

# Bottleneck Analysis Framework

# Country-Specific Bottleneck Analysis – Overview

## Goal

Assess potential uptake challenges along the product value chain to identify critical bottlenecks for:

- 1) Intervention
- 2) Further investigation
- 3) Referral to another stakeholder, especially for systems-based issues

## Structure

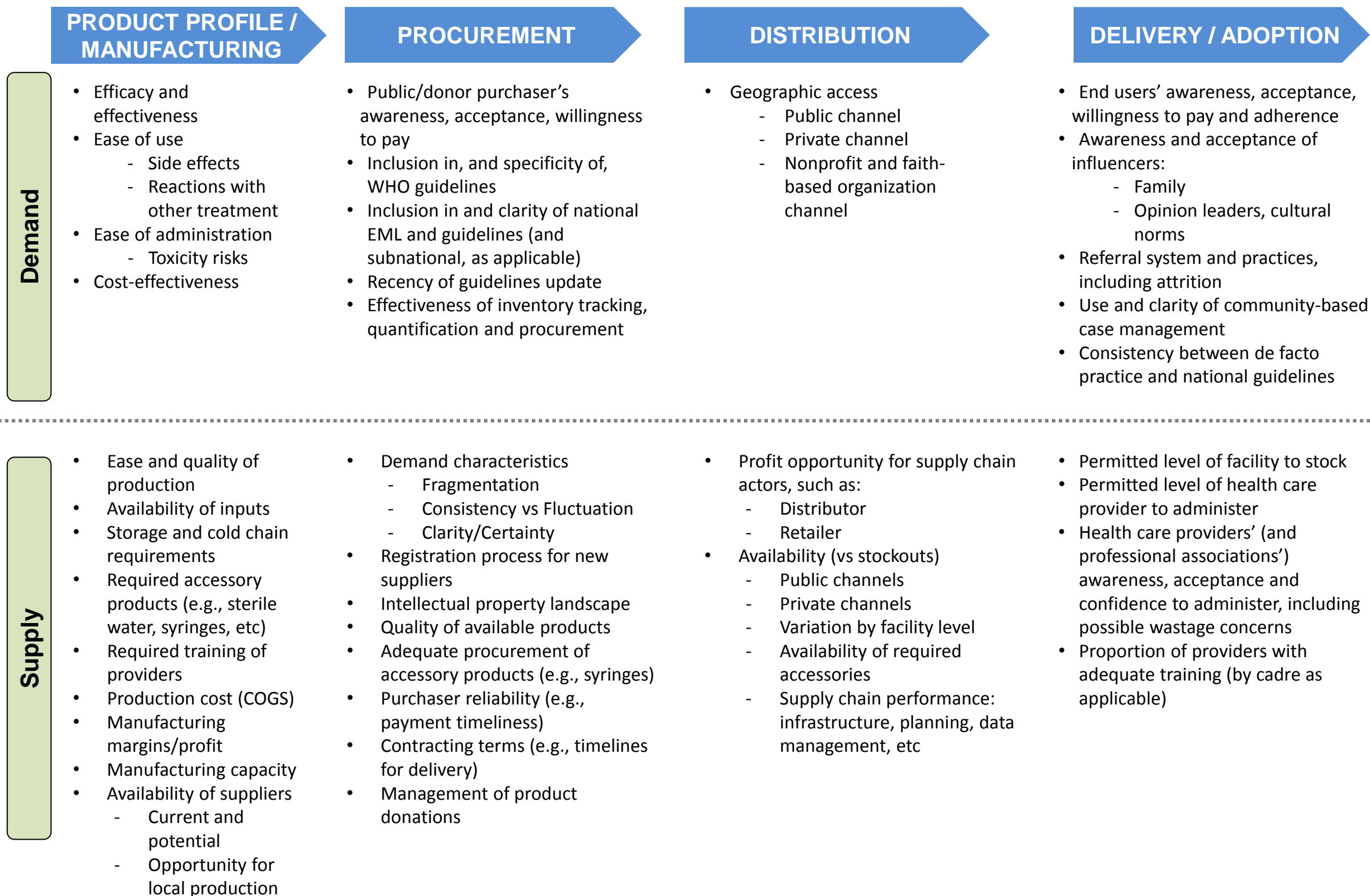
- Each potential uptake issue examined (“Metric”) is detailed further in research questions to classify issue:
  - Advantage
  - Neutral/mixed issue
  - Challenge
  - Critical bottleneck
  - Unknown
- Metrics and research questions aim to cover important potential challenges while remaining answerable with reasonable effort

## Approach

- Create first draft based on desk review of available reports, such as national RMNCH plans and the UNCoLSC RAIC assessment
- Vet assumptions and identified bottlenecks with in-country stakeholders
- Prioritize interventions with in-country stakeholders
- Prioritize unknowns to investigate

*Input on bottleneck analysis framework and approach provided by UNCoLSC IA TRT members, including USAID technical teams, Save the Children, MSH, PATH, CHAI, and USP, among others*

# Bottleneck analysis framework: tool to assess country-specific product uptake challenges



# PROCUREMENT Detail: Potential Bottlenecks

Country

Country Name

Last Updated Jul. 3, 2014



	Metric	Desk Review Research	Data Source	Summary
Demand	Public/donor purchaser's awareness, acceptance, willingness to pay	<ul style="list-style-type: none"> <li>Who are the primary purchasers (MOH, USAID, NGOs, etc)?</li> <li>What budget do the primary purchasers allocate to this product? Is there a cap on unit price?</li> </ul>		
	Inclusion in, and specificity of, WHO guidelines	<ul style="list-style-type: none"> <li>Are all recommended formulations endorsed by the WHO and/or other SRAs who these purchasers rely on for purchasing decisions?</li> </ul>		
	Inclusion in and clarity of national EML and guidelines	<ul style="list-style-type: none"> <li>Are all recommended formulations clearly specified in the national (subnational, as applicable) EML and treatment guidelines?</li> <li>When were national treatment guidelines last updated?</li> <li>Do the guidelines reflect product best practices?</li> </ul>		
	Recency of guidelines update			
	Effectiveness of inventory tracking, quantification and procurement	<ul style="list-style-type: none"> <li>At facilities, what is the ordering process (timeline and decisionmakers)?</li> <li>How does ordering relate to inventory tracking?</li> <li>How accurately is demand quantified and forecasted?</li> <li>Does the procurement process include formulations based on the EML?</li> <li>Are quality specifications included in the procurement process?</li> </ul>		
	Demand characteristics	<ul style="list-style-type: none"> <li>How fragmented is demand between public, NGO and private sector?</li> <li>How much does demand fluctuate from year to year?</li> </ul>		
Supply	Registration process for new suppliers	<ul style="list-style-type: none"> <li>What is the registration process, and how much time and effort is required from new suppliers?</li> </ul>		
	Quality of available products	<ul style="list-style-type: none"> <li>Do products available to the primary purchasers meet quality standards?</li> </ul>		
	Adequate procurement of accessory products (e.g., syringes)	<ul style="list-style-type: none"> <li>Administering the product may require accessory products (e.g., needles or sterile water). If so, how are these quantified and procured?</li> <li>What availability indicators exist for these accessory products?</li> </ul>		
	Purchaser reliability	<ul style="list-style-type: none"> <li>For the primary purchasers, how reliable are their payments?</li> <li>How timely are their payments?</li> </ul>		
	Contracting terms	<ul style="list-style-type: none"> <li>How timely are manufacturers in delivering their products?</li> <li>Other relevant contracting terms?</li> </ul>		
	Management of product donations	<ul style="list-style-type: none"> <li>How sizable are product donations? Who approves donations?</li> <li>How are donations distributed?</li> </ul>		
	Other	<ul style="list-style-type: none"> <li>What other factors affect procurement of sufficient, high quality products?</li> </ul>		

## LEGEND for Summary Assessment

Advantage

Neutral

Challenge

Critical Bottleneck

Unknown

# DISTRIBUTION Detail: Potential Bottlenecks

Country

Country Name

Last Updated Jul. 3, 2014



	Metric	Desk Review Research	Data Source	Summary
Demand	Public channel – geographic access	<ul style="list-style-type: none"> <li>Pricing for 1L and 2L treatment course to end user</li> <li>Distribution of facilities (e.g., # of primary care sites, secondary care sites, etc) and average distances, time or transport costs for urban and rural users</li> <li>Perception of public health facilities</li> </ul>		
	Private, for-profit channel – geographic access	<ul style="list-style-type: none"> <li>Pricing for 1L and 2L treatment course to end user</li> <li>Distribution of health facilities and average distances, time or transport costs</li> <li>Perception of private, for-profit health facilities</li> </ul>		
	Nonprofit and faith-based organization (FBO) channel – geographic access	<ul style="list-style-type: none"> <li>Pricing for 1L and 2L treatment course to end user</li> <li>Distribution of health facilities and average distances, time or transport costs</li> <li>Perception of nonprofit and FBO health facilities</li> </ul>		
Supply	Profit opportunity for distributors	<ul style="list-style-type: none"> <li>What is the profit and profit margin in supplying 1L and 2L products wholesale? How does this compare to distributors' other products?</li> <li>What volume and % of their customers buy this product?</li> </ul>		
	Profit opportunity for retailers	<ul style="list-style-type: none"> <li>What is the profit and profit margin for providers in administering 1L and 2L treatment courses? How does this compare to retailers' other products?</li> <li>What volume and % of their patients use this product?</li> </ul>		
	Availability (vs stockouts) in public channels of product, accessories	<ul style="list-style-type: none"> <li>How common are product or accessory stockouts in public facilities?</li> <li>How much inventory is kept, where is it stored, and how often is it checked?</li> </ul>		
	Availability in for-profit channels	<ul style="list-style-type: none"> <li>How common are product or accessory stockouts in for-profit facilities?</li> <li>How much inventory is kept, where is it stored, and how often is it checked?</li> </ul>		
	Availability in nonprofit/FBO channels	<ul style="list-style-type: none"> <li>How common are product or accessory stockouts in nonprofit/FBO facilities?</li> <li>How much inventory is kept, where is it stored, and how often is it checked?</li> </ul>		
	Availability by health facility level	<ul style="list-style-type: none"> <li>How does availability of the product and its accessories vary by health facility level (community, primary, secondary and hospital)?</li> </ul>		
	Supply chain performance	<ul style="list-style-type: none"> <li>How is distribution of the product affected by supply chain performance (infrastructure, push/pull planning, data management, LMIS, etc)?</li> <li>How is distribution split across public, for-profit and nonprofit/FBO channels?</li> </ul>		
Other		<ul style="list-style-type: none"> <li>Are there other factors that greatly impact distribution?</li> </ul>		

## LEGEND for Summary Assessment

Advantage

Neutral

Challenge

Critical Bottleneck

Unknown



# DELIVERY/ADOPTION Detail: Potential Bottlenecks

Country

Country Name

Last Updated Jul. 3, 2014



	Metric	Desk Review Research	Data Source	Summary
Demand	End users' awareness, acceptance, willingness to pay and adherence	<ul style="list-style-type: none"> <li>Among pregnant women and recent mothers, what are awareness levels of the health condition?</li> <li>How willing are they to use and pay for the product?</li> <li>How much value is placed on finishing a full treatment course?</li> </ul>		
	Awareness and acceptance of influencers	<ul style="list-style-type: none"> <li>What are common views of the health condition and the product among caretakers and other influential family members?</li> <li>What are common views of the health condition and product among key opinion leaders?</li> <li>Are there any cultural norms around the health condition and product?</li> </ul>		
	Referral system and practices, including attrition, if applicable	<ul style="list-style-type: none"> <li>Is the current patient referral system clearly defined? Do providers have supporting job aids, patient forms, or other guidance?</li> <li>What percent of patient attrition/loss occurs through the referral process?</li> </ul>		
	Use and clarity of community-based case management	<ul style="list-style-type: none"> <li>How does the community-based case management process work?</li> <li>How would referrals/community care respond to the likely guideline changes?</li> </ul>		
	Consistency between de facto practice and national guidelines	<ul style="list-style-type: none"> <li>How consistently does actual practice using the product reflect the national treatment guidelines?</li> <li>How does this vary by public, for-profit or nonprofit/FBO providers?</li> </ul>		
Supply	Permitted level of facility to stock	<ul style="list-style-type: none"> <li>What level of HF is permitted to stock the product?</li> <li>How restrictive is this in providing the product to end users?</li> </ul>		
	Permitted level of health care provider to administer	<ul style="list-style-type: none"> <li>What provider levels (e.g., doctor, nurse, CHW) are permitted to administer the product?</li> <li>How restrictive is this in providing the product to end users?</li> </ul>		
	Proportion of providers with adequate training (by cadre as applicable)	<ul style="list-style-type: none"> <li>Among doctors and their associations, what are awareness levels of the health condition and the product? How trained and confident are they in administering the product?</li> <li>What are awareness, training and confidence levels among nurses?</li> </ul>		
	Providers' awareness, acceptance and confidence to administer	<ul style="list-style-type: none"> <li>What are awareness, training and confidence levels among CHWs/midwives?</li> <li>Is product wastage a concern in administering the product?</li> </ul>		
Other		<ul style="list-style-type: none"> <li>Are there other factors that greatly impact the service delivery or user adoption of the product?</li> </ul>		

## LEGEND for Summary Assessment

Advantage

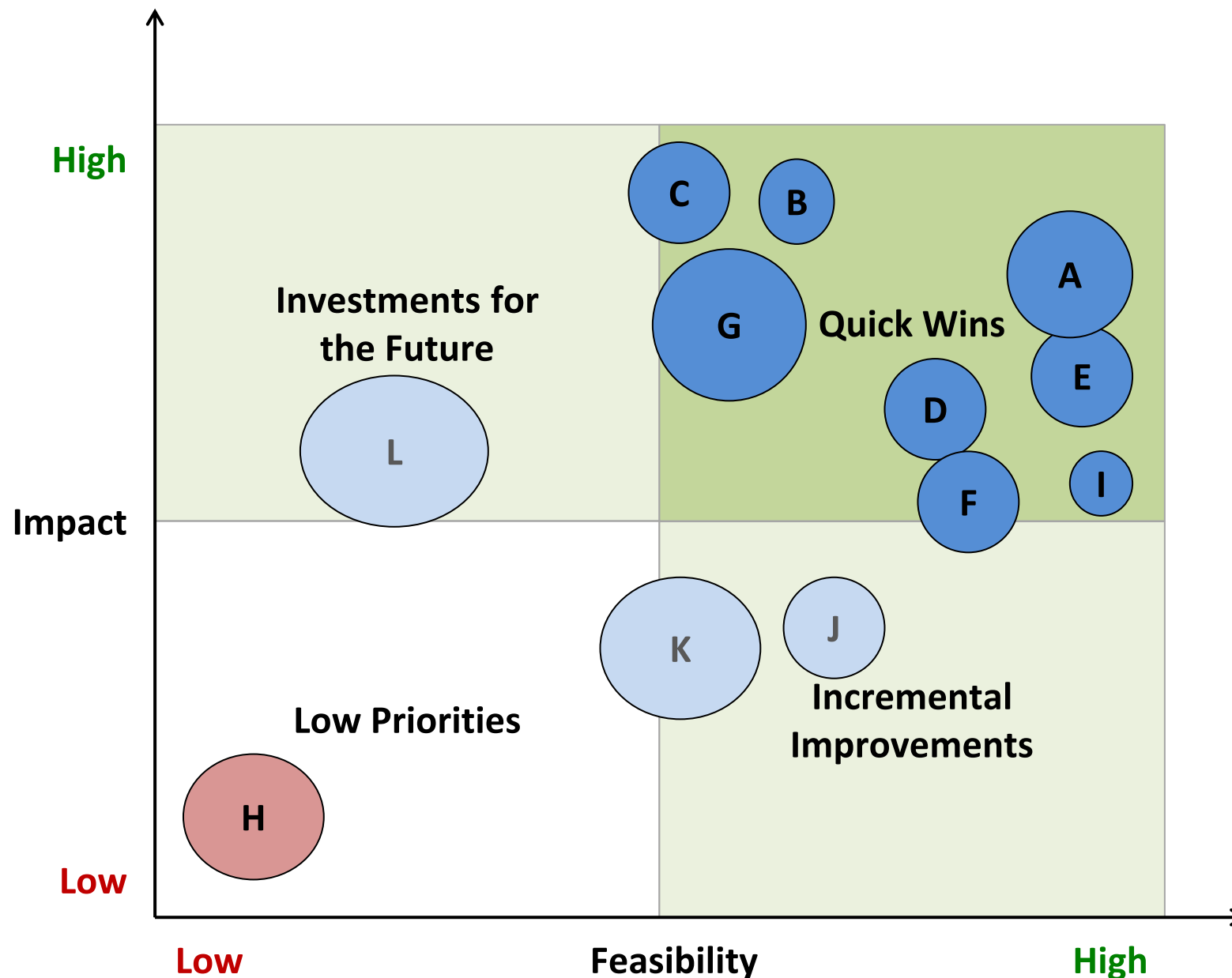
Neutral

Challenge

Critical Bottleneck

Unknown

# Prioritization table can help articulate rationale for addressing identified bottlenecks



## — Impact

- How will addressing this challenge increase usage
- What will the expected impact be on lives saved and DALYs averted?

## — Feasibility

- How serious is the challenge, or how far is this aspect from functioning?
- How much change (and by how many actors) would be required to resolve this problem?

## — Estimated financial cost

- To be added through in-country input
- (Circle size reflects the estimated cost or investment required)

*How a challenge fits within the scope of a working group is **not** reflected. Once a challenge is prioritized, the working group should decide whether to address it directly or advocate for an intervention by another group*