Continuity Planning Tool
Kuali Ready & University of Illinois Ready

- Web-Based System adopted by all three campuses of the University of Illinois system

- Step by step guide to create a Business Continuity Plan that identifies:
  - Critical Functions
  - Information and Strategies
  - Action Items

- Open Source Enterprise Software
  - Functional Buttons
  - Pull-Down Menus
  - Free-Form Entry Options
  - Hosted Application

- Offered by Kuali Foundation
  - Not-For-Profit University Consortium

- University of Illinois is a founding partner
  - Seat/Vote on Project Board
Continuity Planning Tool
High Quality of Services

- **Extensibility** – features & modules
- **Reusability** – components & APIs
- **Scalability** – software architecture & infrastructure
- **Availability** – 99.9% uptime
- **Security** – security + privacy
- **Performance** - under load

University of Illinois
Urbana-Champaign • Chicago • Springfield
Continuity Planning Tool
Software Architecture

- **Rich Web 2.0 User Experience**
  - Google Web ToolKit (GWT)
  - Struts 2 JavaServer Pages (JSP)

- **Struts 2 with Spring**
  - SOA-ready, MVC, AOP
  - Transaction Management
  - Inversion of Control: component configuration; object lifecycle management

- **JPA with Hibernate**

- **JasperReports** – widely adopted open source reporting engine

- **Direct Login and Federated Identity Management**
  - Role-Based Spring Security
  - SAML & Shibboleth
  - Identify Providers & Service Providers
Continuity Planning Tool
Infrastructure Architecture & Development Methodology & Process

- High Availability & Scalability Architecture
  - USA
    - 2 dedicated VM servers with failover & load balancing (sticky-session)
    - 2 database servers with failover
    - Active Site Failover
  - CAN
    - 1 VM Web Application Server
    - 1 Database Server
    - Active Site Failover

- Agile & Rational Unified Process
  - Adaptive Lightweight Iterative Development Process
  - Inception, Elaboration, Construction, & Transition Phases

- Proof-of-Concept
  - Validate Designs
  - Confirm Technical Feasibility, Scope, and Efforts
  - Address potential Issues and Mitigate Risks

- Continuous Integration
  - Frequent Commits, Builds, & Testing
  - Automated Builds & Deployments
  - Automated Testing
  - Access to Latest & Greatest
Continuity Planning Tool
Security & Privacy

- Secure by Design
  - Best Practices
  - IBM AppScan
  - Institution-based User Accounts
  - Direct-Login moderation features
  - Encryptions

- Built-in Privacy for Multi-Tenant Service
  - Built-in Data Constraints
    - Plan – owned by one and only one institution.
    - User – assigned to one and only one institution.
    - Associated plan data
  - Application-level constraints
    - Domain Model
    - Authentication & Role-Based Authorization
    - Plan Access Restrictions
Service Delivery

- **United States Site:**
  - UC Berkley
  - UCLA

- **Canadian Site:**
  - University of British Columbia
  - University of Toronto
Continuity Planning Tool
Process Model
Continuity Planning Tool
Process Model – Production Environment (Multi-Site Single Country)
Continuity Planning Tool
Readiness is an Ongoing Process

1. Critical Functions
2. Information & Strategies
3. Action Items

Create Plan

Revise Action Items

Annual Review / Exercise Session (Review Action Items)

Do Action Items

Constant State of Readiness
Thank You!