## An Overview of Technology Used By the Organ Transplant Community Manually uploads XML file. Has to go back in Transplant staff rely on 3 different programs to Downloads and fix certain fields Manually enters donor decide whether or not to accept an organ offer: $\leftarrow \Rightarrow$ that don't upload (2) <del>(</del>\$)→ info after referral XML donor file DonorNet®, hospital EHR, and Waitlist<sup>SM</sup> Transplant Center Staff Coordinato Coordinator Automated Process Phone MATCH RUN Uses allocation algorithm OPO makes organ DonorNet® to generate a rank-order offers based on Holds donor info — also **Donor Hospital Electronic** Match List of candidates State Donor **OPO System** Histocompatibility/ Match List accessible via mobile Health Records (EHRs) for the organ Radiology (HLA) Labs Registry (e.g.; iTransplant) (e.g.; EPIC) If donor registered out 4 or 5 different systems of state, OPO has to call are used. Up to the local OPO in that state discretion of the OPOs. Some APPLICATION to view DMV donor **PROGRAMMING** registration INTERFACES (APIS) EXIST **TransNet**<sup>SM</sup> for TIEDI® (EPIC Phoenix) **TIEDI®** Labeling and but most transplant Transplant candidate packaging of organs centers are not using and recipient Transplant center creates outcome data new patient file in their EHR 6 **Recipient Candidate's** Transplant Home EHRs Center's EHRs **Waitlist**<sup>SM</sup> Transplant Center manually Holds recipient enters candidate patient info candidate info Transplant staff rely on 3 different programs to

Third Party Components

**Human Touchpoints** 

Network (OPTN) Components

Organ Procurement and Transplantation

## **KEY TAKEAWAYS**

- Technology within the current organ donation system is dispersed and incohesive, with many inefficient hand-offs.
- > The current process can waste valuable time. Manual steps are slow and creates opportunity for human error.
- > There are very few instances of application programming interfaces (APIs), which leads to inefficient feature development and higher maintenance costs.



decide whether or not to accept an organ offer: DonorNet®, hospital EHR, and Waitlist<sup>SM</sup>





