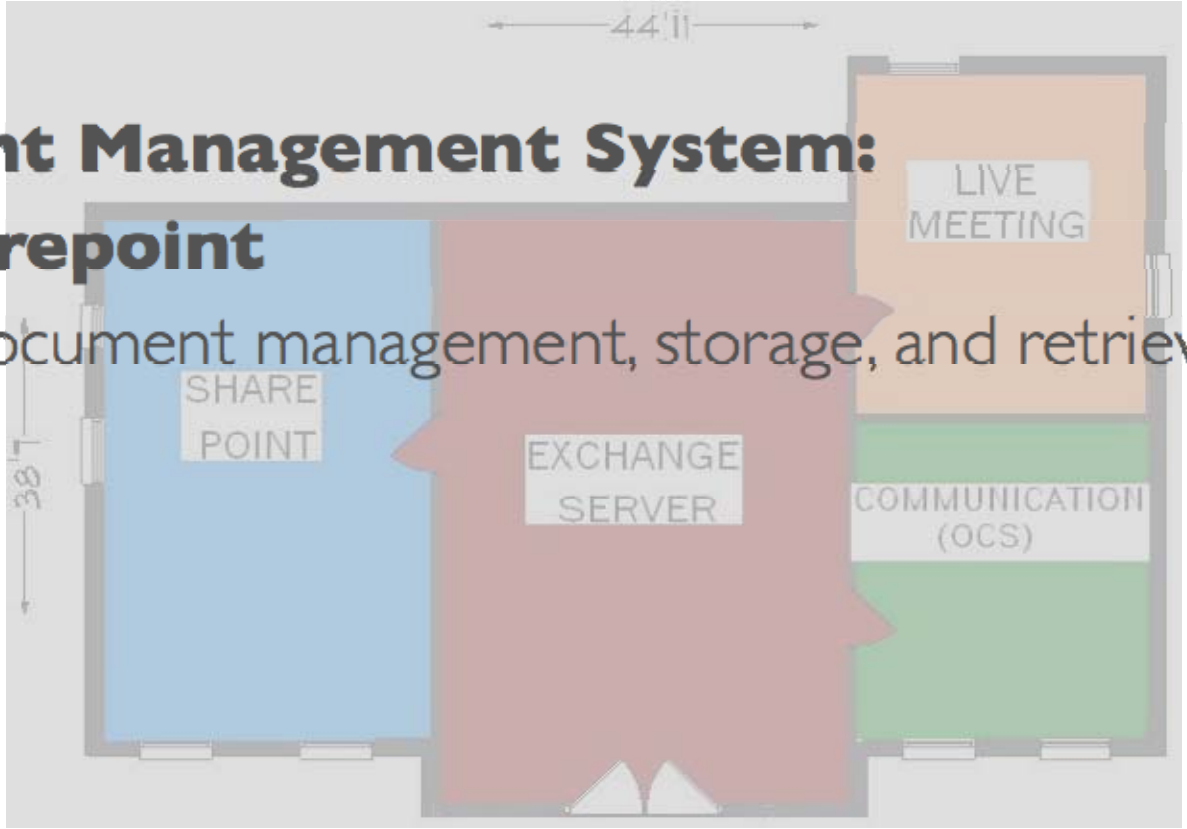
…Needs His Own Unique ID

Can Easily add more Rooms

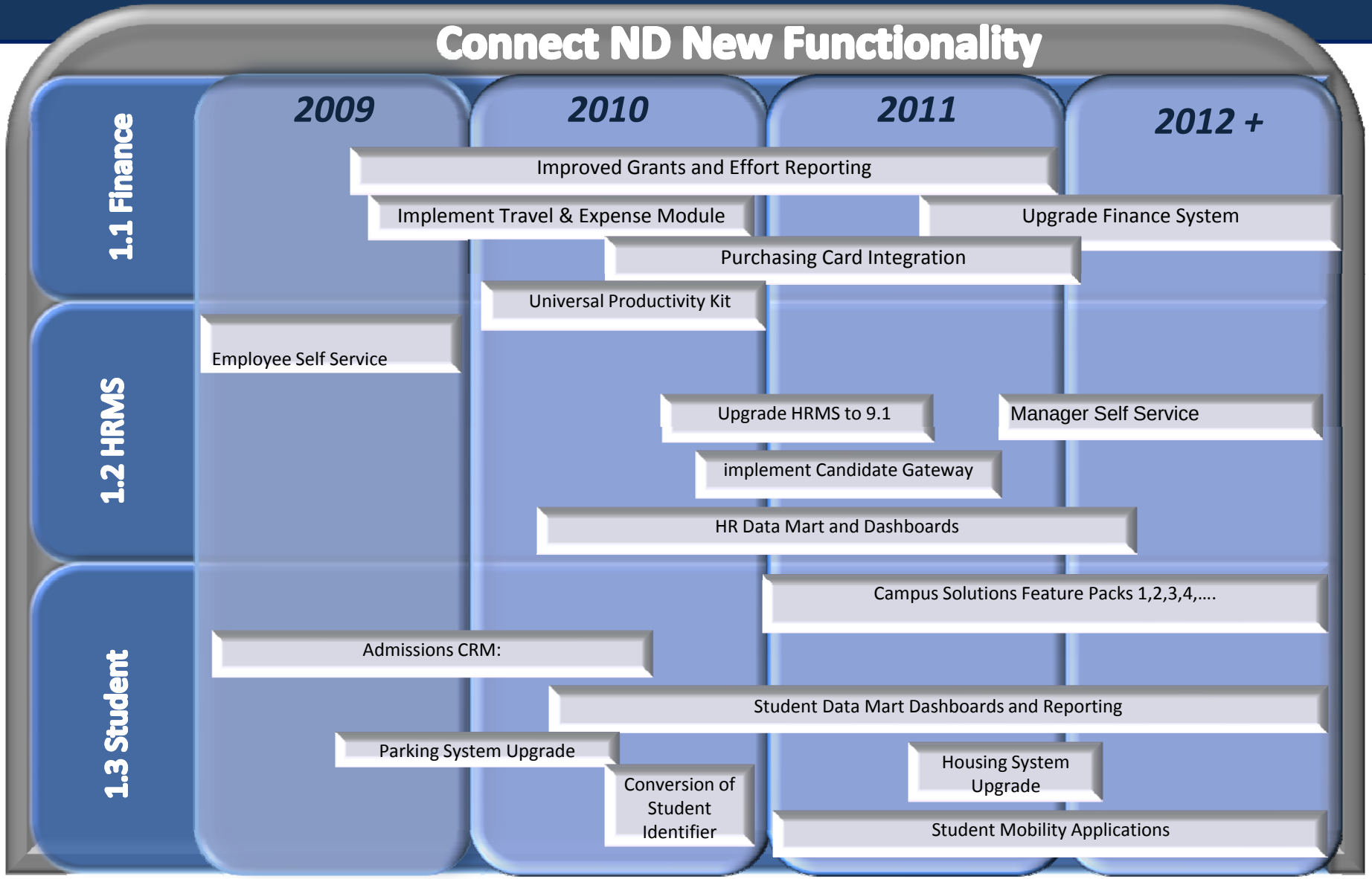
Content Management System:

Sharepoint

- online document management, storage, and retrieval



NDUS ConnectND Roadmap



What Else Have We Accomplished

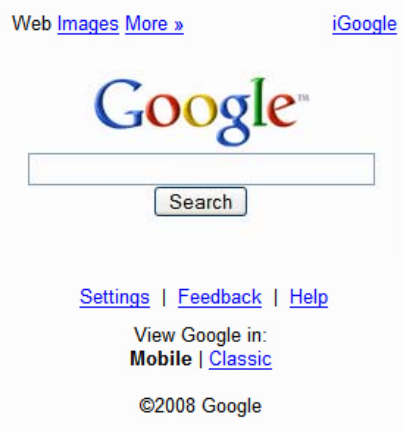
- Collaborate & Improve Services
  - Microsoft Campus Agreement & BPOS
  - Wimba Collaboration Software - System
  - Open Source LMS (Moodle) - System
  - Significant network and Internet upgrades
  - Expanded the desktop virus protection software to include spyware (encryption)
  - Two Library System Version Upgrades
  - Conversion of NDUS two-way video to HD

Next Steps

- **Food for Thought**

How To Avoid Complexity

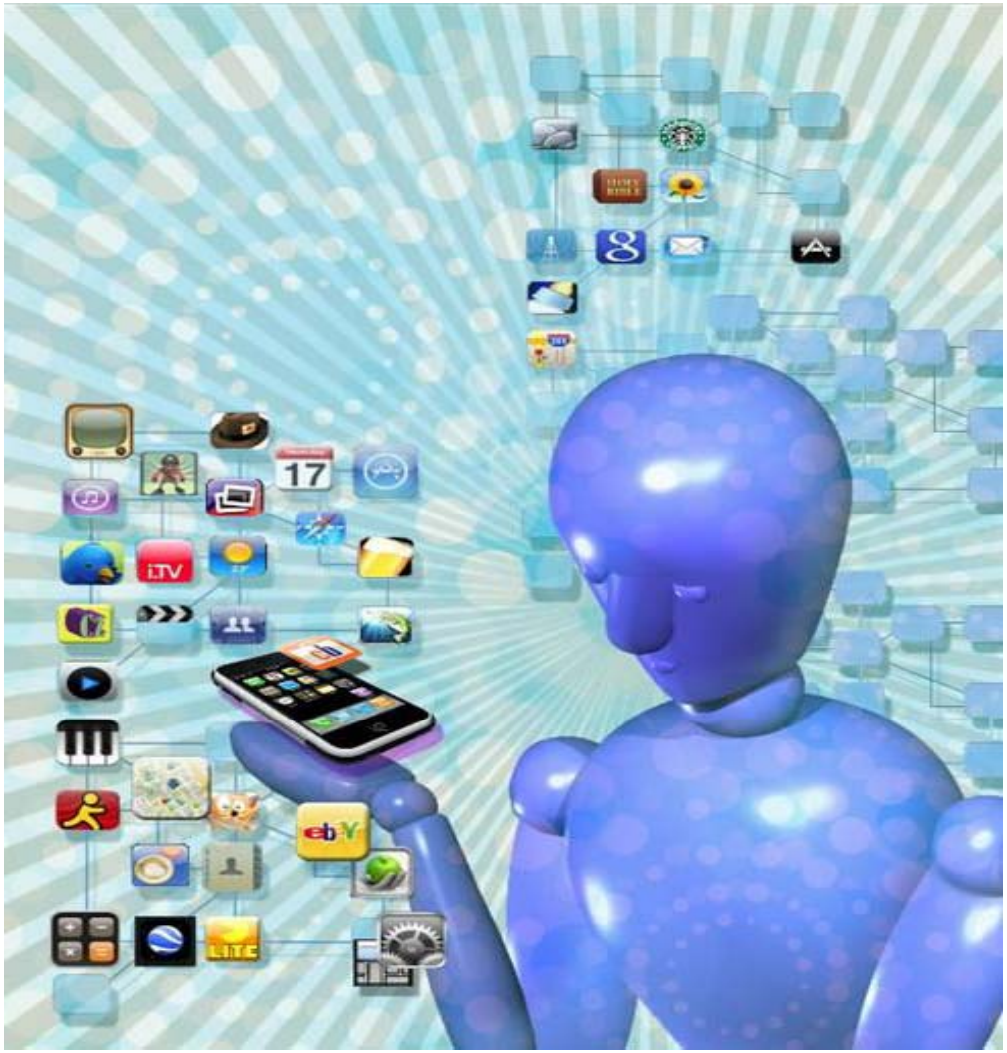
Simple



Less is more

Speed

AppWorld?



IT Budget Related Items 2011-2013

- Support for the NDUS Parity Request
  - System Information Technology Services Pool
- Technology Maintenance Enhancement ($3.2 M)
  - STAGEnet Improvements for NDUS & share of STAGEnet backbone upgrades
  - NDUS Cost Increases from ITD due to needs to significantly expand disk and processor capacity

IT Budget Related Items 2011-2013

- Technology Infrastructure Pool ($4.3 M)
  - Foster collaboration and student success
    - Licensing of software, maintenance, limited personnel support for new technologies, applications or services
    - Online Tutorial Services, common on-line course support, ConnectND integration with TrainND, degree audit and transfer evaluation, SLDS
    - CND

IT Budget Related Items 2011-2013

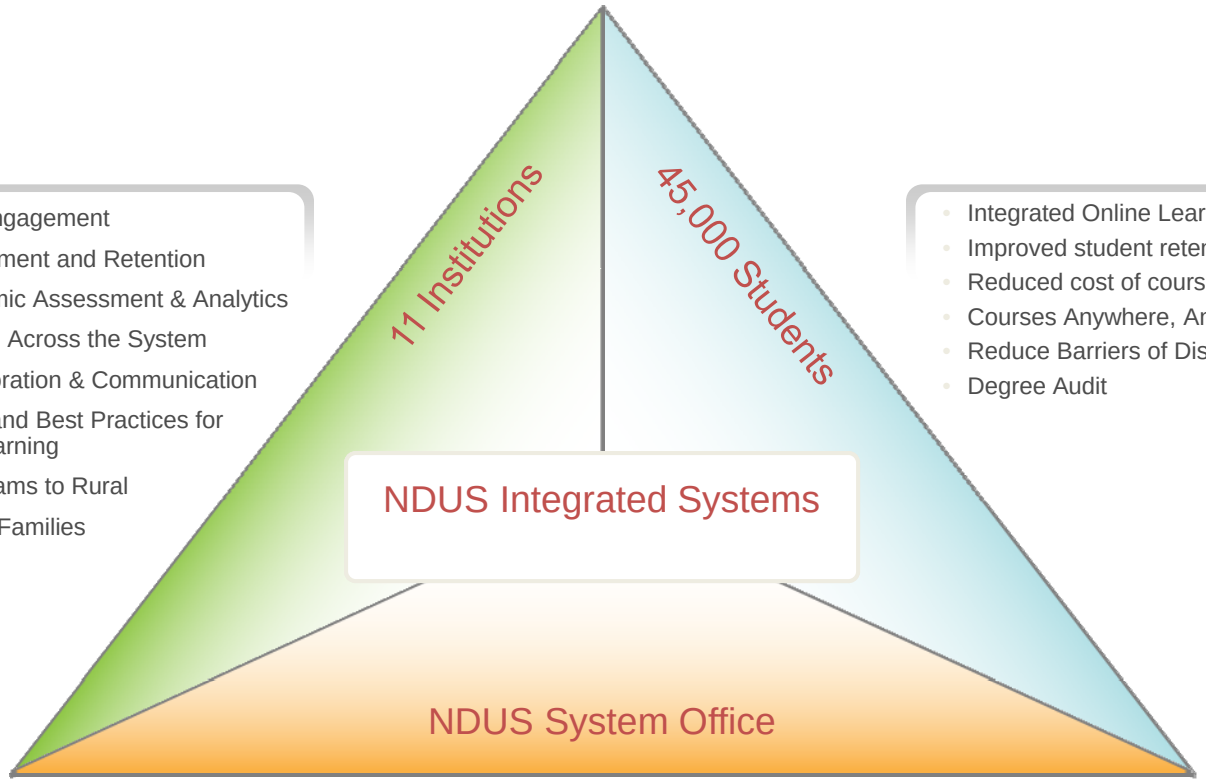
- One-Time Funding for Technology Infrastructure Enhancements ($3.2 M)
  - For both System and Institutional enhancements to enhance efficiency, foster collaboration and student success
  - Software and hardware to build infrastructure to support system-wide solutions
  - Matching funds to provide incentives to institutions to speed improvements necessary for collaborative efforts

IT Budget Related Items 2011-2013

- Joint Data Center Facility NDUS/UND ($17.6 M)
  - Current Facility Extreme Risk
  - Staffing in six building locations
  - UND needs Tier II data center for research
  - Server as backup location and disaster site for the institutions

Seamless Integration Between Systems

- Better Student Engagement
- Improved Recruitment and Retention
- Improved Academic Assessment & Analytics
- Share Curriculum Across the System
- Improved Collaboration & Communication
- Faculty Support and Best Practices for Teaching and Learning
- Delivery of Programs to Rural
- Producers and Families



- Integrated Online Learning tools
- Improved student retention
- Reduced cost of course materials
- Courses Anywhere, Anytime
- Reduce Barriers of Distance
- Degree Audit

Supports System Strategic Goals – Part of Integrated Services Strategy

Longitudinal View of Student Data for entire System

- Capture trending information across students, faculty, and programs
- Shared instructional Material Cost
- Use of Academic Assessment & Analytics across System
- Improves Opportunity to Sustain Rural Constituent Needs

Strategic Architecture Vision

Instruction, Research, Service

UND | NDSU | Minot | Dickinson | Mayville | VCSU | NDSCS | Williston | LRSC | Bismarck | Dakota

Cabinet & Councils

NDUS Strategic Plan

NDUS Procedures

Board Policies

State Law

Questions