

SRTR-AOPO Donor Potential Exploration

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Scientific Registry of Transplant Recipients (SRTR)

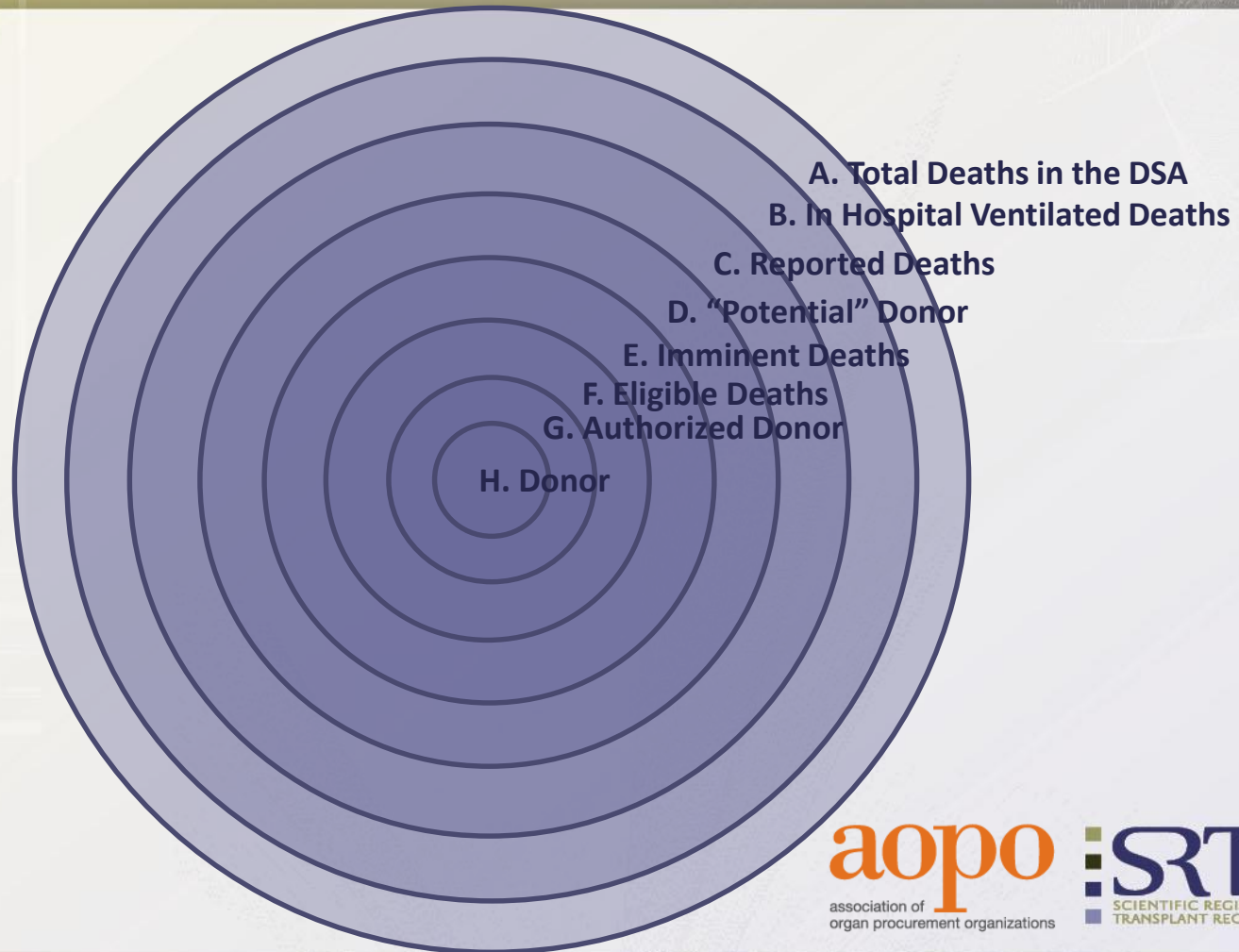
Elling Eidbo
Association of Organ Procurement Organizations (AOPO)

Rick Fowler
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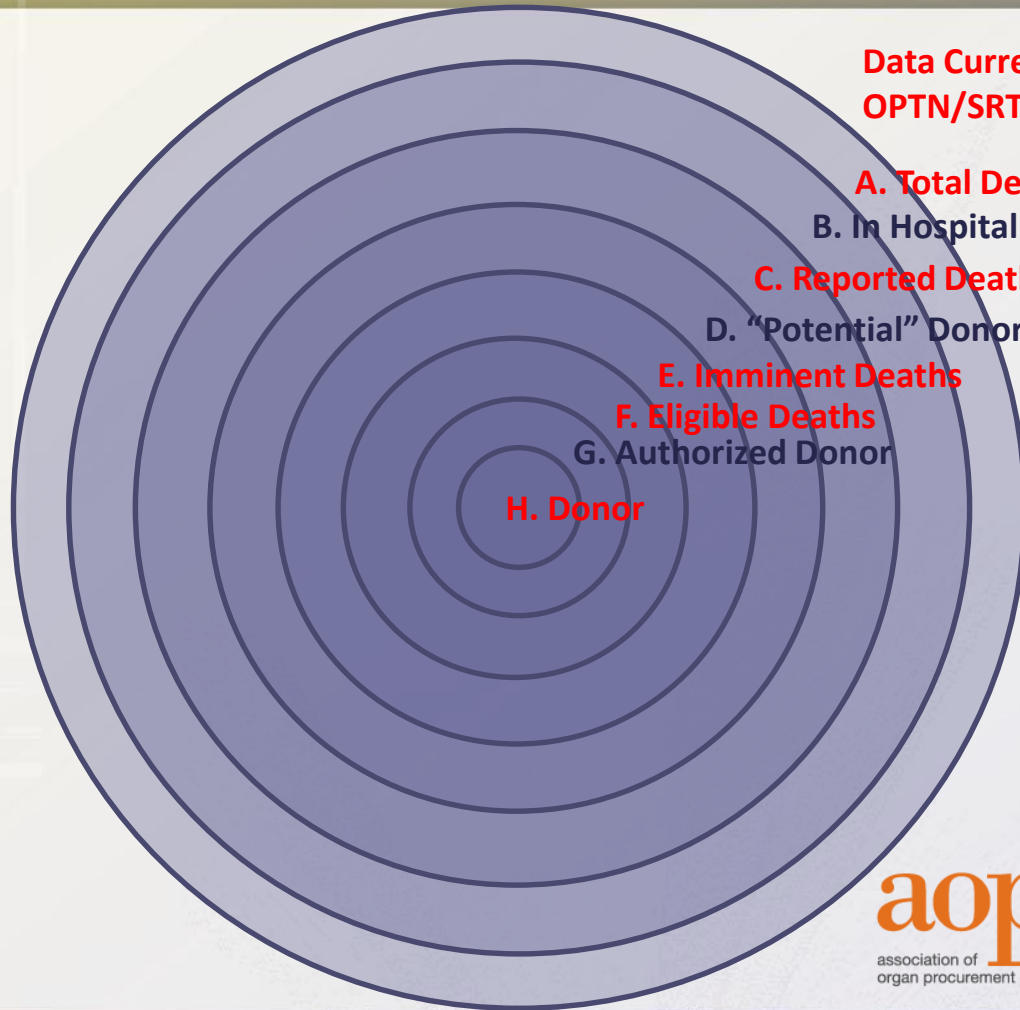
Presentation to the Advisory Committee on Organ Transplantation
March 12, 2015
Rockville, MD



Visualizing Donor Potential



Visualizing Donor Potential



Data Currently Captured by
OPTN/SRTR:

A. Total Deaths in the DSA

B. In Hospital Ventilated Deaths

C. Reported Deaths

D. "Potential" Donor

E. Imminent Deaths

F. Eligible Deaths

G. Authorized Donor

H. Donor

OPTN Data on Donor Conversion

Reported Deaths:

All deaths or imminent deaths (ventilated and non-ventilated) reported by a hospital to the OPO, tissue or eye bank located within the OPO service area.

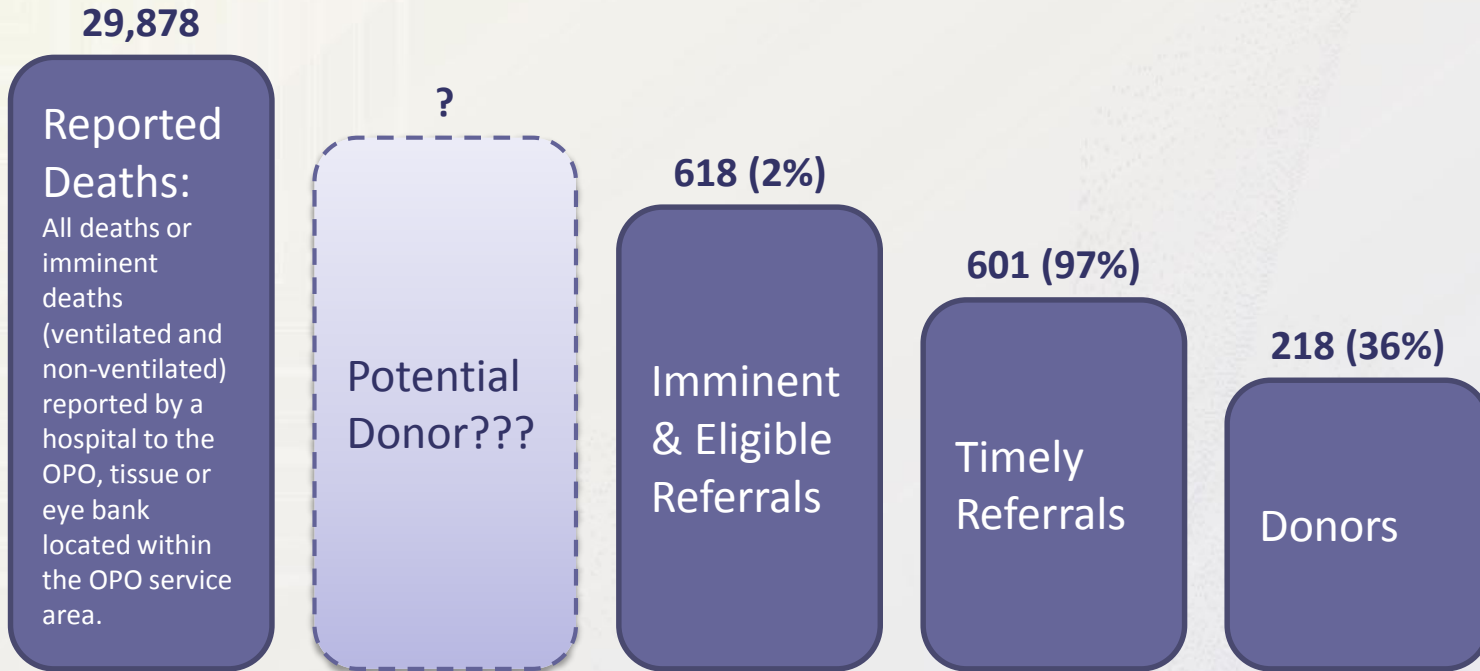
Potential Donor???

Imminent & Eligible Referrals

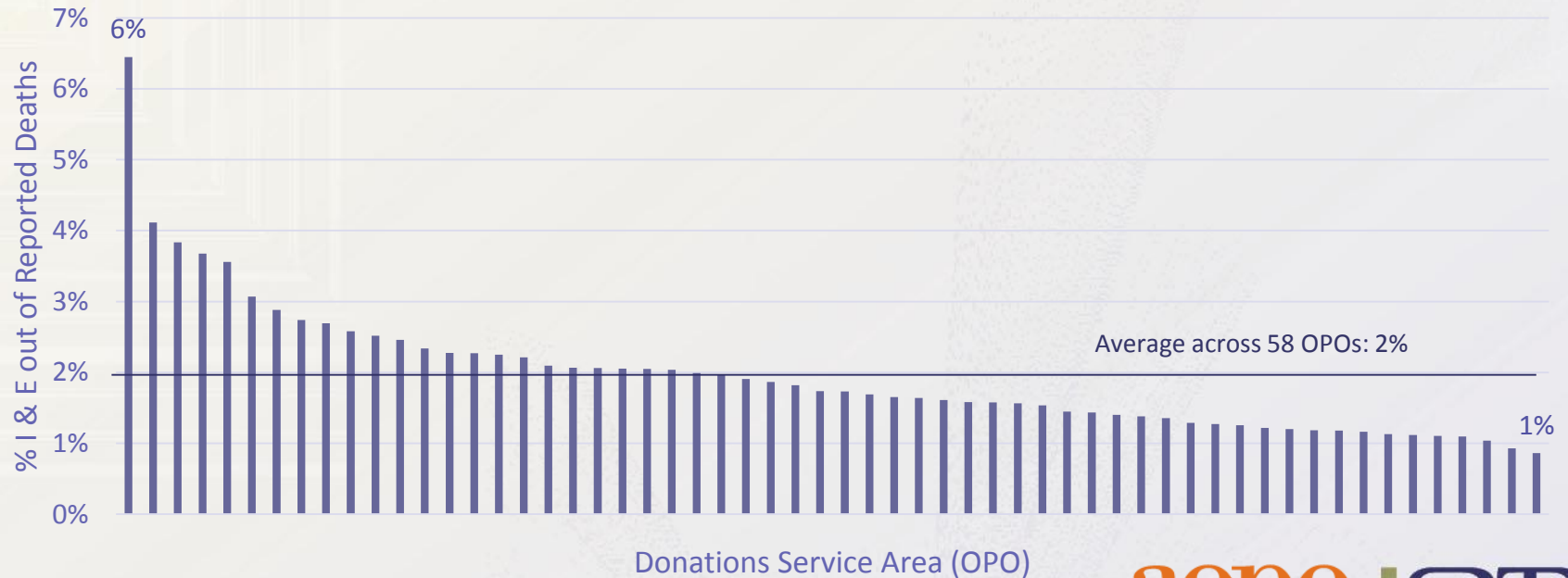
Timely Referrals

Donors

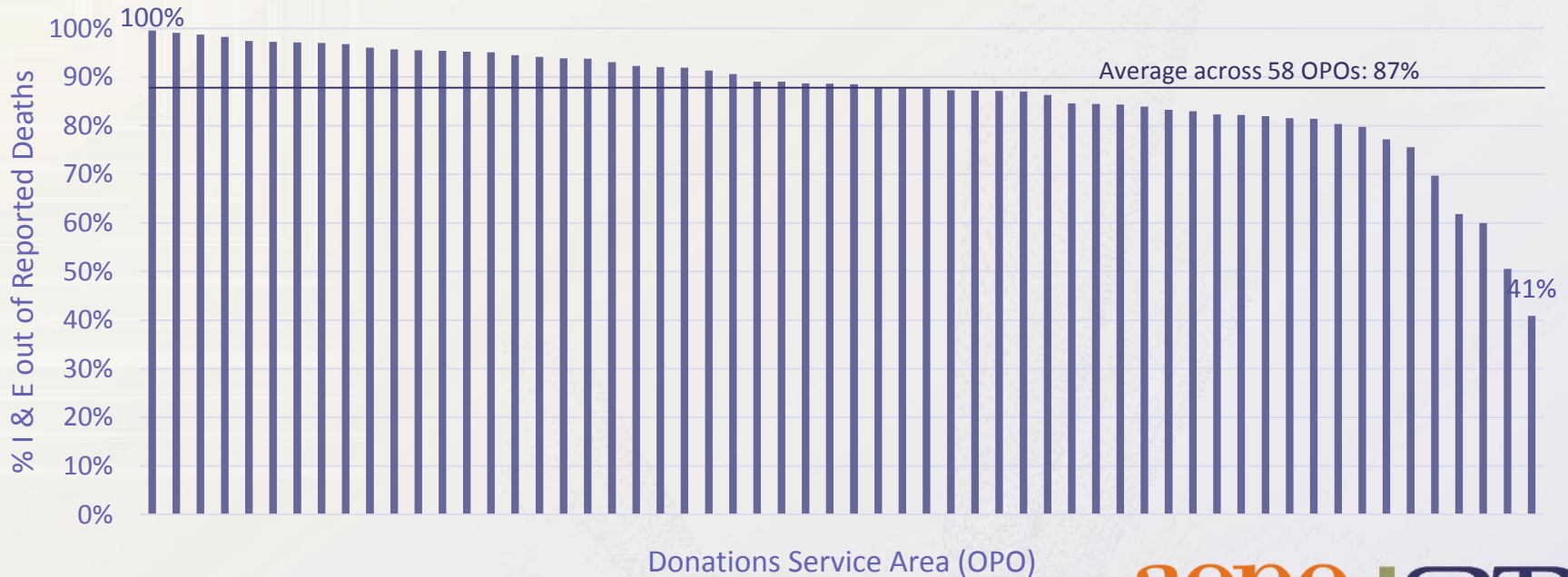
Example OPO in 2013, OPTN Data:



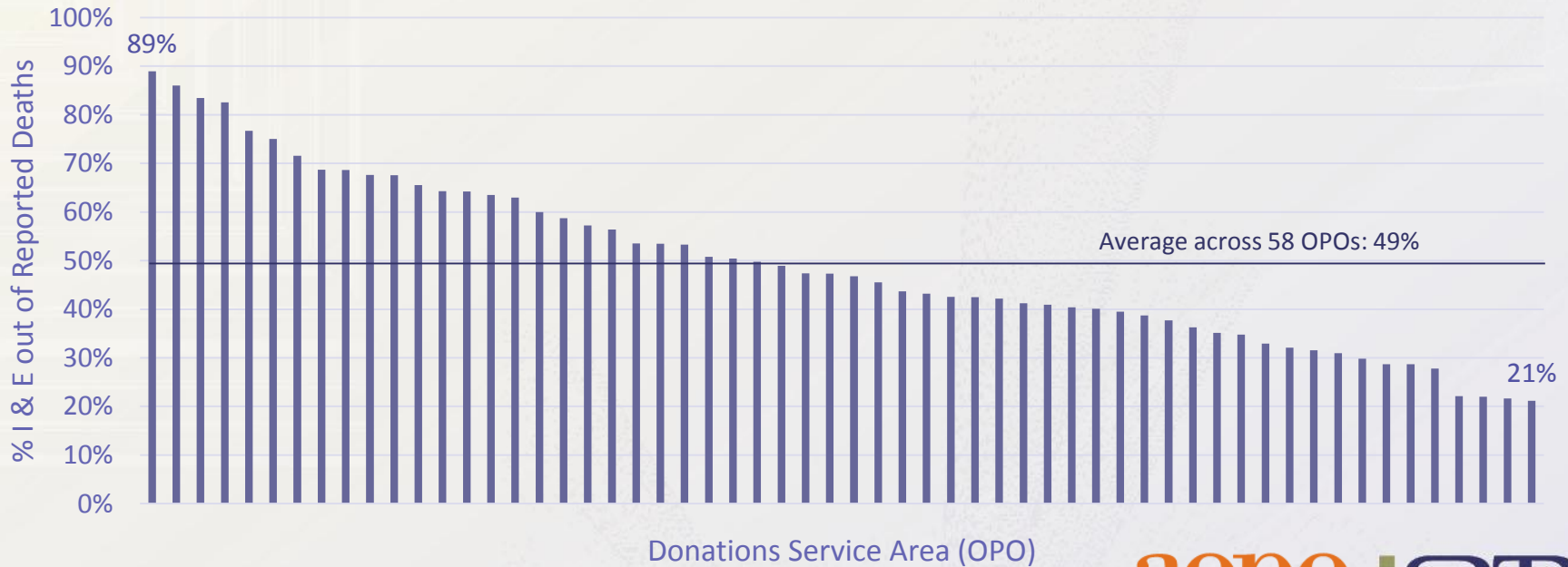
OPTN Data: Percent of Reported Deaths That Were Imminent or Eligible Deaths, By OPO, 2013



OPTN Data: Percent of Imminent or Eligible Deaths That were Timely Referrals, By OPO, 2013



OPTN Data: Percent of Timely Referrals That Become Donors, By OPO, 2013



Current Conversion Rates Publicly Reported by SRTTR

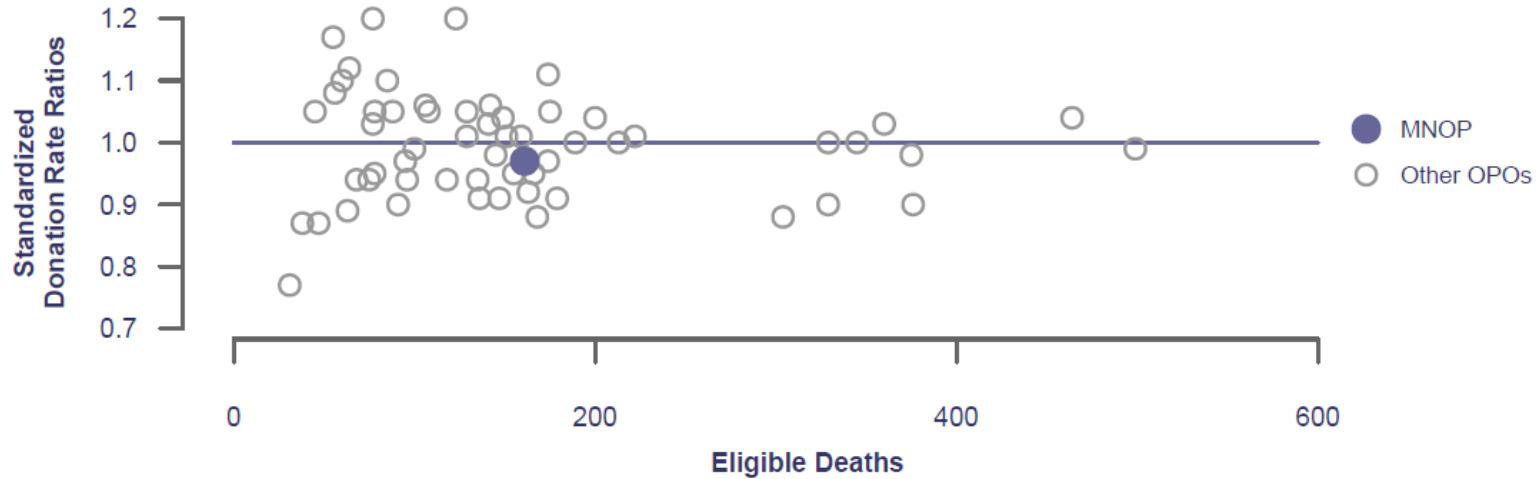
Table B1. Measures of donation rate*, 07/01/2013 to 06/30/2014

	MNOP		National		
			Min.	Average	Max.
Eligible Deaths	161	1	31	158.71	499
Deceased Donors (All)	154	5	39	145.00	457
Deceased Donors Meeting Eligibility Criteria	122	2	18	114.59	355
Observed Donation Rate Per 100 Eligible Deaths	75.8	3	58.1	72.2	90.9
Expected Donation Rate Per 100 Eligible Deaths	78.0				
Standardized Donation Rate Ratio (95% CI)	0.97 (0.88,1.05)		4		
P Value	0.500				

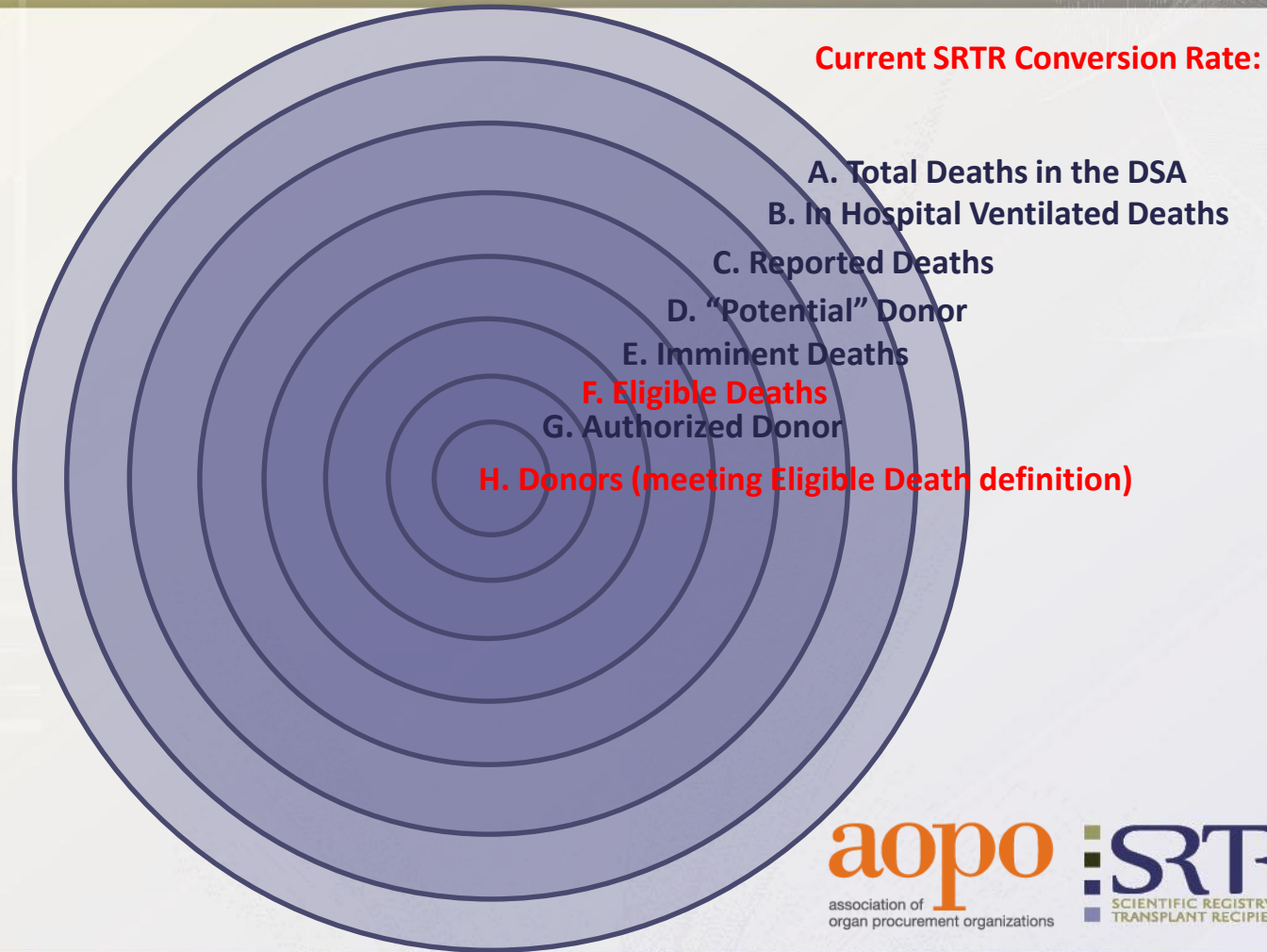
*The donation rate is calculated as the number of deceased donors meeting eligibility criteria per 100 eligible deaths.

Current Conversion Rates Publicly Reported by SRTTR

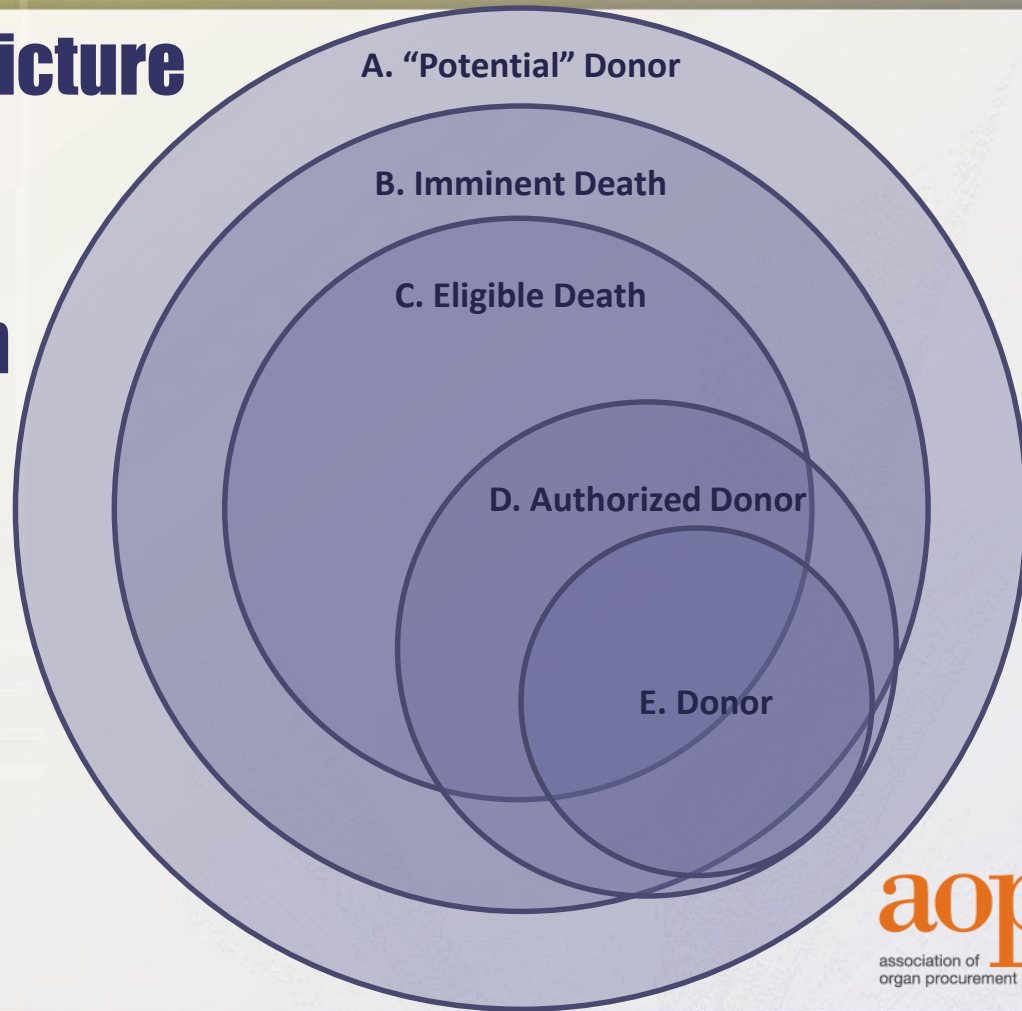
Figure B4. Standardized donation rate ratios (observed/expected), 07/01/2013 to 06/30/2014



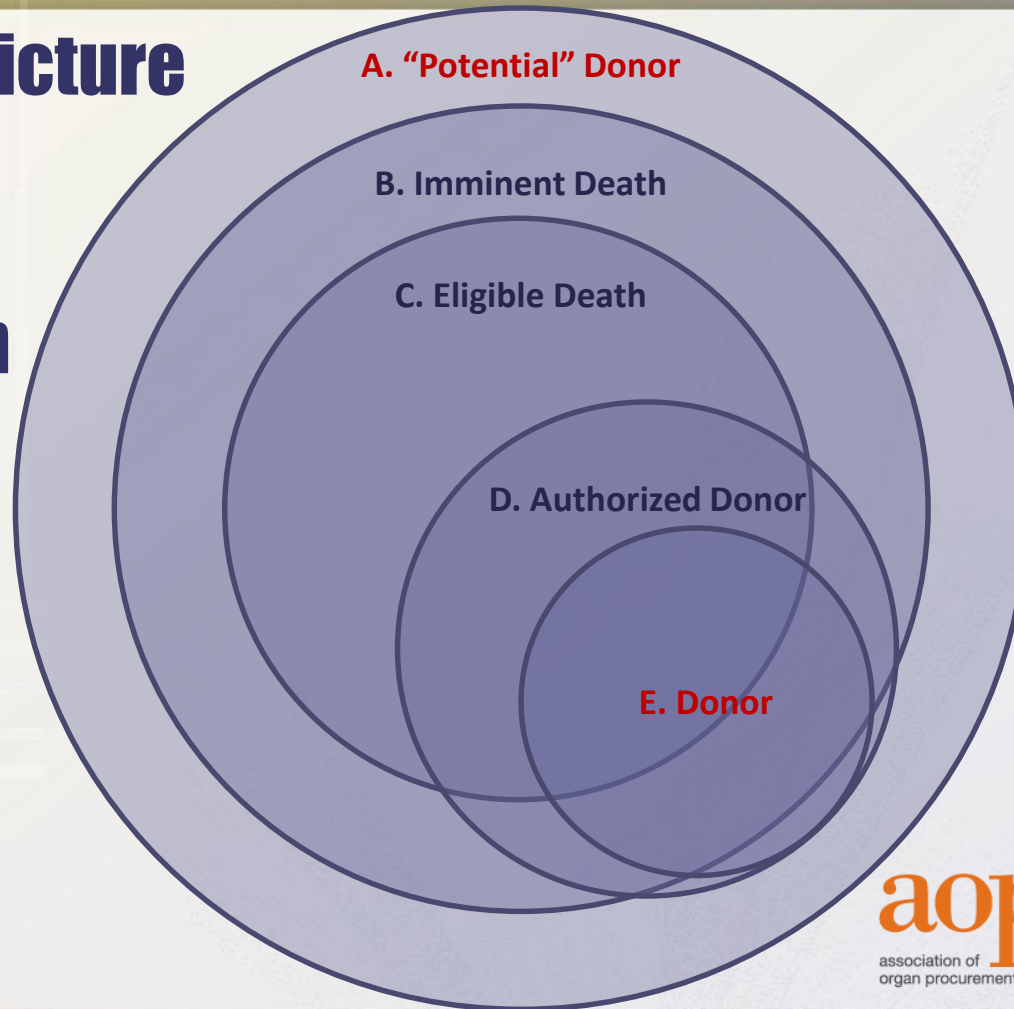
Visualizing Donor Potential



Alternate Picture of The Donor Conversion Process



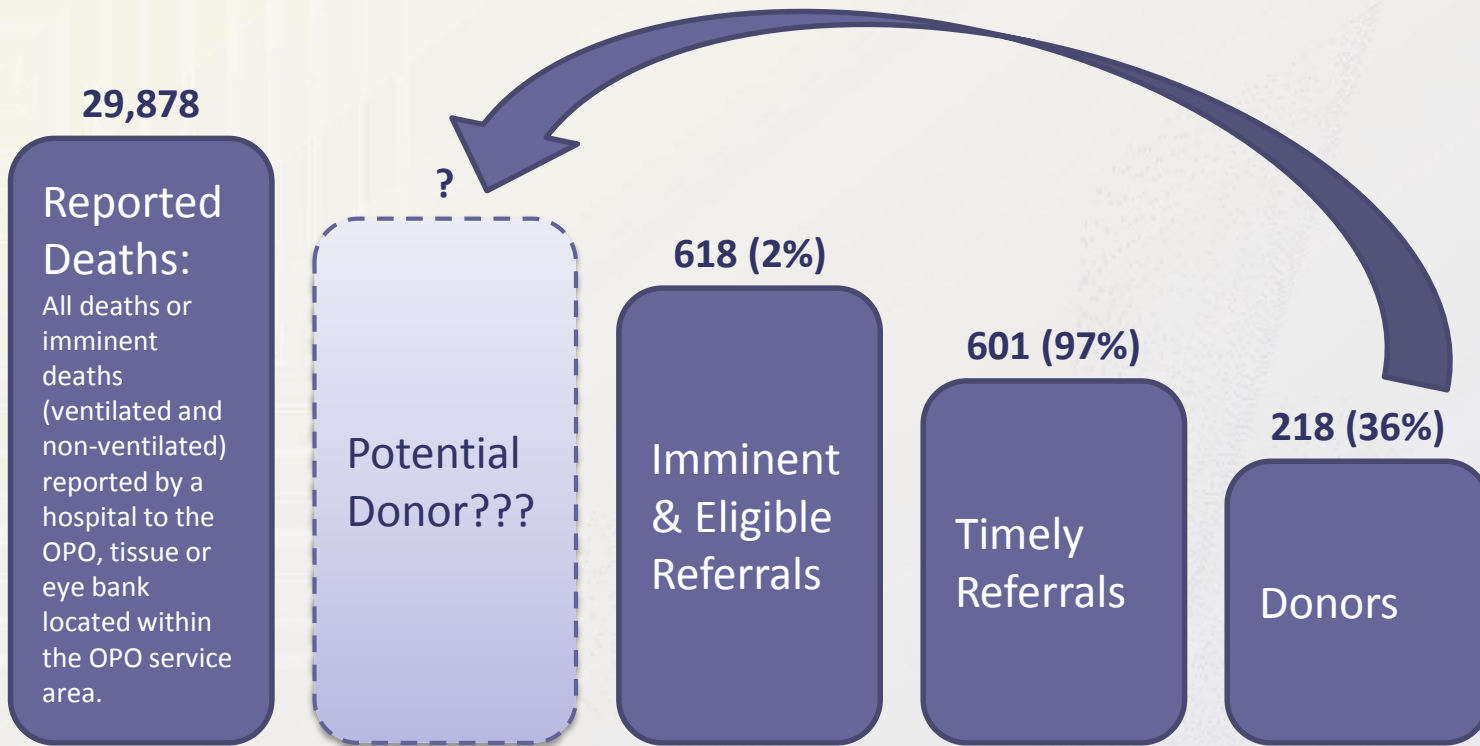
Alternate Picture of The Donor Conversion Process



Arguably a better
donor conversion
metric:

$$\frac{\text{Donors (E)}}{\text{Potential Donors (A)}}$$

Conversion of Potential Donors



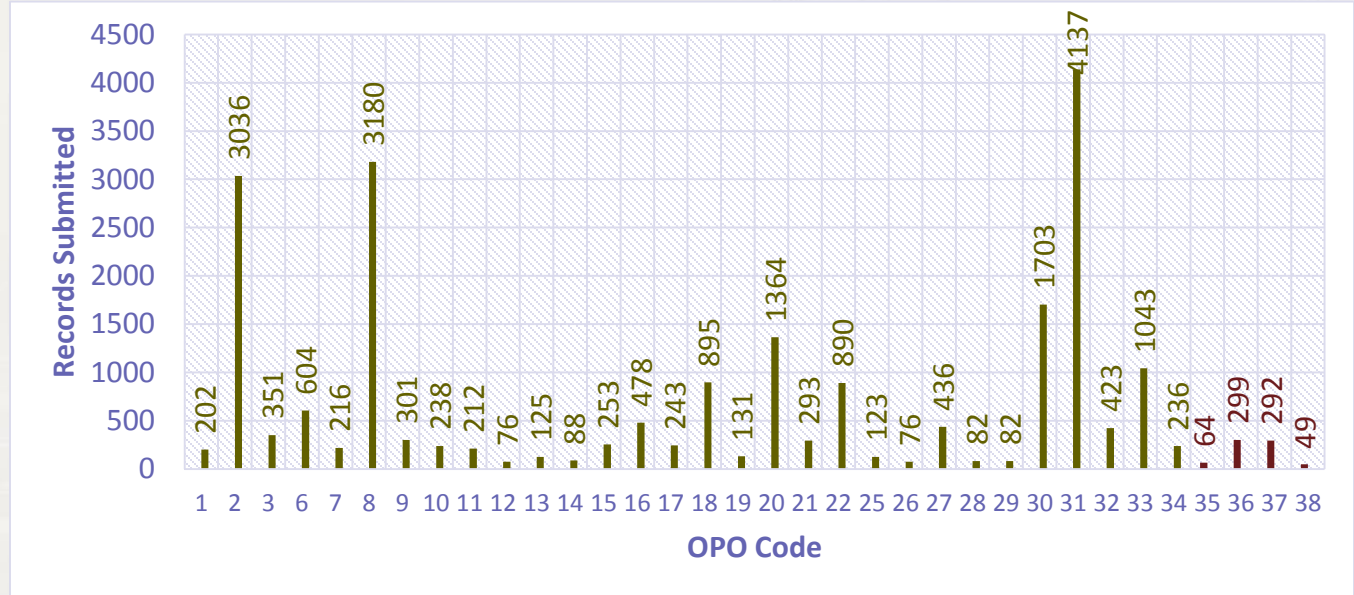
AOPO-SRTR Study Objectives

- Understand what data various OPOs routinely collect regarding donor potential beyond imminent and eligible deaths.
- Estimate potential beyond converted donors.
- Results will inform a discussion about the potential for future standardized data collection.
- Future data may enable creation of improved performance metrics.

Data Received to Date

36 OPOs have been submitted to SRTR (62% of the 58 OPOs).

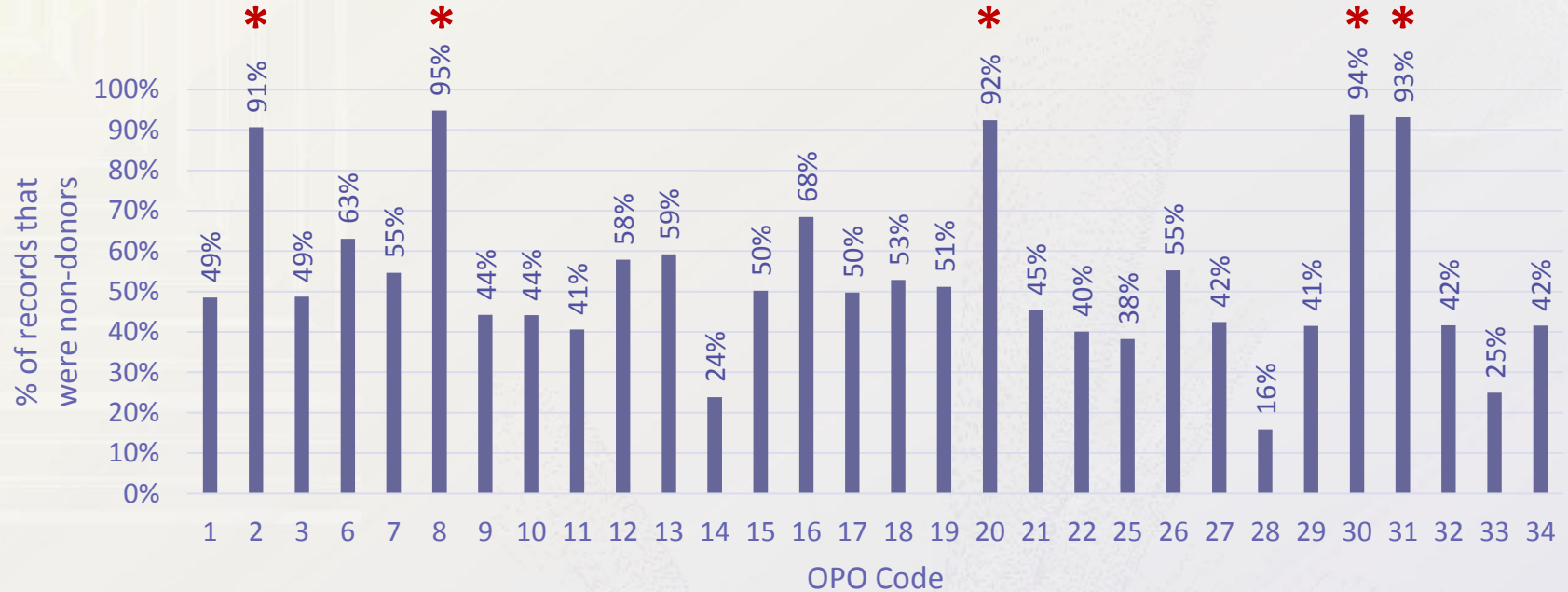
Note that some OPOs provided consolidated data, so some OPOs at right represent more than one OPO.



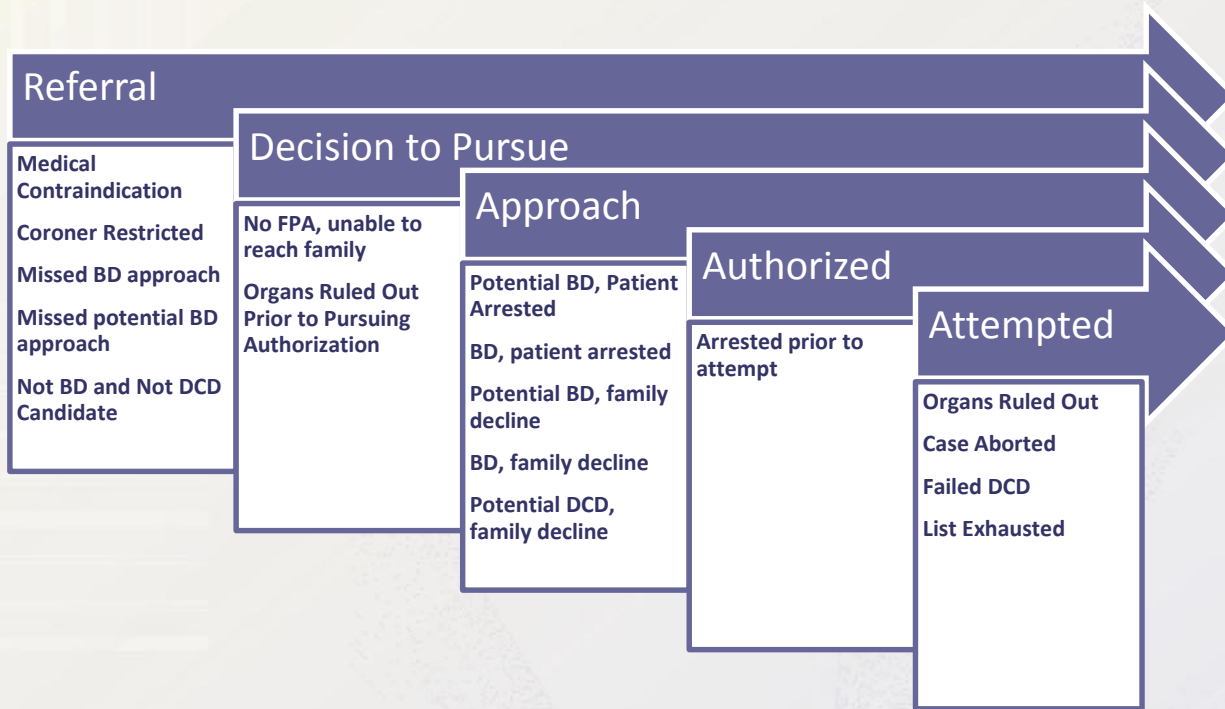
Percentage of Non-Donors out of Total Reported By the OPO



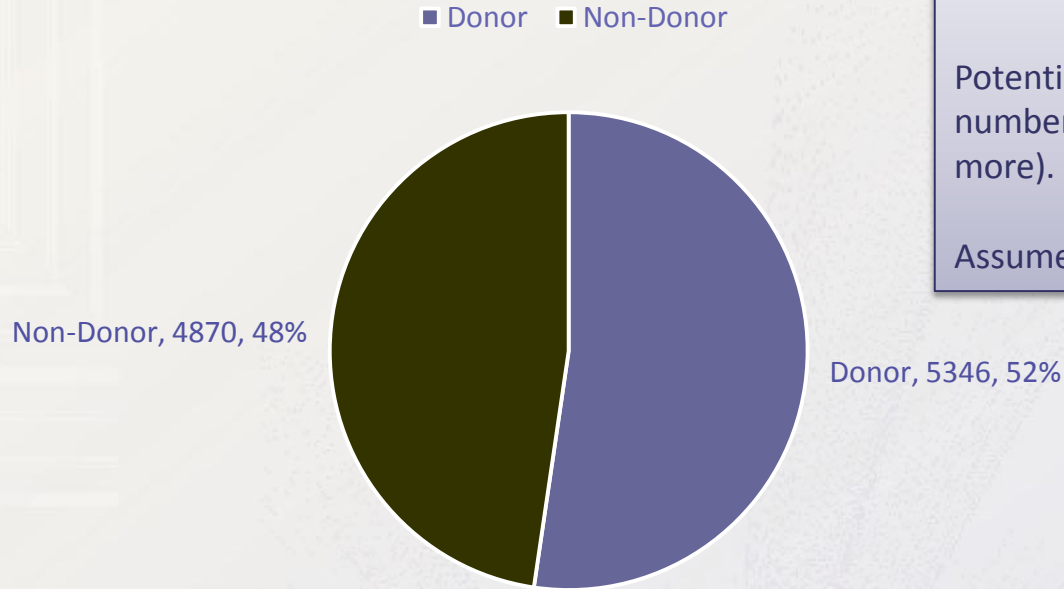
Percentage of Non-Donors out of Total Reported By the OPO



Donation Process & Reasons for Non-Conversion



Preliminary Consolidated Results

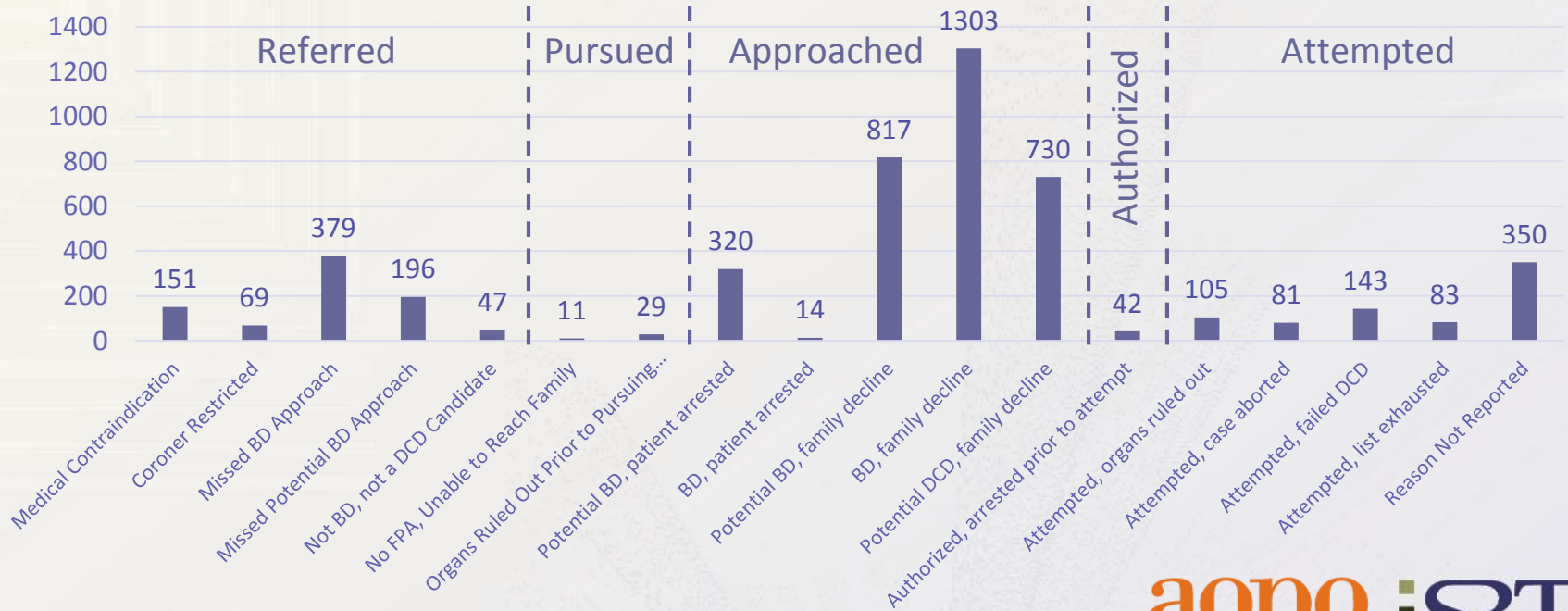


5,346 donors out of 10,216 referrals:

Potential: 1.91 times the number of donors (91% more).

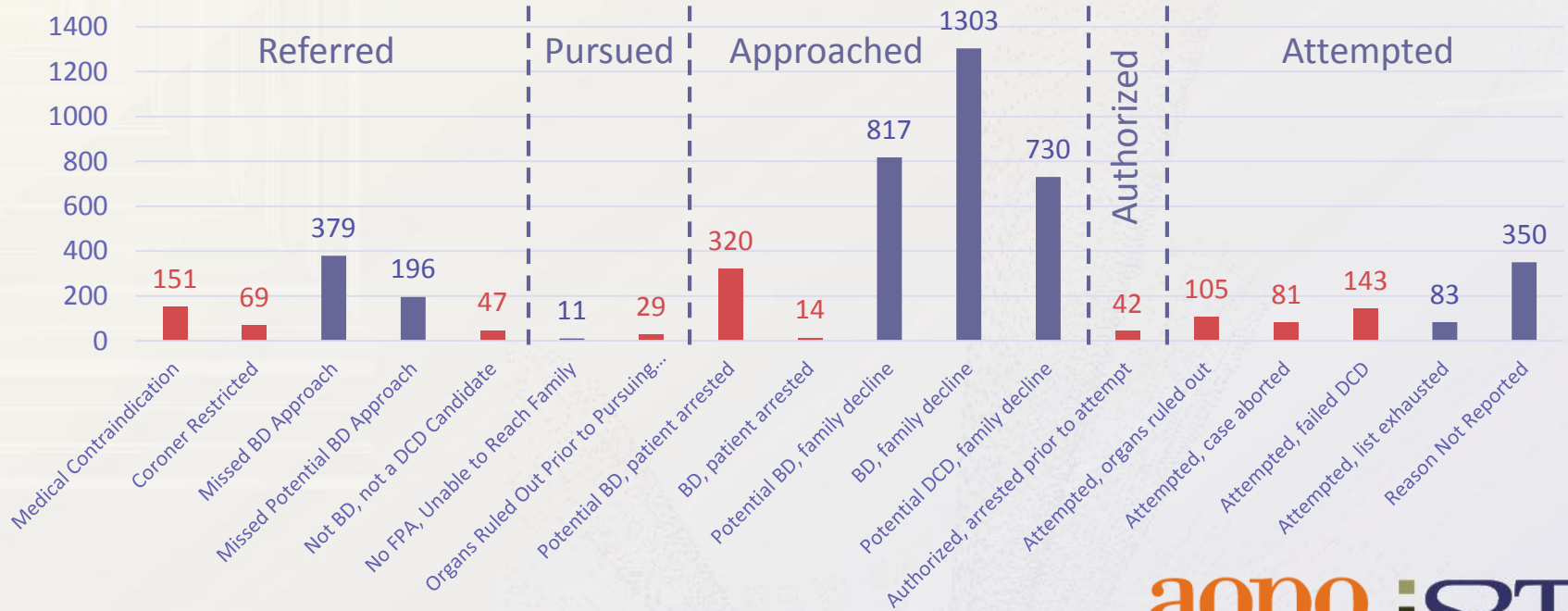
Assumes no exclusions.

Preliminary Consolidated Results

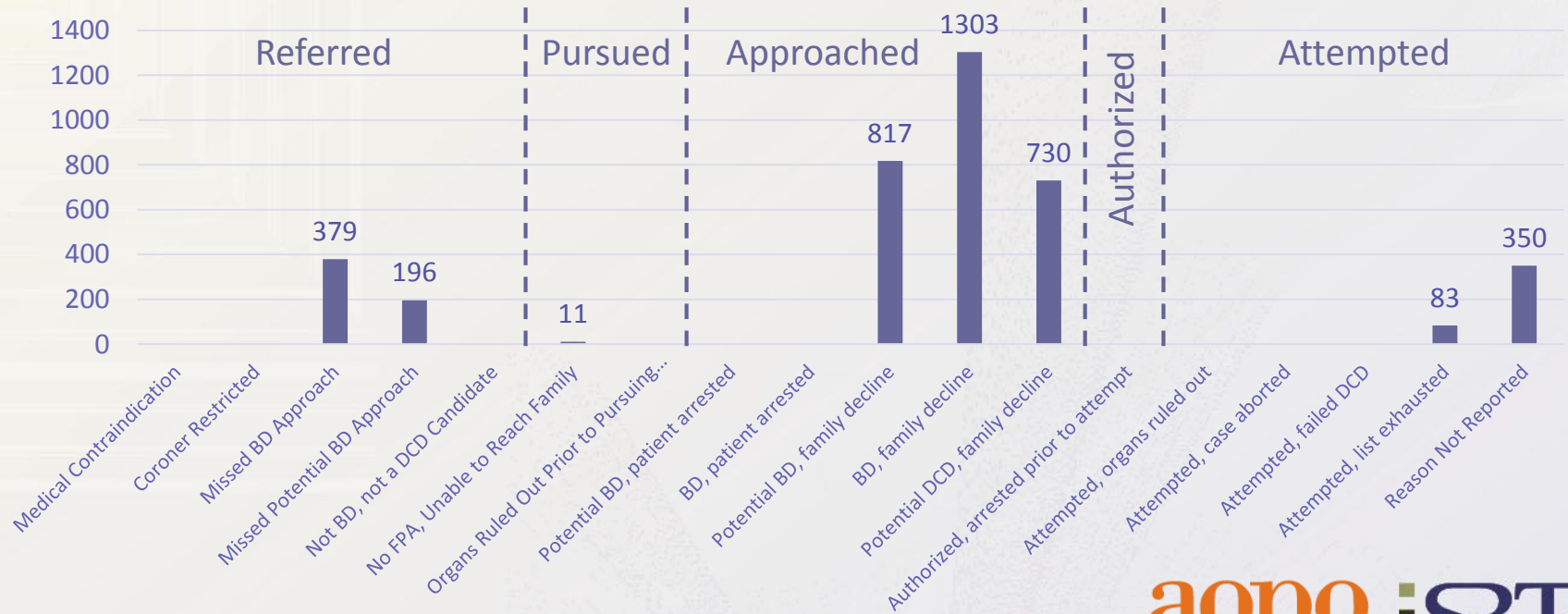


Preliminary Consolidated Results:

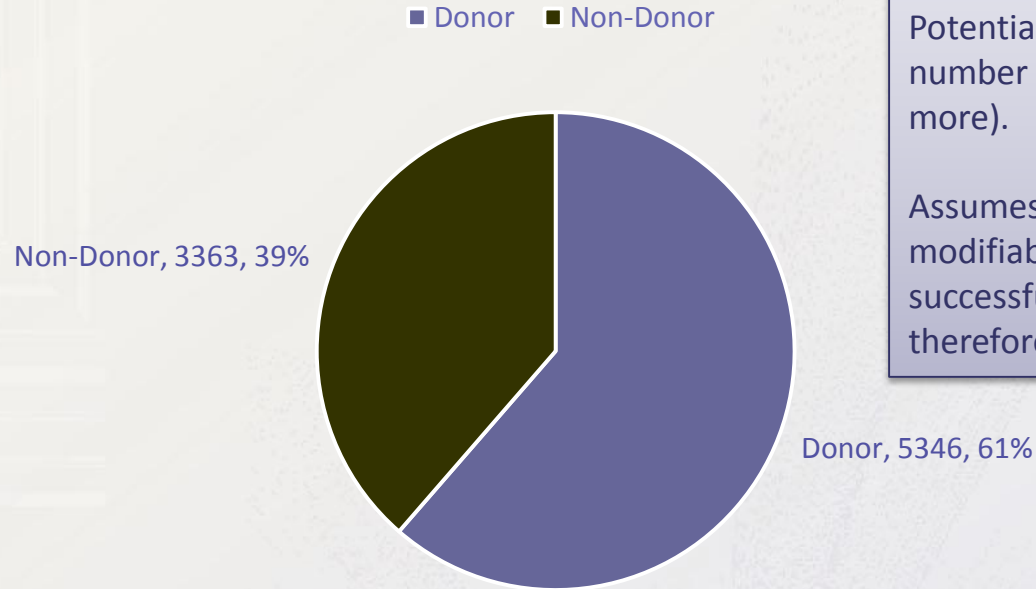
Reasons that are arguably immutable



Preliminary Consolidated Results: Items potentially modifiable



Preliminary Consolidated Results: Accessible Potential?

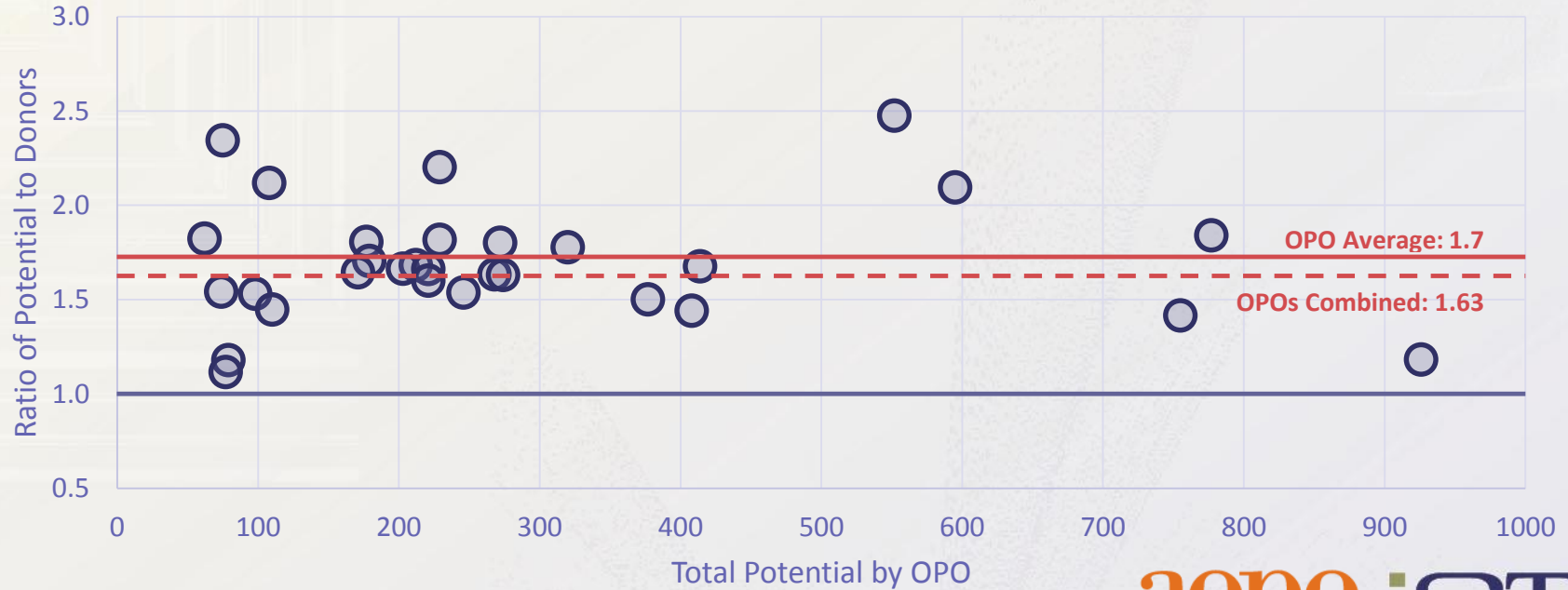


5,346 donors out of 8,709 potential yields:

Potential: 1.63 times the number of donors (63% more).

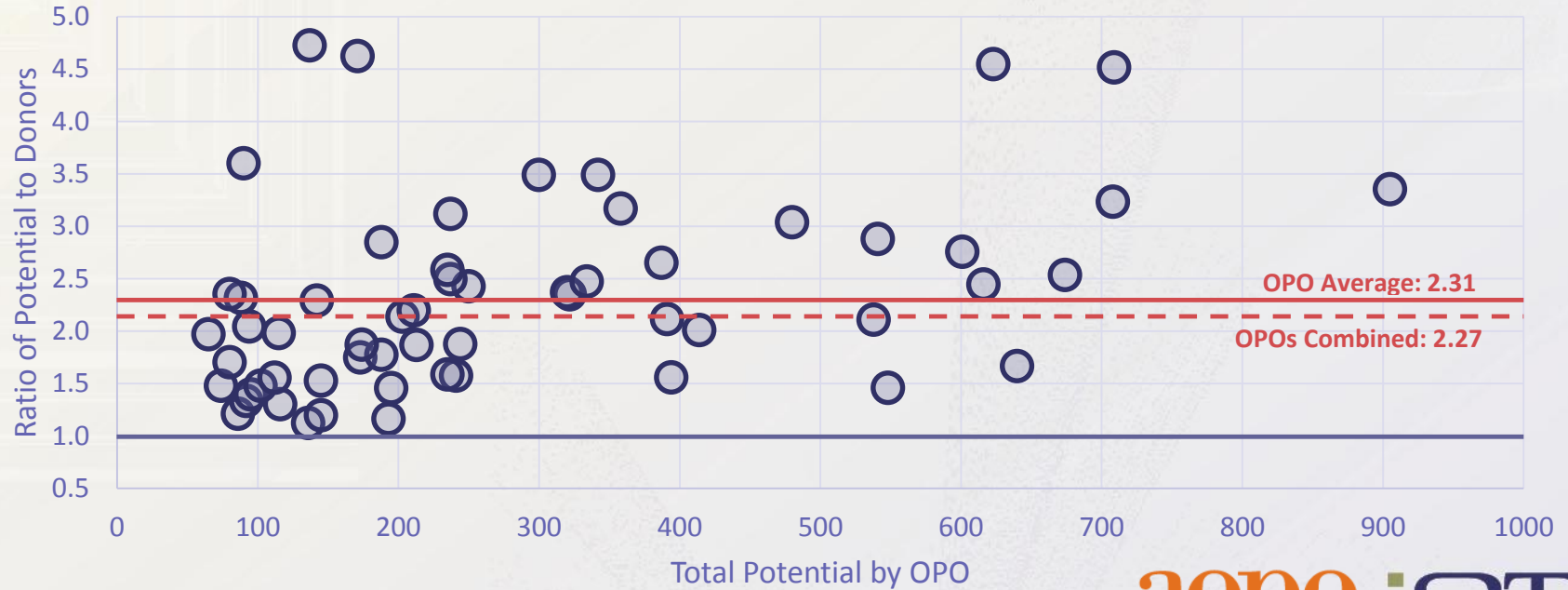
Assumes ALL potentially modifiable cases are successfully converted... therefore an overestimate.

Donor Potential: Ratio of Potential to Donors

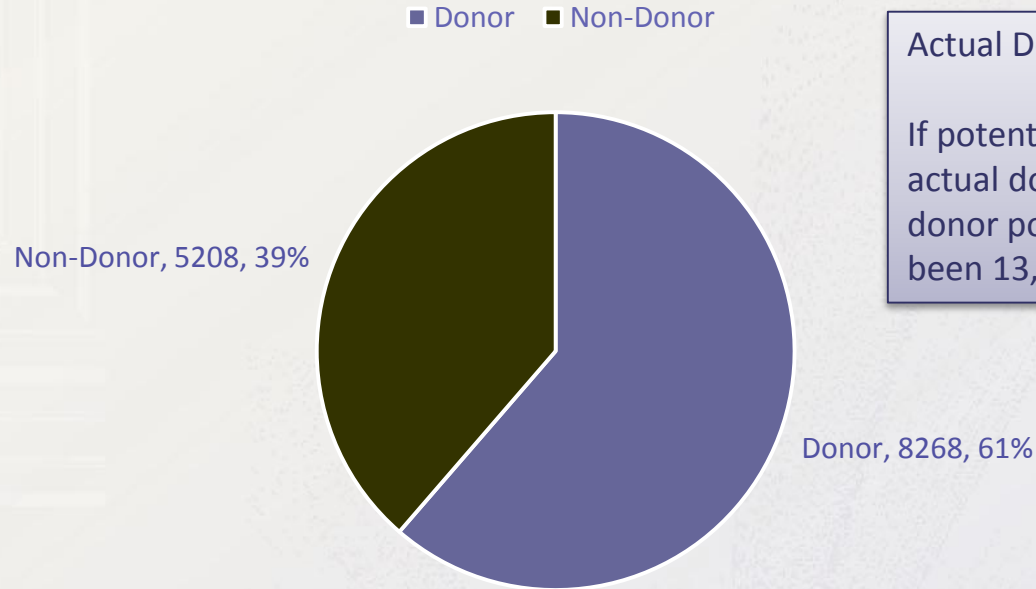


Donor Potential: OPTN Data

Ratio of Timely I & E Referrals to Donors



Extrapolating Findings to Actual 2013 Data



Actual Donors in 2013: 8268

If potential is 1.63×8268
actual donors in 2013, then
donor potential may have
been 13,476.

Summary of Findings Thus Far...

- Data supplied by 36 OPOs (62%), data have been analyzed for 32 to-date.
- OPOs vary in how they classify non-donors and “potential”, but common themes exist.
- If all modifiable cases were converted, potential is 1.63 times the number of current donors, or 13,476 in the year 2013.
- This aligns fairly well with I & E referral data supplied to the OPTN, which indicates 2.3 times more potential (before rule-outs, refusals, or other immutable causes of non-conversion).

Limitations

- OPO data are self-reported (a goal of the study is to find common themes and resolve the differences).
- While similarities exist, there is currently no standard definition for potential or reasons for non-conversion (again, this is a stated goal of the study).

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