Introduction-
• The Office of Research Informatics (ORI)?

Product Updates-
• CTMS update – Julie Eckstrand
• LabVantage Biobank – Eric Hall (Product Manager)
• Research Management Data Mart – Tony Leiro (Product Manager)

The Office of Research Informatics?

Mission:
ORI provides quality support services to develop, implement, operate and manage Duke’s research programs, products and applications.
The Office of Research Informatics

Who are we?

Iain Sanderson
CRIO
Vice Dean

STEVE WOODY
Portfolio Management (financial and resource planning, architecture)

CORY ENNIS
Asst. Dean for IT Operations

PAULA MORRISON
Asst. Dean for Research Software Development

TONY LEIRO
Analyst and business development

Product managers

Financial Manager
Mitchella

Application support group

Software Development group

How do we implement and support our products?

Governance
Application User Group
Business owner

Product Manager

ORI

• Implementation
• Application Support (Tier 2,3 support)
• Application analysts
• Change Management
• Reporting
• Training (with DHTS)

DHTS

Enterprise Service Desk (Tier 1 support)

Infrastrucure and Hardware support

Catalog of Programs

• eIRB
• CTMS (eResearch)
• Research workflow in Maestro
• REDCap database provision
• Conflict of Interest (COI)
• Grants.Duke
• Sponsored Projects System
• Vivarium/Laboratory Animal management system
• IACUC (animal IRB) system
• Biorepository (LabVantage)
• The Research Management Data Mart
• The Shared Services application, Storefront and cores management (LabVantage)
• Analytics Workspace for Research
Catalog of Programs (Continued)

• Optimization of Maestro for Research
  – RIA’s
  – RFU
  – MyChart
• Investigator Portal, MyResearchHome@Duke
• The Data Governance and Stewardship Program
• Research self service (DEDUCE, i2b2 and SHRINE)
• Enhanced use of the Data warehouse for research (Marts, deidentification, data requests)
• Data management for research
• Research navigation support, MyResearchTeam@Duke
• The Common Services Application (SPARC)
• Scholars@Duke research networking (VIVO)

The current status of all ORI opportunities, projects and products may be viewed on the ORI wiki: https://ori.duke.edu/wiki

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eIRB – Status and Plans

• Vended system (Click Commerce)
  – User friendly user interface
  – Challenging for IT to support
• Has been stabilized
• Factors in plans for system:
  – eIRB has become de facto home for approvals/training/system information
  – eConsent
  – Synergy between systems

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Office of Research Informatics

Clinical Trials Management System (CTMS)

Julie Eckstrand

Duke University School of Medicine

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Vision

- To complement and enhance functionality already in Maestro research
- To provide technology solution(s) that help the research community:
  - Do their work (efficiency)
  - Monitor their work (productivity, compliance)
  - Report on their work (metrics, aggregation)

Opportunities/Challenges

- Governance: representative of key stakeholders
- Defining and prioritizing the needs of the community:
  - Participation of Subject Matter Experts
  - Promotion of Consistent business processes
  - Filling gaps not met in Maestro Research
- Implementing technology based paths that will:
  - Move data to where it needs to be (interfaces)
  - Be workflow-oriented
  - Include actionable alerts and notifications
  - Provide access to compiled information/reports with robust filters
LabVantage for Biobanking @ Duke

Eric R. Hall
Product Manager

Vision

To create an enterprise-wide system for managing the biospecimen collections throughout Duke that is stable, scalable and supportable.

LabVantage for biobanking will support and enhance the research portfolio at Duke by offering a common infrastructure and point of access for well curated biospecimens which are critical for many areas of basic and clinical research and provide

What Does This Mean for Duke

• Better tracking of biospecimens and greater adherence to good biobanking practice
• Centralized data location for physically dispersed collections
• Greater exposure for available specimens through Duke Index of Biospecimens
• Reduced operating costs
• Infrastructure designed with accreditation in mind
• Data handling capabilities that align with NIH grant expectations
Implementation Timeline – FY2015

Requirements, Development, Testing, Training (Phase I)

- CAGPM Go Live
- DNA Go Live

Proposed Template – Future Banks

* Development time is an estimate and is dependent on the complexity of the requirements, but should decrease for later banks as more functionality is available.

We are currently quoting a cycle time of 16 – 24 weeks.
Vision

Create the single source of truth for reporting of research administration information across Duke Medicine

- Integrate data from base operational systems such as SPS, eIRB, Maestro, Scholars, CTMS, and others to present a complete view of research projects
- Enable the ability to report information across project attributes such as sponsors, investigator, funding types, number of subjects enrolled etc.
- Create reports, dashboards, web services and apps from the data mart intended to assist in the management of individual projects as well as the CRU’s and Department’s overall research portfolio
- Ensure a solid foundation by leveraging existing architecture of the Enterprise Data Warehouse to build the RMDM

RMDM Architecture

Current Phase I – CTSA Site Based Metrics
Implementation Timeline

Fiscal Year 2015

Phase I Go Live
Site Based Research Metrics (Phase I)

Initial Load of DCRI (Coordinated Trial) Metrics

Phase I Rollout to Departments, Centers and Institutes

Migrate Raw Data from Data Sources

Initial Load of BDS (Comprehensive Trial) Metrics

Report/Dashboard Design and Development

Begin requirements gathering for next phase (Scholars, Elements, SPS?) for project output measurements

Load anticipated enrollments and non-bill risk actual enrollments

Cory Ennis
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Thank you!