IT Strategic Update

James Gleason  Chair, ITAC
Alex Tulchinsky  CTO, UNOS
Agenda

- ITAC Chair – Opening Remarks  Jim
- BOD Backlog and Key Projects Update  Alex
- UNOS IT Strategy  Alex
- Questions
ITAC 2014/15 Composition

ITAC members from UNOS board (3 voting members)

PATIENT AND DONOR AFFAIRS
President, TRIO
275 Green St., Suite 4M3
Beverly, NJ 08010
(609) 877-4405
gleasonjm@aol.com

* ITAC Chair

ITAC advisors from the IT community (3 non-voting members)

- Haris F. Basit
- Arthur (Art) L. Glasgow
- Rick Hasz

OPO REPRESENTATIVE
Susan A. Stuart, RN, M.P.M. (2015)
President/CEO
Center for Organ Recovery & Education (CORE)
RIDC Park
204 Sigma Drive
Pittsburgh, PA 15238
(412) 963-3550
sstuart@core.org
kzombu@core.org [asst.]

REGION 9 COUNCILLOR
Lloyd E. Ratner, M.D. (2016)
Director
Renal and Pancreatic Transplantation
Columbia University/NY-Presbyterian Hospital
Department of Surgery, PH14-408
622 West 168th Street
New York, NY 10032
(212) 342-3539
lzh2@cumc.columbia.edu
em731@cumc.columbia.edu [asst.]

ITAC Board Leadership and UNOS staff

PRESIDENT, BOARD CHAIR, EXECUTIVE COMMITTEE
Medical Director of Abdominal Transplantation
Professor in Medicine
Duke University Medical Center
Box 3923
Durham, NC 27710
(919) 681-4044
carl.berg@duke.edu
kathyhay@duke.edu [asst.]

CHIEF TECHNOLOGY OFFICER
Alex Tulchinsky
(804) 782-4947
alex.tulchinsky@unos.org
ITAC Chair – look back at 2014/2015

Oversee the implementation of board approved IT actions and supporting recommendations to include:

- Advise and oversee continued IT organizational and process improvements
  - Significant progress made – Agile methodology adopted, engineering teams expanded, new leadership on-board

- Monitor system development and service delivery per schedules
  - BOD Backlog Reduction Goal is 1 year ahead of schedule!

- Insure continued leadership and financial support for IT effort across fiscal calendars
  - Guided UNOS IT in successfully securing unspent 2014 IT Budget Dollars for Key IT Architecture Efforts in 2015 and 2016

- Provide client and expert guidance for IT futures
  - Advised and affirmed UNOS IT on Data Lake and Web Services technological direction
  - Haris Basit directly engaged in helping establish relationship with University of Illinois

- Insure service is anchored in client need and satisfaction
  - Oversaw creation of the Customer Council and ensured selection of key contributing members of community
2015/2016 ITAC

- New Composition – 5 Voting BOD Members

BOD Members

- Jim Gleason – Chair (1 year remaining)
- Lloyd Ratner (1 year remaining)
- Richard Perez
- David Reich
- Walt Nickels

Advisors

- To Be Appointed
2014 BoD Backlog IT Goal

- Complete all projects approved through December 2013 by end of 2015
2015 – End of Year Projection

13 + ? – Pipeline
11,710 hours + ?

2 – In Progress
3560 hours

29 Delivered
41,835

2015 – Completed
1) Ped Lung Diagnosis – Other Specify
2) TIEDI OMB
3) Revise LAS
4) Living Liver Donor Follow-up
5) Ped Liver Remove ICU Requirements
6) Ped Liver Hepatoblastoma Requirements
7) Update HLA Equivalency Tables
8) Potential Donor Derived Disease Transmission reporting
9) Comprehensive Histo Rewrite
10) DCD Definitions
11) Change Consent to Authorization
12) Review of Minimum Screening for Donors
13) 2013 PHS Guidelines Review
14) Donor Screening using Qualified Specimens

2015 – In Progress
1) Modify Pediatric Heart Allocation
2) Require Serum Lipase for all Pancreas Donors

15) Reporting of Aborted Living Donor Organ Recovery
16) Patient Safety – Liver Donor Events
17) Cap HCC Exception Score at 34
18) Delay HCC Exception Score Assignment
19) Reporting of Aborted Living Donor Organ Recovery
20) Patient Safety – Liver Donor Events
21) Cap HCC Exception Score at 34
22) Delay HCC Exception Score Assignment

25) Serologies affecting Match Run **
26) Reinstate No Appeal No Withdrawal
27) Imminent and Eligible Death Definitions
28) Add Serum Sodium to MELD
29) Definition of the End of a Transplant (Help Doc)**

** BOD approval anticipated June 2015

Age [year of BOD approval]
<table>
<thead>
<tr>
<th>Year</th>
<th>Total Projects</th>
<th>Delivered</th>
<th>In Progress</th>
<th>In Queue</th>
<th>Older than 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>23</td>
<td></td>
<td>2</td>
<td>21</td>
<td>18</td>
</tr>
<tr>
<td>2014</td>
<td>35</td>
<td>7</td>
<td>5</td>
<td>23</td>
<td>16</td>
</tr>
<tr>
<td>2015</td>
<td>44+</td>
<td>29</td>
<td>2</td>
<td>13+</td>
<td>3</td>
</tr>
<tr>
<td>2016 and on</td>
<td>?</td>
<td>15+</td>
<td>?</td>
<td>?</td>
<td>0</td>
</tr>
</tbody>
</table>
- Approved projects start prior to next BOD meeting
- No projects are ever older than 12 months
Current Android Solution

- Voluntary nationwide deployment – March 4th
- DonorNet NAT fields to be added – August 10th
- Train the Trainer Sessions – 45% of all OPOs
- Excellent reviews
UNOS Technology Transformation

Complexity of existing architecture

Explosion of Data

Changes in User Expectations
UNOS IT Strategic Focus: Customers
Customer and UNOS IT
Prior to 2014
Customer and UNOS IT
2014

Engagement
Responsiveness
Customer and UNOS IT
2015 and beyond

Engagement
Responsiveness
Trust
Information
Engage with the Community

**MEMBER PERKS**

<table>
<thead>
<tr>
<th>Close Relationship with the Engineering Teams</th>
<th>Opportunity to Influence the Roadmap</th>
<th>Opportunity to meet and learn from other participants</th>
</tr>
</thead>
</table>

[Engage with the Community]
Legacy Customer
Interactions with UNet
UNOS Data Lake