

SingHealth Beyond Borders

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PATIENTS. AT THE HEART OF ALL WE DO.®



Singapore General Hospital



KK Women's and Children's Hospital



Sengkang Health



National Cancer Centre Singapore



National Dental Centre Singapore



National Heart Centre Singapore



National Neuroscience Institute



Singapore National Eye Centre



Polyclinics SingHealth



Bright Vision Hospital

Topics

- International Collaboration in Healthcare – A Perspective
- SingHealth
- Regional Works – Their Importance
- SingHealth Global Health – Vision & Mission
- ICO – How We Started
- SHS ICO – Projects
- The Rise of Global Health
- Singapore as Strategic Location for Global Health
- Global Health Initiative – Strategic Opportunities
- Relevance of Global Health
- ICO Roles
- Challenges

International Collaboration in Healthcare – A Perspective

- Collaboration between healthcare individuals and institutions across national borders play a crucial role in the advancement of the expertise and increased availability of healthcare especially in the developing world.



SingHealth

- 19,000 staff strength
 - 2,318 doctors,
 - 7,262 nurses,
 - 3,507 allied health professionals
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- Coordination
 - Multidisciplinary effort
 - Adopt the team-based approach
 - Consistent and focused
 - Proactively engage ourselves in various humanitarian projects



Regional Works - Their Importance

Patients

- Branding created through activities **brings tertiary level cases** to SingHealth

Education

- Bringing back lessons from global engagement **improves healthcare delivery and management capabilities and capacity** (Exposure to the health problem not endemic in Singapore)
- Education and training: **Bi-Directional Learning** : *We teach, therefore we learn*

Research

- Opportunity for **Research Collaboration** : develop global networks to integrate resources, expertise, infrastructure

Continued

- Develop pool of grateful **philanthropists** due to regional engagement
- Together **building regional capacity** to address regional health challenges
- **Staff Retention**
- Creating avenue for **Tomorrow's Medicine**
- **Attract Students** for Medical Education

SingHealth Global Health – Vision & Mission

VISION

SingHealth Beyond Borders

*“helping others to help themselves”
i.e. through technology and capability transfer*

MISSION

...to lead in interdisciplinary education, research and clinical care through sustainable and scalable health and development programmes in resource-limited countries

Foster collaborations among national and international partner to exchange health knowledge and skills transfer.

Strengthen health systems through capacity building in medicine and public health

International Collaboration Office – How We Started



SHS ICO – Projects

- ❖ **Philanthropic Projects : SingHealth as Socially Responsible Academic Medicine Centre**
 - Kayin Chaung Project, Myanmar
 - SingHealth Brings Smile Projects in Myanmar and Bangladesh
 - Cataract surgery in India, Myanmar, Vietnam

- ❖ **Externally Funded Training Projects : Specialty-Based to Interdisciplinary**
 - Temasek Foundation International, SIF, Lee Foundation
 - Bangladesh, China, Indonesia, Myanmar, Laos, Cambodia, Sri Lanka
 - Develop the capacity of doctors, nurses and allied health professionals,
 - Improve the quality of healthcare in the region

- ❖ **Donation of Used Equipment**
 - Africa, Sri Lanka, PNG, Indonesia

Capacity Development Projects



Expand the strong education programmes that has been developed over the past 8 years in Papua New Guinea, Cambodia, Indonesia, China, Bangladesh, Sri Lanka

Recruit new fellows or residents for SingHealth's residency/fellowship programme

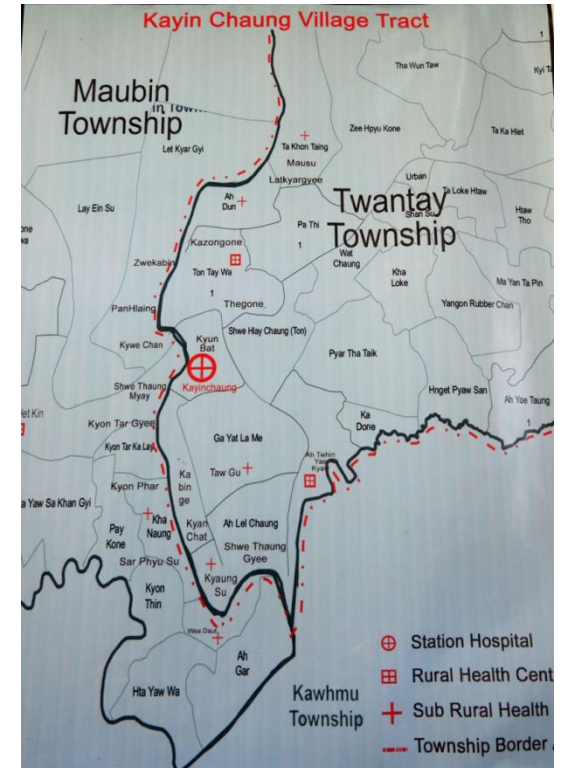
Assist in setting up:

- Burns unit in Bangladesh
- Orthopaedic Centre in Sri Lanka and Vietnam

Increase the number of training programmes with SIF, TFI and other philanthropic organisations.

Myanmar – Kayin Chaung Station Hospital

- Kayin Chaung Station Hospital began as a Singaporean initiative which started during the International Emergency Response sponsored by Singapore to Myanmar during the aftermath of the Nargis cyclone.
- Known locally as the ‘Singapore Hospital’
- 16 bedded hospital
- 1 doctor and a team of nurses and midwives



Myanmar – Kayin Chaung Station Hospital



China – Ningxia

- Autonomous state and predominantly Muslim
- Started from Orthopaedics project, then extend towards Cardiology/ CTS
- The key personnel were trained in NHCS



Papua New Guinea

- 7 million Population without indigenous cardiac surgical program.
- Visiting cardiac teams from Australia for past 20 years
- Singhealth made the first visit to PNG 7 years ago and the cardiac program started 3 years ago with NHCS with the aim of training a complete cardiac surgery team for Port Moresby General Hospital.

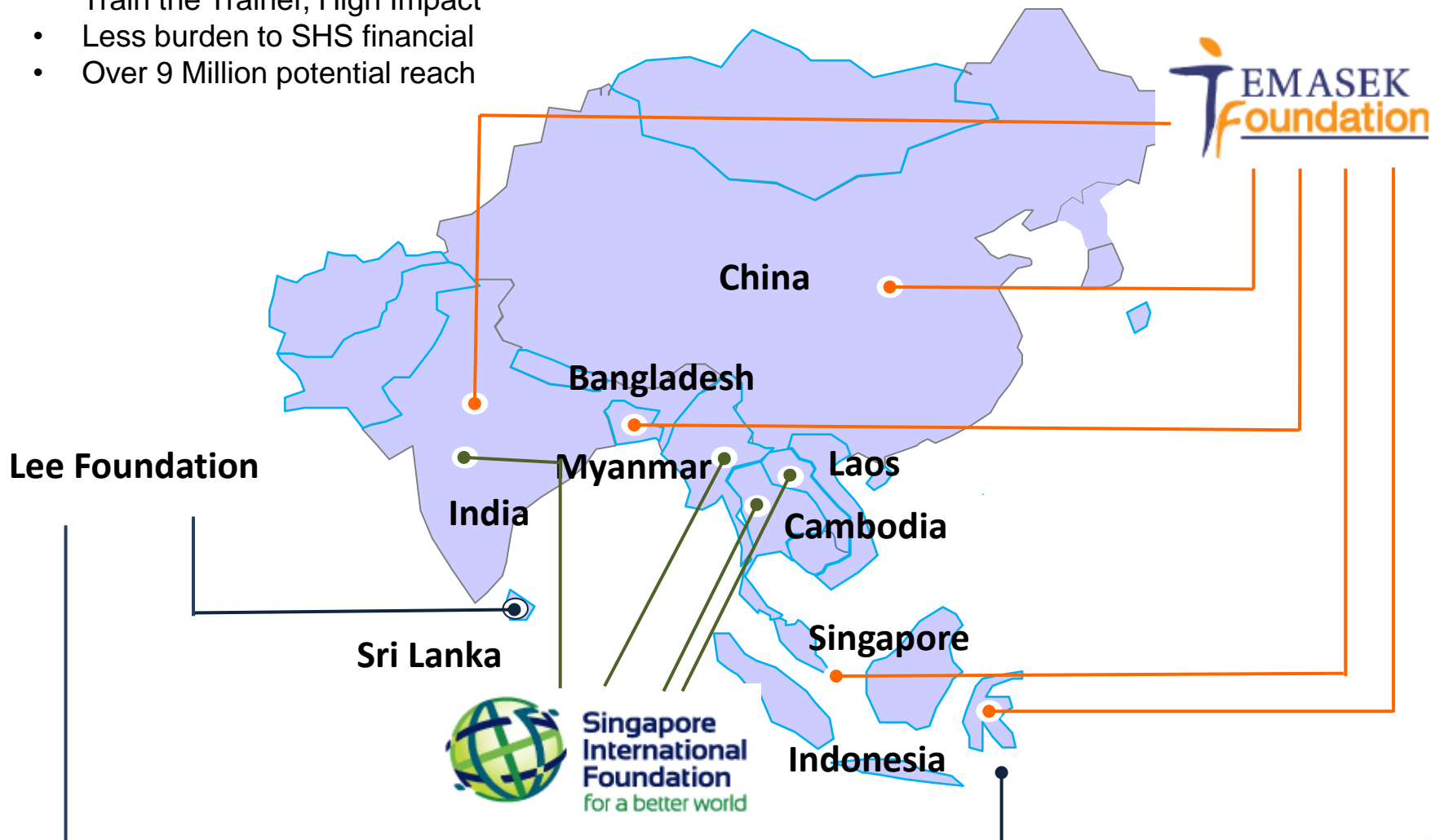


Papua New Guinea – New Links Made



ICO's Externally Funded Training Projects

- Technical Assistance Programme – Train the Trainer, High Impact
- Less burden to SHS financial
- Over 9 Million potential reach



Temasek Foundation International – Shanghai Ruijin Hospital Group Project

- 2 years nursing project with SGH
- Commenced in April 2013
- Focus on upgrading nurses' skills and knowledge to meet the advanced management ideologies and the development of specialty nurses in Shanghai, China



Temasek Foundation International – Specialists Training Programme in Makassar

- Partner with Hassanuddin University
- 2 years programme with total of 8 visits
- Involves up to 7 Specialists from SingHealth
- To train 50 Master Trainers who will continue to train the rest of their local teams
- To train up to 380 healthcare workers and community first responders



SIF – National Paediatric Hospital

- Paediatric Emergency Care Unit Project with KKH from 2004 to 2007 aim to reduce the mortality rate of patients within 24 hours of admission at National Paediatric Hospital, Phnom Penh

The New Paper
8 August 2014
Pages 16 & 17

S'pore nurses, doctors teach Cambodian midwives better birthing methods They deliver on deliveries

Report by DENISE WONG
Illustration by [unreadable]

These nurses and doctors from Singapore have played a crucial role in helping one billion and millions in Cambodia, and their achievements are set to be long-lasting.

It started from teaching the local, local obstetrician (SIO) and Capital Venture Development Collaborated with the National Children's Hospital (NCH) to bring in a team of mid-level doctors and nurses to Cambodia. The training programme of the SIOs and a 4-day intensive course for midwives, bringing Cambodia to the level of the region's health care.

In the following process of 100,000 people, about 100,000 children in the country were born in 2013.

TRAINERS
The 27 midwives who attended the training will assist doctors of NCH, the NCH, who are trained by themselves at various sites which could be the point of care of their patients. These care systems were given as the training course from NCH to the doctors.

Dr. [unreadable] said the New Paper that she hopes to spread their knowledge to the many trainees that come to the hospital.



Illustration shows a newborn baby (left), CEO of KKH, and a pregnant woman (right) during the training course.



Overseas, she works for 20 hours a week, and makes only \$1,000 a month. The long hours and low pay is a common complaint among the employees in many, but it is the doctor's passion to serve and love for the child to help her.

The midwife, 27, does not see any job and she finds it hard to see the midwife but it is not a job to do in the field of 20 years.

The midwife, who has been doing for more than 20 years, has been doing for more than 20 years, has been doing for more than 20 years, has been doing for more than 20 years.



At a moment, the baby is being held by the midwife, who is smiling.

The Sunday Times
27 July 2014
Page 16

KKH helps cut infant deaths in Cambodia

S'pore hospital staff share knowledge with local midwives

Salma Khalkh
Senior Health Correspondent

For four days last week, staff nurse Yong Yee Seong was impressing upon midwives in Cambodia's Kampong Chhnang province the importance of a practice many take for granted – washing one's hands before handling a child.

The 27-year-old and nine other staff from KK Women's and Children's Hospital (KKH) also taught the midwives how to cope with childbirth difficulties, from resuscitating newborn babies to dealing

with massive bleeding, which could kill the mother.

"Despite having fewer resources than us, the Cambodians are still able to do a good job with what they have. I admire that," said Ms Tong. "But we had to stress a lot on hand washing and hygiene because it's very important."

The training programme, now in its second year, is part of a collaboration between KKH and Social Capital Venture Development (SCV), a not-for-profit organisation in Cambodia. It kicked off after SCV told KKH how in Cambodia, in the Chhnang province of 500,000 people, over 15 women out of every 10,000 die in childbirth. In Singapore, the figure is just one.

The programme appears to be bearing fruit. Associate Professor

Anette Jacobsen, KKH's director of Paediatrics International Medical Programme, said early numbers seem promising, with only three infant deaths in the first seven months of this year – compared with 10 to 15 a year previously.

Maternal deaths have also come down. The KKH team, with support from the Tan Chin Huan Foundation (TCHF), trained 50 midwives last year and a further 50 this year. From the first batch, 10 returned to help with this year's training, and will eventually become key trainers in the long term, ensuring the programme's long-term sustainability," said Prof Jacobsen.

"These trained midwives also showed initiative by combining the steps involved in hand washing with local tunes," said Ms Yap Su-Yin, TCHF's chief executive.



KKH staff nurse Yong Yee Seong (left) teaching Cambodian midwives the proper technique of hand washing when attending to a childbirth.

The exchange is not one-way. The Khmers were impressed when told that Singapore nurses needed to do an ultrasound to ascertain a breech birth, which is when the baby exits feet or buttocks first. The Cambodian midwives relied on instinct and skills developed through experience.

Said Prof Jacobsen: "We learnt that clinical acumen should also be emphasised while reliance on machines can be reduced at times."

Kampong Chhnang is one of 24 provinces in Cambodia. The team said the training to improve care in pregnancy and childbirth could be scaled up to include the neighbouring provinces.

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SIF – Calmette Project

	Target	Actual
Total number of master trainers trained	10	11
Total number of healthcare staff trained	113	569
Feedback reports from trainees	>80% good and above	
Feedback report from patients (14 THR, 8 Surgeries>	100% ambulant and functional at home	



Lee Foundation - Ambon



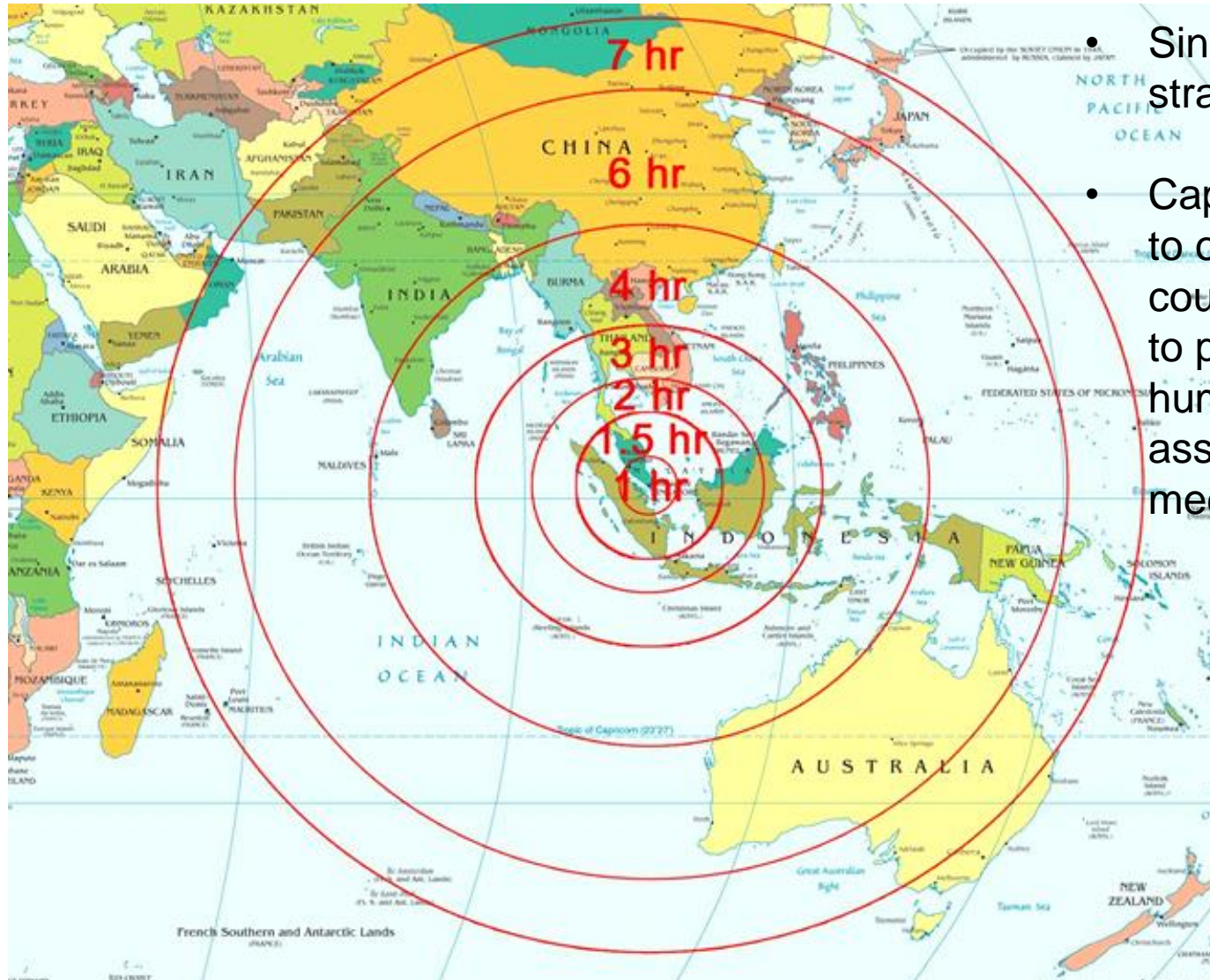
The Rise of Global Health - In North America

- ❖ Increasingly *important focus* of education, research and clinical service in United States.
- ❖ **Global Health Program** – having at least 1 partnership with institution in the global south
 - 2001 → 6 schools/academic institutions
 - 2011 → 78 schools/academic institutions
 - 2013 → 157 schools/academic institutions
- ❖ Mount Sinai Global Health, Duke Global Health Institute and Harvard Global Health Institute, Johns Hopkins Global Health, Emory Global Health Institute etc.

Global Health In Asia

- ❖ 1992 → School of International Health/Global Health Sciences, The University of Tokyo, Japan
- ❖ 2007 → International Institute for Global Health, United Nations University, Malaysia
- ❖ 2010 → Global Health Asia Institute, Mahidol University, Thailand
- ❖ 2012 – Mahidol University Global Health
- ❖ Nascent in Singapore
 - NUH → humanitarian volunteering work in Cambodia, China and Indonesia.
 - Khoo Teck Puat Hospital & National University Children's Medical Institute → Project Sothea in Cambodia in 2010
 - Tan Tock Seng Hospital → Relief efforts to disaster area

Singapore Strategic Location for Global Health



- Singapore is in a very strategic location
- Capable to reach out to our neighboring countries and beyond to provide humanitarian assistance and medical skills training

Global Health Initiative – Strategic Opportunities

1. **Multidisciplinary programmes on health issues** and health improvement that transcend national boundaries
2. **Opportunities for SingHealth’s medical and healthcare professionals** to work overseas, to conduct research, publish its findings and market its products, and to promote education programmes.
3. **Broadens experiences** which may allow them to diagnose and treat diseases that are not common in Singapore.
4. **Post-disaster intervention** for disaster management is one area that ICO could also play a vital role in, by building on existing relationships with government agencies and providing humanitarian support where feasible.

Relevance of Global Health to Singapore & SingHealth

- To stay relevant as regional healthcare leader
- To develop as leader, we should take a proactive, strategic and comprehensive approach to grow and sustain global health initiatives and collaborations
- Regional / Global engagement is crucial for patient safety & quality , excellence in education and research
- Unique opportunities to develop and advance research, education, and care delivery in an integrated manner

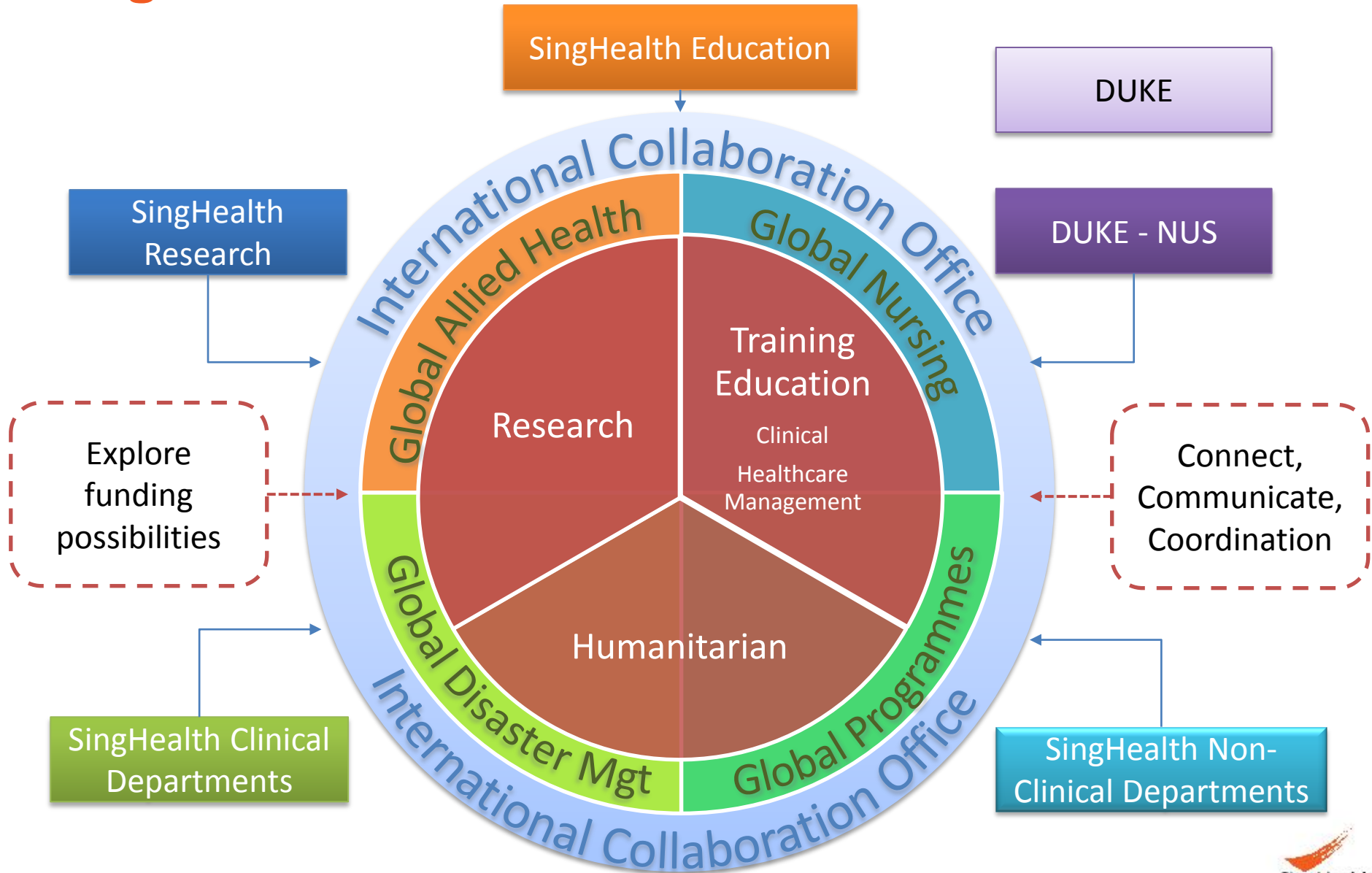


Relevance of Global Health to Our Neighbours

- To grow together in improving healthcare quality in this region through joint projects, exchange of students etc
- To build a network where healthcare professionals (academics and practitioners) and healthcare institutions in this region can stand shoulder to shoulder to solve pandemic



SingHealth Global Health – Structure



SingHealth Global Health – ICO's Roles

1. **Create Opportunities** in Regional Collaboration
2. **Structured Access** for Medical Students / Healthcare Professionals to Global Health Projects
3. **Explore Funding Alternatives** : Foundations, Philanthropic, USAID, World Bank etc



Possible Challenges for Implementing Global Health

Internal

- Manpower management – conflicting with many priorities
- Proper fit with vision and mission
- Infrastructure and business support services
- Funding model and sustainability
- Leadership commitment

External

- Commitment for programs and projects for long term basis
- Delivering value consistently over the long period
- Navigating through complex geopolitics and relationships
- Differentiation and competitive positioning

Open Invitation to Our Neighbours to Join SingHealth Global Health Network

Thank You