



DEVELOPING EFFECTIVE HTA STRUCTURE

WITHIN HEALTHCARE SYSTEM

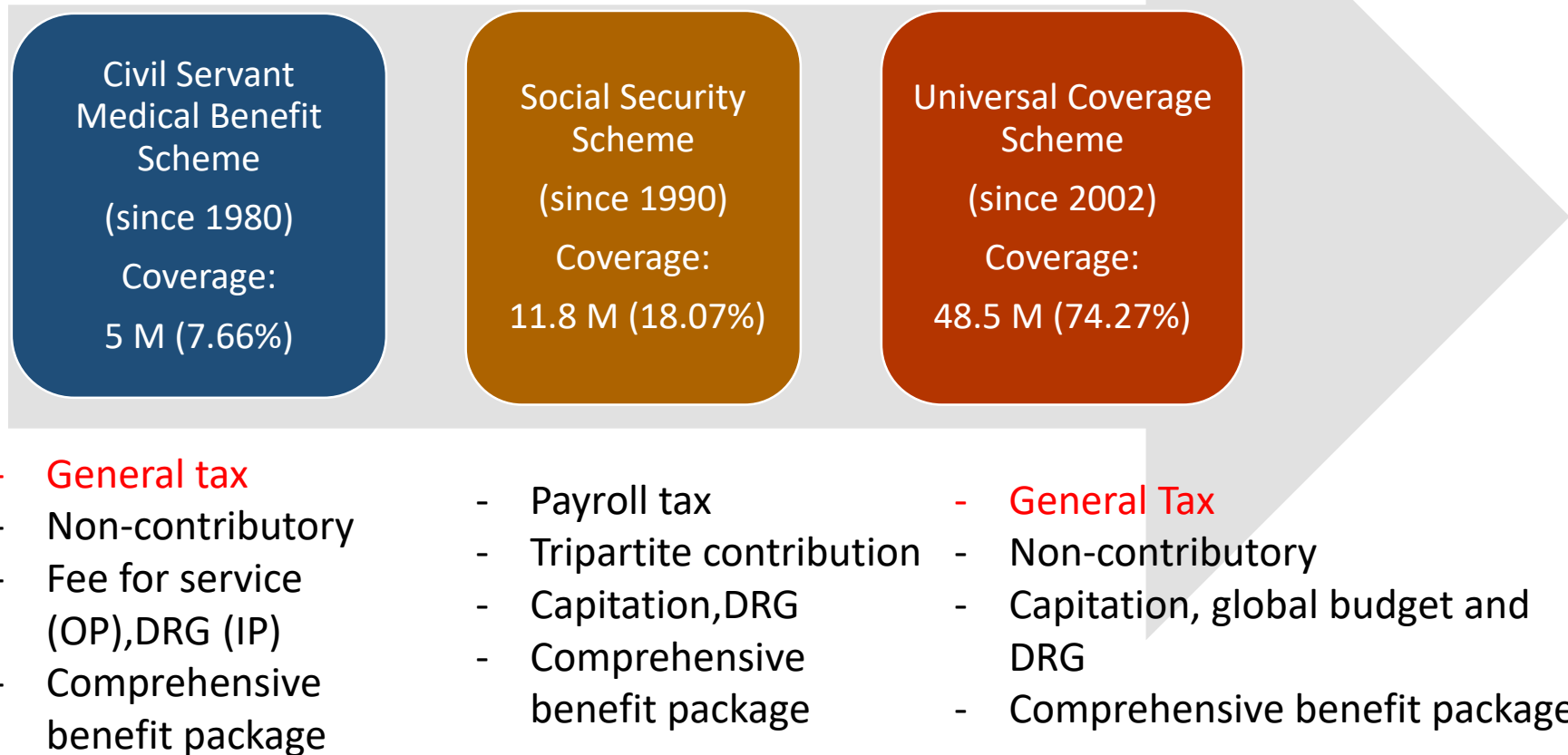
LESSON LEARNT FROM THAILAND

Netnapis Suchonwanich
Advisor of HITAP, Thailand
Former Deputy Secretary General of NHSO, Thailand

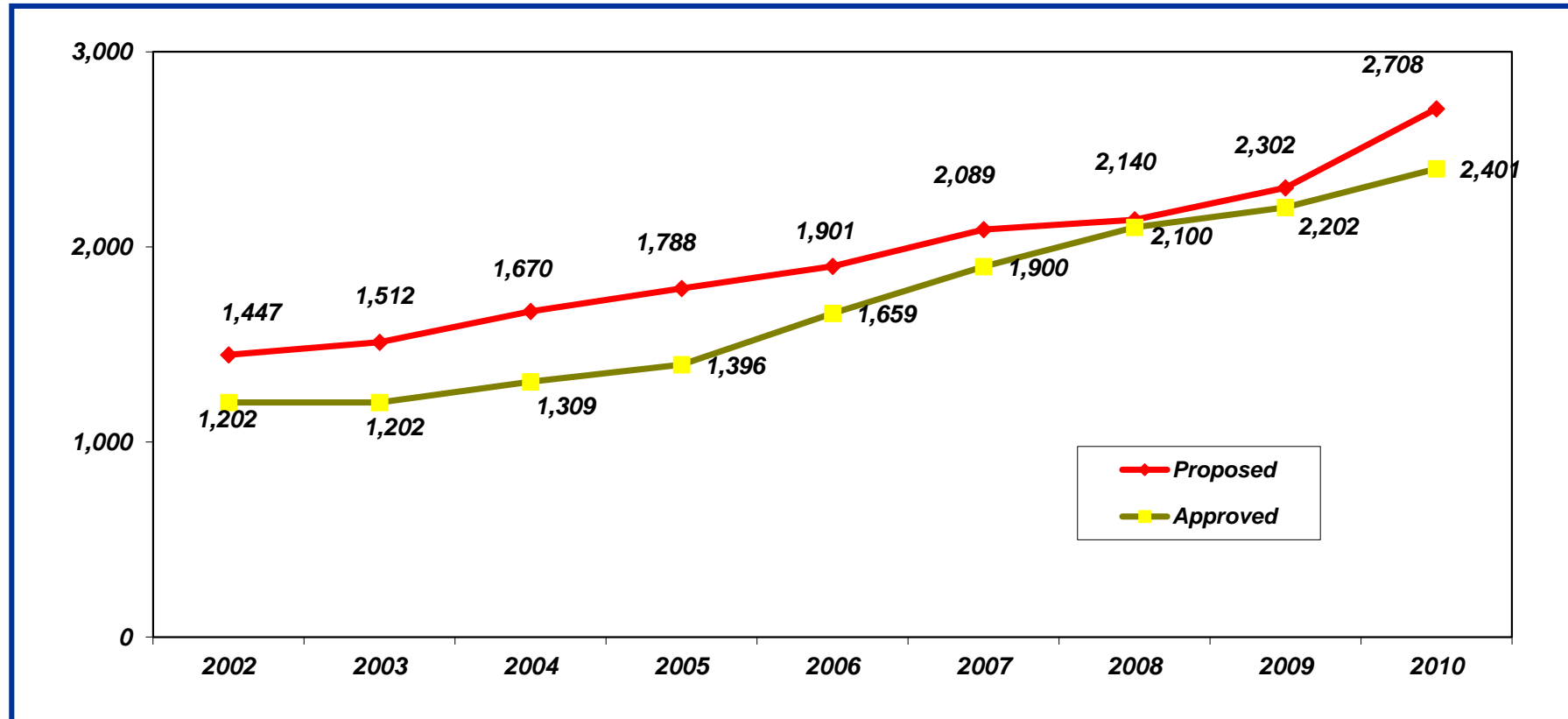


Health Insurance Schemes

- Gradual insurance coverage expansion given strong health care infrastructure

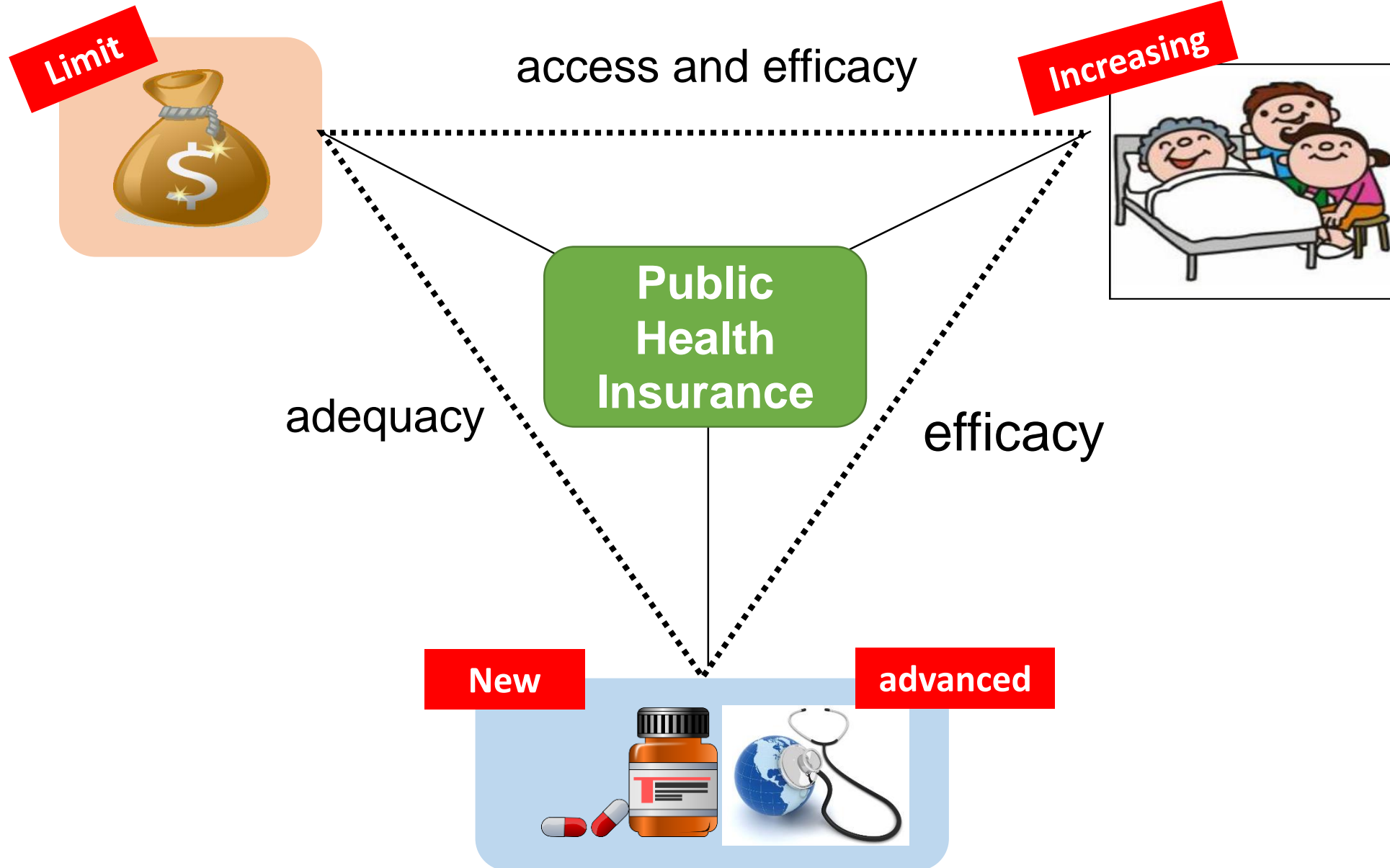


Proposed versus approved capitation rate for UCS Baht per capita nominal term 2002-2010



3109.78 Baht in 2017 equivalent to 94.23 USD for a basic package

The balanced perspectives



Policy makers need more evidences



Global



UHC

**new drug, advanced technology,
budget constraints**



country



Faster access

- new drug
- Advanced technology
- Expensive intervention

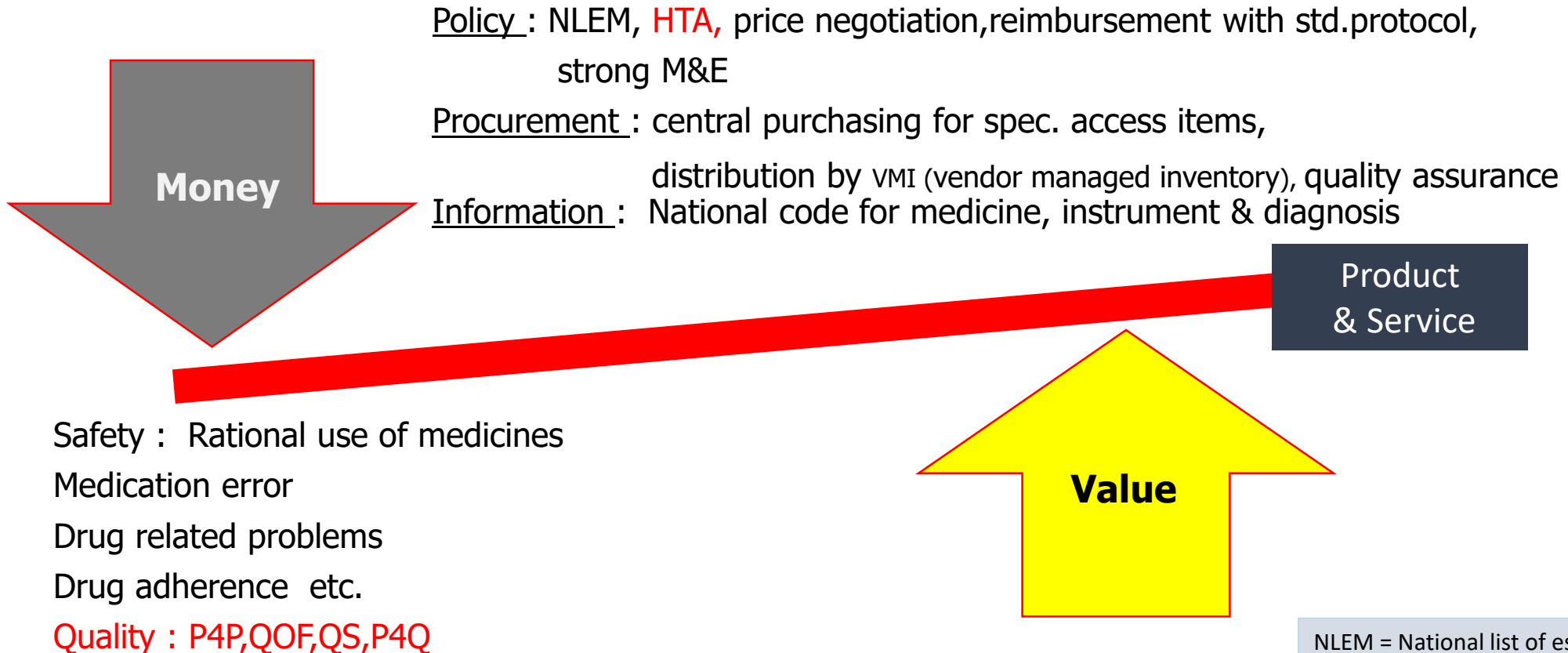
don't always get better outcomes



organization

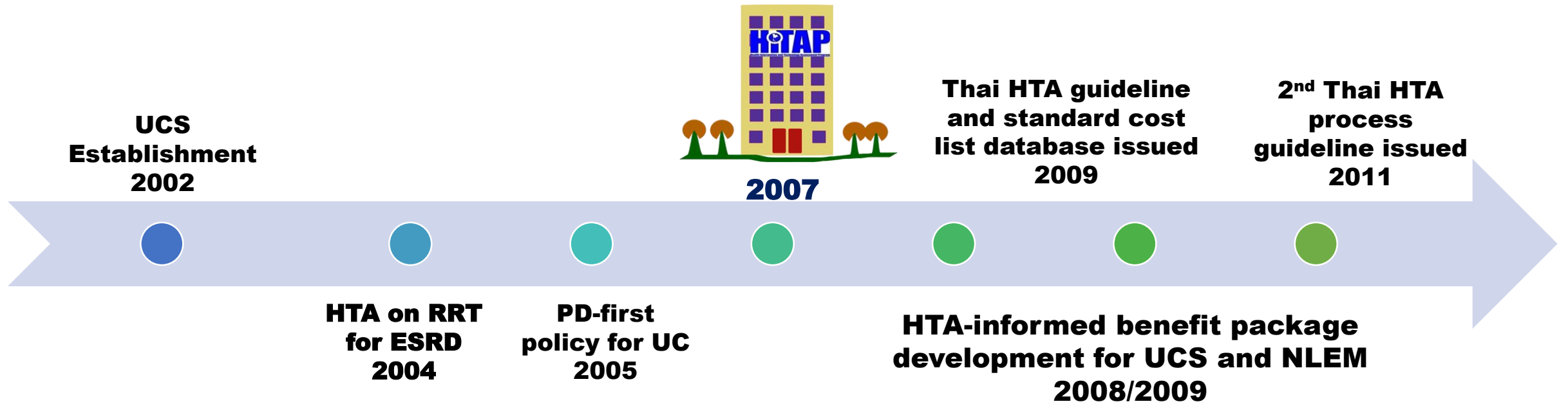


Strategies for increasing the value for money



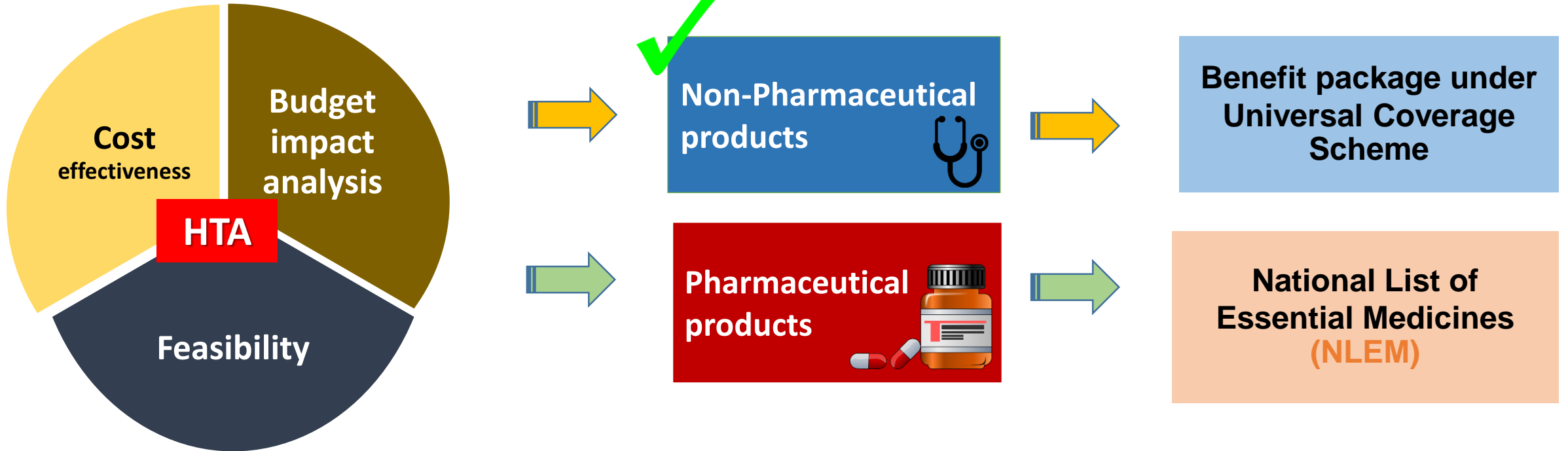
NLEM = National list of essential medicines
HTA = Health technology assessment
QOF = Quality outcome framework
QS = Quality Standard

**Semi-autonomous, non-profit
institute under the MoPH,
Thailand**



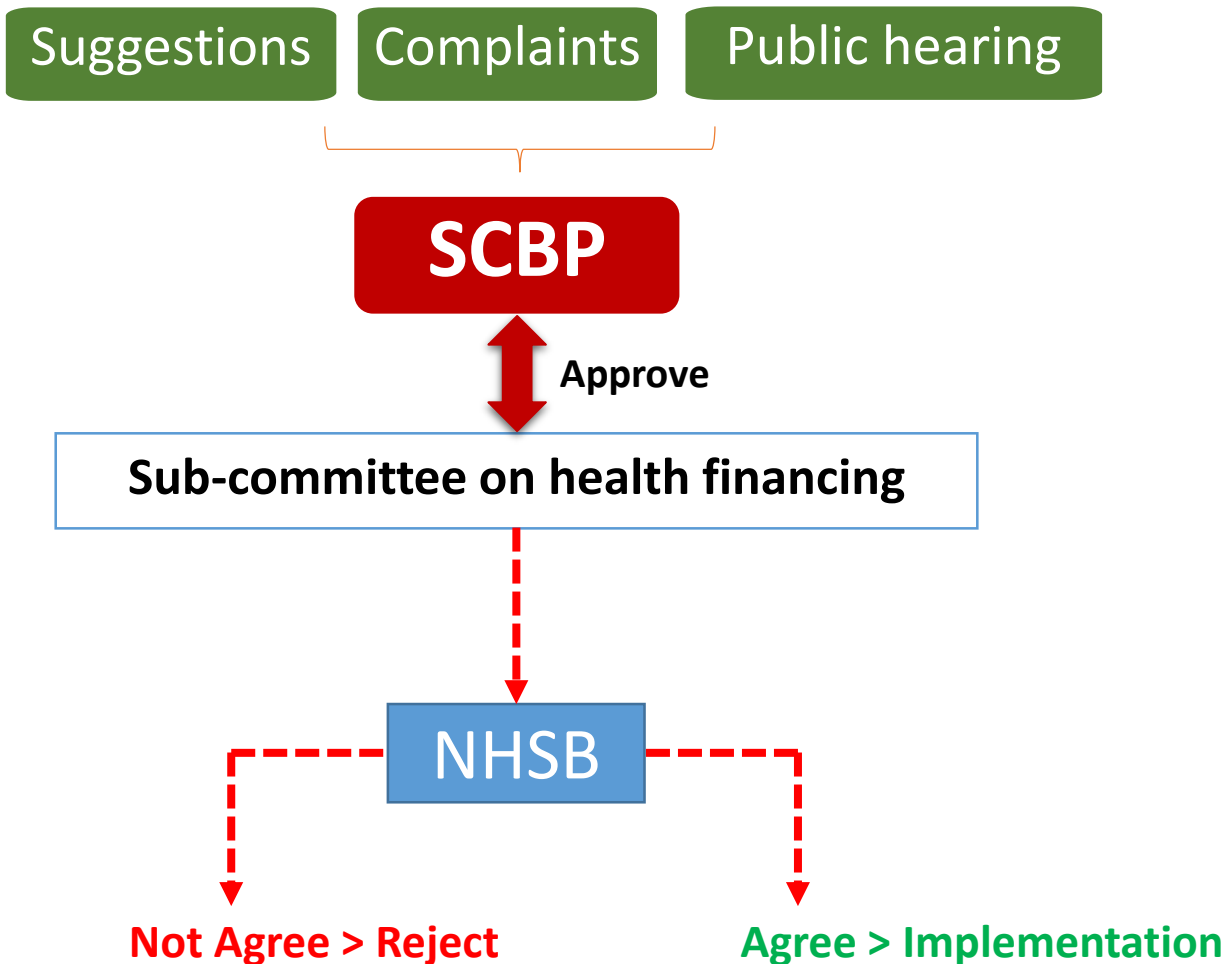
Role of HTA in Thailand

Using HTA in benefit package decisions in Thailand



HTA = Health Technology Assessment
NLEM = National list of essential medicines

Benefit Package of the Universal Coverage Scheme



Three major problems:

- I. There were a large number of issues proposed by various groups of stakeholders to the SCBP.
- II. The presentations made to the SCBP varied in the quality of evidences to support the proposals wherein some presentations were based on expert opinions or case studies.
- III. It was evident that there was a bias toward power groups who could lobby the Secretariat.

UCBP = The Development of the Universal Health Coverage Benefit Package Project

HITAP = Health Intervention and Technology assessment Program

IHPP = International Health Policy Program

SCBP = Sub-committee for the development of Benefits Package and Service Delivery

NHSB = National Health Security Board

Benefit Package of the Universal Coverage Scheme

Suggestions

Complaints

Public hearing

SCBP

Approve



“Technical body”

- Systematic
- Transparent
- Participatory
- Evidence-based



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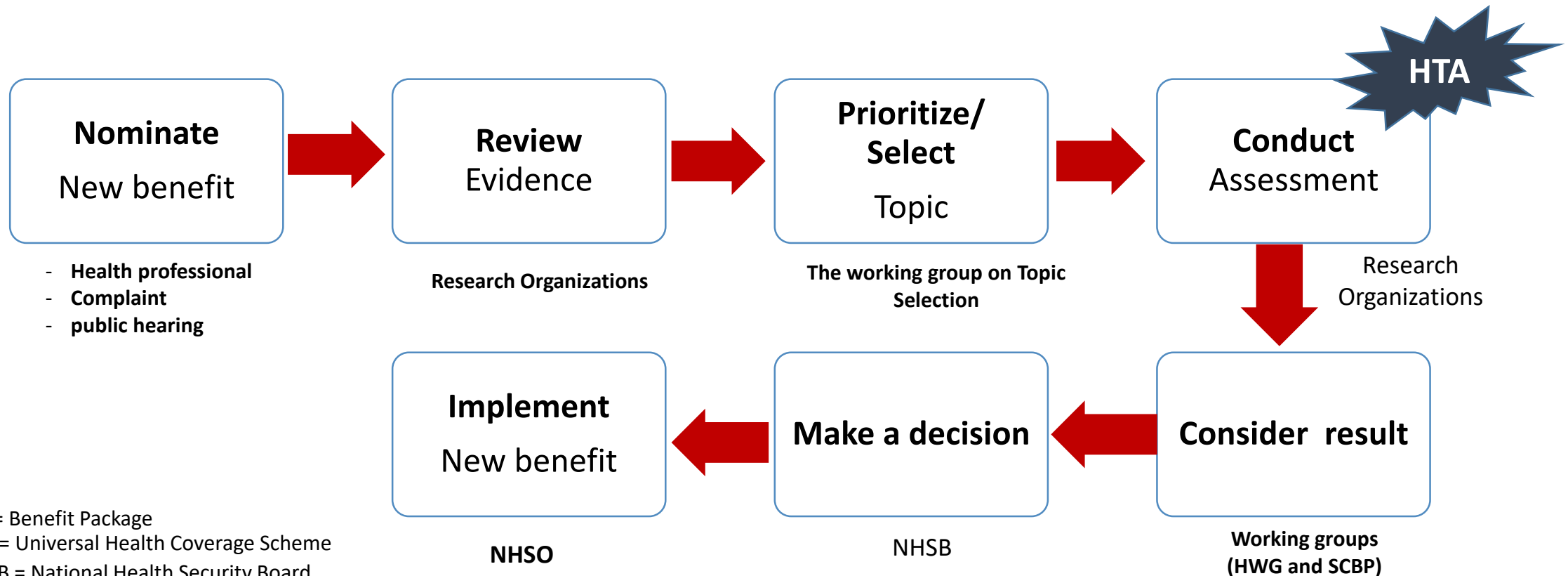
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Key Developments of Benefit Package under UCs



BP = Benefit Package
 UCs = Universal Health Coverage Scheme
 NHSB = National Health Security Board
 NHSO = National Health Security Office
 SCBP = Sub-committee for the development of Benefits Package and Service Delivery
 HWG = Health Economics Working Group

Why do we need “HTA process guideline”?



Thailand HTA process guidelines



Step 1

*Stakeholders' meeting on scope of the study



Step 4

*Stakeholders' meeting on the preliminary results of the study



Step 2

Researchers present proposal to the Health Economic Working Group



Step 5

Research quality inspection: internal and external reviewers



Step 3

Researchers conduct studies



Step 6

Researchers present the results to the Health Economic Working Group



Step 7

Writing up the study report that include executive summary and policy recommendation



*Stakeholders include medicine nominators, practitioners and all clinical experts in the field, and pharmaceutical representatives

Topic nomination meetings of civil groups and lay citizens

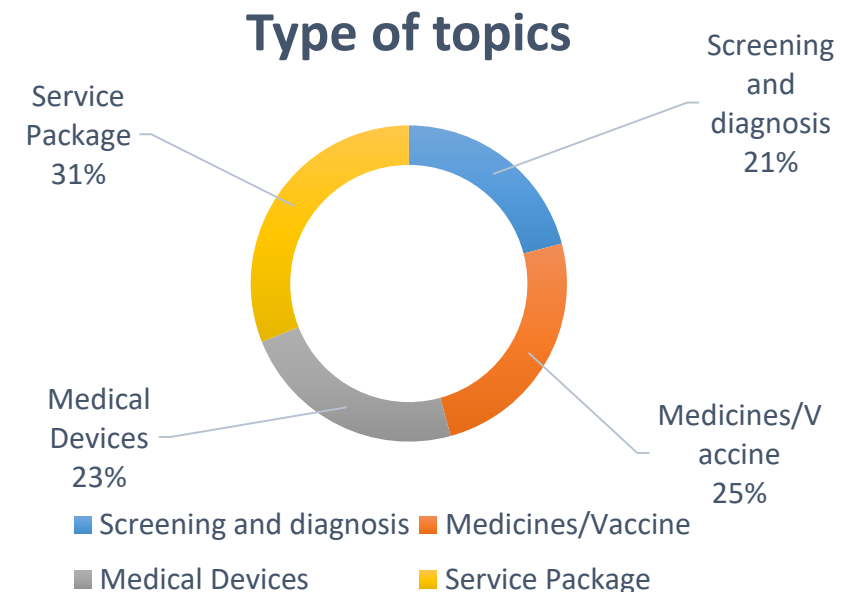
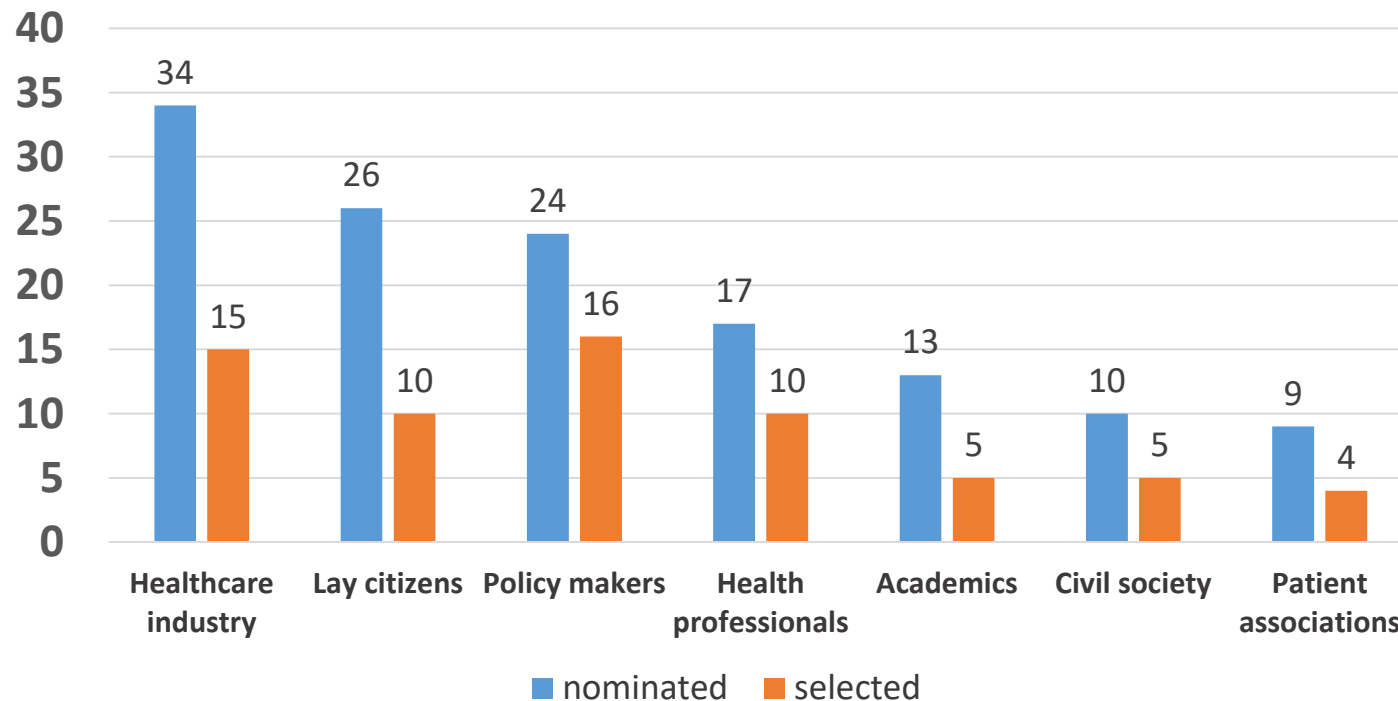


The Development of the Universal Health Coverage Benefit Package Project

Between 2010-2015

129 Nominated **63** Selected for assessment

The Number of Nominated and Selected Topics





UCBP process 2018

8 groups

- Policymakers - Civic group
- health professionals - Lay citizens
- Academics - patients
- Healthcare industry
- Other subcom /working group

BP nomination

Nominate the topics annually

3 working groups

- working groups on topic review & selection
- Benefit package subcom.
- Health Economic working group

Topic selection

Review evidence based on the topic selection criteria

Prioritize the topics by the working groups for an assessment based on consensus

Present a list of prioritized topics to HTA WG



Need or impact for BP review

- New benefit
- Existing benefit with
 - ineffective coverage
 - Implementation research

Assessment

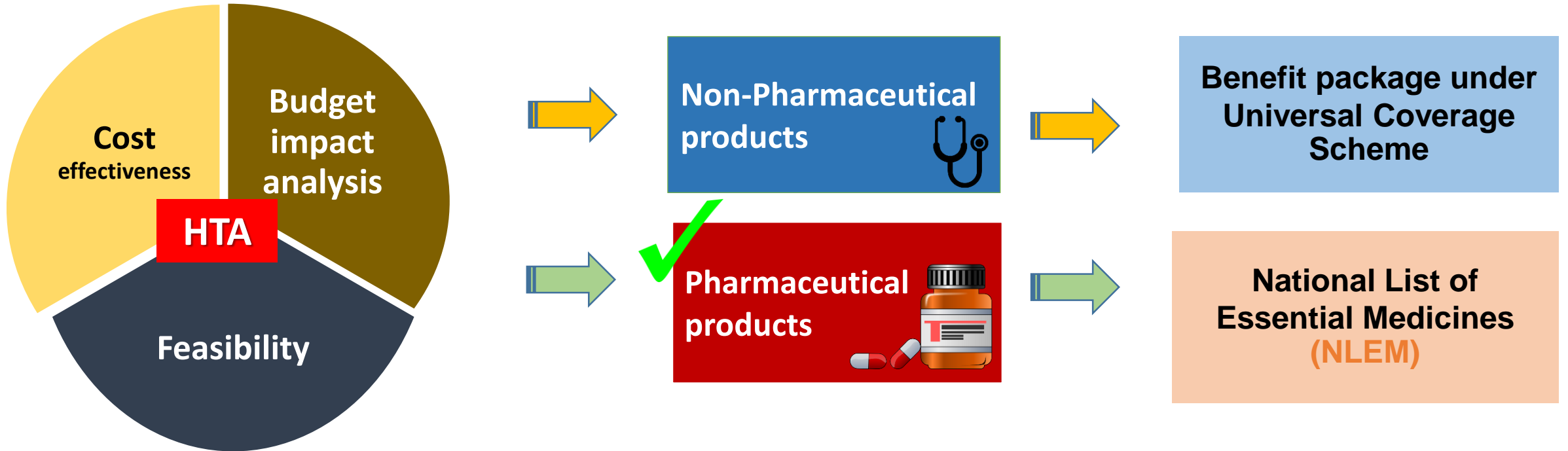
Conduct an assessment by HTA institutes & submit to HTA WG

- Health outcome
- Budget impact
- Feasibility
- Economic evaluation
- Social /Ethical impact

Decision

Make a decision by Sub-committee for the development of Benefits Package and Service Delivery

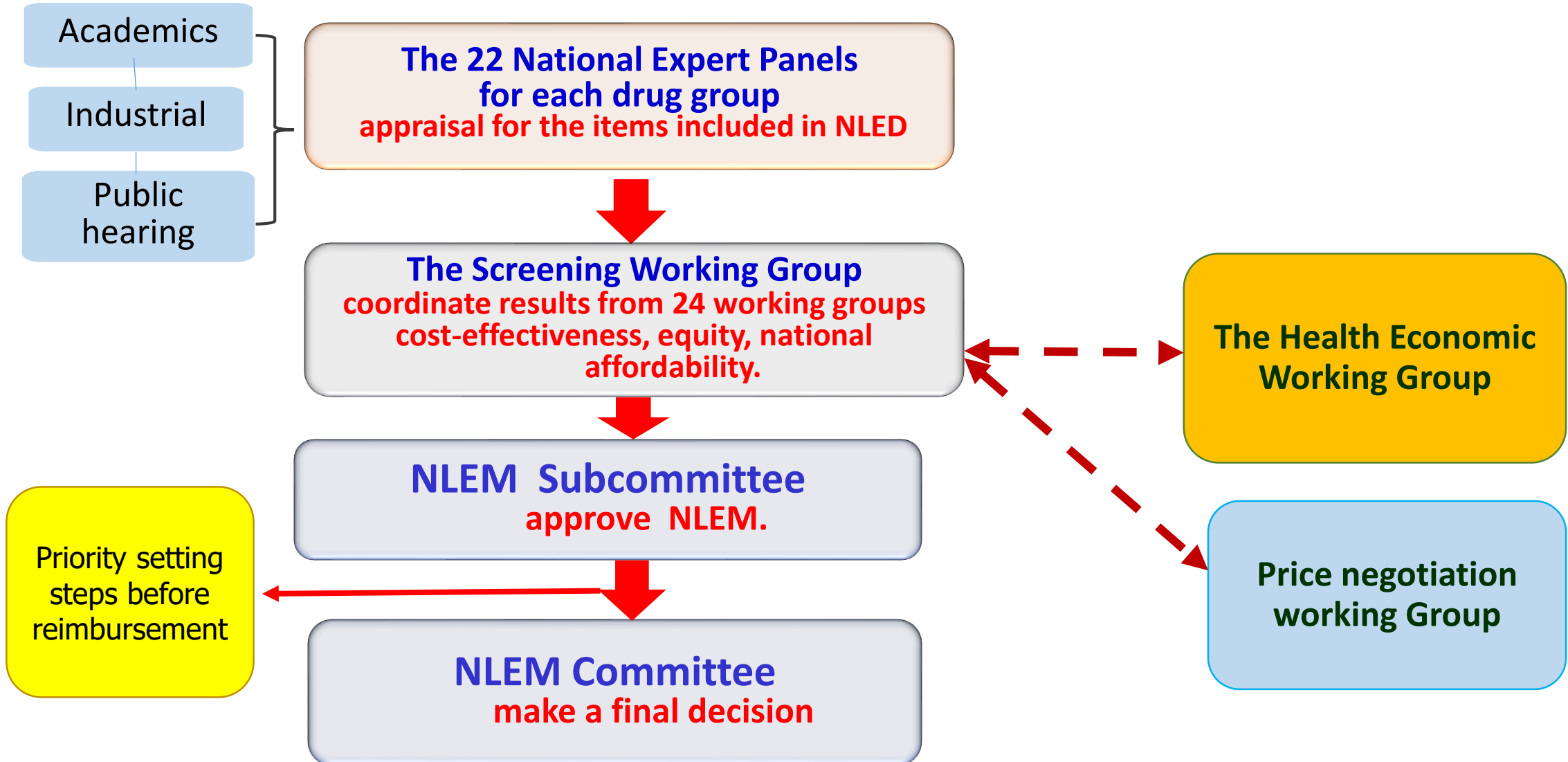
Using HTA in benefit package decisions in Thailand



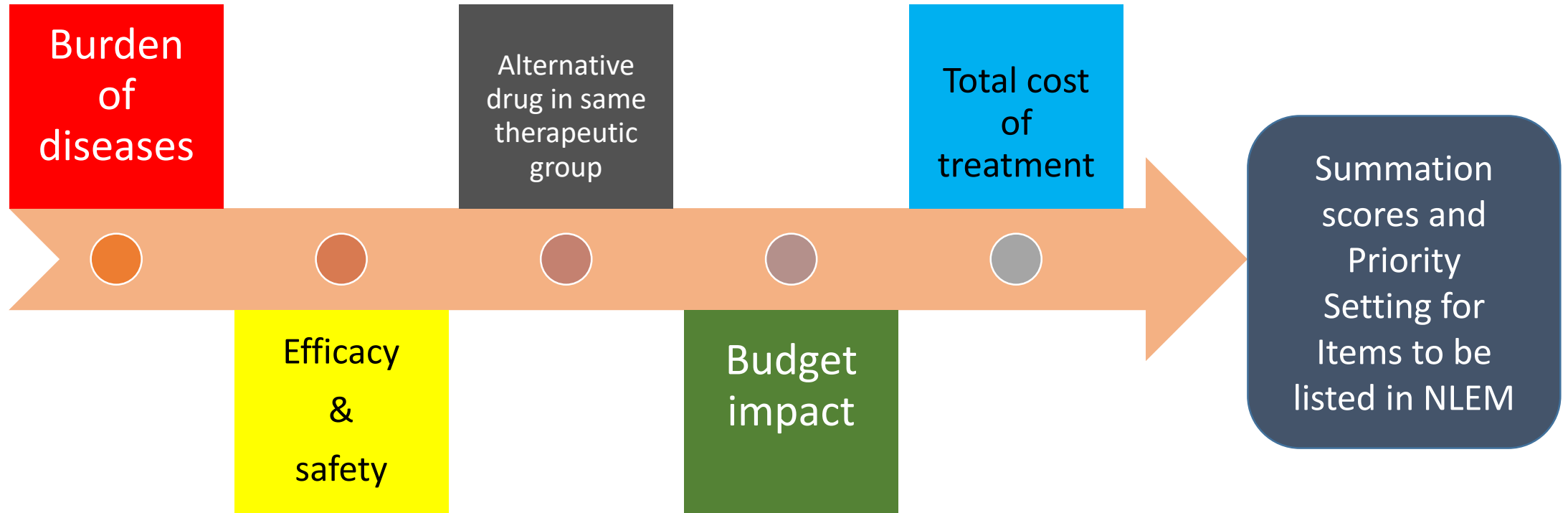
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Selection Process of Thai National List of Essential Medicines (NLEM)



Priority setting step before final approval

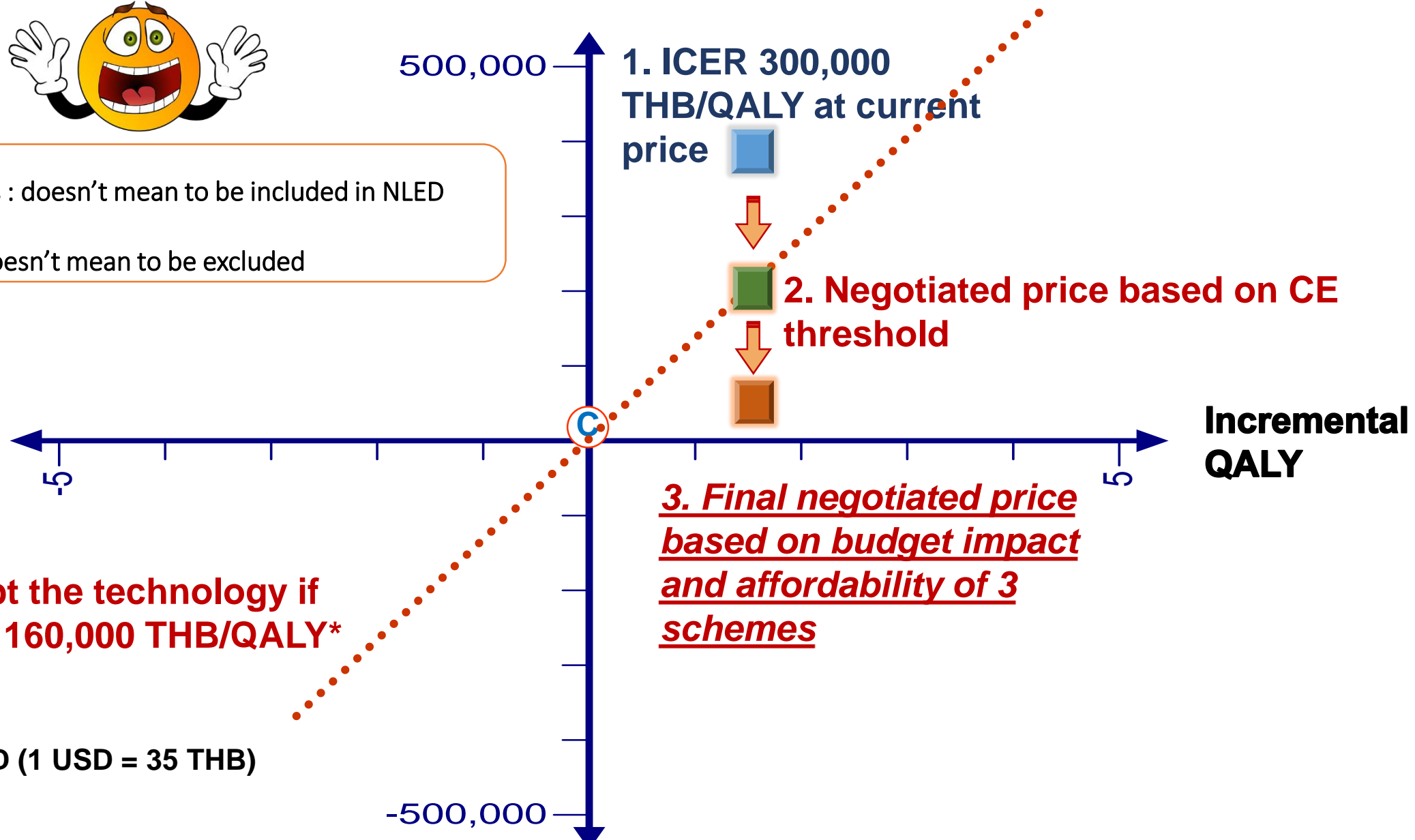


Cost-Effectiveness threshold and price negotiation



- If success : doesn't mean to be included in NLED
- If not : doesn't mean to be excluded

Incremental Cost (THB)



*5,000 USD (1 USD = 35 THB)

What HTA provided for UCS development

- Evidence of cost effectiveness
- Value for money
 - **Incremental cost-effectiveness ratio (ICER)**
 - **Cost-effectiveness threshold = 160,000 THB/QALY (5,000 USD)**
- Budget impact compared current practice and new intervention
- Feasibility study
- **Simulation the threshold affordable prices for price negotiation**
- **Equity considerations**

Using economic evaluation to inform NLEM development during 2007-2010

Cost-effectiveness study	Finding	Recommendation
★ HMG-CoA reductase inhibitors	Atorvastatin not cost-effective	Not included atorvastatin in the list
★ Osteoporosis drugs	not cost-effective	Not included in the list
Acetylcholinesterase inhibitors	not cost-effective	Not included in the list
★ Peginterferon alfa-2a, 2b	cost-effective	Included in the list
★ Tenofovir	cost-effective	Included in the list
★ Oxaliplatin	not cost-effective	Price negotiation and included in the list

Basic of decision making for policy maker

- Subsidy considered on the basis of Cost effectiveness, incremental cost effectiveness ratio (ICER)
 - *Cost effectiveness is a key, but not sole criterion for listing*
- Catastrophic prevention
- Medium to long term budget impact assessment
- Ethical consideration
- Supply side capacity to scale up new interventions
- Equity consideration
- Monitoring and evaluation
 - Accessibility, Efficiency, Quality and Effectiveness in Healthcare

Appraisal results and decision making

Table 4 – The relationship between assessment and appraisal results.

Policy recommendation	Assessment results*			
	Cost-effective (ICER ≤1 per-capita GDP/QALY)		Not cost-effective (ICER >1 per-capita GDP/QALY)	
	Low budget impact†	High budget impact†	Low budget impact	High budget impact
Recommended	<ul style="list-style-type: none"> • Lamivudine for treatment of people with chronic hepatitis B • Intravenous cyclophosphamide + azathioprine for treating severe lupus nephritis • Smoking cessation program 	—	—	—
Not recommended	<ul style="list-style-type: none"> • Implant dentures for people who have problem with conventional complete dentures 	<ul style="list-style-type: none"> • Pegylate interferon alpha 2a + ribavirin for treating hepatitis C • Absorbent products for urinary and fecal incontinence among disabled and elderly people 	—	<ul style="list-style-type: none"> • Anti-immunoglobulin E for severe asthma

- Imiglucerase for Gaucher type 1
- PD-first policy for ESRD

ICER, incremental cost-effectiveness ratio; GDP, gross domestic product; QALY, quality-adjusted life-year; THB, Thai baht.

* Two cost analysis studies, that is, screening for risk factors for leukemia in people living in the industrial areas, and system for screening, treatment, and rehabilitation of alcoholism, are not included in this table.

† High budget impact >THB 200 million per annum; low budget impact ≤THB 200 million per year.

Before using IRP, Thailand must first use HTA to determine the value and prioritize each new product

Level of coverage	High (≥80%)	7	4	1
	Medium (≥ 40%, <80%)	8	5	2
	Low (<40%)	9	6	3
		Slow (>3 years post-launch)	Delayed (1-3 years post-launch)	Fast (within 1 year of launch)
		Time to reimbursement		

- 1 Product of **high clinical/economic value to the whole population**; e.g., vaccines
- 2 Product of **high clinical value to a large sub-population**; e.g. HIV anti-virals
- 3 Product of **high clinical value to a small population**; e.g., post chemo oncologics
- 4 Product of **value to whole population, but not an imminent priority**; e.g. anti-bacterials where alternatives exist
- 5 Product of **value to a large sub-population**, but not an imminent priority; e.g. novel anti-diabetics,
- 6 Product of **value to a small population**, but not an imminent priority; e.g. anti-TNFs after DMARD failure
- 7 Product useful to whole population, however **several low-cost alternatives exist**; e.g., statins with generics
- 8 Product useful to **large sub-population**, and **several low-cost alternatives exist** e.g., cvd drugs
- 9 Product useful to **small sub-population**, and **several low-cost alternatives exist**