

Infrastructure Software Development & Architecture (ISDA)

Wilson D'Souza
July 31, 2008



Agenda

- People
- FY08 - A look back
- ISDA Strategic Plan
 - Break - 15 mins
- FY09 Priorities for ISDA and IS&T
- Guiding Principles
- Organization
 - Q&A
- Cruise : 3:45

People

Awards & Recognitions

- Dave Tanner - awarded the Spotlight Award by Mark Damian from SAIS for his outstanding work on the web services work for the UA project
- Maija Ahlquist - award a special award by John Donnelly from the VP Finance team for her tremendous efforts in analyzing their financial reporting needs and executing on some complex dashboards and reports.

Promotions

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- Janet Riley Bowker

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- Qing Dong

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- Joanna Proulx
- Thomas Yu
- Bryan Murray

FY08 - A look back

FY08 - A look back at our projects

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- Launch of the MIT Kerberos Consortium
- Wiki Service
- Data Warehouse upgrade
- Web Services for UA System
- Touchstone, Thalia in pilot
- Stellar 2.1 release

FY08 - Challenges we faced

- ISDA management gaps
- Communications
- Listening to the customer - who is the customer?
- Collaboration within ISDA and with our service partners in IS&T
- Project oversight
- Too many goals
- Long term view and commitment
- Working with external partners (incl vendors)

Opportunities

- Lightweight process for significantly improving our communications and collaboration
- Decision-making that is informed and collaborative
- Tight management of our work and deliverables (incl dependencies)
- Better understanding of our infrastructure
- Outreach and Marketing across the board
- Refining our Service Delivery process

ISDA 3 Year Strategic Plan

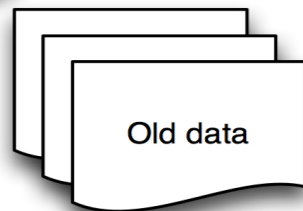
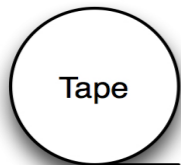
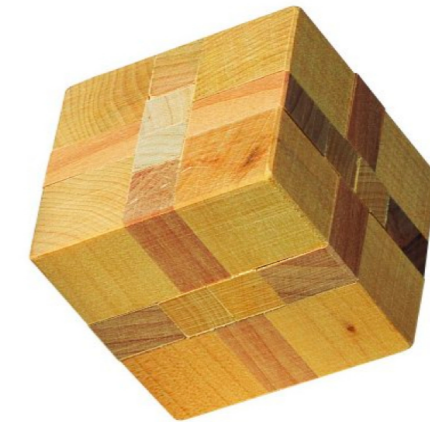
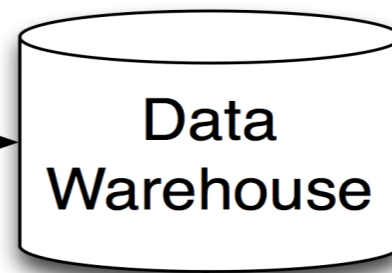
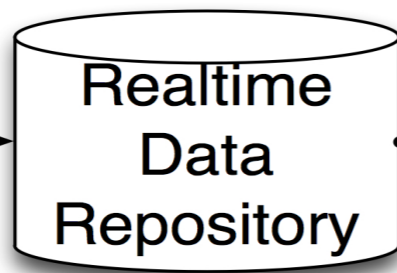
Components of Strategy

- Data Services
- Identity Services
- Developer Services & Tools
- Content & Collaboration Services
- Kerberos

Data Services Architecture

ANY FORMAT

ANY WAY



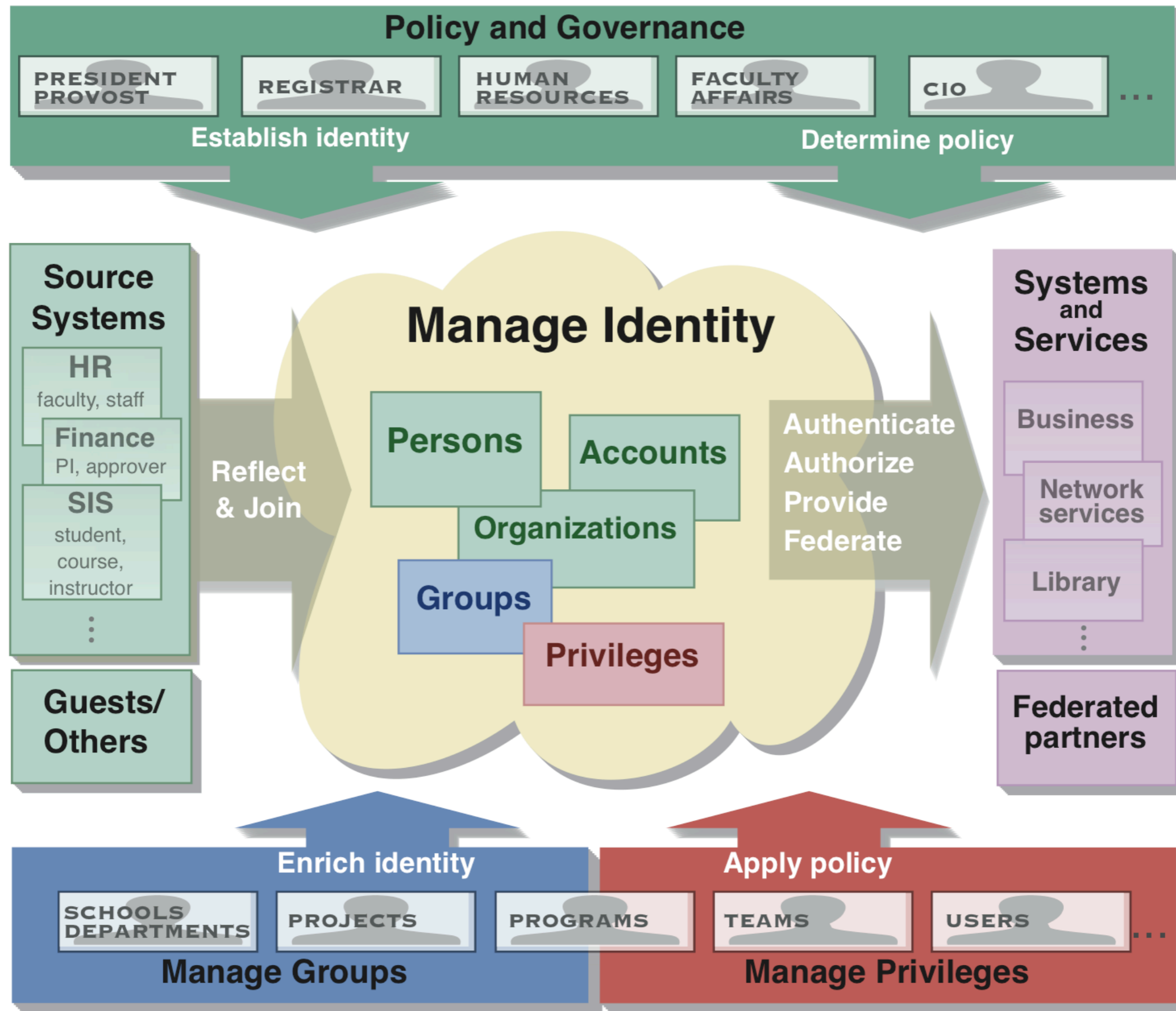
ANY DATA



ANY SOURCE



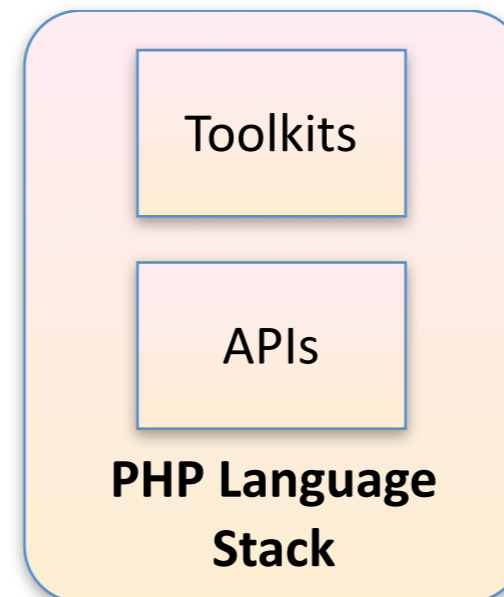
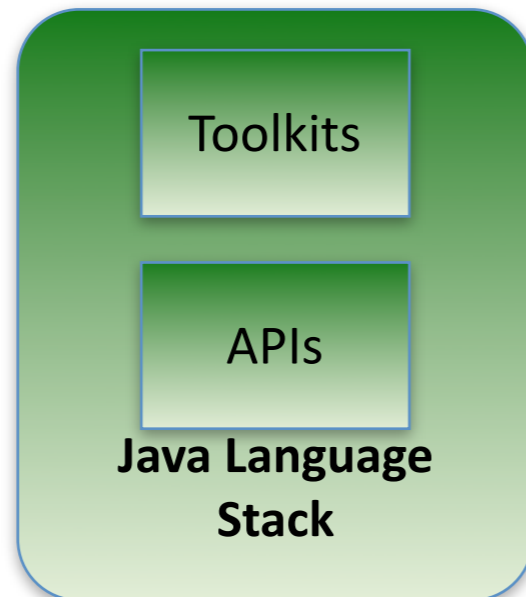
Identity Services Architecture



Developer Services & Tools Architecture

Dev Tools

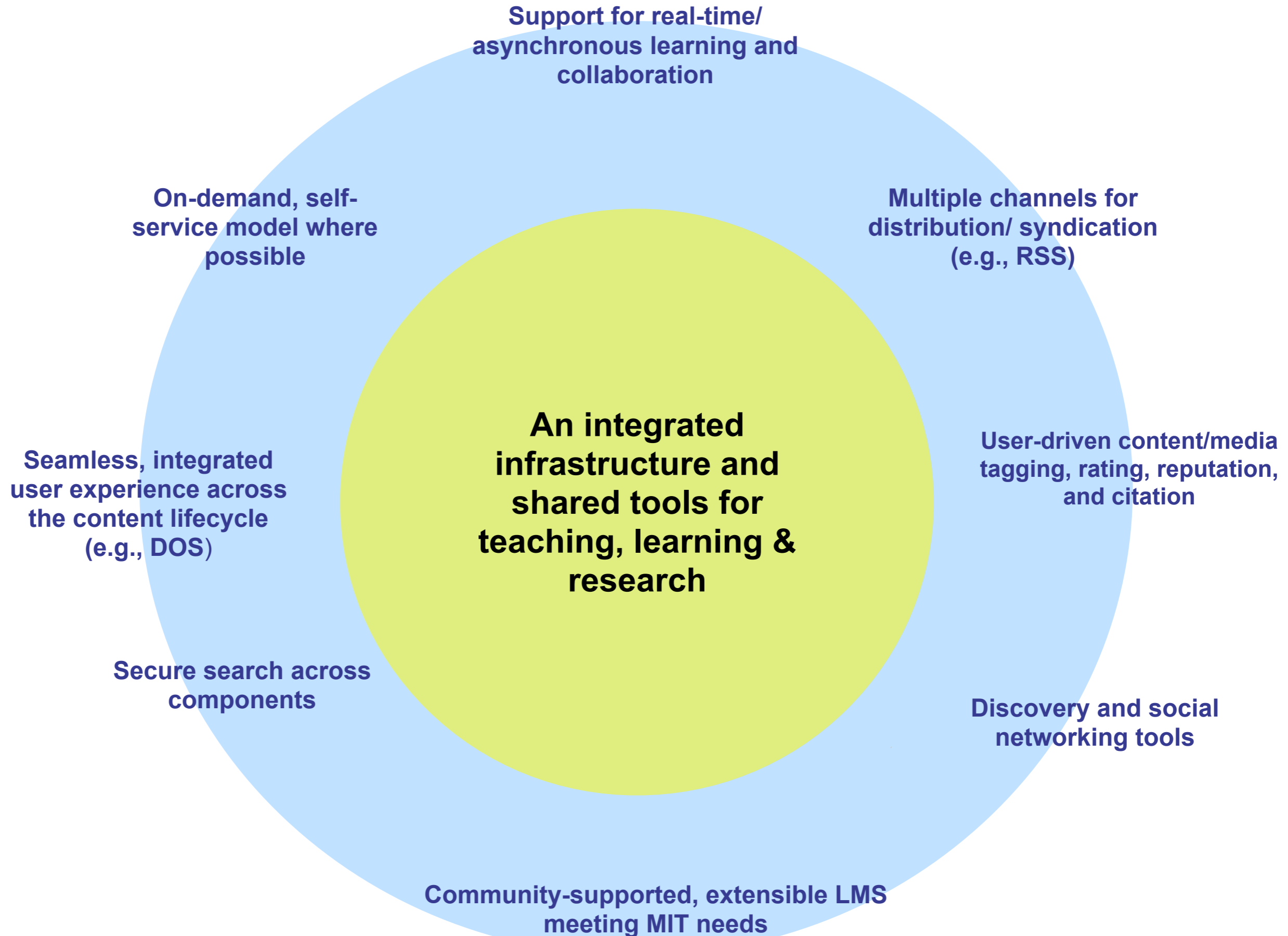
- IDE
- Source code management
- Build and Dependency management
- Continuous Integration
- Code browsing
- Code analysis
- Issue management
- Performance testing
- ...



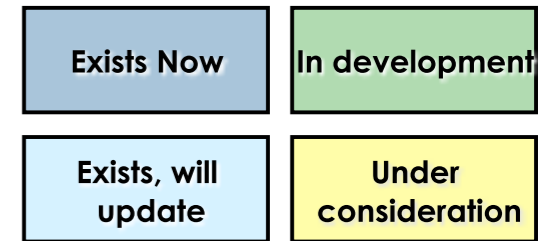
... (n stacks)

MIT
infrastructure
services

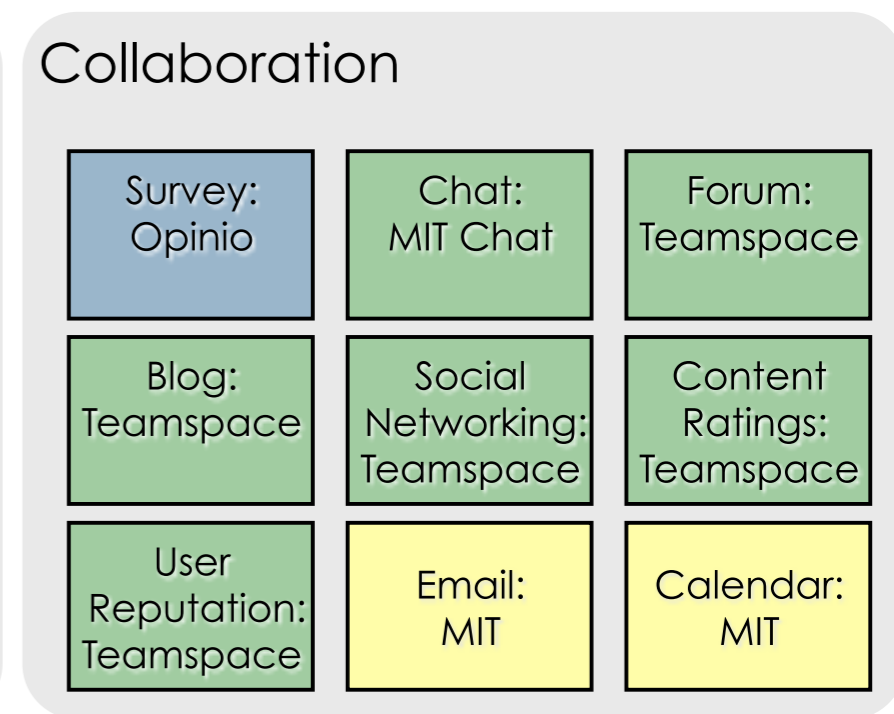
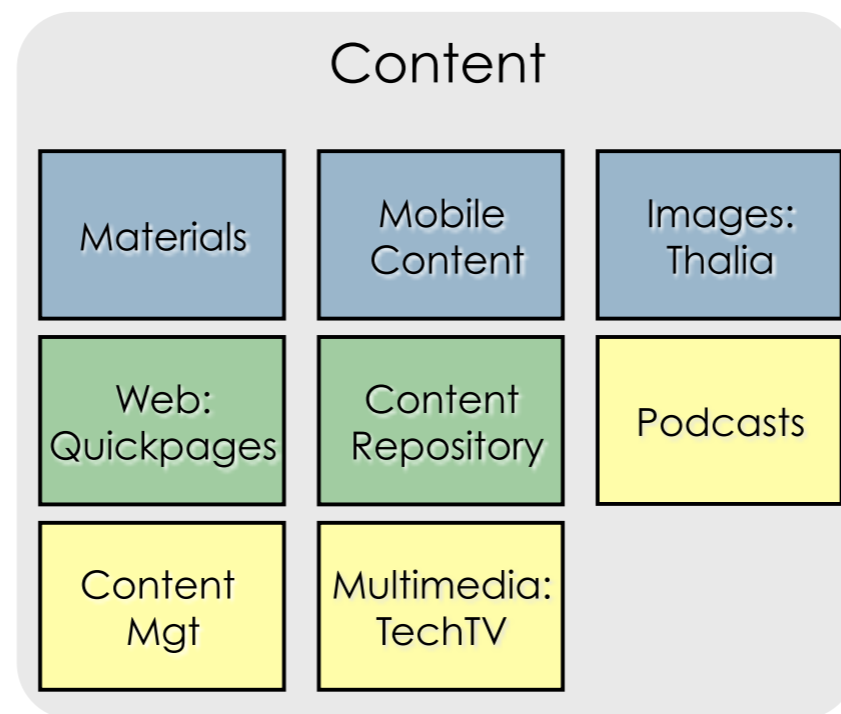
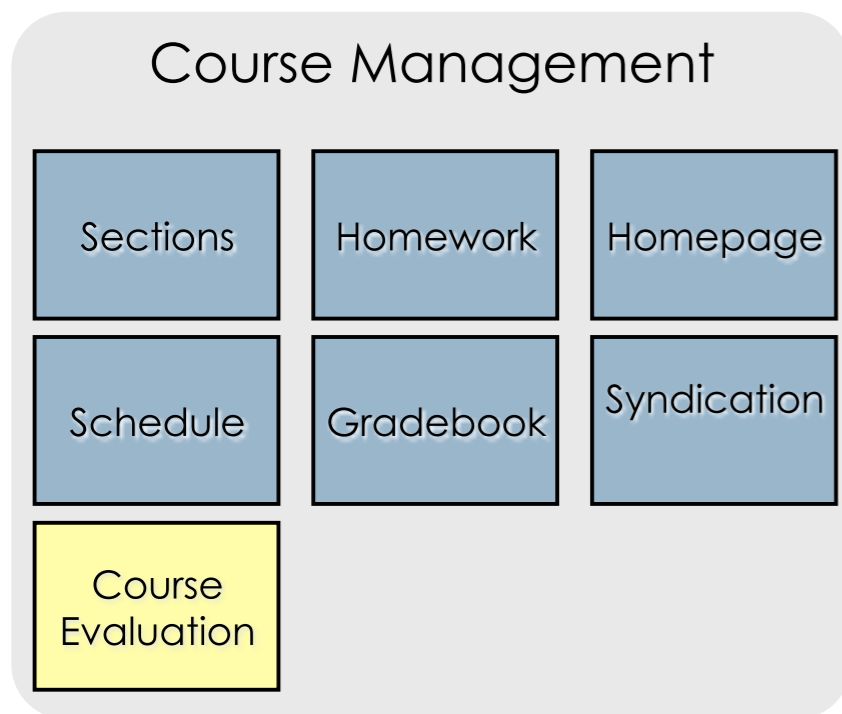
CCS Vision



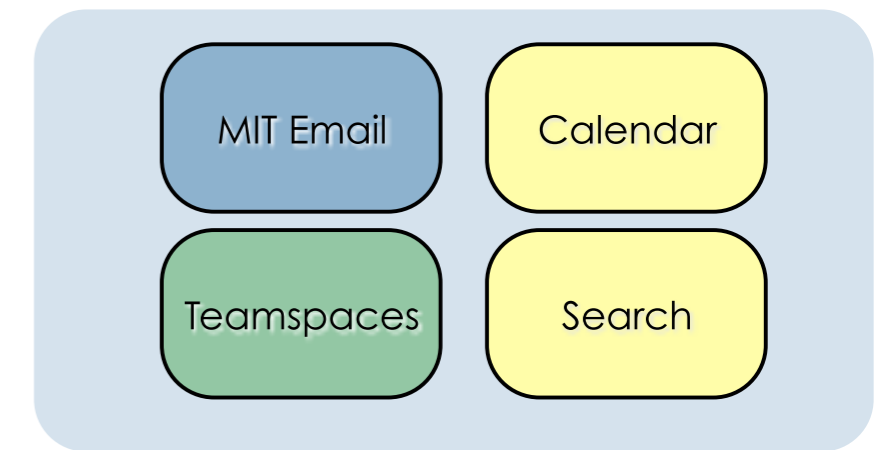
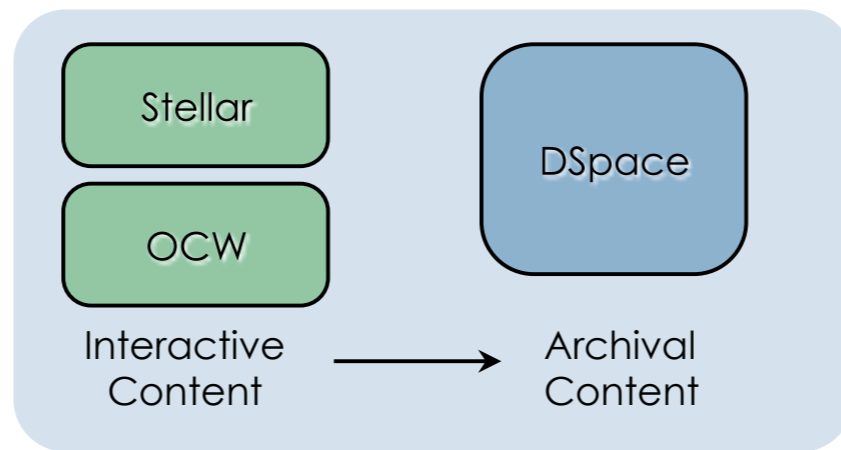
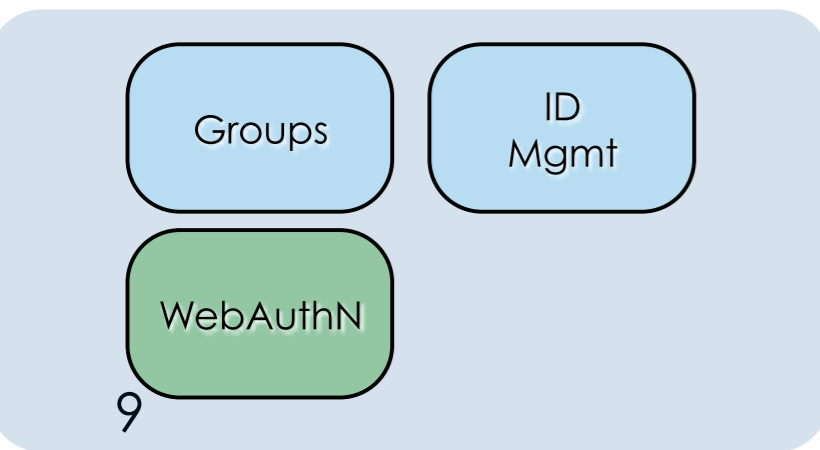
CCS Architecture



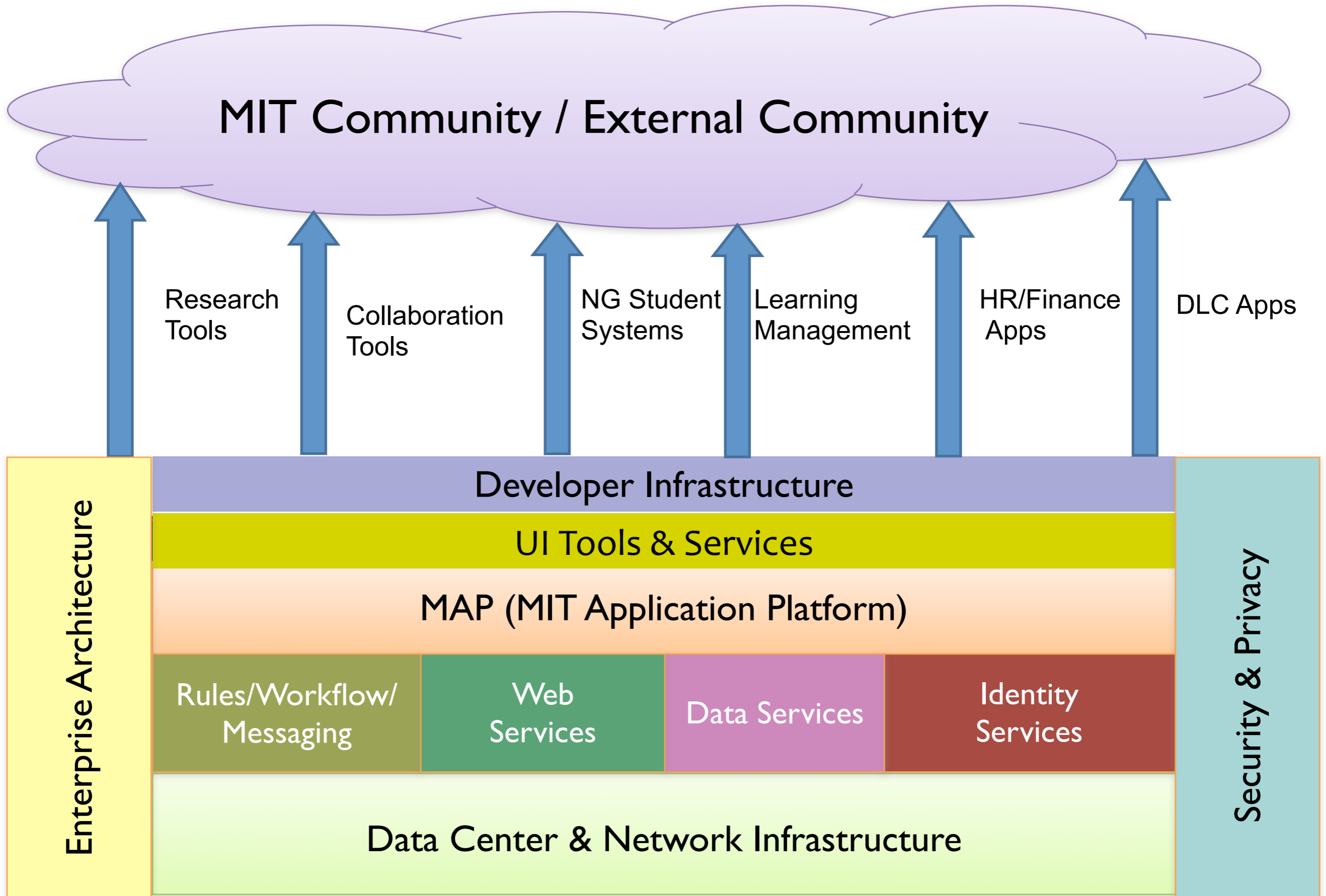
TOOLS



SERVICES



An Integrated Architecture for Applications



Kerberos Consortium Goals

Prepare Kerberos to meet future challenges so that tomorrow's Kerberos will be attractive in tomorrow's environment.

- Progress Towards Four Pillars:
 - Kerberos on the Web
 - Understand and analyze Kerberos for web services and federation.
 - Kerberos for Mobile Devices
 - Lightweight and low power
 - Building and Securing Kerberos
 - Improving security and flexibility
- Vendor Independence
 - Support open innovation and product differentiation.

FY09 Priorities for ISDA & IS&T

Our Aspirations

- To be the **best** IT Services organization in higher-ed, that is aligned with MIT's mission around teaching, learning and research
- Providing the best customer experience - support and services
- Reducing time to market and costs of new services to the community
- Enable the community to innovate by providing easy to use services (data et al) and infrastructure
- Become an “Employer of Choice” for the best technology and business talent.
- Recognized as a entity that fosters creativity, talent and growth with balanced work/life

ISDA Strategic Goals

- Implement a set of policies and procedures, in alignment with MIT/IS&T, on how we run the business of ISDA
- Workforce development (working collaboratively with HR)
- To provide a rich set of data management services & tools with a robust data governance model
- Define and execute on the portfolio for Content and Collaboration software services

ISDA Strategic Goals

- Provide a rich foundation and framework for identity services
- Deliver a set of services to the development community that allows them to integrate with MIT infrastructure
- Progress towards making Kerberos the universal authentication system for the world's computer networks

Key ISDA Initiatives for FY09

- DOS (DSpace, OCW and Stellar integration)
- Future of LMS platform
- MIT Touchstone
- Managed Data Services
- Developer Tools & Services
- Kerberos on mobile platforms
- Deliver Thalia and QuickPages into production
- Athena 10
- Quali Student - Architecture, Components

IS&T FY09 Priorities

(XDPP/VP-Staff will prioritize)

- Next Generation Student Systems/Kuali Student
- DOS
- eMail/Calendaring
- VoIP Rollout
- Data Centers (relocation, virtualization, new DC's)
- Identity Services (Touchstone, perMIT, Kerberos)
- HR Payroll
- Next Gen WiFi rollout (802.11n)

Guiding Principles

Guiding Principles

- Staff On Boarding Process aligned with HR
- Projects/Work
- Purchasing/Procurement
- Community/Customer/External Partners Engagement
- Software Development Life-cycle and Best Practices
- Communications
- Decision Making
- Collaboration & Consensus Building
- Mentoring/Coaching

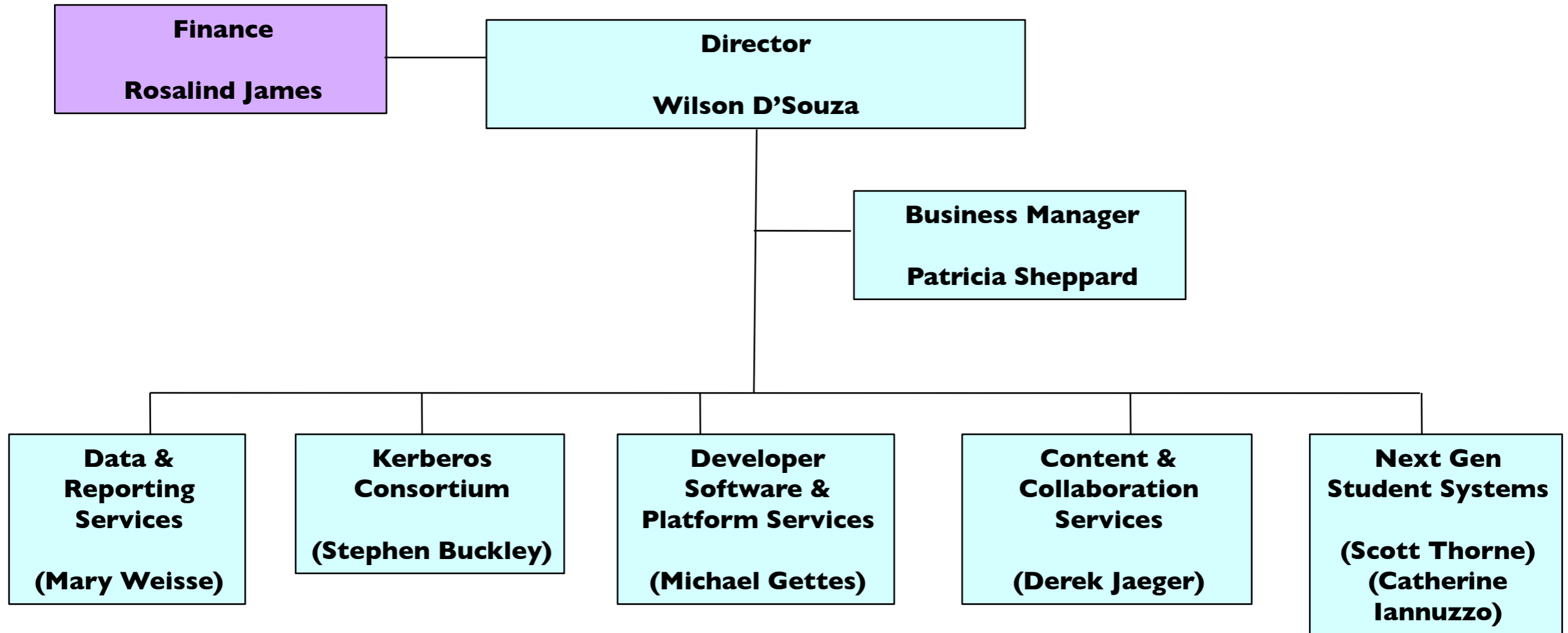
Organization

So what does this all mean?



- We need to structure our work and resources towards the success of our key initiatives
- Structure that promotes better leverage and collaboration
- Get our people aligned with critical efforts
- Build on common tools and practices

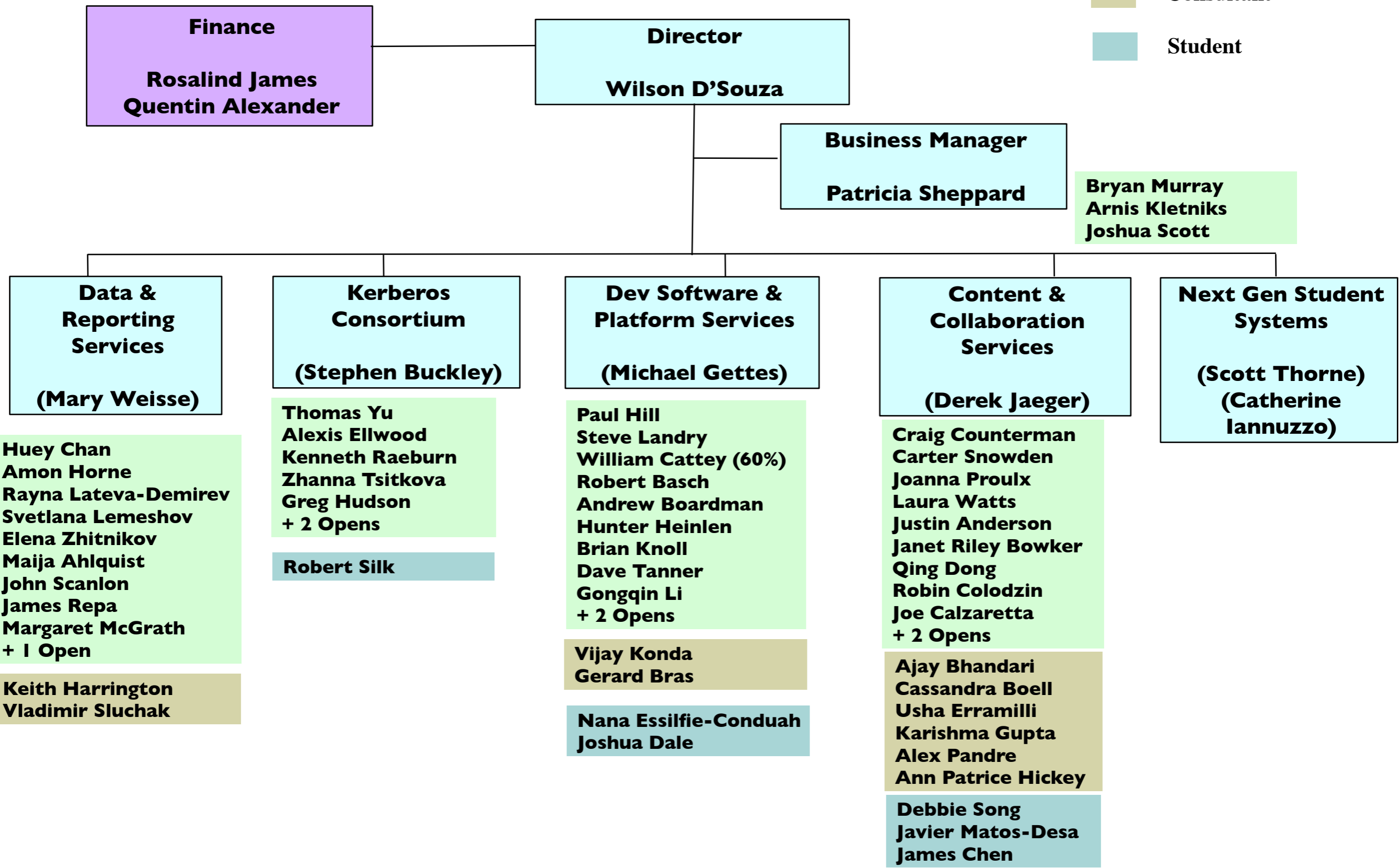
An Organization to execute the vision

ISDA Management Team

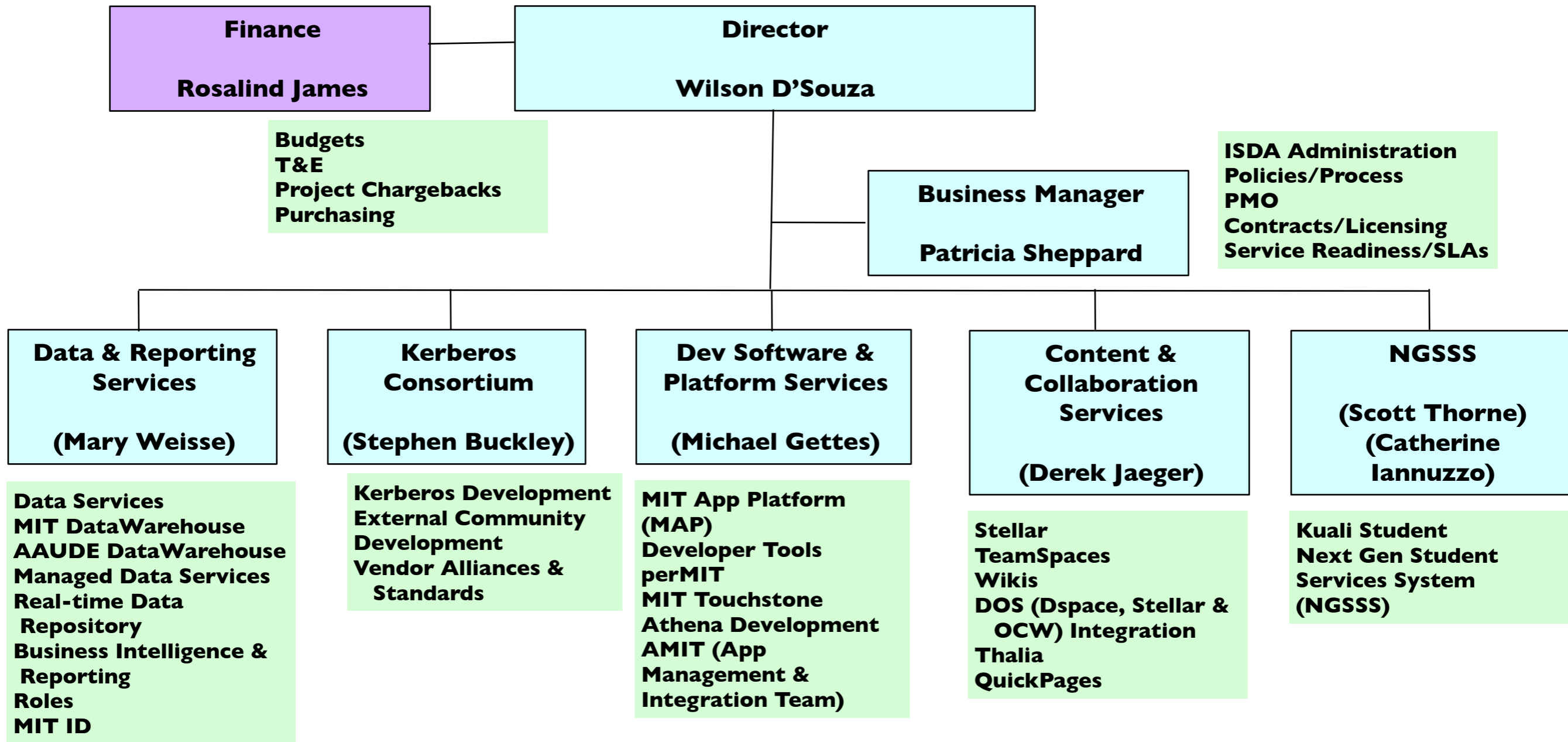


Organization effective Aug 1, 2008

 Consultant
 Student



Products & Services



Thank You