

Experience from Indonesia on establishing blood donor panels

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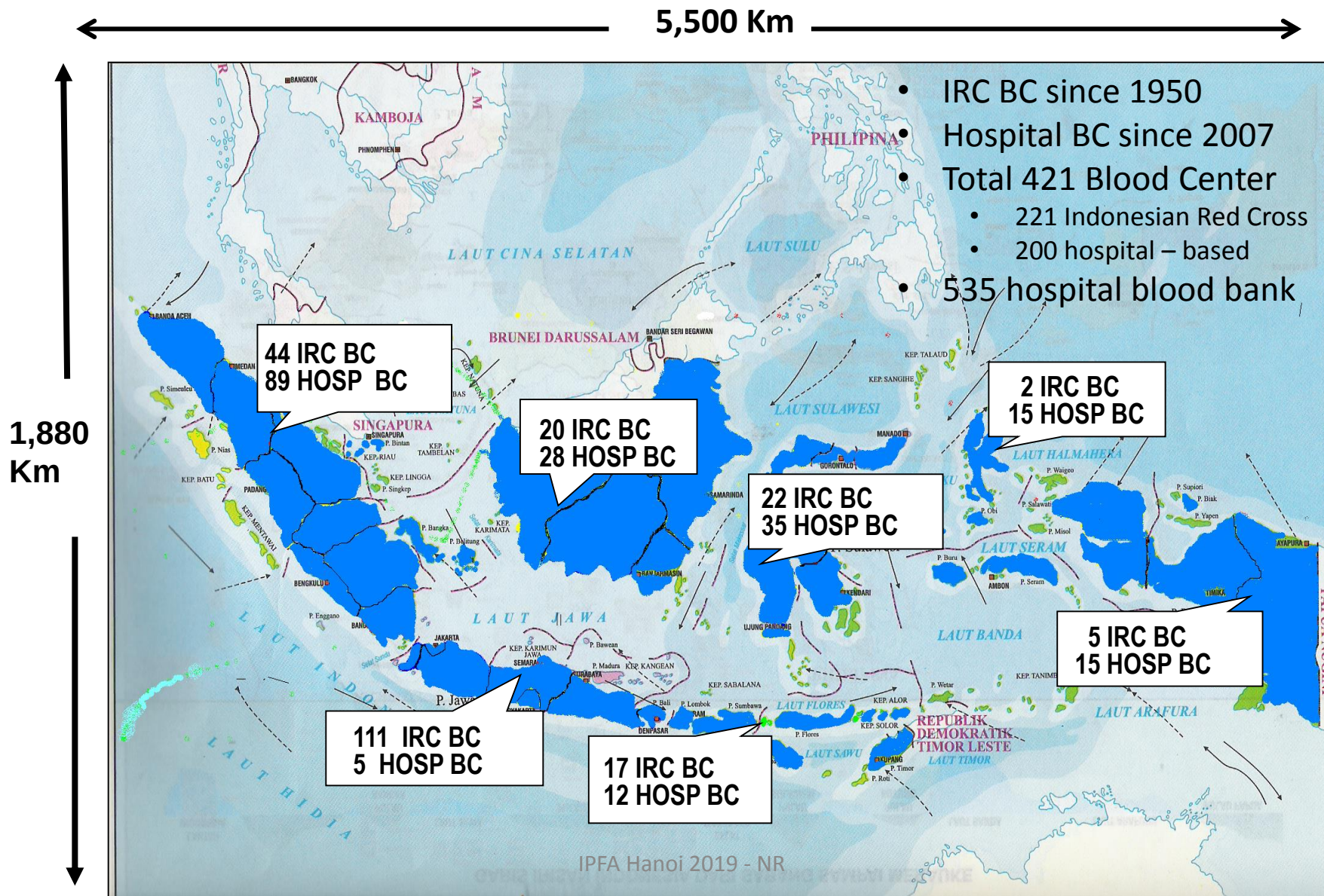


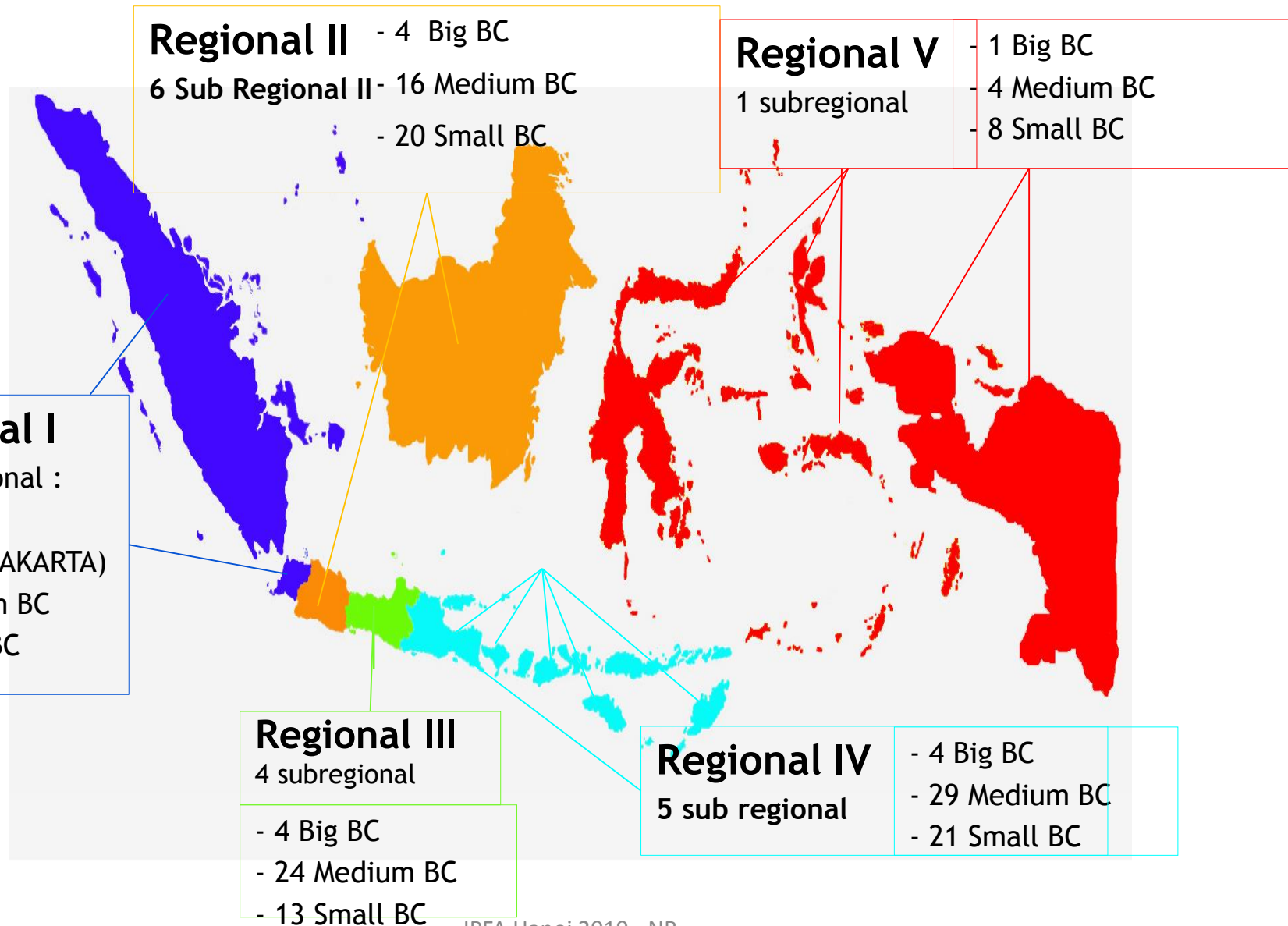
Indonesia is the **largest archipelago** in the world between two oceans, the Pacific and the Indian ocean, and bridges two continents, **Asia** and Australia.

Population 255 Million
34 Provinces
416 Districts



DISTRIBUTION OF BLOOD CENTRE IN INDONESIA 2017





JAKARTA BLOOD CENTER PROFILE

VISION

- **Become the leading blood centre in Indonesia by the year 2025**

MISSION

- Evolving human resources to be competent and professional
- Provide sophisticated and up to date infrastructure in blood establishment according to standard.
- **Maintain the availability of sufficient, safe and quality blood**
- Build an image through effective communication with stakeholders



Quality Policy

Jakarta Blood Centre determined to prioritize the **sufficient, safe, quality and affordable** of blood service to the entire community, through **centralization** of blood processing as well as with the **commitment** of the management and staff to always make **changes and continuous improvement** in accordance with the guidelines and regulations apply.

CERTIFICATION OF QUALITY



2009

ISO 9001 :
2008



2014 :

- Introducing
GMP



2017

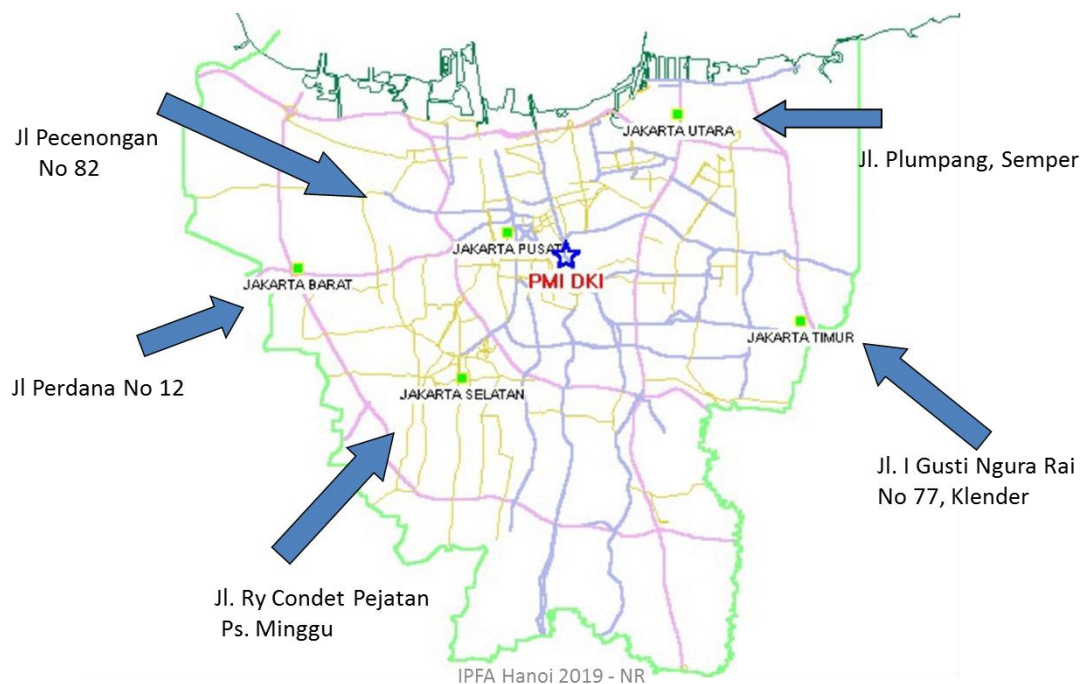
GMP
Certification



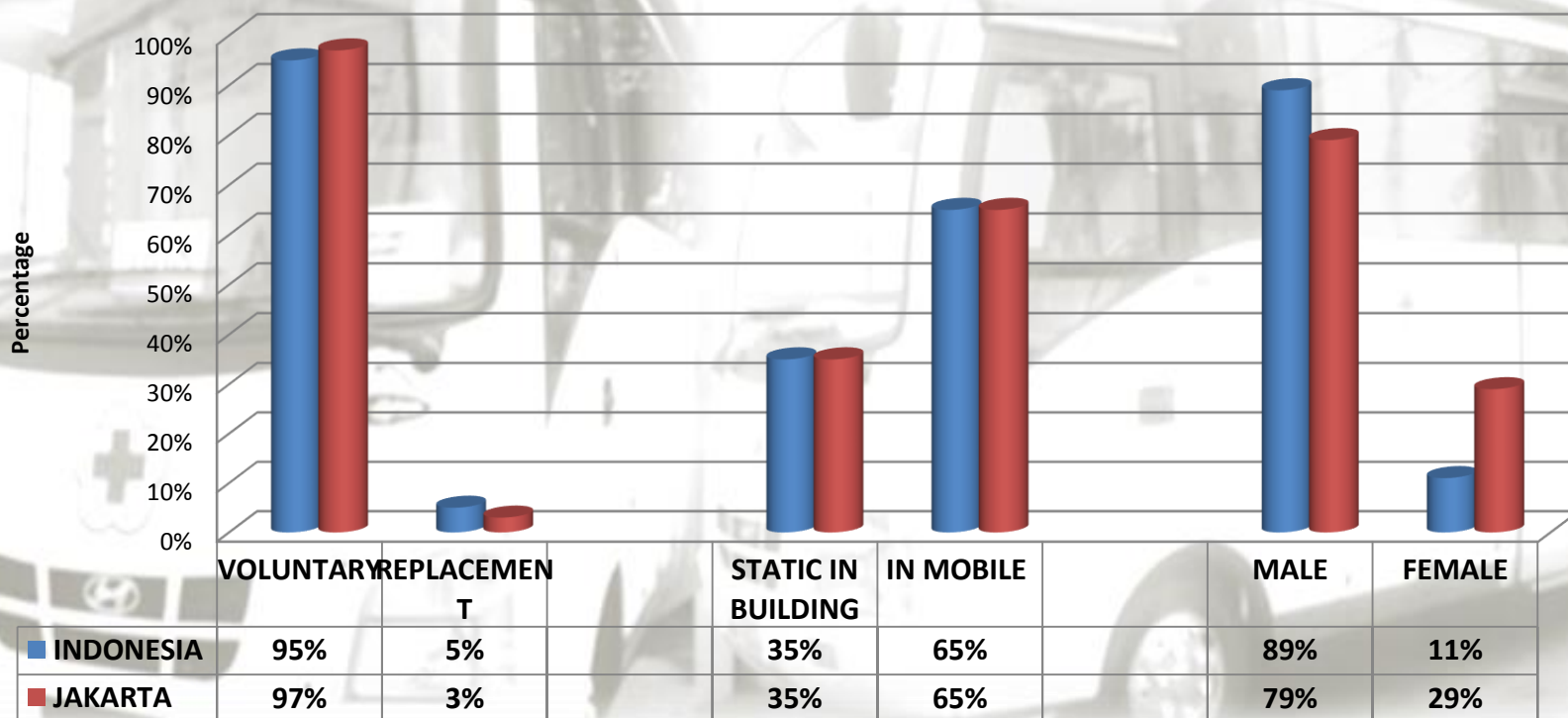
2018

ISO
9001:2015

5 COLLECTING SITES IN THE 5 DISTRICTS OF JAKARTA RED CROSS

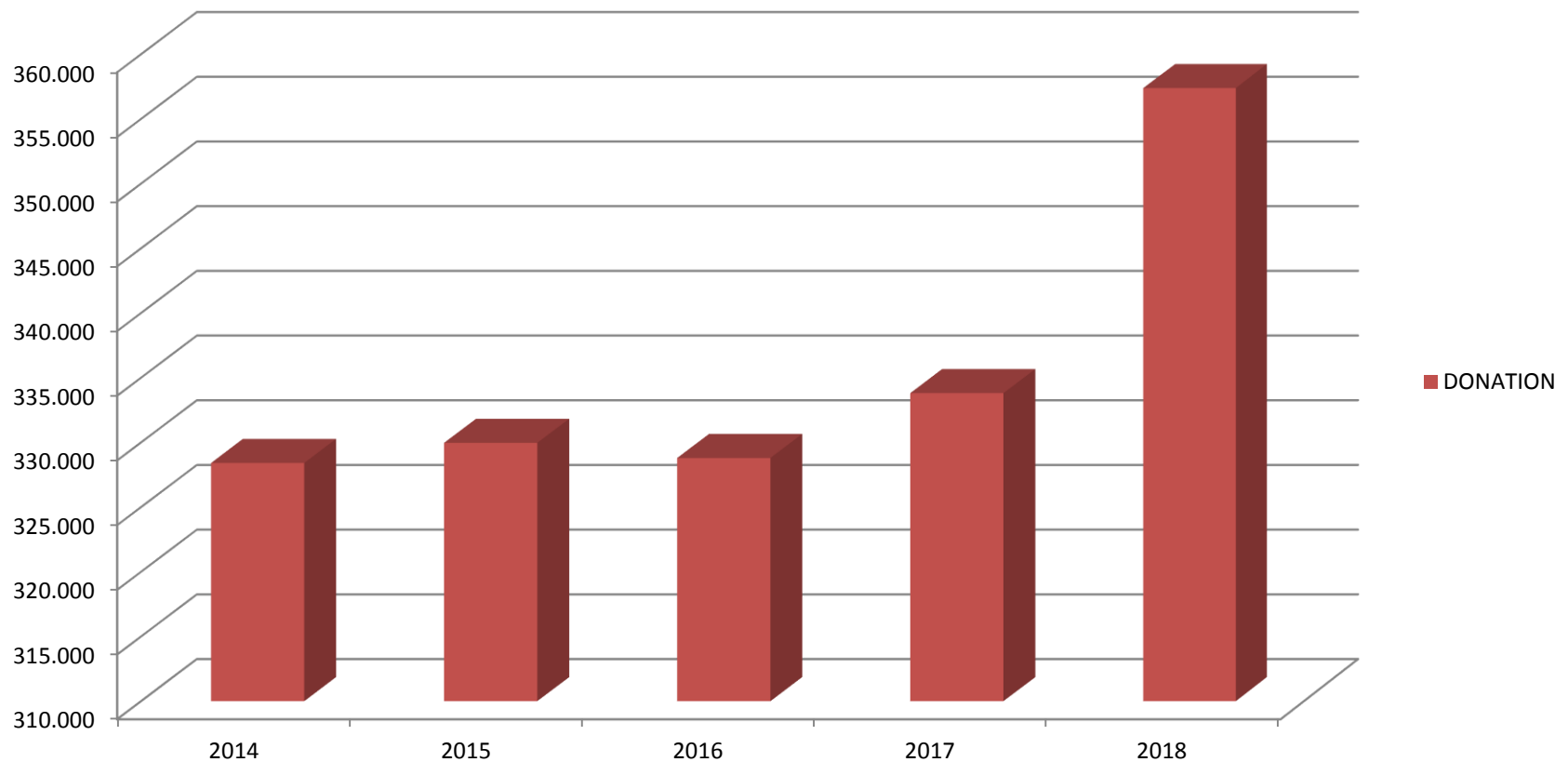


Blood Donation Profile in Indonesia and Jakarta Year 2017

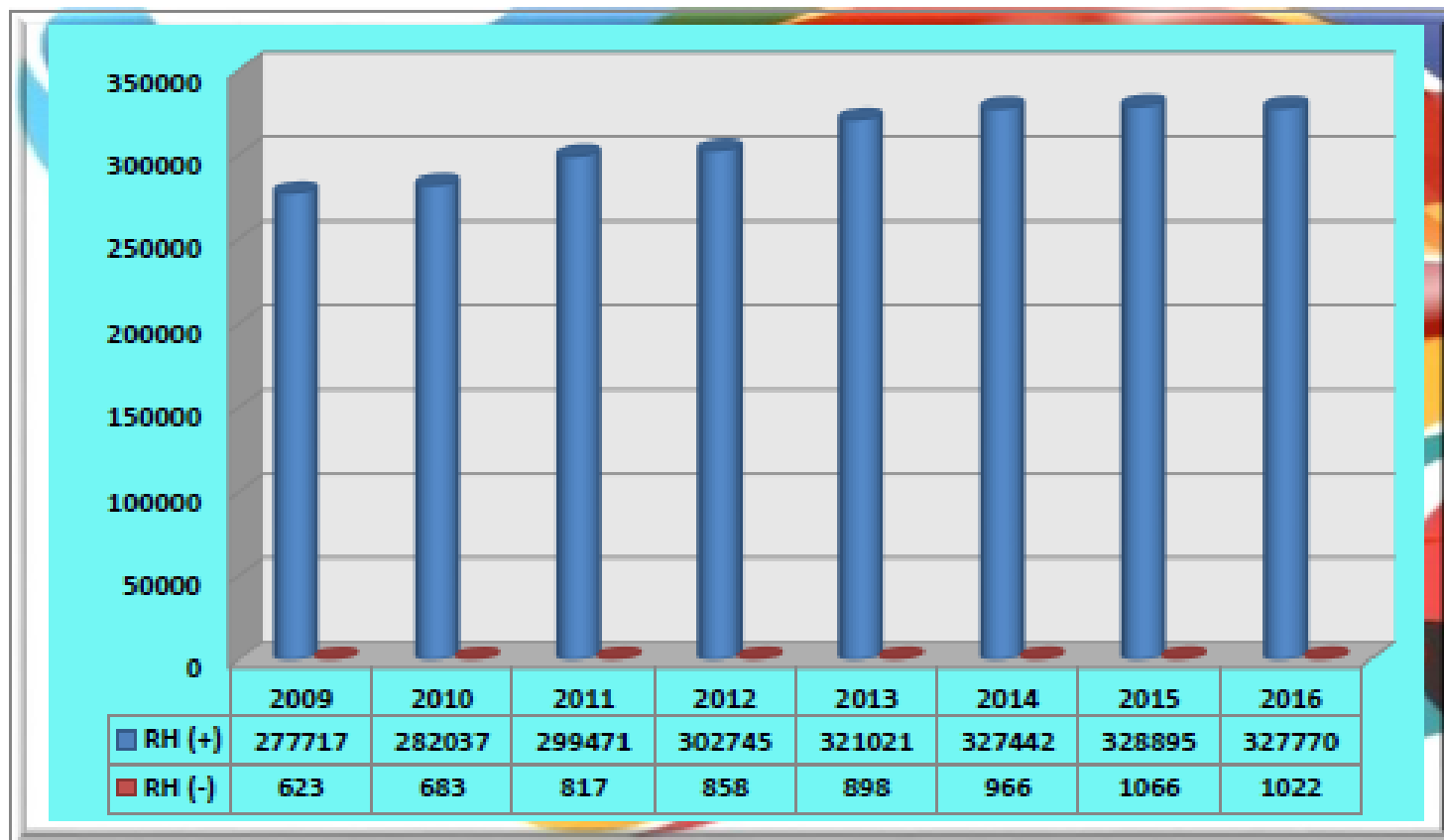


BLOOD DONATION

DONATION



TOTAL BLOOD DONATION BASED ON RHESUS TYPE (2009-2016)

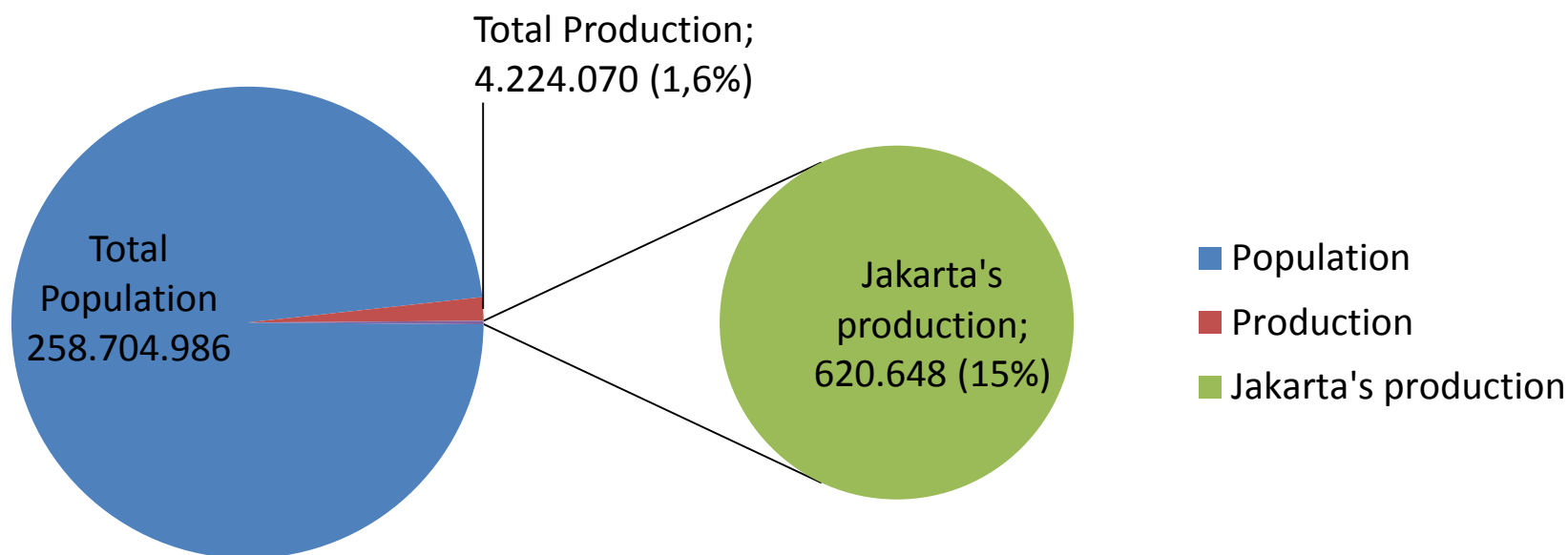


BLOOD DONATION

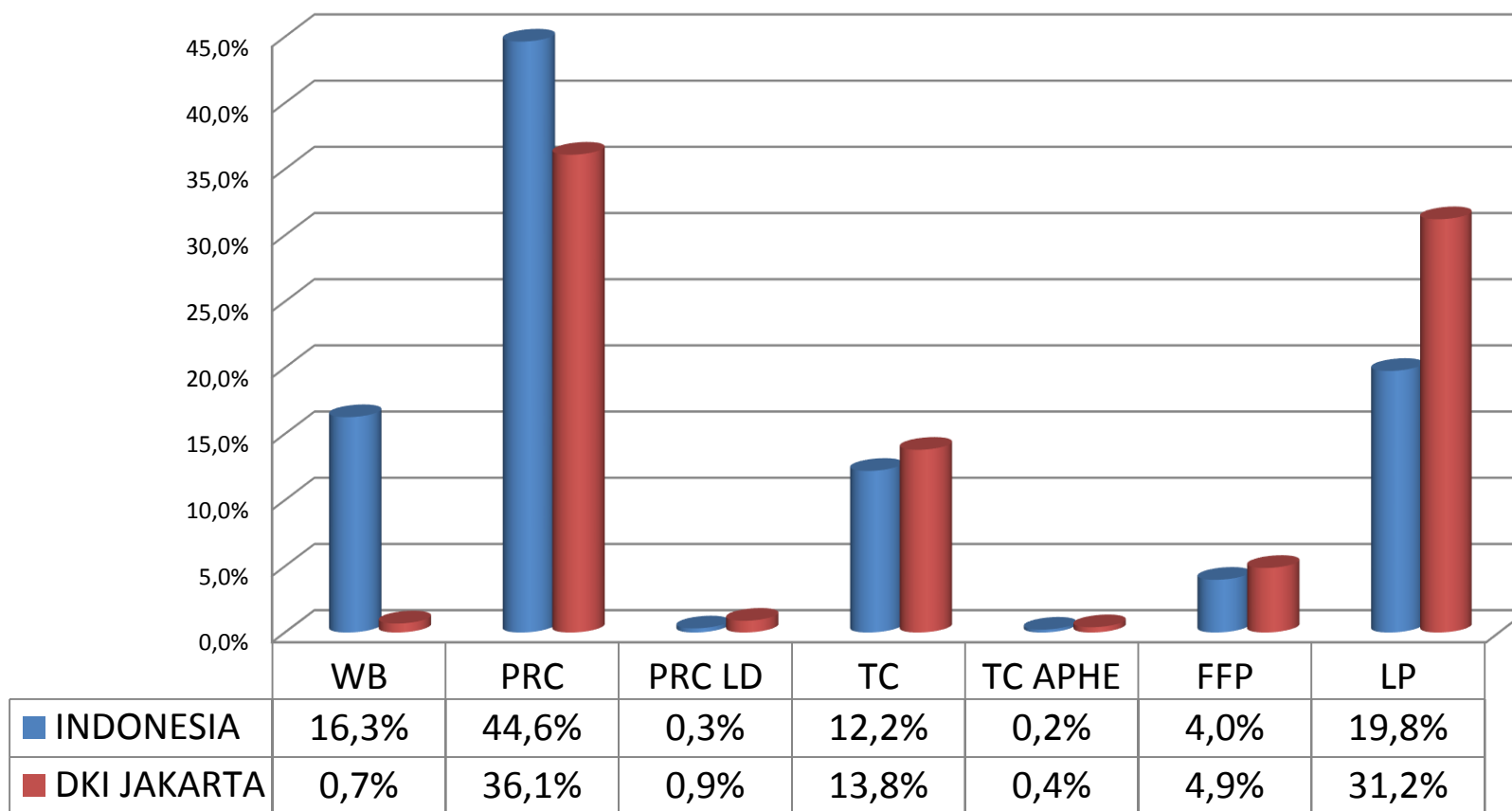
- **STATIC** in blood center building 300 – 400 donations per day
- **Mobile Unit**
- 12 – 15 bus
- Target prospective donor min 75 donors per location
→ 60% - 80% donations
- 600 – 800 donations per day



BLOOD PRODUCTION IN INDONESIA YEAR 2015



BLOOD PRODUCTION IN INDONESIA AND JAKARTA YEAR 2017



DONOR PANEL SETTING

DONOR PANEL

- Group of Regular VNRBD
- Categorized by
 - Their blood group → Rare
 - Negative Rhesus
 - AB
 - Their type of donations
 - Apheresis blood donors
 - The program in Blood Center
 - Panel cell donor for screening cells productions
 - Panel donor for HLA matching → transplantation

PANEL OF DONORS IN JAKARTA BLOOD CENTER



Apheresis Donor
($\pm 1\%$)

Negative Rhesus
Donor (0,3%-0,5%)



Panel Cell Donor →
for screening cells

HOW WE GET DONOR PANEL ➔ BLOOD DONOR PROGRAM

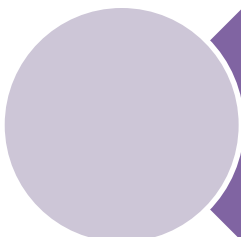
BLOOD DONOR PROGRAM



Recruitment Program : Socialization,
Education & Collaboration with community
society (Rhesus Negatif Indonesia/RNI)



Appreciation Program : Gathering or
capacity building (1x/year), token
appreciation



Reward program: 10x, 25x, 50x, 75x, 100x
(Medal of honour → Satya Lencana
Kebaktian Sosial)

SOCIALIZATION PROGRAM





NEGATIVE RHEBUS DONOR



PANEL CELL DONOR RHEBUS



APHERESIS DONOR

50 times of donations Awards



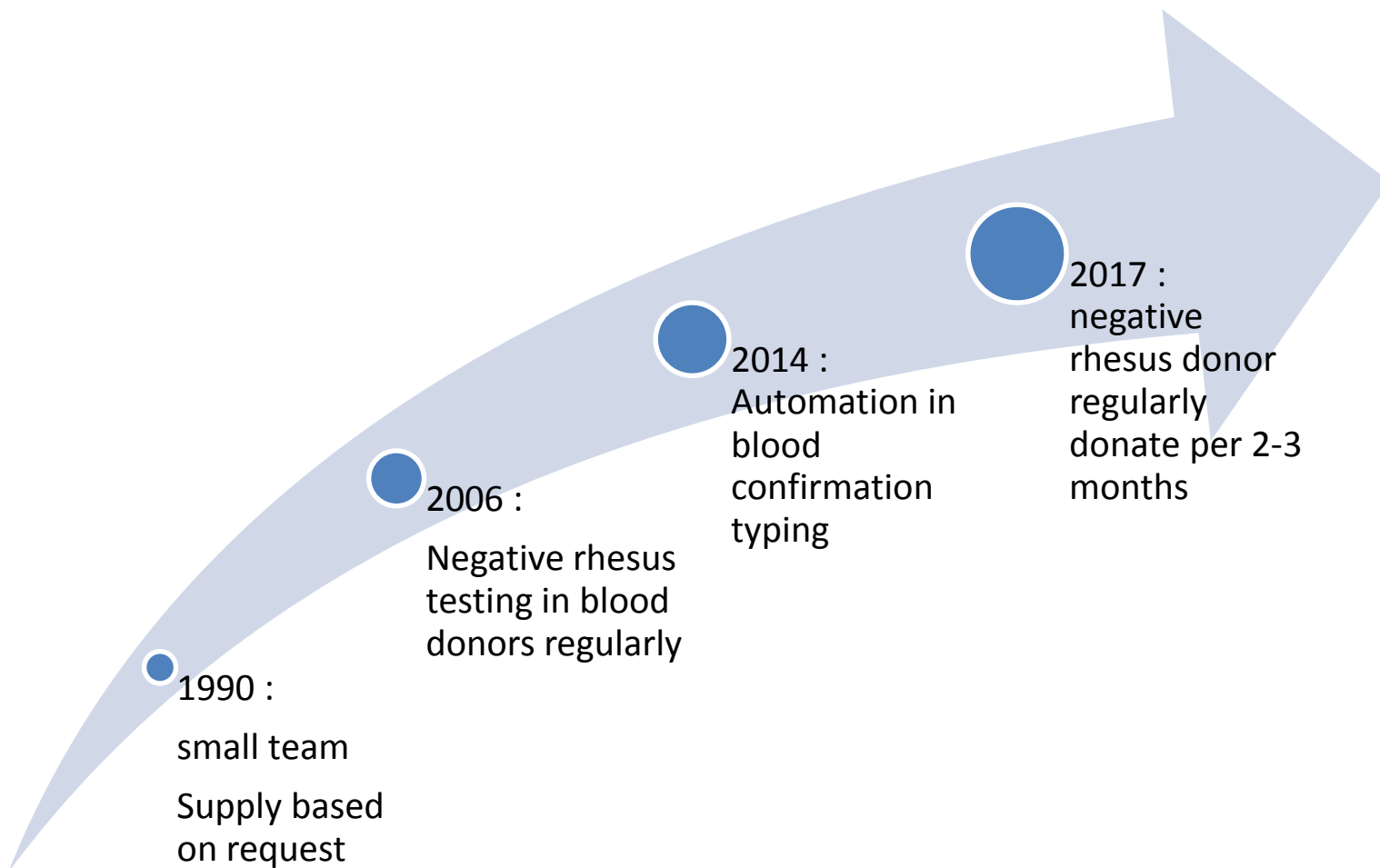
75 Times of Donations



100 Times of Donation Awards

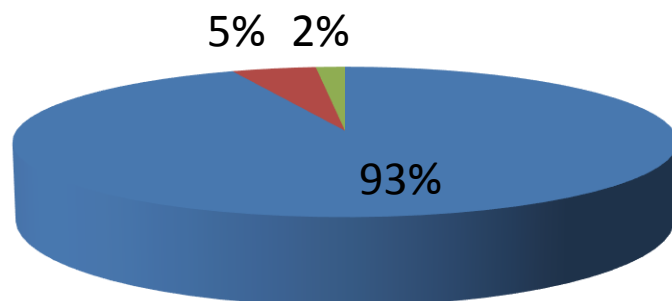


THE JOURNEY OF NEGATIVE RHESUS IN JAKARTA BLOOD CENTER



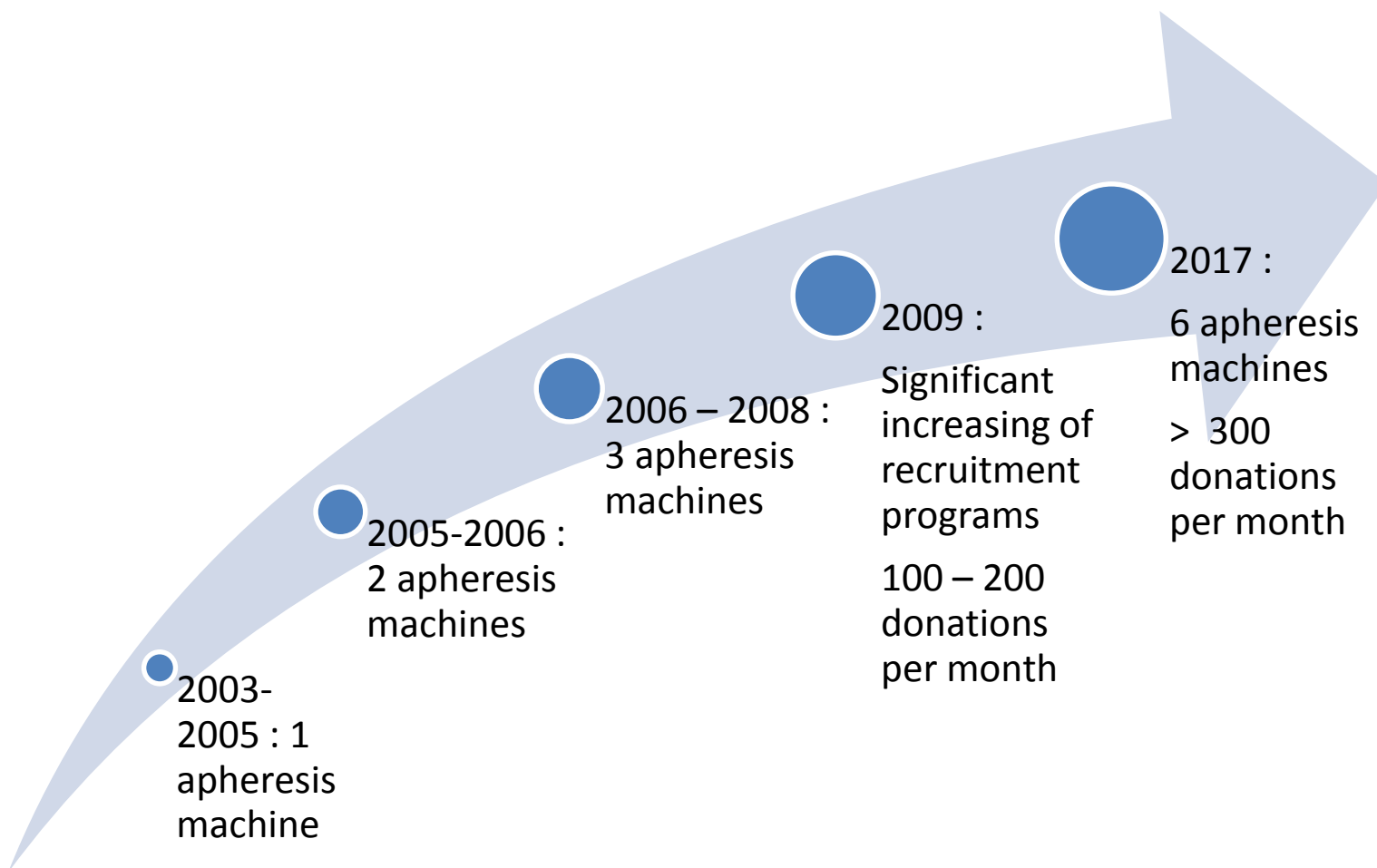
NEGATIVE RHESUS DONORS IN JAKARTA BLOOD CENTER

■ Indonesian ■ India ■ EEBDC



- Negative Rhesus Donor:
 - Indonesian population (RNI community)
 - India : Syai Center
 - EEBDC : Expatriate Emergency Blood Donor Committee (est 1990 – now)
- 300 active negative rhesus donors of 600 registered

JOURNEY OF APHERESIS



APHERESIS DONOR PROGRAM

- 445 platelet apheresis donors of 590 registered
- 200 HLA and HPA typed
- CHALLENGE :
 - The cost of apheresis product → Exceed the national insurance coverage
 - Capacity of the donation room and number of staff
 - The availability time of the donor

PANEL CELL DONOR

- Aims:
 - to develop donor's red cell antigen database in order to have homebrew panel cells.
- Methods:
 - Only routine-blood group O donors were selected and full-phenotyped (18 antigens).
 - We use manual records → now in the Information System (SITD)
 - We also ask their commitment to be in our donor panel → donate routinely
 - We always motivate them → once a year gathering

Frequency of Red Cell Antigen in Jakarta Blood Center

- Since 2001 until 2015, we have 1061 full-phenotyped donors in our database.
- Of 1061, the most frequent antigens are
 - D (85.8%),
 - C (87.6%),
 - e (97.9%),
 - k (100%),
 - Fy a (96.8%),
 - s (98.9%),
 - M (85.1%)
 - Jk a (77.9%).
- The less frequent antigens are
 - E (22.5%),
 - Fyb (24.7%),
 - S (14.8%),
 - Lea (27.1%).
- The very rare antigens are K (0.94%).
- The most difficult types in donors are
 - Jk a-b- (0.38%),
 - Fy a-b- (0.28%),
 - R2 R 2 (1.7%)
 - SS (1.04%).
 - Bombay 3 – 5 donors

BENEFIT

- Building a panel of regular donors
 - Screened regularly and understand the importance of health and risk behaviour factors
 - They have experience in giving blood and dealt could be more quickly in blood center
 - They are dependable and willing to give blood in an emergency as well as on regular basis
 - They provide basic source of safe blood

CONCLUSION

Supply vs Demand → Get The Trust from The Donors and other stakeholders

Build A Team with A communicative, responsive and persuasive skill

Innovative Recruitmen, Appreciation and Reward Program

Do not start with Money for appreciation --> Token Appreciation

Monitor → continuous improvement



THANK YOU