

# Kuali-Coeus Sustainability Model

## Background

During the October 2008 annual strategic planning meeting, the Coeus Consortium's Steering Committee developed a product roadmap and a technology transition plan for the next major release of Coeus, Version 5.0, which is currently known as Kuali Coeus 3.1 (KC) by the Kuali Foundation. This roadmap outlines the convergence of Coeus and KC. The partnership between the Kuali Foundation and the Coeus Consortium combines a collaborative software development model with a proven model for software support. One significant result of convergence will be advances in the overall Coeus architecture that will ensure continuance of a robust, state-of-the-art, cradle-to-grave research administration system.

*The Coeus Consortium* – The Coeus Consortium was established in July 2005 to provide a shared model of support for the members' use of Coeus. The Consortium is currently comprised of over 50 institutions at various levels of membership (Basic, Development and Steering Committee). The Consortium holds monthly subcommittee meetings, writes functional design specifications for enhanced functionality, and provides structured QA testing of new releases. As the Coeus Consortium manages its convergence with the Kuali Coeus Community, its members will continue to receive support for their Coeus implementations for at least 18 months after the terminal release of the Coeus software, as well as migration support to implement the upgrade to Kuali Coeus 3.1.

*The Kuali Foundation* – The Kuali Foundation is a non-profit organization responsible for sustaining and evolving administrative software that meets the needs of all Carnegie Class institutions. Its members are colleges, universities, commercial firms and interested organizations that share a common vision of open, modular, and distributed systems for their software requirements. The goal of Kuali is to bring the proven functionality of legacy applications to the ease and universality of online services.

The Kuali Foundation manages a growing portfolio of enterprise software applications for colleges and universities, such as Kuali Financial System (KFS), Kuali Student (KS), Kuali Rice and now, Kuali Coeus (KC). Each of these applications must establish a sustainability model to manage the long-term maintenance and continued development of the application. Organizations that choose to participate and influence the direction of the KC application are known as Sustaining Partners. Sustaining Partners will coordinate the activities for critical software development, such as source code control, release engineering, packaging, documentation, project management, software testing and quality assurance, conference planning, and educating and assisting members of the Kuali Partners program.

The sustaining organization for the KC application will encompass many of the processes, resources, and infrastructure used by the other Kuali applications already in place within the Foundation. It is important and valuable to leverage this experience as the KC sustaining organization must respond frequently and quickly to changes in federal research requirements. Examples of these include: changes in submission requirements at the agency level where funding opportunities are created, changes in the electronic vehicles used to process applications, changes in reporting requirements and award establishment, and changes in compliance requirements. Due to this ever-shifting landscape, the sustaining organization must

be able to react quickly and provide its users with timely and accurate application enhancements. It is in this spirit that the following KC sustainability organizational structure is proposed.

Refer to **Appendices A** (*Coeus Steering Committee Sets Roadmap for Transition to Kuali Coeus Research Administration*) and **B** (*KC & Coeus Development Merger Timeline*) for more details.

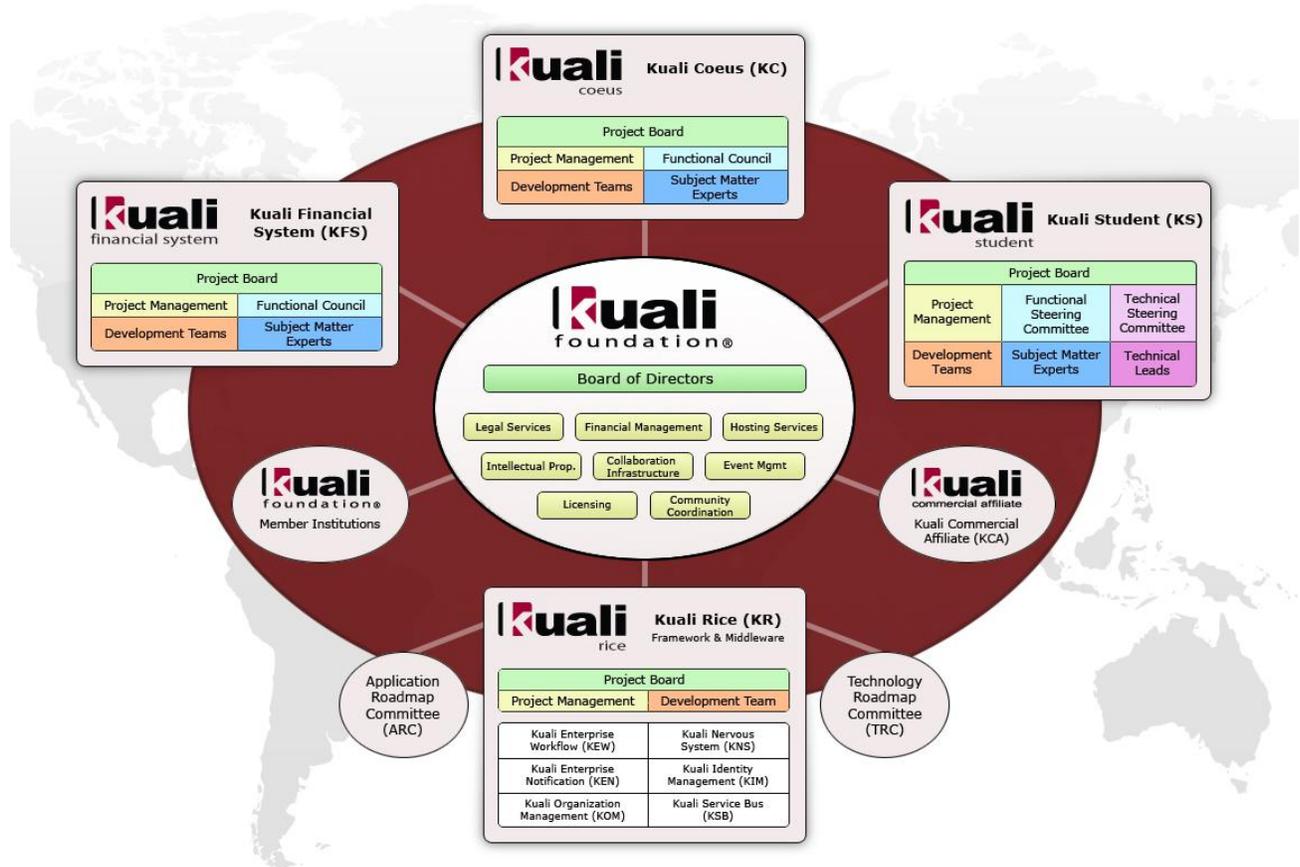
### The name

The Kuali-Coeus Community (KCC).

### The model

KCC will operate in the spirit of the other Kuali family applications and will utilize the Kuali supported work and middleware, offering the application software and documentation for free while providing additional services to its members for a fee. The organization will also take advantage of the successful support model demonstrated by the Coeus Consortium over the last 5 years.

## The Organization of Kuali



## Servers and hardware

The Kualu Foundation will maintain the hardware necessary to carry out the mission of the KCC. These servers will house multiple instances of the software used for QA, code development and support for multiple versions of the application. The Kualu Foundation has the processes and personnel needed to manage and maintain this technology resource. These technical resources (hardware, software and people) provided by the Kualu Foundation will require KCC to pay for its share of these expenses to the Kualu Foundation.

## KCC Structure

### *KCC Project Board*

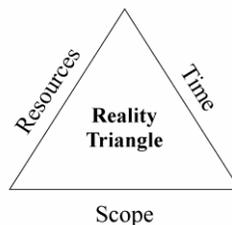
The KCC Project Board will ensure the financial health and will be responsible for the operating procedures of the KCC. They will also ensure that assigned resources are effective in meeting the goals of the KCC.

- Members come from the Functional Council
- Strategic Operational Planning – to include membership levels and pricing strategies
- Marketing and Outreach
- The Board will function as the liaison to the Kualu Foundation Board.

### *KCC Functional Council (Sustaining Partners)*

The KCC Functional Council will consist of Sustaining Partners who pay to join the group.

Responsibilities - The Functional Council is responsible for “the reality triangle”.



- Trusted gatekeeper and control of what is included in the application
- Strategic planning / developing the roadmap of the KC program
- Quality of the code and the documentation
- Release schedules
- Software system specifications and testing by the SMEs
- Prioritization of development

Benefits and Services - Sustaining Partners have access to the following benefits and services:

- A vote on all decisions made by the Functional Council
- Application support help desk
- User documentation

- Application documentation
- Access to, and assistance with, migration scripts to implement the upgrade from Coeus 4.5.x to Quali Coeus
- Preferred access to the technical and functional boot camps, as well as free use of the regular webinars that will address very specific application and technical aspects of the KC application.
- Access to the KCC code development team at a reduced rate. There are many users who do not have their own resources for code customization and who may join the Functional Council as a means of accessing development support for their organization. Enhancement requests that do not get voted into a specific release by the Functional Council may be pursued by individual Sustaining Partners using the programming resources of the KCC. All of these enhancement requests, whether voted in by the Functional Council or paid for by an individual partner will go through the same review and functional specification development process.

#### Subject Matter Expert (SME) Groups

- The KCC will include SME groups (substantially equivalent to the Coeus Consortium subcommittees) who will review, investigate, and discuss issues related to a specific topic or module. Each group will then make recommendations to the Functional Council for approval. The SMEs will be made up of experienced users from the KCC Functional Council members and Basic Partners in any of the specific subject areas, such as (but not limited to): Proposal Development SME, Compliance SME, Award SME, etc...

The KCC Project Board and the Functional Council will work in partnership, with the Functional Council keeping the Board informed about any resource issue, and the Board keeping the Functional Council informed of any changes in finances/operations that may affect their activities.

#### *KCC Basic Partners*

KCC Basic Partners will have no voting rights, nor will they have a seat at the Functional Council discussions. This is a pay-for-support membership level only. KCC Basic Partners have access to the following services for their membership fee:

- Application support help desk
- User documentation
- Application documentation
- Access to, and assistance with, migration scripts to implement the upgrade from Coeus 4.5.x to Quali Coeus 3.1
- As seating allows and for a reduced fee, access to the technical and functional boot camps, and the regular webinars that will address very specific application and technical aspects of the KC application.
- Participation in the SME groups

#### *KCC Adopter*

- User documentation

- Application documentation
- As seating allows and for full price, access to the technical and functional boot camps, and the regular webinars that will address very specific functional and technical aspects of the KC application.

### Summary of Benefits for KCC Partners, Members & Adopters

Membership level	A Vote at the KCC	Eligible for Nomination to the KCC Project Board	Access to KCC developers at a reduced rate	Application help desk	Coeus to KC migration support	Preferred pricing at KualI training and events	User Docs	App Docs	SME Participation
KCC Sustaining Partner	X	X	X	X	X	X	X	X	X
KCC Basic Partner				X	X	X	X	X	X
KCC Adopter							X	X	

### KCC Software Development Resources and Process

The KCC will maintain, and have at its disposal, a team of software developers. The current Coeus Consortium expanded the original software development team to include an organization that utilized off-shore programmers. This model proved to be a cost-effective and manageable approach to increasing the functionality of Coeus over time. The KualI-Coeus efforts have been successfully managed by using development resources from each of their Partners. The KCC will leverage the benefits of each of these approaches and will maintain software development resources which will develop new code under the direction of the KCC and which will also be made available to the Sustaining Partners. These developers will also provide technical advice and consultation to the Functional Council as decisions are required on technical issues.

Code will be developed by the KCC resources at the direction of the KCC, but could also be developed independently by any of the KC user community. Any new code developed for the application must be submitted to the KCC for review. The KCC and its resources (to include the software development resources, the SMEs, and any relevant cross-functional KualI teams) will review the software submitted and determine if it will be included in the application base code.

### Transition Plan

In October 2008, The Coeus Steering Committee adopted a plan to converge its application with the KualI Research Administration software. This decision was made after many months of careful consideration and debate. A timeline and a plan were established for this integration and the Coeus Consortium began its efforts with the KualI Foundation to merge the two development efforts.

As this process is completed, the two groups will become one - the Kuali Coeus Community. The KCC will manage, maintain and expand the functionality of the Kuali-Coeus software product, and support its members in their implementations of the system. Now that the decision to move forward has been made and people from each group are working together to make this convergence a success, the creation of the KCC and the process of merging the two organizations must proceed quickly. It must be clear to all of our current institutions and future Partners that we are one organization, working together to make the convergence a success and to support all of our current Coeus users as they plan their upgrade to Kuali-Coeus.

While they adopted the convergence plan, the Coeus Steering Committee also recognized that many Coeus users will continue to use Coeus, even after the convergence of the two applications. The Consortium agreed to provide support and bug fixes for at least 18 months after convergence to those members who maintain at least a Basic Partnership in the KCC.

## **Appendix A**

### **2008 Press Release**

#### **Coeus Steering Committee Sets Roadmap for Transition to Kuali Coeus Research Administration**

At its annual strategic planning meeting, the Coeus Consortium Steering Committee developed a product roadmap and a technology transition plan for the next major release of Coeus, Version 5.0, which will be released as Kuali Coeus 3.1 (KC). This will complete the convergence of Coeus and KC which is currently underway. KC 3.1 is targeted for release the second quarter of 2011. The partnership between the Coeus Consortium and the Kuali Foundation combines a collaborative software development model with a proven model for support. One significant result of convergence will be advances in the overall Coeus architecture that will ensure continuance of a robust, state-of-the-art, cradle-to-grave research administration system.

Over the next year, the Coeus Steering Committee will continue to develop strategies to support the Coeus community as it upgrades to the new Kuali Coeus architecture. In addition, the Committee will release regular updates to its membership on plans to support and develop Coeus/KC while maintaining transitional support for the existing Coeus 4.x product line.

#### Blending Coeus and KC

The Kuali Foundation chose Coeus as the basis for its research administration software and licensed Coeus from MIT in June 2006. Coeus is the basis upon which KC, a community source software product, is built. The Coeus Consortium will continue to develop additional functionality and continue its proven support model with KC's look-and-feel for the end-user and underlying architecture for the technology professional. This is consistent with the Foundation's philosophy, which calls on higher education institutions and commercial affiliates to collaborate as partners in the design, development and support of its applications.

To achieve the integration between Coeus and KC, MIT and the Coeus Consortium now hold five seats on the various Kuali boards, councils and subcommittees that are charged with completing the Kuali Coeus research administration system project. Coeus and Kuali technical and functional representatives have been working together on the transition, as well as on the development of new Coeus/KC functions and modules. This teamwork will ensure that the Coeus Consortium members have a successful upgrade path to Coeus 5.0 without losing any of the robust functionality that is unsurpassed by other research administration systems. As in the past, the Coeus Consortium will continue as the primary intellectual resource for versions beyond Coeus 5.0.

#### Advancing the Coeus Architecture

Coeus has undergone two major technology transformations since its inception in 1996, when it was originally developed using the PowerBuilder development application. MIT and the Coeus Consortium invested millions of dollars to move the technology from a PowerBuilder to a Java

Swing version (Coeus Premium) in 2005. CoeusLite, using JSP, was introduced in early 2007 to make use of web interface technology. Unlike these past technical improvements for which the Coeus Consortium expended its own resources, the collaboration with the Kuali Foundation advances the underlying technology with minimal cost to the Consortium membership.

The Kuali Coeus product combines the full functionality available in Coeus Premium with an easy to navigate web application using technology advances utilized by Kuali's Rice architecture. The Kuali Rice effort will provide an enterprise class middleware suite of integrated products that will allow KC to be built in a more fluid fashion. This will enable developers to react to end-user business requirements in a more efficient and productive manner, so that they can produce high quality and robust business applications. Additionally, KC allows institutions flexibility to take advantage of an open-source database solution, or to continue using Oracle or other database platforms.

### Moving Functionality Forward

Enhancements included in Coeus Version 4.4, scheduled for release in April 2009 were established in accordance with the governance procedures of the Consortium. Functional improvements to be included in Version 4.5 will be established under the same principles shortly after the Coeus User Group meeting to be held in San Antonio, Texas from March 22-25. The estimated release date of Coeus 4.5 is currently April 2010. The Consortium anticipates that Version 4.5 will be the final release of Coeus under the current technology standards. KC Version 3.1 will be functionally equivalent to Coeus Version 4.5, and is scheduled for release during the second quarter of 2011. At this time, institutions will be able to upgrade from Coeus v4.5 to v5.0 (KC 3.1).

The Coeus Consortium will outline plans for the transition, including migration paths, defining the new support model, and setting time lines, in 2009. The Consortium is committed to continuing a model that will solicit members, spearhead and prioritize changes to the application through its seats on the Kuali boards and councils, and provide support for its members.

The Kuali partnership, coupled with the Consortium's strong leadership in research administration, is a win-win for both organizations. We are excited about the future and look forward to continued growth in and benefits from the Coeus Consortium.

### About

*The Coeus Consortium* – The Coeus Consortium was established in July 2005 to provide a shared model of support for the members' use of Coeus. The Consortium is currently comprised of over 50 institutions at various levels of membership (Basic, Development and Steering Committee).

Coeus is an Electronic Research Administration system developed by the Massachusetts Institute of Technology (MIT) and named after the Greek Titan of Intelligence. Created to assist the research community in proposal development and pre- and post-award management, the

purpose of the system is to standardize and increase the efficiency of award acquisition and administration for all participants contributing to the research enterprise. Coeus now includes a comprehensive proposal development module including system-to-system submission of applications to Grants.gov; a robust award module that stores detailed information on awards (including reporting requirements with report tracking, terms and conditions, and subcontract management); award negotiation; human subjects protocol tracking and IRB meeting management; and Conflict of Interest disclosure submission. See [www.coeus.org](http://www.coeus.org) for more information.

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The Kualii Foundation manages a growing portfolio of enterprise software applications for colleges and universities, such as Kualii Financial System (KFS), Kualii Coeus (KC), Kualii Student (KS) and Kualii Rice. Foundation staff coordinate the activities of Foundation members for critical software development, such as source code control, release engineering, packaging, documentation, project management, software testing and quality assurance, conference planning, and educating and assisting members of the Kualii Partners program. See [www.kualii.org](http://www.kualii.org) for more information.

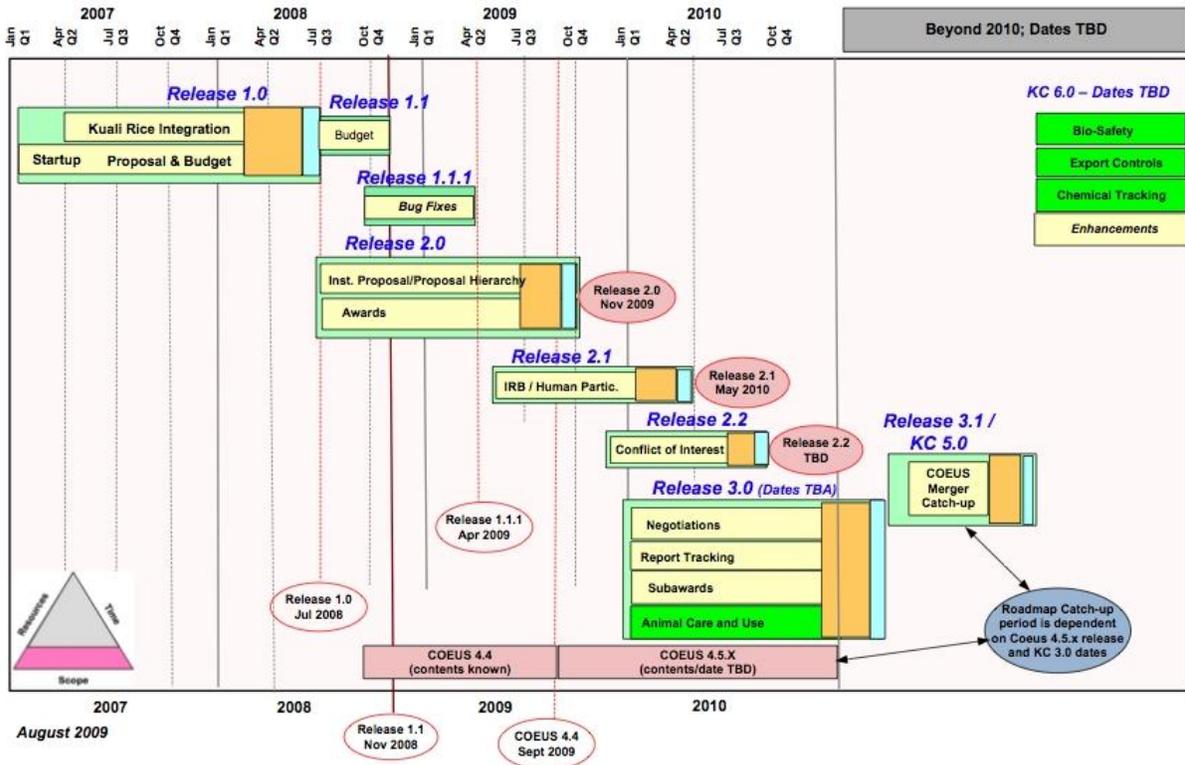
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# Appendix B



## KC & COEUS Development Merger Timeline

- Development
- Quality Assurance
- Deployment
- Modules are new to Coeus and Kuali



## Appendix C

### Draft Only

#### Kuali Coeus Community (KCC) Membership From

##### KCC Sustaining Partner –

- KCC Sustaining Partner Fee (foundation member): \_\_\_\_\_

- KCC Sustaining Partner Fee (non-member): \_\_\_\_\_

includes:

- Sustaining Partners will be voting members of the KCC Functional Council and eligible for nomination to the KCC Project Board.
- Preferred pricing at Kuali Coeus training events
- User and Application Documentation
- Existing Coeus users will receive migration support to Kuali Coeus
- Participation in the SME groups

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##### KCC Basic Partner –

- KCC Basic Partner Fee (foundation member): \_\_\_\_\_

- KCC Basic Partner Fee (non-member): \_\_\_\_\_

includes:

- Access to the Application Helpdesk
- User and Application Documentation
- Preferred pricing at Kuali Coeus training events
- Existing Coeus users will receive migration support to Kuali Coeus
- Participation in the SME groups