



**Asia-Pacific
Economic Cooperation**

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Centralization and Regionalization in Thailand

Submitted by: Thai Red Cross Society



**Policy Dialogue and Workshop on Attaining a
Safe and Sustainable Blood Supply Chain
Manila, Philippines
30 September – 1 October 2014**

Historical Overview

Past, Present and Future Direction

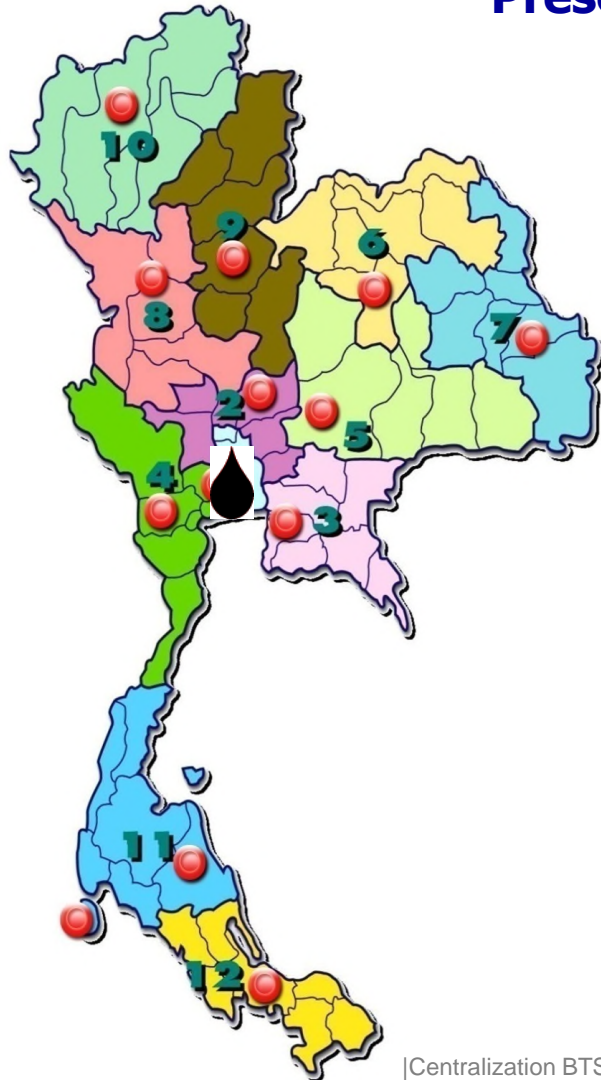
- **In 1966:** TRCS has been granted permission by the government to take responsibility of **BTS** in Thailand.
- **In 1969:** NBC first building was operated for blood collection, Labs testing and distribution. Component preparation was started in 1979.
- **1969-1985:** Establishment of provincial blood centers (hospital based BB) in each province throughout the country and encouraging general unpaid blood donation.
- **1996-2005:** 11 **RBCs** were set up – aimed to standardize the quality of blood donor testing in the provinces.
- **2010:** The first model of full functions BTS (donor recruitment, blood collection, donation testing, blood processing and distribution) in the province, **Phuket RBC** funded by Finish Red Cross, was operated.
- **2007-2013:** 9 Of 12 RBCs started blood collection & component preparation.



Historical Overview

Past, Present and Future Direction

Present Blood Transfusion services network in Thailand



Total population : app. 65 M

Provinces : 77

BTS network Composes of

➤ **BKK,**

- 1 NBC and 6 branches BS in the hospital.

➤ **Provinces,**

- 12 RBCs has been set up throughout the country.

- 161 branches BS in the provincial H, Central general H, university H.(hospital based BBs)

➤ **~200 hospital BBs in BKK and 600 in provinces.**

Historical Overview

Past, Present and Future Direction

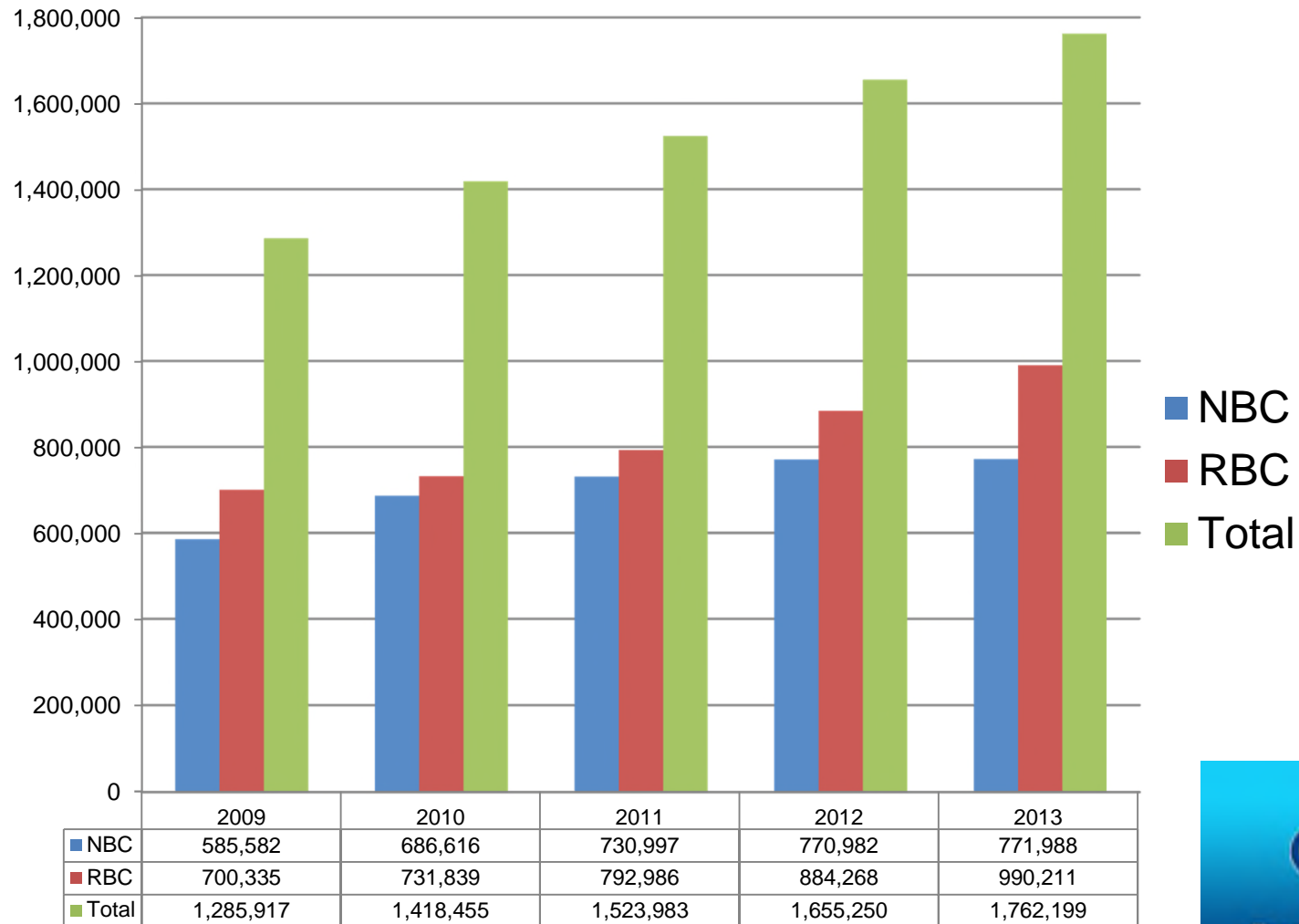
Present activities of each organization

| | Blood Collection | Lab Testing | Blood component processing | Distribution | X-match |
|--|------------------|-----------------|----------------------------|---------------|-----------------|
| National Blood Centre (NBC, TRCS) | YES | YES | YES | YES | YES |
| 12 Regional Blood Centre | 9 of 12 | YES | 9 of 12 | YES | 1(PKRBC) |
| 6 Branches BS in BKK | YES | YES / NO | YES | NO | YES |
| 161 branches BS in provinces (Hospital based Blood Banks) | YES | YES/NO | YES | NO/YES | YES |
| ~800 HBB labs in BKK and in provinces | NO | NO | NO | NO | YES |

Experience

Regionalization and Centralization

No. of samples tested at NBC & RBC from 2009-2013



Experience

Regionalization and Centralization

Annual blood collection in Bangkok VS in the province fiscal year 2009–2013 (Oct–Sep)

| Fiscal Year | 08/09 | 09/10 | 10/11 | 11/12 | 12/13 |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Whole country | 1,836,513 | 1,925,568 | 2,023,489 | 2,097,868 | 2,205,043 |
| % of collection / population | 2.9% | 3.0% | 3.2% | 3.3% | 3.4% |
| Collection in BKK | 662,790 | 693,944 | 709,796 | 723,328 | 772,760 |
| ▪ 6 Branches & few HBBs | 123,697 | 122,759 | 121,043 | 126,212 | 130,050 |
| ▪ At NBC | 539,093 | 571,185 | 588,753 | 597,116 | 642,710 |
| Collection in provinces | 1,173,723 | 1,231,624 | 1,313,693 | 1,374,540 | 1,432,283 |
| ▪ At HBBs | 1,156,114 | 1,192,639 | 1,227,768 | 1,257,424 | 1,270,878 |
| ▪ At RBCs | 17,609 | 38,985 | 85,925 | 117,116 | 161,405 |

Challenges

Challenges to advance regionalization or centralization

- Moving toward the consolidation and centralization of the BTS in Thailand in order to provide the adequate and safe blood supply with the same standard for the whole country.
 - NBC has planned to construct new building for all RBCs to be able to operate full function of BTS as the NBC in BKK. From 2012–2016, new building of 6 RBCs will be operated.
 - Development of new IT program for national donor data base & networking of BTS.

