The NSOAP Theoretical Framework

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THE LANCET

Global surgery 2030: evidence and solutions for achieving health, welfare, and economic development

The Lancet Commission on Global Surgery



"Universal access to safe, affordable surgical and anaesthesia care when needed."

















A Commission by The Lancet

Surgery 2030

Infrastructure		
Components	Recommendations	
Surgical facilities Facility readinces Blood supply Access and referral systems	Track sender and distribution of surgiod facilities. Negotiac centralised framework purchase agreements with decreminised ordering. Eugip fresh of open facilities to be able to perform legotions, casarum delivery. Develop automat blood plat. Bellench interference success through exhibition of the properties of the performance of t	Assessment Methods Proportion of prophistor with 2 hour access to first herd fielding WHO Hoppid seventions Tool (ag, necessates of metatas, electrics), sealer, owners and supplies computer sources. Proportion of the property of the pr
Workforce	 Establish referral systems with community integration, transfer criteria, referral logistics, protections for first-responders and helpful members of the public 	Blood bank distribution, donation rate
Components	Recommendations	
Surgical, anaesthetic and obsterie providers Allied health providers (nursing, operational managers; biomedical engineers; radiology, pathology and laboratory technician officers)	Establish training and obsection strategy based on population and reach of country Require rard component of surgical and anaestheir training programms. Develop a context-appropriate forming and endominating programmes for all surgical Training and obsection strategy of anothery suff based on population and needs of country country. Training and obsection strategy of anothery suff based on population and needs of largest in professional subschool and programming for another programming for the programming of the programming for the program	Assessment Methods Densy and dambates of specials suggest, insendent, and obstate. Number of suggest, assesshere, and obstate graduates and network Properties of suggest workness training programmes secreted Properties of a sharing or morang accretional programmes and number of proceders. Proceeders of attraction and returnous neutralized programmes and number of proceders.
Service Delivery		 Density and distribution of nurses, ancillary staff including operational managers, biomedical engineers, and radiology, pathology and laboratory technicians
Components	Recommendations	
Surgical volume System coordination Quality and safety	All for level houses, thould poole againstom; creaters deliver and treatment of open fraction the Berkutche Proposition; creaters delivery and treatment of open fraction the Berkutche Proposition to common national delivery framework; promote channel derivery particularly with NGOs to build surgical capietry. Promitie healthcare management training. Promities quiting improvement processes and outcomes monitoring. Promote telemekten to build system-wide connectivity. Prameter system-wide connectivity for telemektens applications, clinical support and	Assessment Methods Proportion of surged facilities offering the Belwecher Postedares Number of surged procedures done per year Surgical and anaschine risted methods and mending tyenspectative) Availability of system-wide communication
Financing		
Components	Recommendations	Assessment Methods
Health financing and accounting Budget allocation	Cover basic surgical packages within universal health coverage Risk pool with a single pool; minimize user fees at the point of care Track financial flows for surgery through national bealth accounts Use value-based parchasing with risk-pooled funds	Surgical expenditure as a preportion of guoss domestic produce Surgical expenditure as a preportion of total national health-care budget Out-of-pocket expenditures to swagety Catastrophic and impoverishing expenditures on surgery
Information Manag	ement	. Val
Component	Recommendations	Assessment Methods Presence of data systems that promote monitoring and accountability
Information systems Research agenda	Develop robust information systems to monitor clinical processes, cost, outcomes and identify deficits Identify, regulate, and fund surgical research priorities of local relevance	Proportion of usuaginal and anaembesis care Proportion of hospital facilities with high speed internet connections ###################################

GS2030





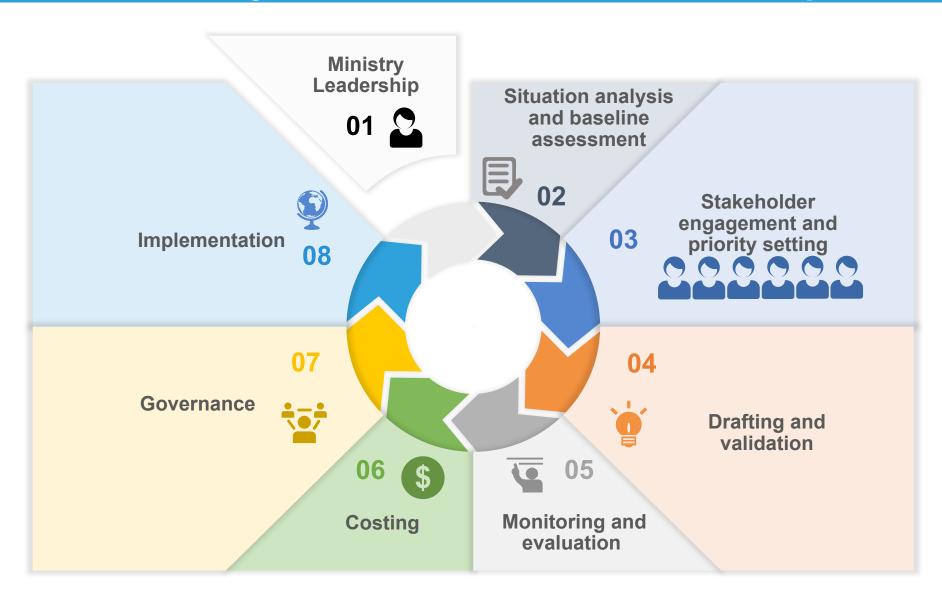
Domains of the NSOAP



The NSOAP Process



Ministry of Health Leadership



Ministry of Health Leadership





Integration into the National Health Plan and Government policies

Coordinating NSOAP development and implementation

Situation Analysis



Situation Analysis

What is it? Why is it important? How is it done? **NSOAP Financing** Strategy Assessment of the Need to know where current surgical capacity Review current MoH we are (baseline) Fiscal Space for Health data Used to determine Analysis Literature reviews where we want to go Stakeholder analysis **Hospital Assessments** (goals and targets) Stakeholder engagement And how to get there (Activities)

Situation Analysis Tools

National Surgical, Obstetric and Anaesthesia Planning (NSOAP) Semi-structured Hospital Interview Tool

Interviewee: CEO/Hospital Director Name and title of interview subject:

Contact information:

Framing statement: The purpose of this interview is to understand the key factors affecting the provision of safe, affordable and timely surgical care – from a management perspective – at this facility. We would like to understand the challenges you face as well as the main areas for improvement at this facility?

INFRASTRUCTURE

 Describe your facility's infrastructure and how it affects your facility's ability to provide surgical care.

Prompts

- How frequently does your facility experience interruptions in basic utilities (e.g. running water, electricity)? How do you work around these interruptions?
- What shortages in terms of essential supplies or surgical equipment does your facility face? (eg. XR, CT, basic labs). What accounts for these shortages?
- Describe what processes are in place for equipment maintenance.
- 2. What are the key challenges your facility faces in terms of infrastructure?

Prompts:

 Does your facility face shortages in terms of space utilization (e.g. number of ORs. number of beds)?

WORKFORCE

Describe your facility's human resources and how they affect your ability to provide surgical care.

Prompts.

- What shortages, if any, does your facility face in terms of workforce (e.g surgeons, nurses, techs)?
 - What accounts for this workforce shortage?
 - What would your facility need (i.e. what specific healthcare providers) to more adequately address the surgical burden of disease?
 - What problems, if any, does your facility face in recruiting and retaining workforce? What attraction and retention strategies are in place?
- How are non-surgeons/obstetricians used to assist with surgical care of patients?
- 4. Describe the working environment of your facility.

Prompts

- How do you foster a positive, productive working environment?
- How would you describe the quality of management/leadership within your facility?
- Describe how governing bodies affect management of this facility? Both from hospital leadership and from Ministry of Health.
- 5. What are they key challenges your facility faces in terms of workforce?

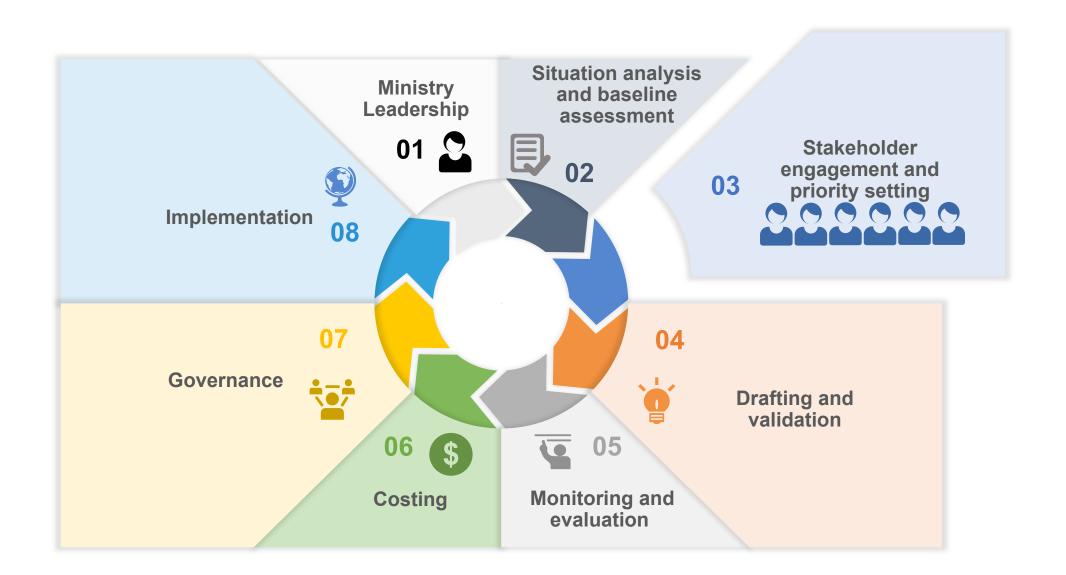
https://www.pgssc.org/national-surgical-planning

WHO-PGSSC Surgical Assessment Tool (SAT) Hospital Walkthrough

GENERAL QUESTIONS			
Country:			
Name of health care facility:			
Address of health care facility:			
Phone number and email of health care facility:			
Date of data collection (dd/mm/yyyy):	Date of data collection (dd/mm/yyyy):		
Name and professional title of staff filling out form:			
Contact information of staff completing this assessme	Contact information of staff completing this assessment (phone and email):		
	☐ Health Centre/Clinic ☐ District/Rural Hospital/First referral Hospital		
Level of facility being evaluated	□ Provincial/Secondary Hospital		
	☐ Tertiary/Teaching/Specialized Hospital		
Type of facility being evaluated	☐ Public ☐ Private ☐ NGO ☐ Mission ☐ Other		

IN	FRASTRUCTURE		
G	General Infrastructure - How often is this item available and functional?		
	Electricity/operational power generator	□ 0 (Never) □ 1-25% (Rarely) □ 26-50% (Sometimes) □ 51-75% (Often) □ 76-99% (Almost always) □ 100% (Always)	
	Running water	□ 0 (Never) □ 1-25% □ 26-50% □ 51-75% □ 76-99% □ 100% (Always)	
ı	Internet	□ 0 (Never) □ 1-25% □ 26-50% □ 51-75% □ 76-99% □ 100% (Always)	
	Oxygen	□ 0 (Never) □ 1-25% □ 26-50% □ 51-75% □ 76-99% □ 100% (Always)	
	Total number of admissions in a year	#	
	Total number of outpatients seen in a year	#	
	Total number of inpatient hospital beds	#	
	Total number of surgical beds	#	
	Total number of functioning operating rooms (major and minor)	#	

Stakeholder Engagement



Stakeholder Engagement and Priority Setting

Why?

- Reflects reality of front-line implementers
- Buy in from stakeholders

How?

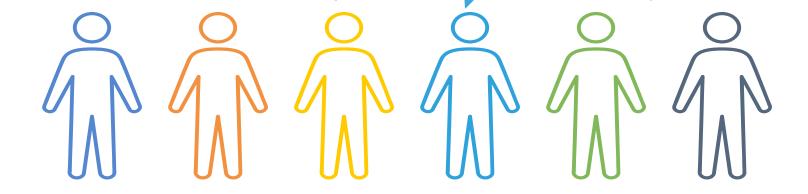
- Focus groups
- Semi-structured interviews
- Workshops and committees

Workshops

- Priority setting
- Writing workshops
- Costing
- Validation

Tools

- Semi-structured group interview
- PGSSC discussion framework



Tools

National Surgical, Obstetric and Anaesthesia Planning (NSOAP) Discussion Framework

INFRASTRUCTURE

Number and Distribution of Surgical Facilities

- I. Background
 - 1. What are the different levels of health facilities that exist in the country?
 - a. How many facilities are there of each level in the country?
 - 2. Which of the facilities should be capable of providing the Bellwether procedures (C-section, laparotomy, and treatment of open fracture)?
 - a. What is the geographic distribution of Bellwether-capable facilities?
 - i. Is this distribution deliberate, and if so how?
 - b. What percent of population do you estimate can reach a Bellwether-capable facility within 2 hours?
 - 3. Is the current number and distribution of facilities adequate?

II. Challenges & Proposed Solutions

- 4. What are the major barriers to developing new facilities?
- 5. What are previous and current initiatives to improve distribution and number of facilities?

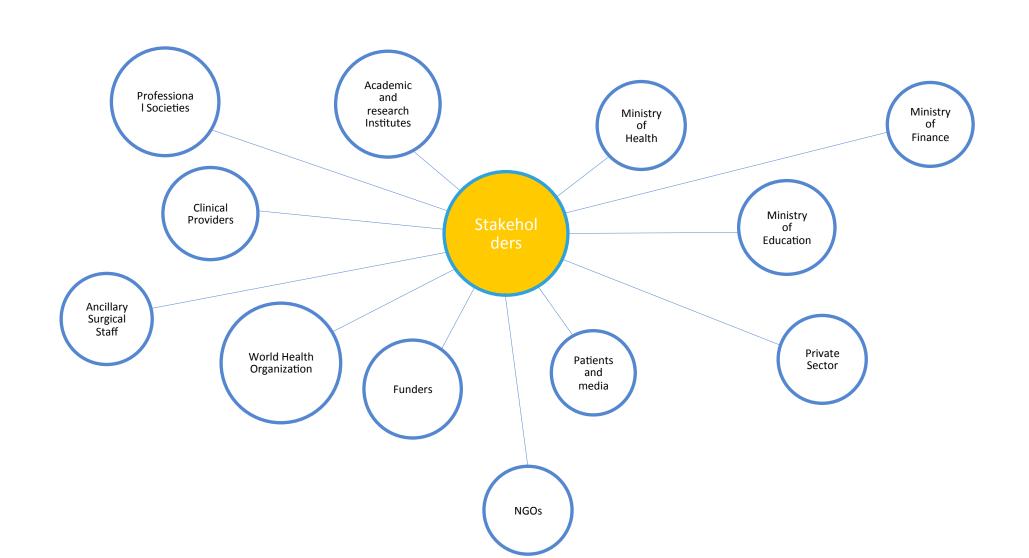
III. Targets

6. In 5 years, what changes need to be made in regards to the number and distribution of surgical facilities?

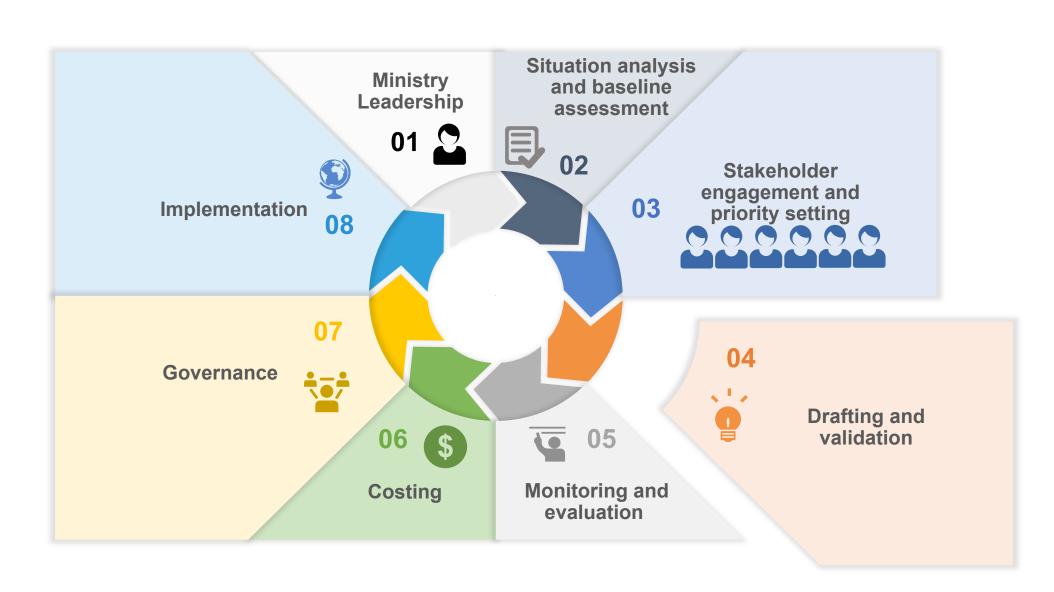
IV. Monitoring and Evaluation

- Key Metrics
 - a. How can 2-hour access to Bellwether procedures be measured accurately?
 - b. What is the frequency that access to Bellwether procedures should be measured?
- 8. Which body of government or organization will lead this initiative and monitor progress?

Types of Stakeholders



Drafting and Validation



Drafting and Validation

Assemble the drafting team

- Who will draft the plan?
- NSOAP core team
- Individual stakeholder
- Outside consulting group

Integrating themes and priority consensus

- Goals
- Strategic Objectives
- Outputs
- Activities
- Indicators
- Targets

Validation with stakeholders

- Ensure draft is consensus of stakeholders
- Validation workshop
- Electronic validation by email or post

Drafting and Validation

Reflect the views of stakeholders

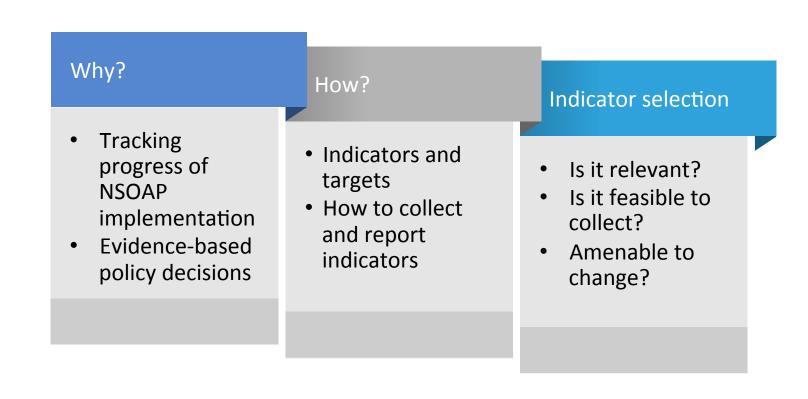
Balance views and evidence

Align with priorities of the government and ministry

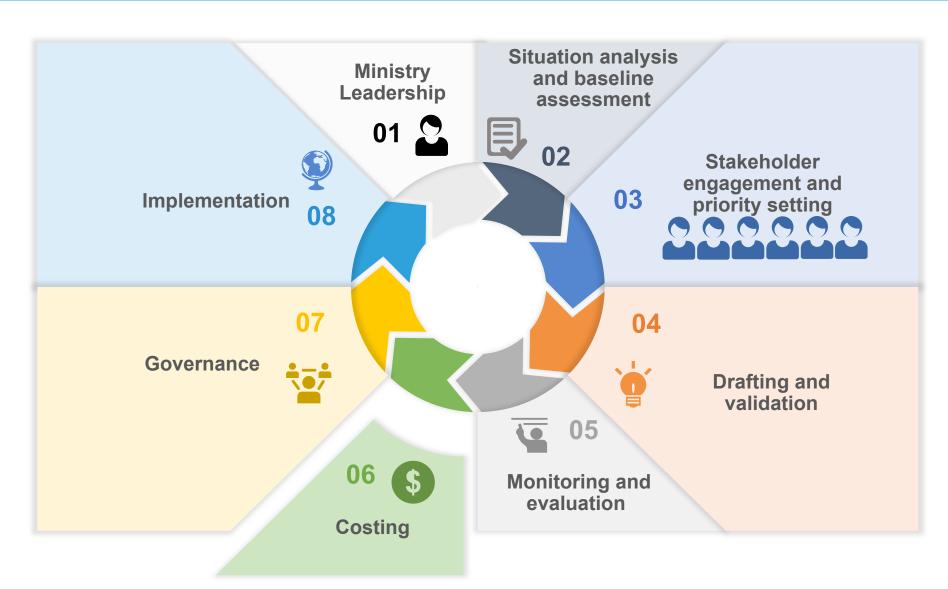
Monitoring and Evaluation



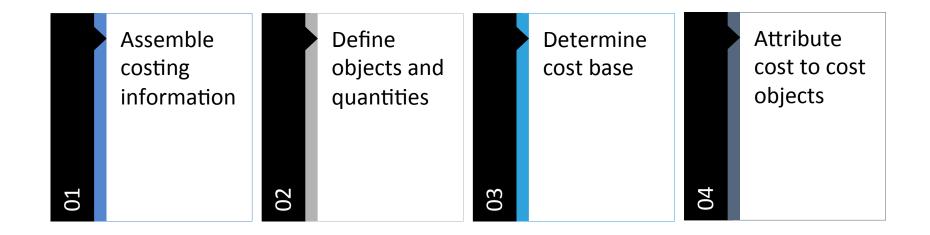
Monitoring and Evaluation Plan



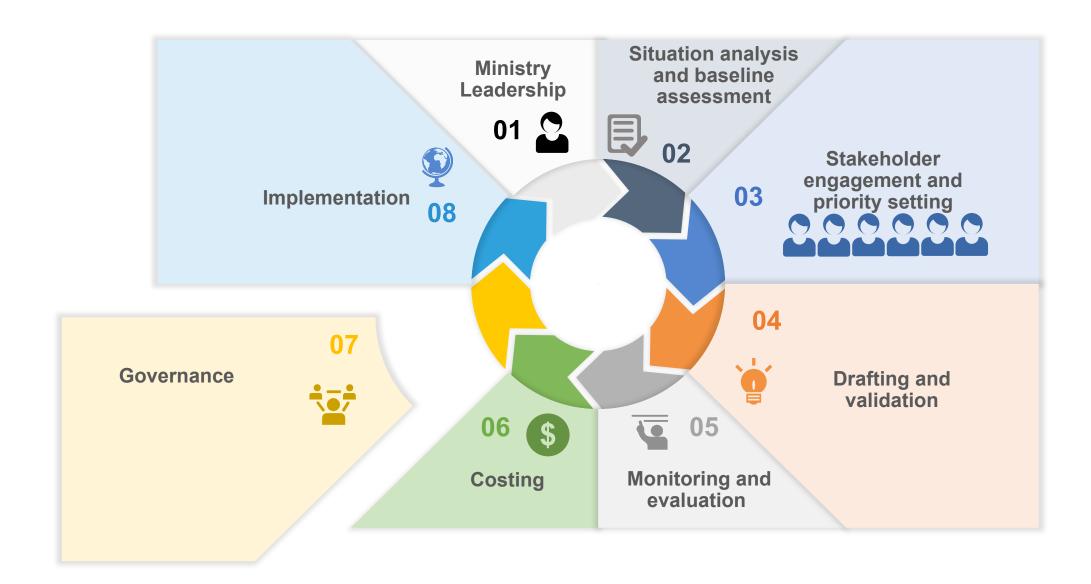
Costing



Costing



Governance Framework



Governance Considerations

Roles and responsibilities of actors

Clear Accountability structures

Reporting Mechanisms

Data Access and Utilization

Implementation



Implementation



Tools for NSOAP Process



https://www.pgssc.org/national-surgical-planning



Developing an NSOAP Financial Strategy (NFS)

Ché L. Reddy, MBChB, MPH Paul Farmer Research Fellow, Harvard School of Public Health

Outline

Why?

What?

Hows

• Policy recommendations

Why do an NFS?

NSOAP needs funding for implementation

	Tanzania	Zambia
Total cost	600 million USD	260 million USD
Cost per year	85 million USD	51 million USD

Need for a strategy

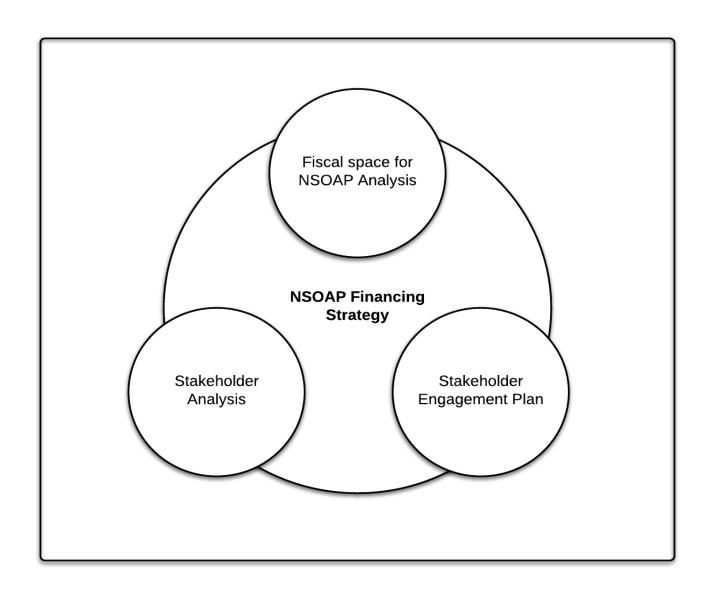
What is an NFS?

- Ministries of Health
- Assess fiscal space for health
- Strategy to mobilize resources for NSOAP implementation

NFS and the NSOAP process



NFS components



- Sources

- Actors

- Engagement

Fiscal space analysis

- 1. Macroeconomic conditions
- 2. Reprioritization of government budget
- 3. Increase health sector-specific resources
- 4. Efficiency of existing resources
- 5. External sources
- 6. Innovative Financing sources

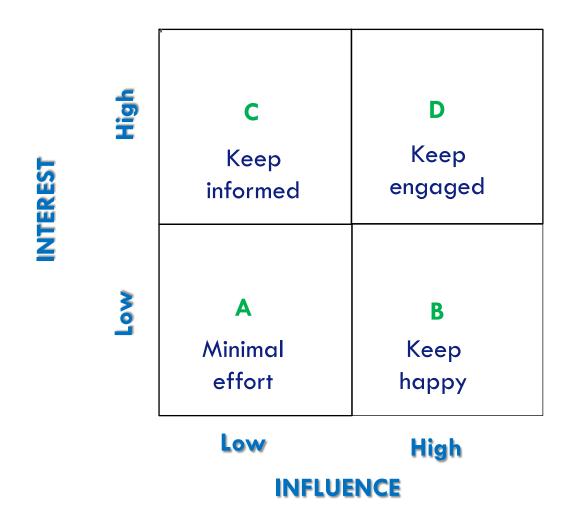
Stakeholder analysis



Stakeholder	Influence	Interest	Trust	Potential Example
Ministry of Finance				
Bilateral funder				
Private provider/insurer				
Surgical device manufacturer				
Academic institution				

Adapted from Rifat Atun, 2015

Funding Stakeholder management



Policy options for NFS

Funding/Country group	UMIC	LMIC	LIC
	South Africa	Pakistan	Libera
Domestic	✓		
External			✓
Domestic + External		✓	
Innovative, Macroeconomic, Efficiency	✓	✓	✓

Conclusion

- No financing = no implementation
- Must be embedded into the NSOAP process and finance domain
- NFS ensures alignment with the health system financing process
- NFS is the systematic approach to finance an NSOAP

