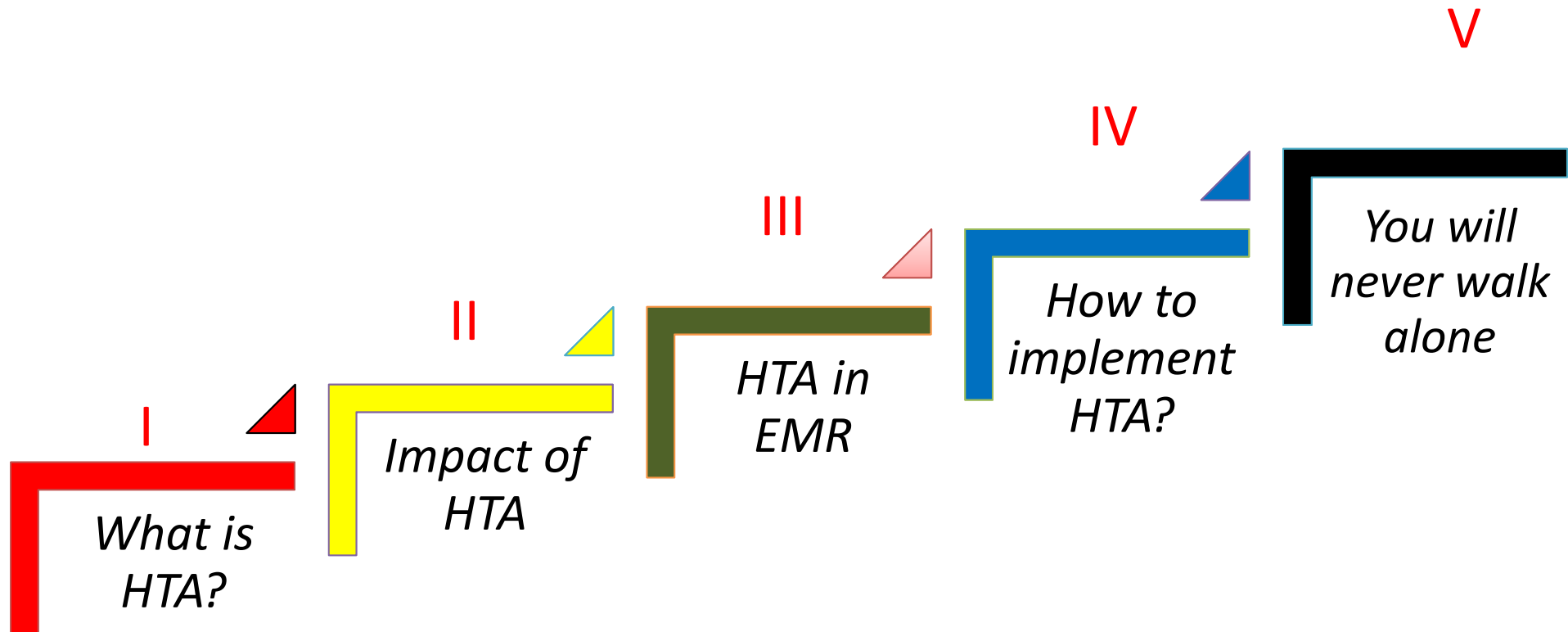


Health Technology Assessment (HTA): *A Tool for Evidence-Informed Decision Making in health*

Technical Meetings – Session 1
**62nd Session of the WHO Regional Committee
for the Eastern Mediterranean**
5-8 OCTOBER 2015, Kuwait



Presentation Outline



PART I: What is HTA?



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I. What is HTA?

What is a Health Technology (HT)?

- WHO experts define HT as;
“ The application of organized knowledge and skills in the form of devices, medicines, vaccines, procedures and systems developed to solve a health problem and improve quality of lives”.
- This definition also encompasses traditional medicine, health promotion & prevention activities and information systems.

I. What is HTA?

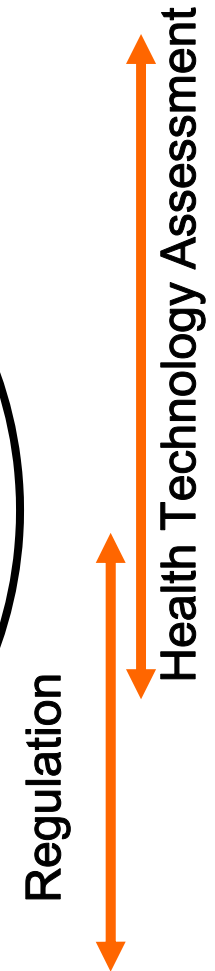
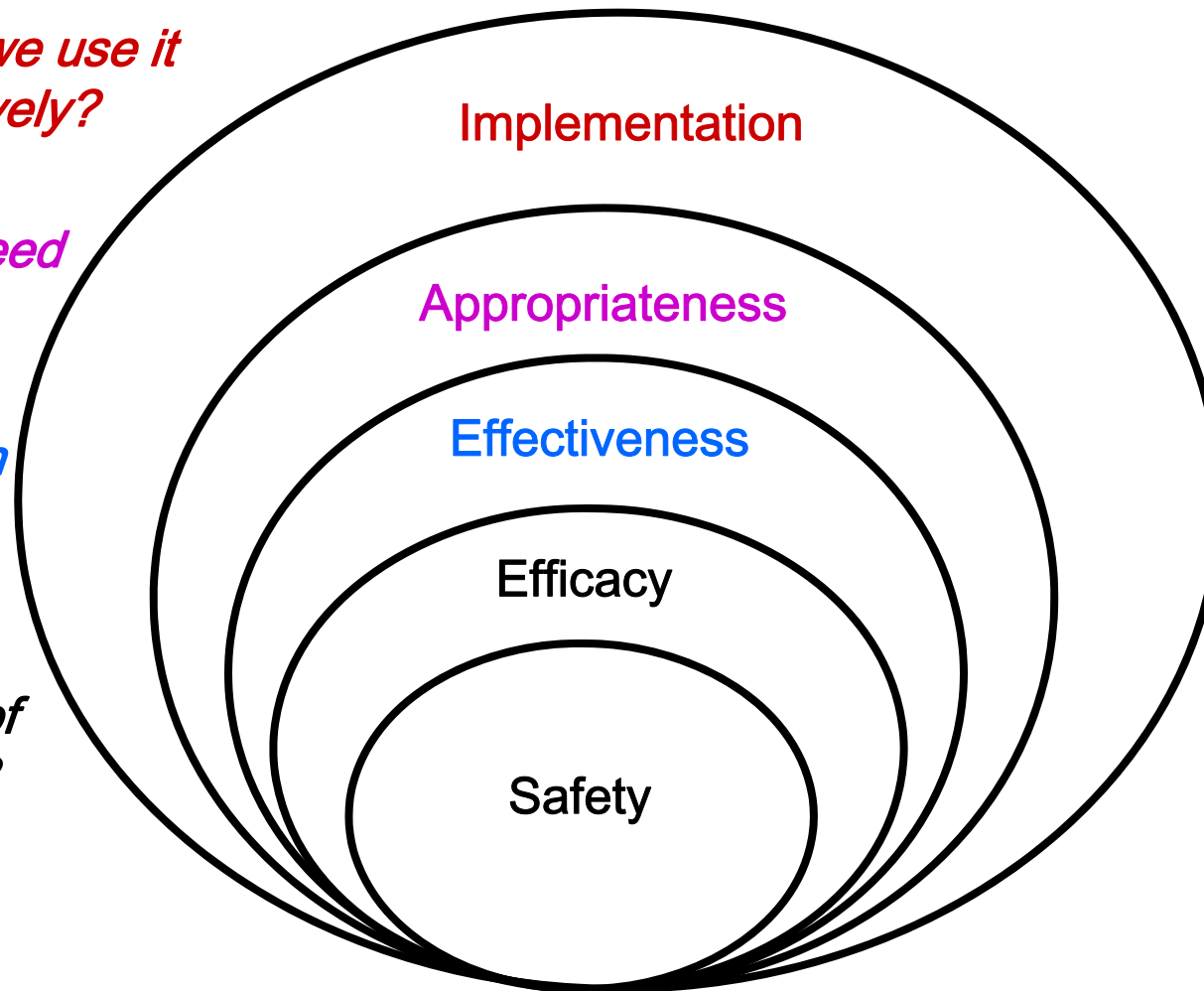
HTA is..

- A **multi-disciplinary activity** that examines the direct/indirect effect of HT on:
 - Available Resources
 - Cost & Cost-effectiveness
 - Technical Aspects (ex. safety & efficacy)
 - Other Aspects (ex. legal & ethical issues)
- HTA **goal** is to
 - Provide input to **decision-makers**
 - Ensure **value for money**

HTA Reasoning

I. What is HTA?

- How can we use it effectively?*
- Do we really need it?*
- Can it work in my country?*
- Is it safe and of good quality?*



I. What is HTA?

HTA Multidisciplinary Team

- It is composed of **different backgrounds** (*clinicians, public health specialists, pharmacists, clinical engineers, epidemiologists, statisticians, etc.*).
- Roles and responsibilities includes:
 - Active **engagement** of all key **stakeholders** groups.
 - **Revision of evidence** related to selected technologies.
 - **Conduction of assessment studies and surveys** (if needed).
 - **Consultations** with external **experts** (if needed)
 - **Communication of findings** to decision makers
 - **Production of different types of reports** (from **mini** and quick reports to **broad** and extensive ones)

PART II: What is the impact of HTA



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HTA for UHC:

The Benefit Package Development in Thailand

II. Impact of HTA

Health Interventions	Cost/QALY (\$/Yr)	Covered ?
....	...	Yes
Oxaliplatin (FOLFOX) for treatment of advance colorectal cancer	3,500	Yes
Galantamine for treatment of mild-to-moderate Alzheimer's disease	4,400	No
Imiglucerase for treatment of Gaucher disease type 1	17,500	Yes
Recombinant human Erythropoietin (rHuEPO) treatment in chemotherapy-induced anemia	19,800	No

← Coverage Threshold

HTA and Price Negotiations: *The Thai Experience*

II. Impact of HTA

In Thailand:

HTA uses <0.01% of health budget, and results in >\$100 million/year savings from price negotiations alone.

Medicine	Original price (THB)	Reduced price (THB)	Potential saving (THB per year)
Oxaliplatin (injection 50 mg/25 ml)	8,000	2,500	152 million

HTA and Investment Decisions: *The Iranian Experience*

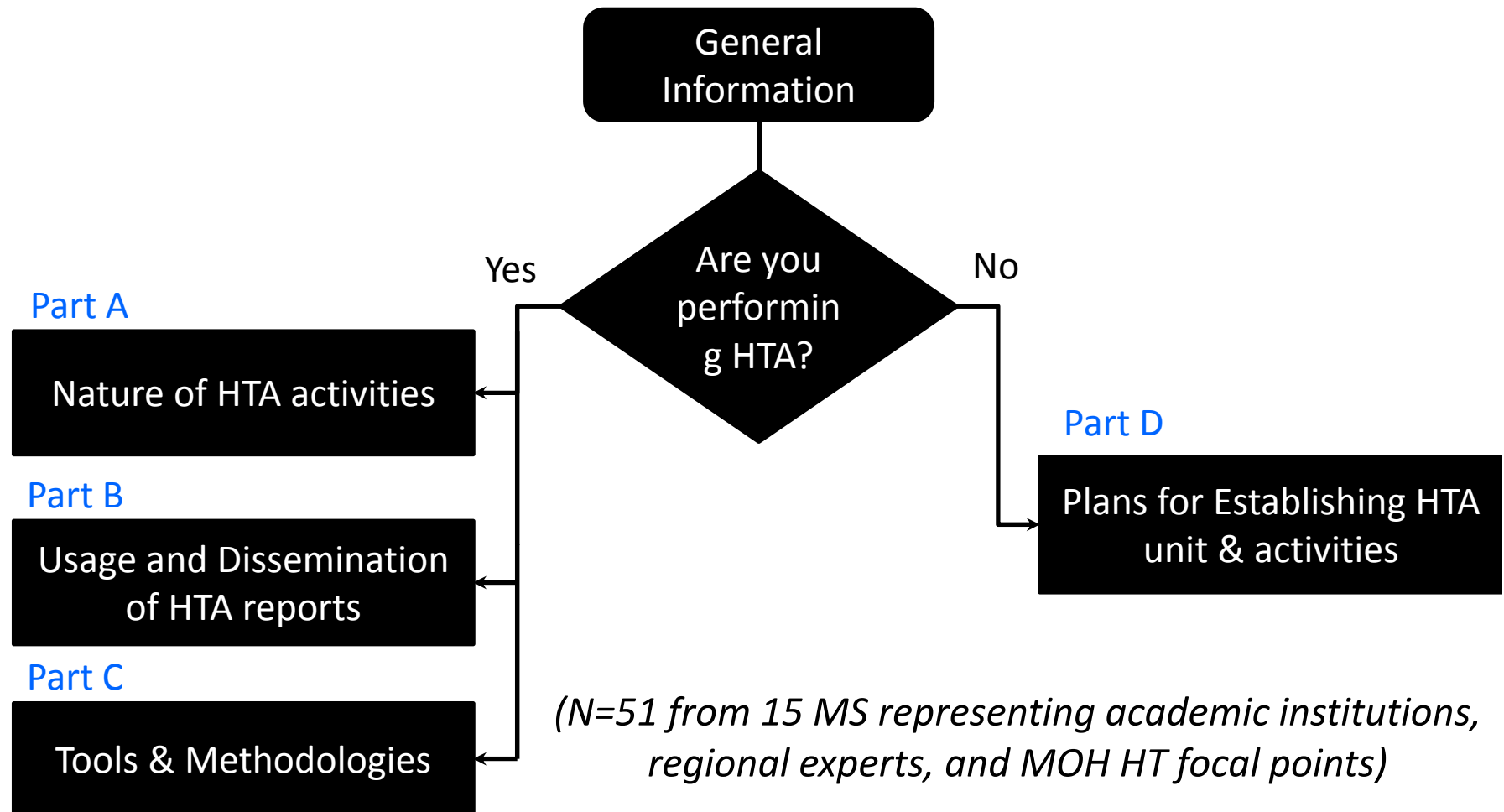
- Devices
 - Positron Emission Tomography (PET) Scanners
 - 3-Tesla Magnetic Resonance Imaging (MRI)
 - CT Scan 64 slice (single and dual)
 - Femto-second laser
- Procedures
 - Immune Tolerance Induction method for treatment of Hemophilia in children
- Drugs
 - Exemestane for treating breast cancer
 - Pregabalin for neuropathic pain management

PART III: Situation of HTA in EMR



Mapping HTA in EMR (2014): *Survey Structure*

III. HTA in EMR



Mapping of EMR HTA (2014): *Survey Results*

III. HTA in EMR

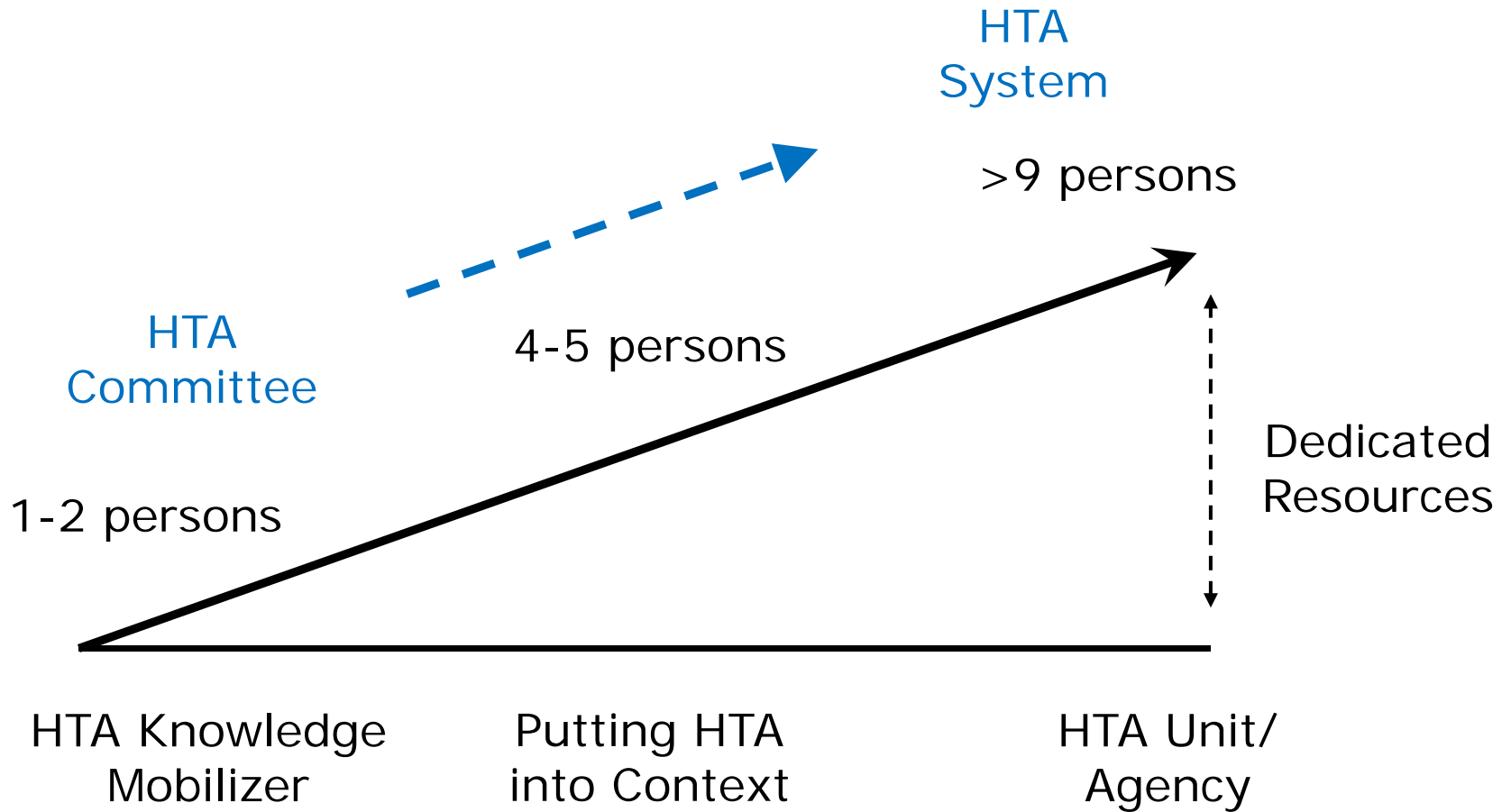
- *52% perform HTA or HTA-like activities*
 - Most activities were related to **clinical effectiveness** and **economic evaluations** (67% and 62% respectively);
 - Performed on **devices** and **medicines** (79% and 68% respectively).
 - HTA reports were on **healthcare costs** and **selection of appropriate technologies** (60% and 50% respectively)
- *Remaining 48% (not performing HTA-like activities)*
 - Over 50% do not know if there are future plans to develop HTA programmes in their national entities.
 - Almost 75% indicated that using HTA in the decision-making process will be their biggest obstacle.

PART IV: How to implement HTA?

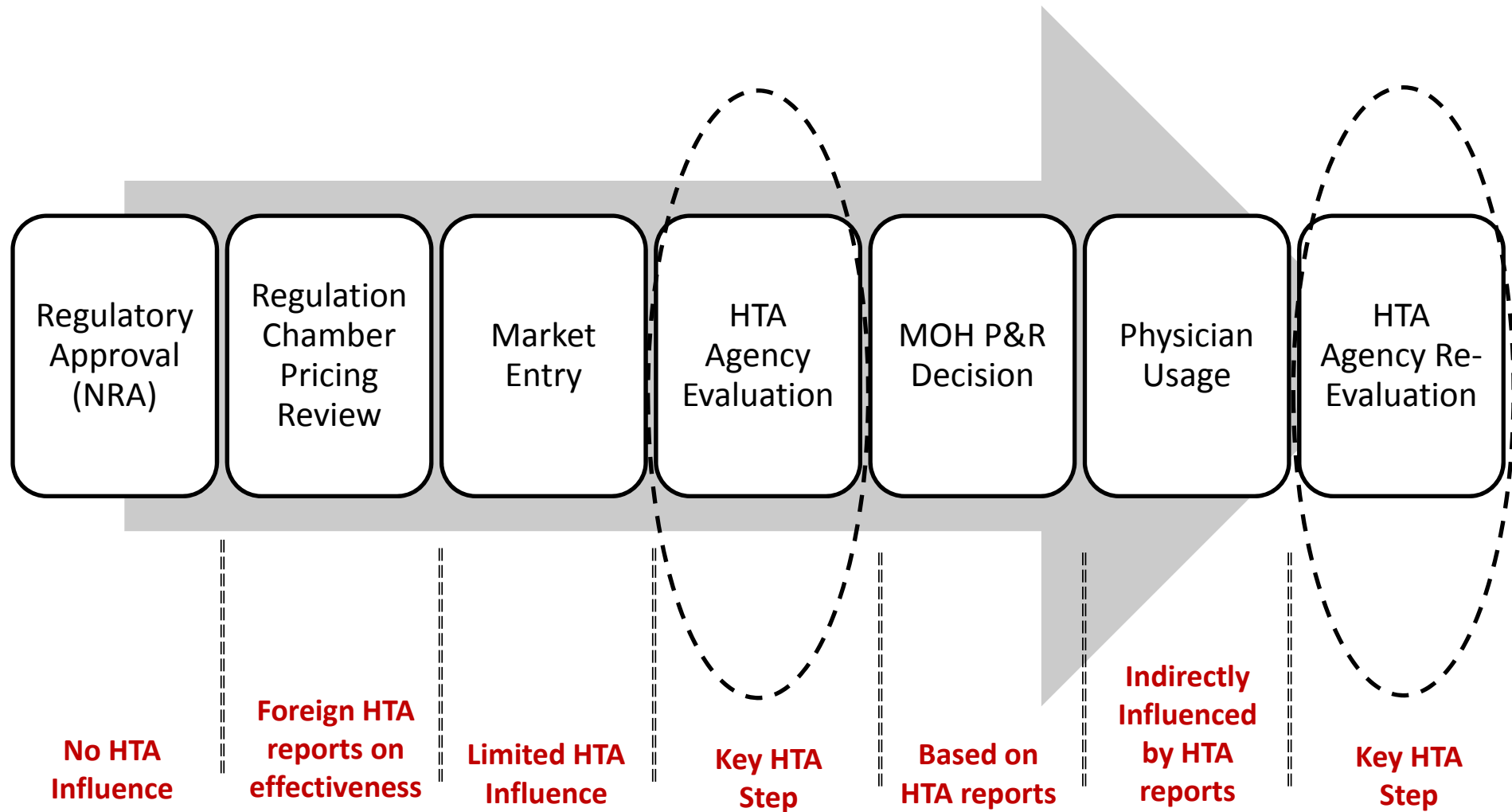


IV. Implementing HTA

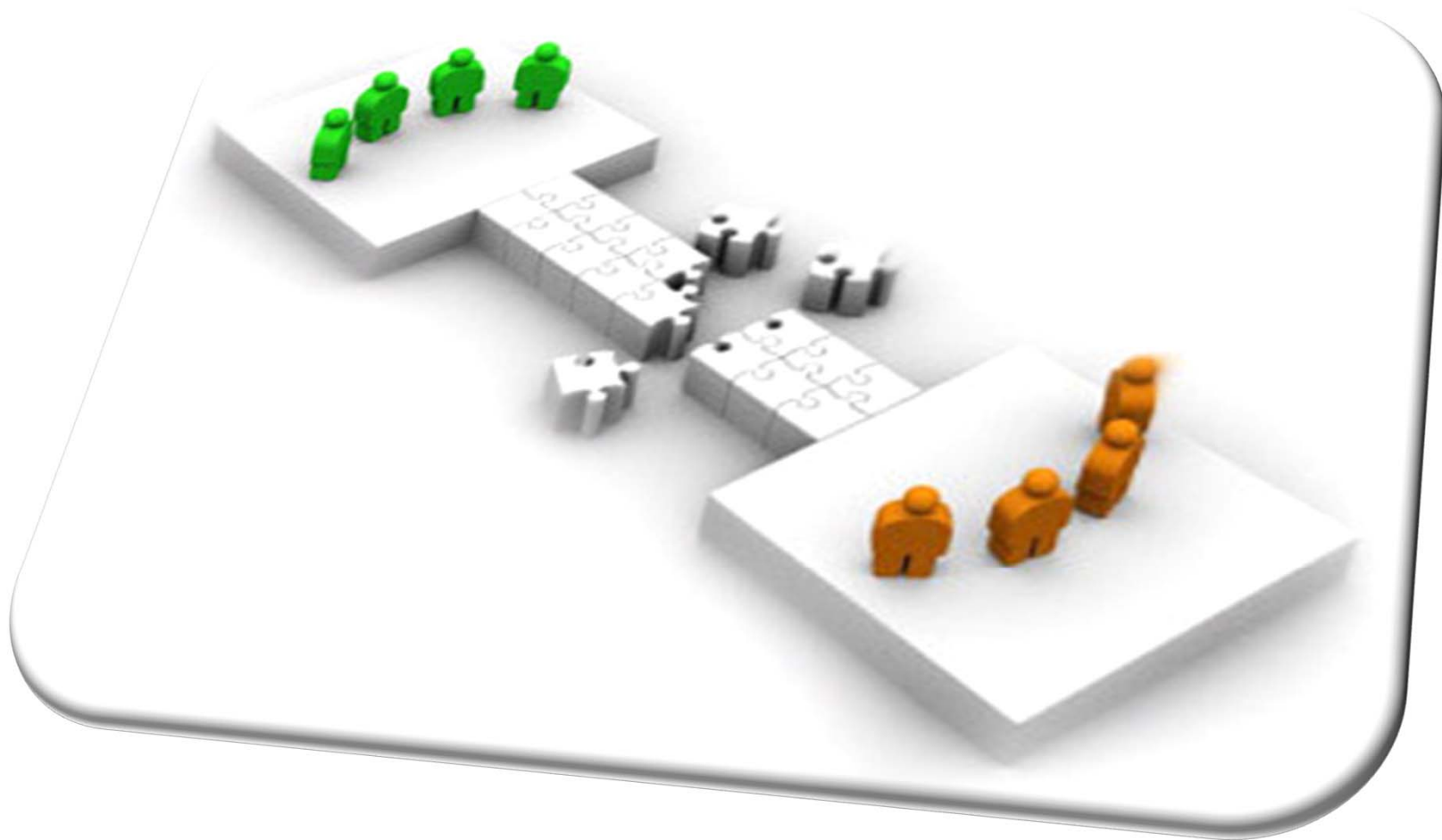
Start Small..



Where should HTA be at national level?



PART V: You will never walk alone



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Is HTA for Developed Countries ONLY?

- *In contrast to what most officials think;* the less the resources, the more the need for HTA to
 - Make rational decisions on investments
 - Prioritize needs on the basis of evidence
 - Estimate cost vs. efficacy/effectiveness ratios of new and emerging technologies

WHO and HTA

- In 2012, **RC resolution** requested WHO to support MS in building national capacities to perform HTA
- **1st IC Meeting** in Tunisia in November 2013
 - **Roadmap** for developing HTA at national level
- In 2014, **WHA resolution 67.23** called upon MS to develop national HTA systems to support UHC
- **2nd IC meeting** in Cairo in December 2014
 - A **Regional HTA network** platform
 - **Guidelines** on establishing HTA programmes

Progress made so far..

- **Iran:**
 - Only MS with established HTA agency. Still needs strengthening.
- **Tunisia:**
 - INASanté: Conducted Stakeholder Analysis and became a candidate member of INAHTA
- **Egypt:**
 - Part of the MOU on Health Technology Management (Sponsored by GE foundation and World Bank)
- **Jordan:**
 - Named the Directorate of Biomedical Engineering as the HTA focal point to start the process
- **Qatar:**
 - High-level Consultancy requested

EM Regional Network on HTA

- Hosted by EMRO on [EZCollab](#) platform
- Comprises HTA advocates, champions [from 22 MS in EMR](#) and international experts
- [Members](#) reached [100](#) (including countries from South-East Asia).
- [Members](#) pose queries, request consultancies, exchange news and resources, etc.
- [Contains a library](#) of references, technical documents, presentations, videos, etc.

V. You'll never walk alone

EM Regional Network on HTA (Cont.)

http://ezcollab.who.int/hmdem/hta

Regional network on Health Technology Assessment (HTA)

Discussions Library Calendar Members Admin

Health Technology Assessment (HTA) has become an important tool for informed decision-making by Ministries of Health. It is one of the new approaches in determining cost-effective evaluation of health technologies, in support of the provision of quality health service delivery. The definition of HTA may vary depending on the context of its use, but most definitions are in line with the one stating that "HTA is the systematic evaluation of properties, effects, and/or impacts of health care technology¹", which includes a "multidisciplinary process that encompasses information about the medical (clinical), social, economic, organizational and ethical issues related to the use of a health technology (such as drugs or medical devices and procedures) in a systematic, transparent, unbiased, robust manner. It aims to inform the formulation of safe, effective, health policies that are patient focused and seek to achieve best value²." So-called "HTA information" or "HTA product" which is commonly used, is then a piece of information generated from an HTA (e.g. clinical effectiveness of a drug in a population or organizational consequences of introducing a device into health care).

Recent discussions

- Egypt is also moving forward. Sizar Akoum on March 17
- A WHO consultancy needed in June 2015 in Qatar. Adham Ismail on March 4
- HTA. Andres.Freiberg@nice.org.uk on December 8, 2014

Recent resources

- EuroScan.pdf
- Health Technology Assessment International.pdf

Future Steps and Commitments

- From Member States
 - Accept HTA as a tool for decision making on investments made in HT
 - Have a strong political commitment
 - Establish national HTA units and working towards their independence of management procedures (including conflicts of interest)
 - Consider HTA as part of a transparency and accountability framework

Future Steps and Commitments (Cont.)

- From WHO
 - Provide technical assistance in
 - organizing a stakeholder analysis meeting
 - establishing independent national HTA units
 - developing clear communication policy of HTA reports and recommendations
 - Enhance knowledge and skills of national HTA-related staff
 - Facilitate collaboration with national, regional and international organizations and networks

Thank
You

A more detailed version of this presentation can be downloaded from RC62 official website ([http://applications.emro.who.int/docs/media/Presentation Dr Adham Ismail RC62 2015 EN.mp4](http://applications.emro.who.int/docs/media/Presentation_Dr_Adham_Ismail_RC62_2015_EN.mp4))