

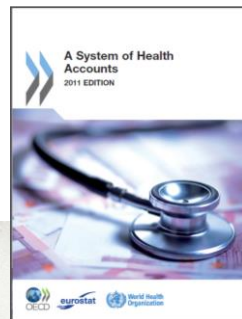
SHA 2011 Migration – Malaysia



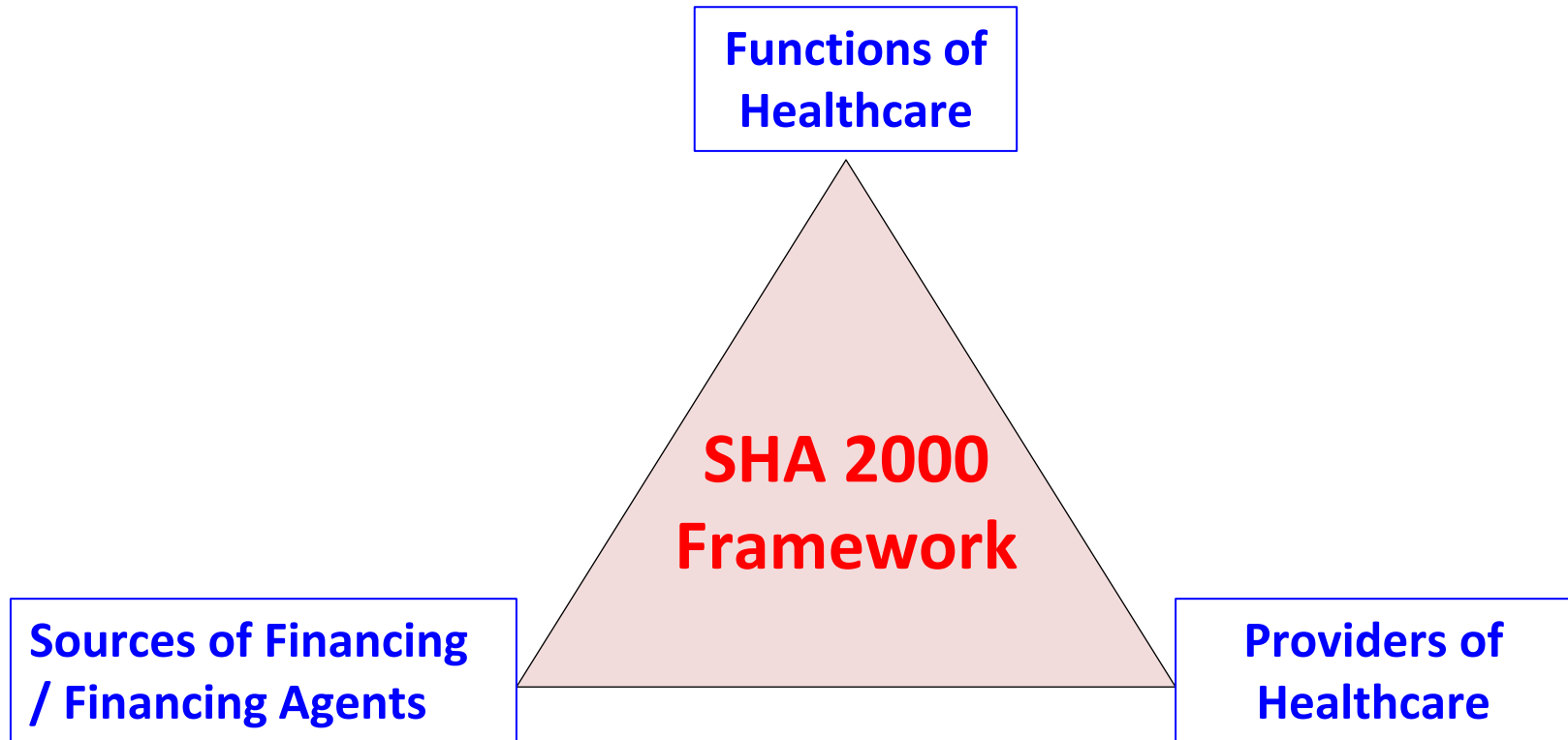
Dr. Jameela Zainuddin

MNHA Seminar 2017

Hotel Bangi Putrajaya, 14th March 2017

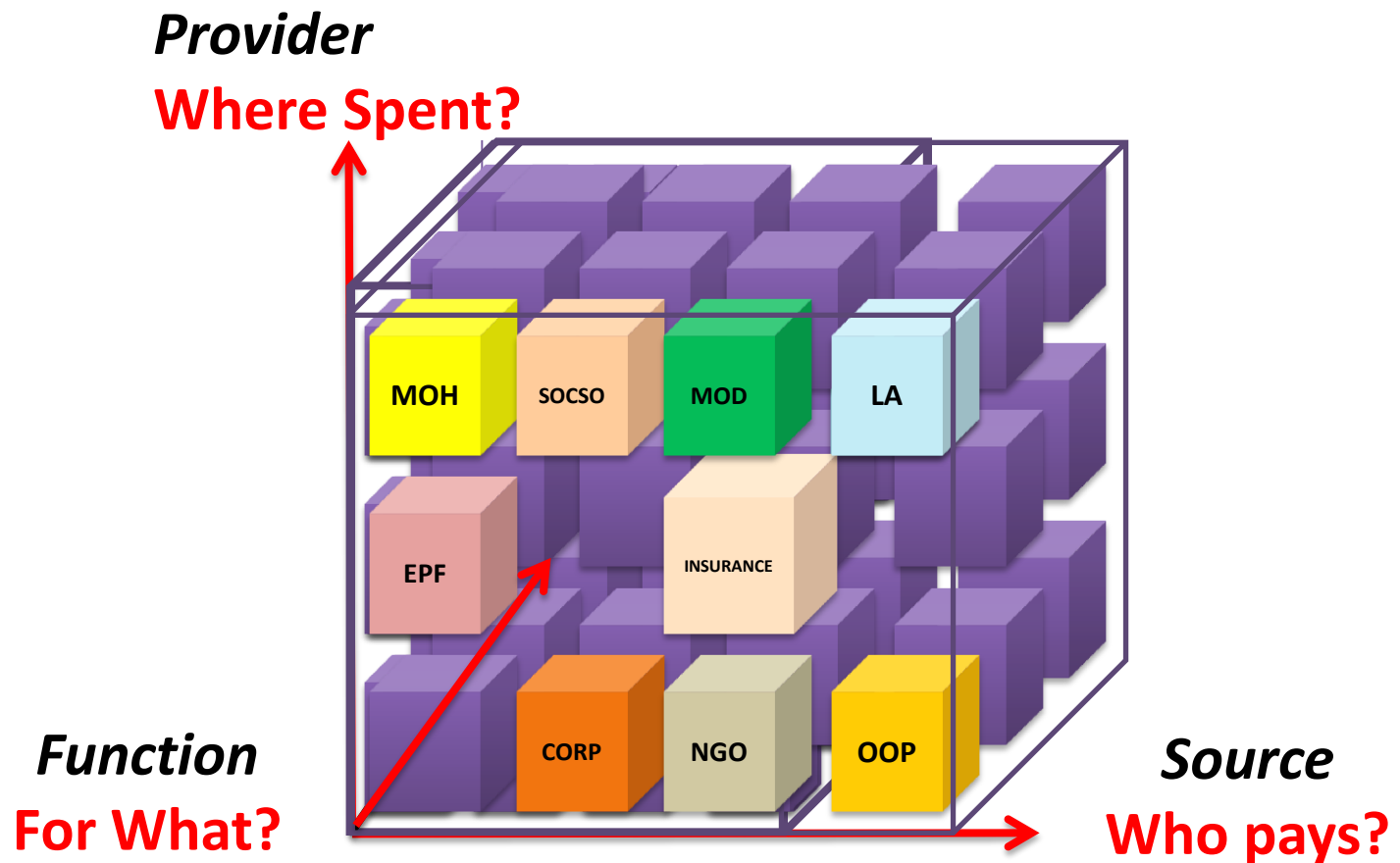


SHA 1.0 TRI AXIAL FRAMEWORK

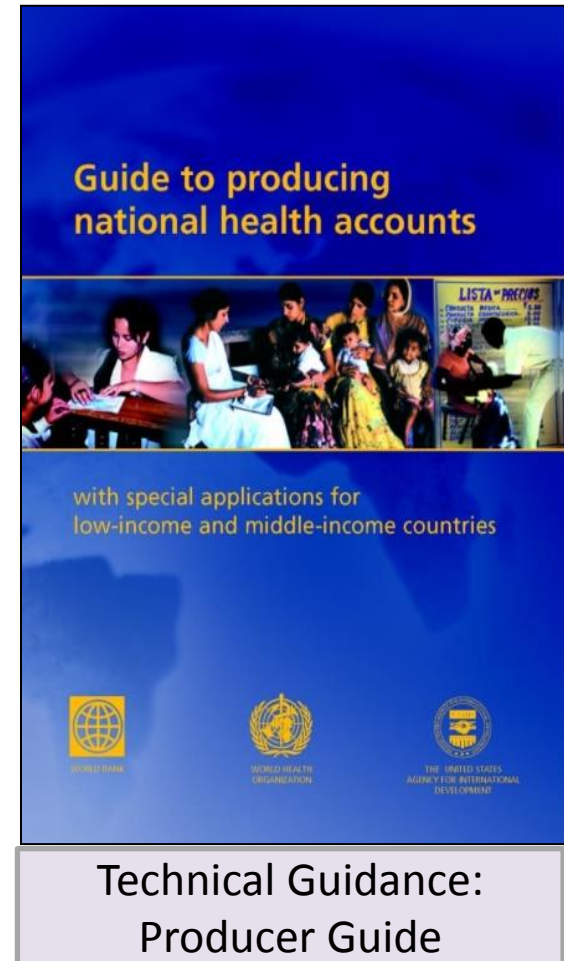
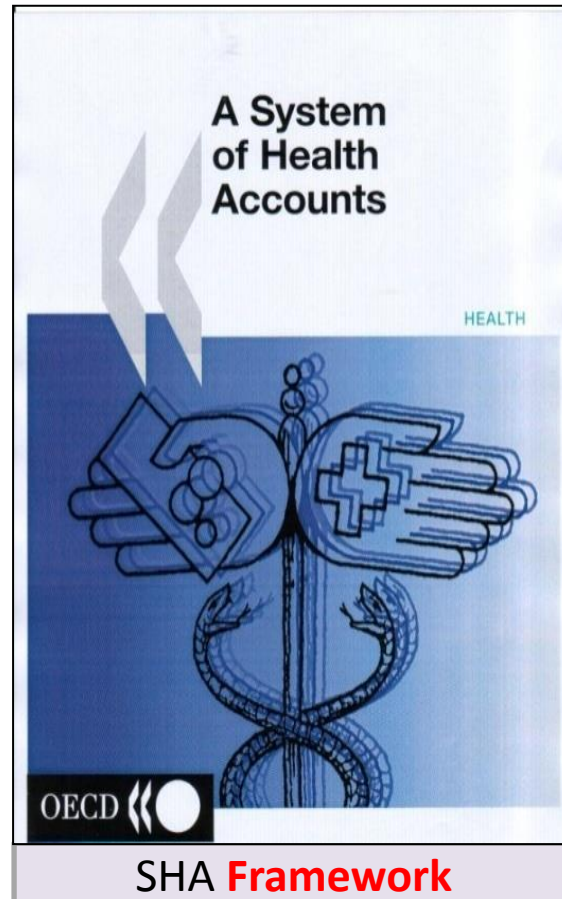
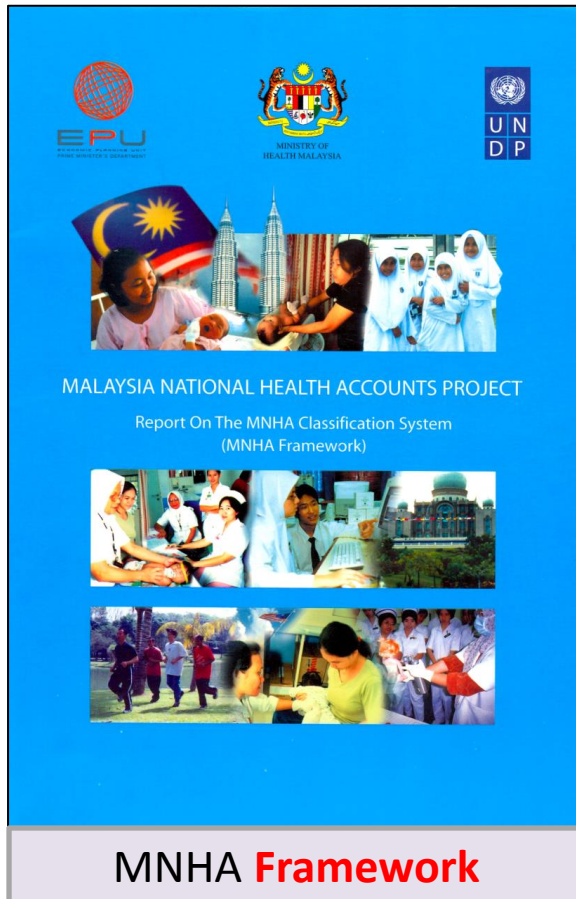


Source: IHAT for SHA 2011

TRI AXIAL FRAMEWORK OF NHA



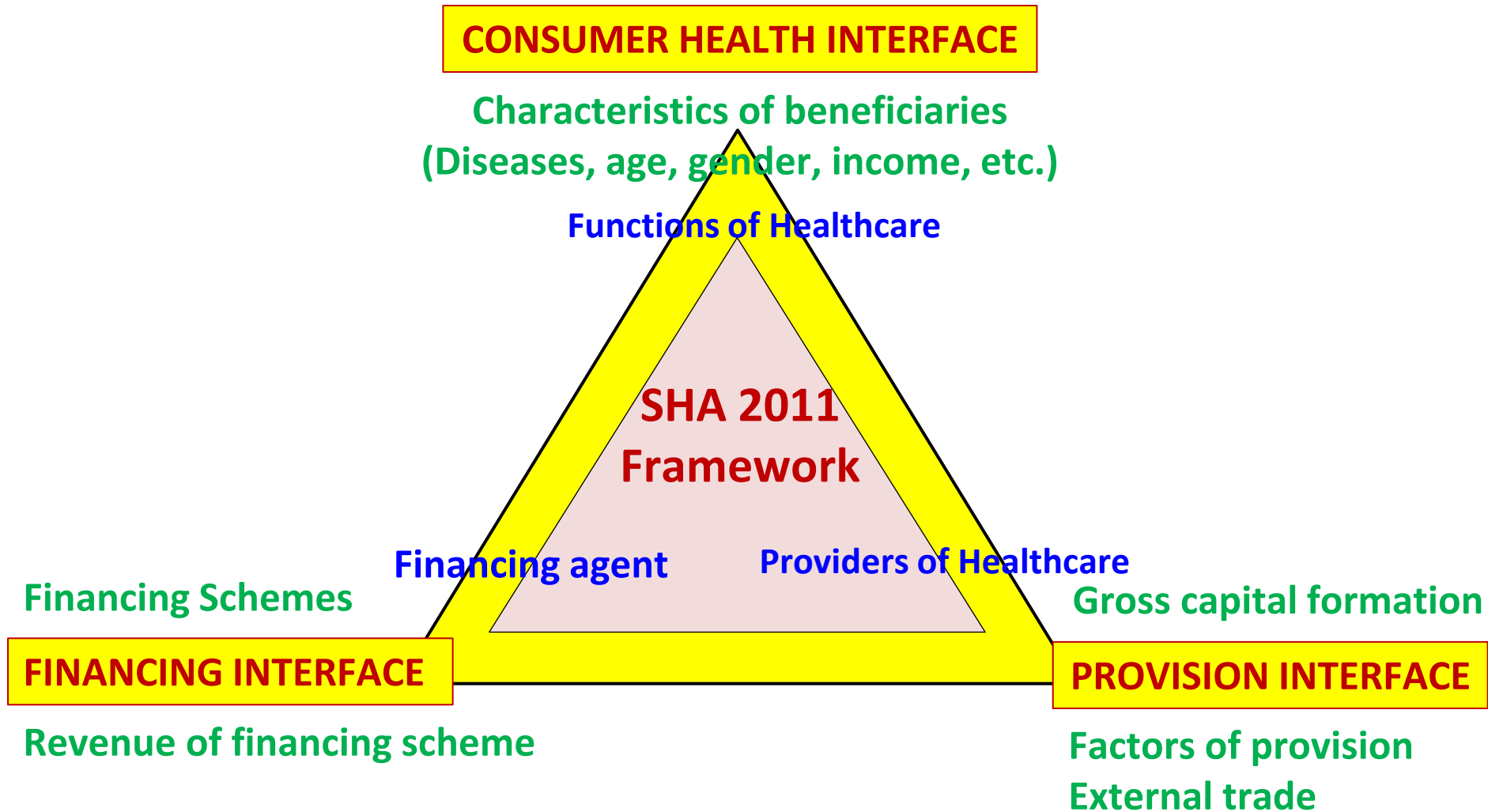
NHA REFERENCE DOCUMENTS



National

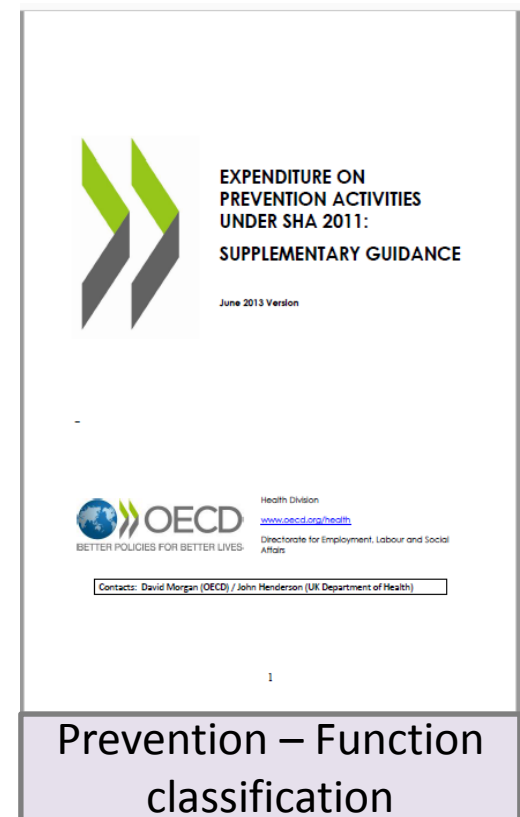
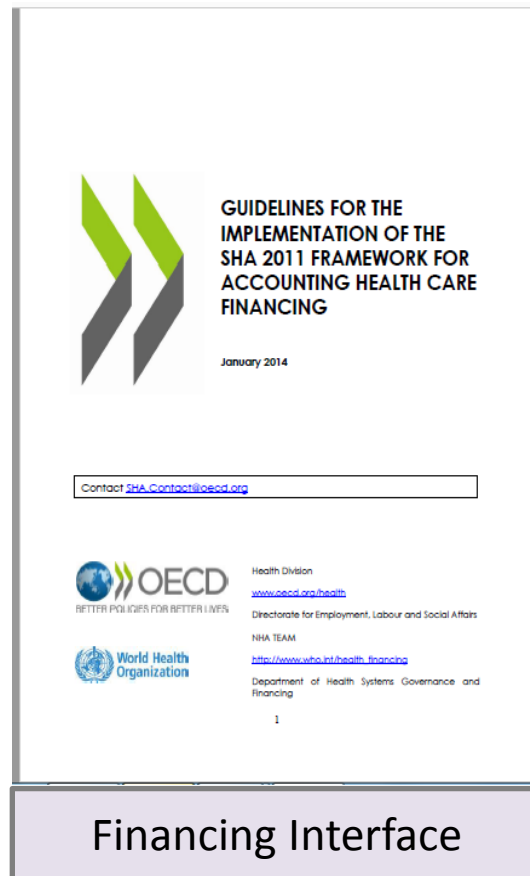
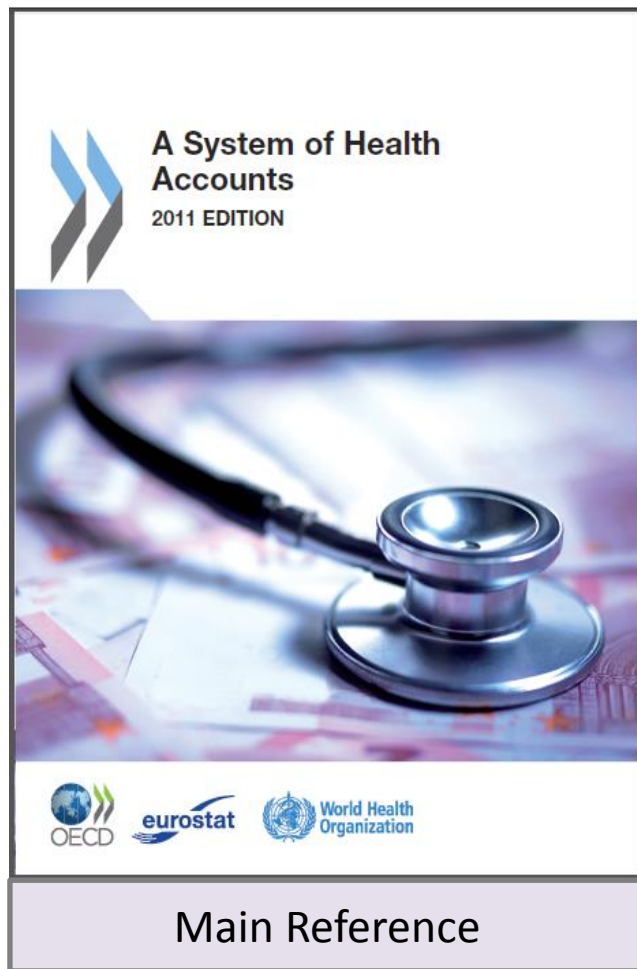
MNHA Unit, Planning Division, MOH - 2017

SHA 2011-TRI AXIAL FRAMEWORK



Source: IHAT for SHA 2011

SHA 2011 REFERENCE DOCUMENTS



CHALLENGES – ADDRESSING DATA GAPS

RAW DATA								
KOS PENGURUS								
UNIVERSITI	TAHUN WUJUD	2006	2007	2008	2009	2010	2011	2012
Akademi Kejururawatan Gleneagles	2012	-	-	-	-	-	-	-
Akademi Kejururawatan Tung Shin	2007	-	810,260	1,073,491			511,851	314,302
Alliance College Of Medical Sciences (ACMS) Pulau Pinang	2002				27,967,446			
Asian Institut of Medicine and Technology (AIMST)	2001			17,434,445	16,153,548	16,574,294	28,512,187	20,884,978
Bukit Merah Laketown Institute Off Allied Health Sciences (BMLIAHS)	2005	-	2,869,481	5,901,410	9,495,758	8,910,803	8,979,303	7,298,274
Cyberjaya University College of Medical Sciences	2005	2,215,777	10,952,868	13,051,249	22,209,318	34,677,365	41,934,216	33,854,828
Help International College Of Technology	1996			835,449				
IJN	2007	-	-		458,558	54,182		
Institut Kesihatan Sains & kejurawatan Pantai / International Medical College (IMC)	1993		5,173,000		6,528,263			
Institut Sains Dan Teknologi Darul Takzim	1998				8,011,541	8,432,148		
Institut Sains Kesihatan DSH	1994					210,634	195,927	
Institut Antarabangsa Sains Mantin	1986							4,321,599
Institut Sains Kesihatan & Kejururawatan Mahkota	1993				350.00	380.00	29,740.60	477,168.53
International College of Health Sciences (ICHS)	2006	-			5,400,000			
International University College of Nursing (IUCN)	2008	-	-	-				
I-Systems (Bukit Mertajam)	2009	-	-	-	-			

- Currently we use Excel sheets to create templates for Raw data entry

CHALLENGES – ADDRESSING DATA GAPS

STEP 3								
Mengisi DATA GAP mengguna GDP								
KOS PENGURUS								
UNIVERSITI	TAHUN WUJUD	2006	2007	2008	2009	2010	2011	2012
Akademi Kejururawatan Gleneagles	2012	-	-	-	-	-	-	-
Akademi Kejururawatan Tung Shin	2007	-	810,260	1,073,491	993,891	1,145,273	511,851	314,302
Alliance College Of Medical Sciences (ACMS) Pulau Pinang	2002	23,413,566	26,103,216	30,207,331	27,967,446	32,227,236	35,769,928	38,105,031
Asian Institut of Medicine and Technology (AIMST)	2001	14,694,322	16,382,343	17,434,445	16,153,548	16,574,294	28,512,187	20,884,978
Bukit Merah Laketown Institute Off Allied Health Sciences (BMLIAHS)	2005	14,694,322	2,869,481	5,901,410	9,495,758	8,910,803	8,979,303	7,298,274
Cyberjaya University College of Medical Sciences	2005	2,215,777	10,952,868	13,051,249	22,209,318	34,677,365	41,934,216	33,854,828
Help International College Of Technology	1996	647,553	721,941	835,449	773,500	891,314	989,295	1,053,877
IJN	2007	-	-	661,809	458,558	54,182	60,138	64,064
Institut Kesihatan Sains & kejurawatan Pantai / International Medical College (IMC)	1993	4,887,731	5,173,000	5,986,332	6,528,263	7,522,599	8,349,547	8,894,615
Institut Sains Dan Teknologi Darul Takzim	1998	6,416,560	7,153,667	8,278,412	8,011,541	8,432,148	9,802,859	10,442,801
Institut Sains Kesihatan DSH	1994	295,629	329,589	381,409	353,128	210,634	195,927	208,717
Institut Antarabangsa Sains Mantin	1986	1,558,007	1,736,985	2,010,085	1,861,036	2,144,495	2,380,236	4,321,599
Institut Sains Kesihatan & Kejururawatan Mahkota	1993	200,958.94	224,044.24	259,269.91	350.00	380.00	29,740.60	477,168.53
International College of Health Sciences (ICHS)	2006	-	5,040,052	5,832,481	5,400,000	6,222,487	6,906,516	7,357,381
International University College of Nursing (IUCN)	2008	-	-	-	1,326,000	1,231,000	1,803,000	1,467,958
I-Systems (Bukit Mertajam)	2009	-	-	-	9,872,607	15,189,374	20,661,724	21,051,690

- Data in blue are imputed data. Gap imputation is carried out using **interpolation** and **extrapolation** methods
- **Linear** or **log linear** calculations are used based on various indicators such as **GDP**, **GGE**, **GHE** and existing available data
- Techniques used are based from **Annex D NHA Producer Guide**. The aim is to make maximum use of data and information available

CHALLENGES – 1997-2016 TIME SERIES TIMELINE

						Puasa					Steering	
AKTIVITI / PROJEK / KETERANGAN	Jan	Feb	Mac	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Pengurusan Data Tahun 2016												
Mengenal pasti senarai sumber data												
Mengemaskini sumber data												
Perbincangan format soal selidik												
Mencetak borang soal selidik												
Mengedar borang soal selidik												
Menerima maklumbalas soal selidik dan menghantar peringatan kepada yang tidak respon												
<i>Raw data entry</i>												
Menganalisa data tahun 2016												
Mengemaskini semua program STATA dan metodologi lain untuk menghasilkan data tahun 2016												
Data validation and adjustment												
Menghasilkan <i>tabulation</i> dan <i>cross tabulation</i> mengikut kerangka kerja MNHA dan SHA 2000												

CHALLENGES – SHA 2011 TIMELINE

						Puasa					Steering	
AKTIVITI / PROJEK / KETERANGAN	Jan	Feb	Mac	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Projek MNHA – SHA 2011												
Memilih pakar perunding dengan terma rujukan												
Lawatan pertama pakar perunding												
Mewujud dan memuktamadkan pelan migrasi SHA 2011												
Mapping kerangkakerja dan klasifikasi SHA 2000, SHA 2011 dan MNHA/Mewujudkan MySHA												
Membangunkan format kutipan data termasuk merekabentuk soal selidik mengikut keperluan SHA 2011												
Mewujudkan networking dan kefahaman SHA 2011 dengan sumber data/stakeholders (perbincangan, bengkel, dll)												
Melaksanakan kutipan data/mengedar soal selidik tambahan untuk keperluan SHA 2011												
<i>Raw data entry tahun 2016</i>												
Menganalisa data tahun 2016												
Mengemaskini semua program STATA dan metodologi lain untuk menghasilkan data berdasarkan SHA 2011												
Data validation and adjustment												
Menghasilkan <i>tabulation</i> dan <i>cross tabulation</i> mengikut kerangkakerja SHA 2011												
Mewujudkan satu database baru SHA 2011												

CHALLENGES

**MNHA 1997-2016
TIMES SERIES**

**SHA 2011
(NEW)**



- The implementation of SHA 2011 is not a one-step process
- Will involve refinement & revisions of data sources, classifications & estimations

CHALLENGES – ESTIMATION METHODS

FOR EACH INDIVIDUAL AGENCIES

Plan & Design

- Define parameters collection methods, analysis methods, presentation formats, etc. and **keep within time schedule**
- Engage Stakeholders

Data Collection

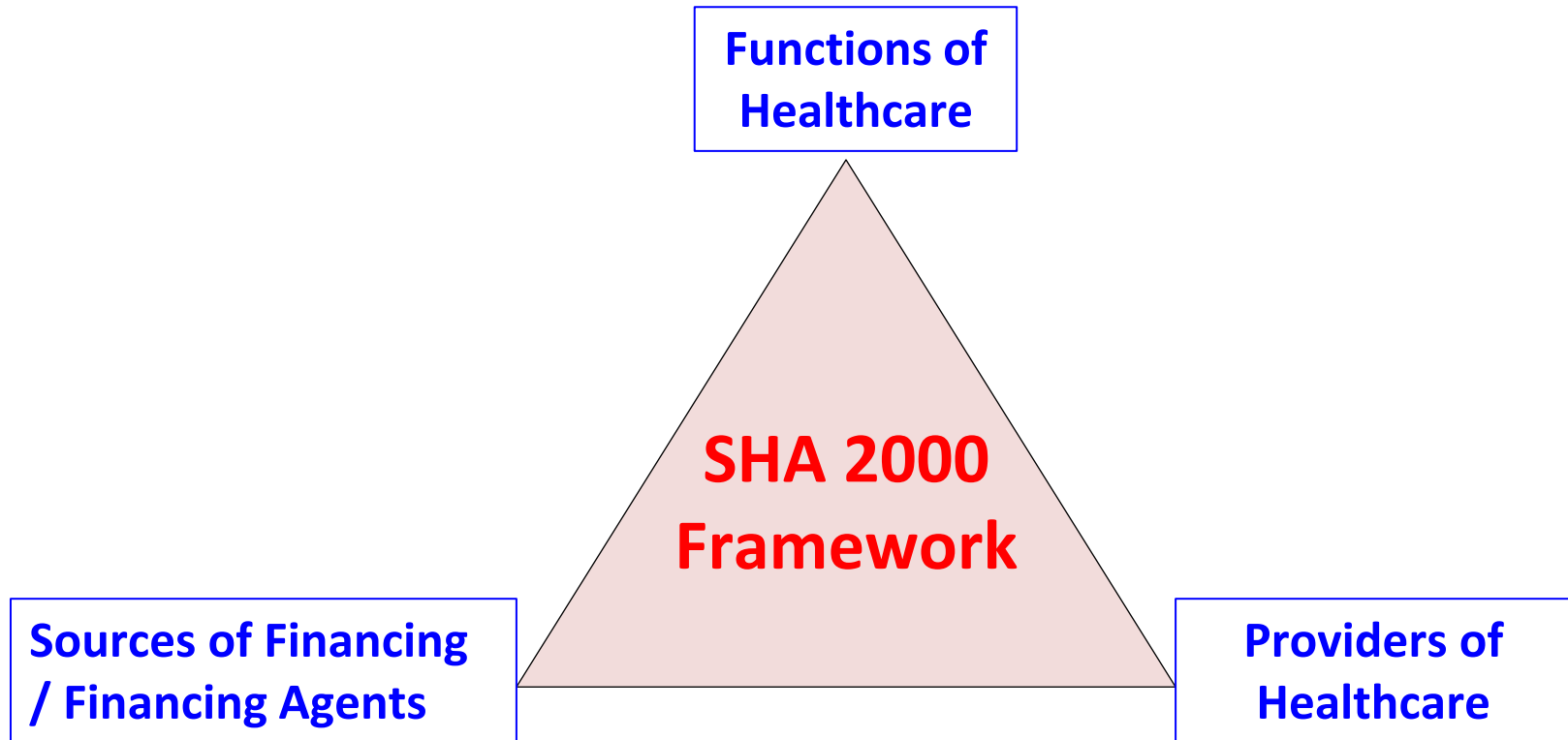
- Collect additional secondary data
 - *Retrieve from existing accounting system & other sources if available*
- Collect additional primary Data

Data Analysis

- Migrate to new SHA 2011 format for core dimensions. Recode as necessary
- Resolve any data gaps and conflicts
- Carry out analysis for new financing interface
- Create new SHA 2011 database

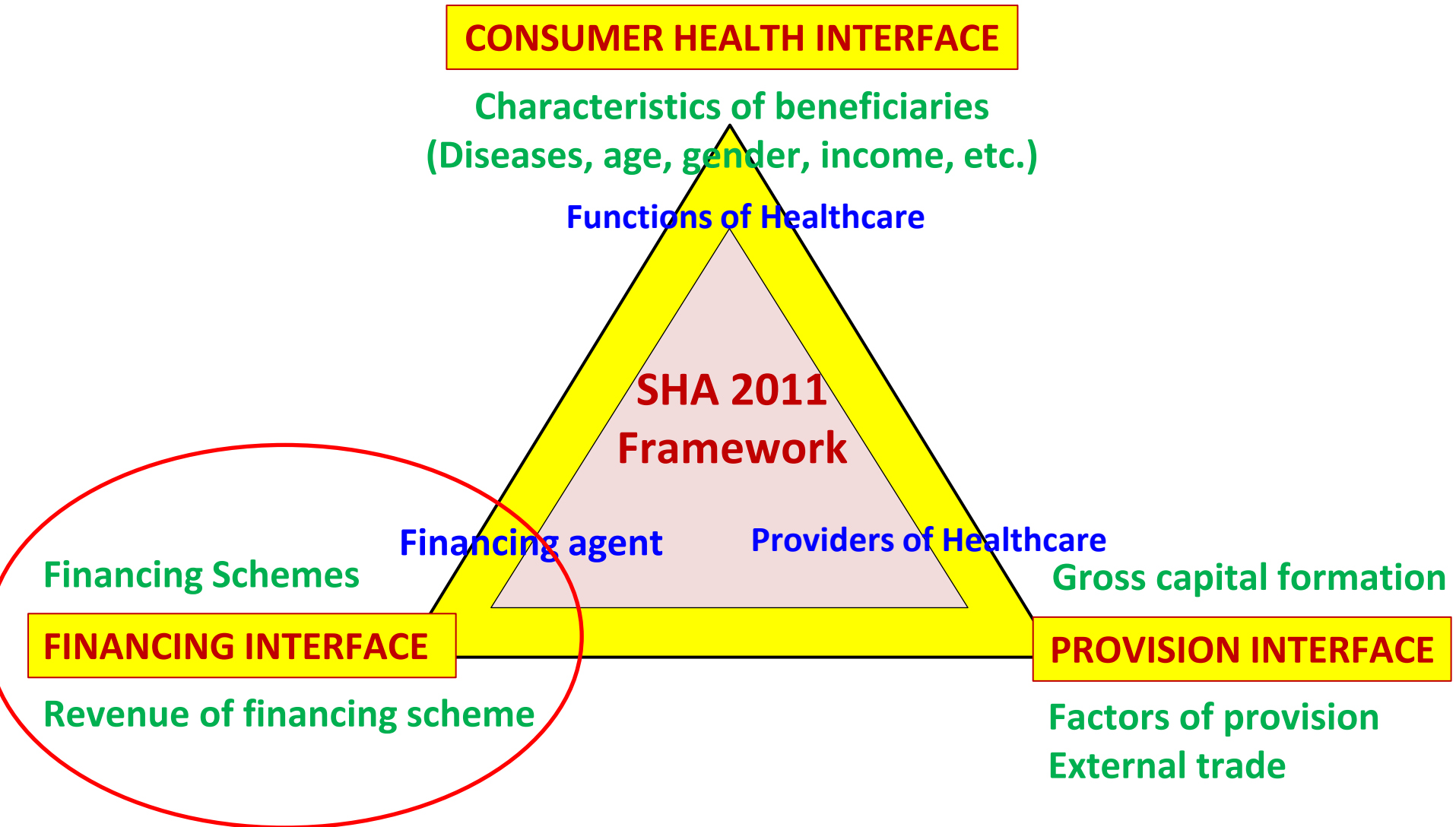
Address data gaps using standardized & acceptable methodology

SHA 1.0 TRI AXIAL FRAMEWORK



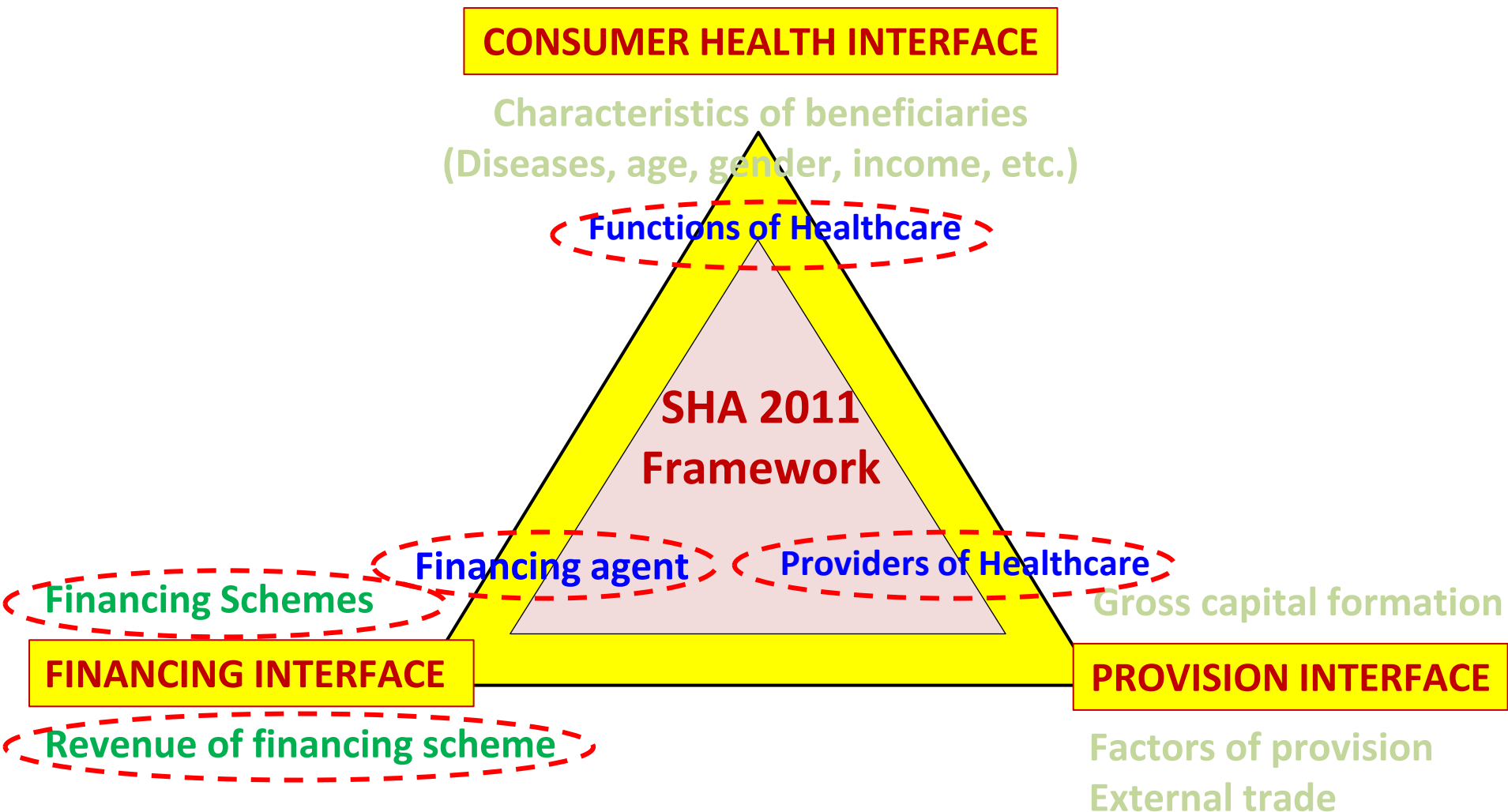
Source: IHAT for SHA 2011

TRANSITION PLAN



Source: IHAT for SHA 2011

TRANSITION PLAN



Source: IHAT for SHA 2011

SHA 2011 MIGRATION

MNHA TEAM 2017: THANK YOU



SLOWLY BUT SURELY WE WILL REACH OUR FINAL DESTINATION

MNHA Unit, Planning Division, MOH - 2017