IT Report

Robert Merion, MD
Chair, IT Advisory Committee

Alex Tulchinsky
Chief Technology Officer

June 24, 2014
Agenda

- Opening Remarks    Dr. Robert Merion
- IT Update          Alex Tulchinsky
## IT Advisory Committee

### Current Members
- Robert Merion, Chair
- James Gleason
- Marlon Levy

### Advisors
- Haris Basit
- Arthur Glasgow
- Tom Yackel

### New Members
- James Gleason, Chair
- Lloyd Ratner
- Susan Stuart

### Advisors
- Will be chosen by the new Committee
IT Update

People

Process

Technology

OPTN
IT Update

Current state: technology, people, process

Establish credibility

Engage the community

Build and execute on technology roadmap
Modularity Drives Time to Market

UNOS/OPTN

IT Industry

OPTN
Current UNET Technology

Small Changes …

Become Big Efforts…
IT Staffing / Organization Update
June 2013 – June 2014

Filled and Open Positions
• 58 positions filled
• 22 vacant positions
  • 8 posted positions
  • 14 positions on hold

Organization
• Go-forward organization – July 2014
• [Re]define roles – July & August 2014
• Identify and fill skill gaps – October 2014
• Organizational Capacity – October 2014
## Work Completed Since November 2013

**Building credibility by delivering on commitments**

<table>
<thead>
<tr>
<th>Task</th>
<th>Released on</th>
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<tbody>
<tr>
<td>Kidney Paired Donation (KPD)</td>
<td>December 2013</td>
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<tr>
<td>Modify requirements for mandatory HTLV-1/2 testing for all potential donors</td>
<td>January 2014</td>
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<tr>
<td>Reorganize hemodynamic data on adult heart Status 1A justification form</td>
<td>February 2014</td>
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<tr>
<td>Kidney Allocation System (KAS) – Ki/PA Wait Time</td>
<td>March 2014</td>
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<tr>
<td>Calculated Panel Reactive Antibody (CPRA)</td>
<td>March 2014</td>
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<tr>
<td>Modify Patient Safety Part 1: safety data entry and categorization</td>
<td>May 2014</td>
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<tr>
<td>VCA Program Type Added to Membership Application</td>
<td>May 2014</td>
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<tr>
<td>KAS – Phase 1 (Three major releases)</td>
<td>June 2014</td>
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<tr>
<td>DonorNet Enhancements (Non Policy)</td>
<td>April 2014</td>
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BOD Projects in Progress

- **KAS Phase 2**
  - Integrate EPTS calculation into a national kidney allocation system
  - December 2014

- **LAS – add bilirubin to lung algorithm**
  - Add parameters for survival modeling
  - Provide calculation results of wait list urgency and transplant survival measures to users
  - November 2014

- **Uniform National Pancreas Allocation**
  - Create a new kidney/pancreas and pancreas allocation system
  - October 2014

- **TIEDI and Office of Management and Budget (OMB) changes**
  - January 2015
Non-Policy Projects in Progress

- Electronic Tracking and Transport (ETT)
  - Integrate DonorNet’s import/export feature
- OPTN Website Redesign
- Screen candidates at Inactive Programs
- SharePoint 2013
- Password Reset

- Sep 2014
- Sep 2014
- Nov 2014
- June 2014
- November 2014
Upcoming Projects

- BOD: Reinstate the “No Appeal/No Withdraw” button for denied MELD/PELD exceptions
- Improvements to vessel disposition reporting
- BOD: Modify OPO and Transplant Center requirements
- BOD: Clarify data entry screens for A2 and A2B in Unet
- BOD: Potential Donor-Derived Disease Transmission Event (PDDTE) form
- BOD: Ped liver remove ICU requirement & modify ped liver hepatoblastoma
- BOD: Update HLA Equivalency tables
- Membership Form Automation
- UNET Technology Rebuild
IT Work Plan

**2014**
- **Q2**
  - Uniform National Pancreas Allocation

- **Q3**
  - KAS - Phase I
  - Revised Kidney Allocation System (KAS) - Phase II
  - KPD - Phase 4 (EW/WF)
    - Re-Instate No Appeal

- **Q4**
  - TIEDI C# Conversion
  - TIEDI and OMB Changes
  - LAS & "Other" Field to Diagnosis Data Element <12
  - Integrate DonorNet Import/Export into ETT
  - Membership Inactive Screening

**2015**
- **Q1**
  - HLA Equiv.
  - Mod OPO & Tx Pol 2.0 & 4.0
  - Donor Typing by DNA
  - Clarify A2-A2B
  - Ped Liver Remove ICU Req & Modify Liver Hepatoblastoma

- **Q2**
  - Improve Vessel
  - Require Report Nonutilized Living
  - "Other" Field to Diagnosis Data <12
  - Update DCD
  - Update PDDTE

**Future**
- Complete
- In Progress
- On Schedule/Budget
- Off Schedule/Budget

OPTN

UNOS DONATE LIFE
Engage with the Community

Establish Customer Council / Users Group

- **Objectives**
  - Understand the customer
  - Engage community in solution building
  - Deliver right solutions ... faster
  - Improve user experience

- **Target audience**
  - UNET users, practitioners
Beyond Just Policy Driven Change

BoD Projects

Community and UNOS Input

UNET

Allocation Changes

OPTN
The current disaster recovery site
- is not a practical solution to continuing operations
- Capacity constraints due to manual efforts and system resources
- Reverting back to primary site is difficult and time consuming

Initial Phase Goal – October 2014
- Define realistic functional continuity requirements
- Determine the gaps
- Develop a plan and schedule to close the gap and provide the proper level of business continuity

OPTN
Target Architecture

Modular Services operating independently of one another

Small changes have limited impact

User Interface

Front End

Business Logic

Algorithm layer

Business Logic

Database

Data layer

Business Logic

Database

Request
Getting to the Target Architecture

- IS NOT
  - An “All at once” project
  - Stop all other work
  - Short term effort

- IS
  - A fundamental change to how we build things going forward
  - An incremental effort that is part of every project
  - Worth doing and worth starting now

The best time to plant a tree was 20 years ago. The second best time is now.

-Chinese Proverb
Donation and Transplantation IT Needs

Donation and Transplantation Community Needs
UNOS/OPTN Functionality
Third Party Functionality

Needs vs. Functionality


OPTN
UNOS IT – Becoming a Catalyst

Move UNOS IT from a culture of maintenance to one of service

- Increase functionality
- Deliver solutions faster
- Improve user experience
- Engage community more
- Empower users
Thank you