

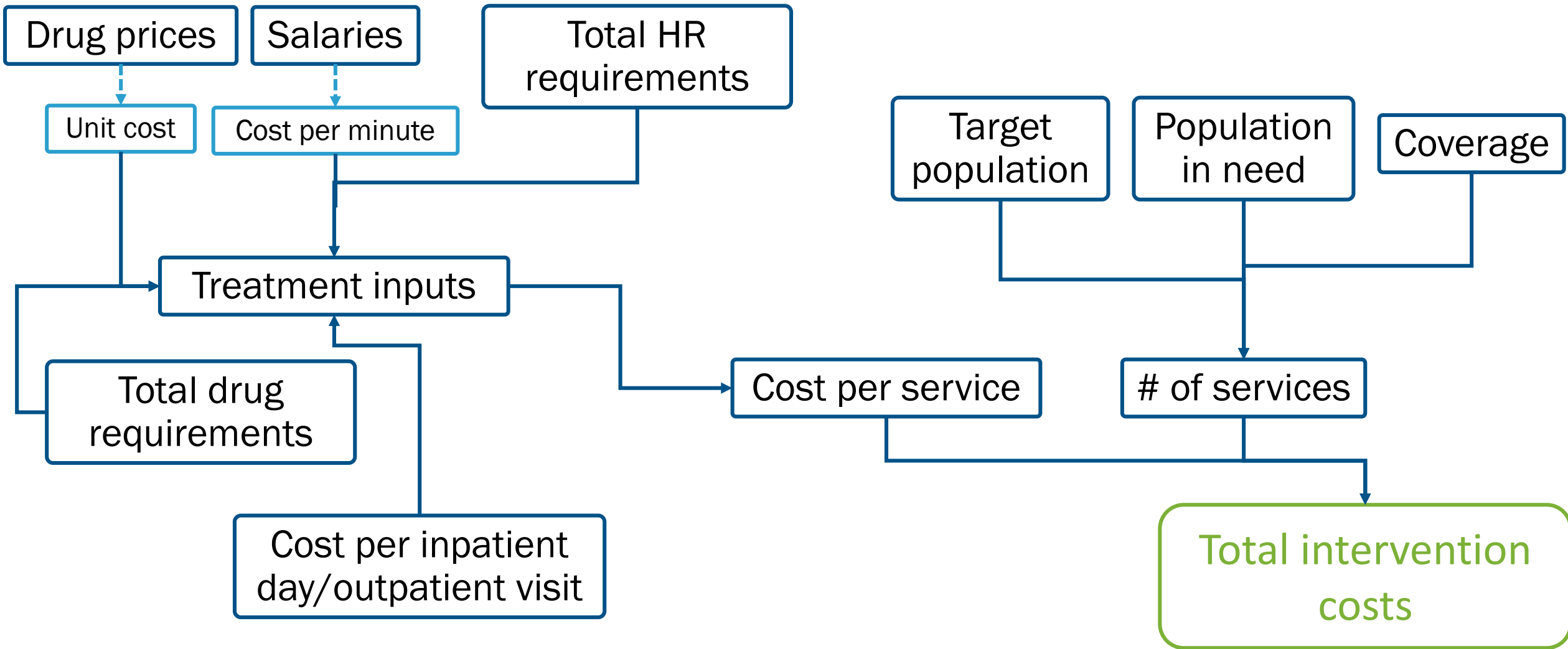


# LiST Costing

# RMNCH costing structure



# RMNCH costing structure



# Intervention costing

# RMNCH costing structure



# Intervention costing

$$\boxed{\text{Cost}} = \boxed{\text{Quantity}} \times \boxed{\text{Price per unit}}$$

## ■ Inputs for LiST to calculate services

- Target population
- Population in need
- Intervention coverage
- Delivery channel

# of services

## ■ Inputs for LiST to calculate price

- Drugs and supplies
- Personnel time
- Inpatient and outpatient visits

Treatment inputs

# Calculating services - example

$$\boxed{\text{Target population}} \times \boxed{\text{Population in need}} \times \boxed{\text{Coverage}} = \boxed{\text{Number of services}}$$

# Calculating services - example

$$\text{Target population} \times \text{Population in need} \times \text{Coverage} = \text{Number of services}$$

$$\text{\# of births} \times \text{\% of babies who are premature} \times \text{KMC intervention coverage} = \text{\# of kangaroo mother care services}$$



# Target population

$$\text{Target population} \times \text{Population in need} \times \text{Coverage} = \text{Number of services}$$

What is the population that could possibly receive the intervention?

- DemProj provides population divided by age or characteristic
  - E.g. Pregnant women, Women 15-49, Children <5
- Defaults are pre-loaded into LiST costing, but users can chose to modify them

# Population in need

$$\boxed{\text{Target population}} \times \boxed{\text{Population in need}} \times \boxed{\text{Coverage}} = \boxed{\text{Number of services}}$$

What share of the target population requires the service?

Who should get the service?

Among which group?

**KMC example**

Babies who are born premature

All babies

# Coverage

$$\boxed{\text{Target population}} \times \boxed{\text{Population in need}} \times \boxed{\text{Coverage}} = \boxed{\text{Number of services}}$$

Who among those who need the intervention is receiving it?

- Data is taken directly from LiST's coverage editor

# Delivery channels

## How is the service provided?

- Costed channels: delivered through a channel under the purview of a health-related government entity
  - E.g. Community, outreach, clinic, hospital
- Non-costed channels: delivered through any other channel
  - E.g. Private clinics, WASH interventions

# Delivery channels - example

	Community	Outreach	Clinic	Hospital	WASH	Other non-health	Private sector	Total
<b>Family planning</b>								
Vaginal tablets	0	25	75	0	0	0	0	100
Pill	50	50	25	0	0	0	0	100
Condom	0	0	75	25	0	0	0	100
Injectable	20	25	35	20	0	0	0	100

- The total must always add up to 100%
- Each number represents the percentage of that service which was delivered through that particular channel

# Intervention costing

- Inputs for LiST to calculate services
  - Target population: What is the population that could possibly receive the population?
  - Population in need: What share of the target population requires the service?
  - Intervention coverage: Who among those who need the intervention is receiving it?
  - Delivery channel: How is the service provided?
- Inputs for LiST to calculate price
  - Drugs and supplies
  - Personnel time
  - Inpatient and outpatient visits

Treatment inputs

# Treatment inputs: drugs and supplies

Which and how many drugs and supplies are needed to carry out one case of the intervention?

- Drug/supply
- Percent receiving this aspect of the treatment
- Note
- Number of units
- Times per day
- Days per case
- Units per case
- Unit cost
- Cost per average case

# Treatment inputs: medical personnel time

What type of provider and much of their time is needed to carry out the intervention?

- Staff type
  - E.g. midwives, ob/gyns, nurse, community health worker, etc.
- Percent treated by
  - Percent of cases that are treated by this staff type
- Note
- Number of minutes
- Number of days per visit
- Total minutes



# Treatment inputs: inpatient and outpatient days

How many inpatient or outpatient visits are needed per case?

- Percent receiving
- Notes
- Units per case
- Total visits

# Intervention costing

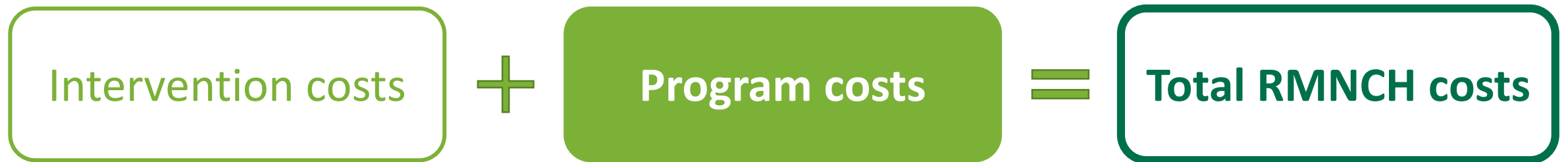
- Inputs for LiST to calculate services
  - Target population: What is the population that could possibly receive the population?
  - Population in need: What share of the target population requires the service?
  - Intervention coverage: Who among those who need the intervention is receiving it?
  - Delivery channel: How is the service provided?
- Inputs for LiST to calculate price
  - Drugs and supplies: What and how much drugs and supplies are needed to carry out one case of the intervention?
  - Personnel time: What type of provider and much of their time is needed to carry out the intervention?
  - Inpatient and outpatient visits: How many inpatient or outpatient visits are needed per case?

# Costs

- Commodity costs
  - Drugs and supply costs per case \* # of services
  - Default data source: MSH Drug Price Indicator Guide, UNICEF, GAVI, GDF
- Labour costs
  - Provider time by cadre \* cost per minute \* number of services
  - Salaries and time utilization to calculate cost per minute for each cadre
  - Default data source for salaries: WHO CHOICE
- Other recurrent and capital costs
  - Cost per inpatient day and outpatient visit by level \* number of visits per service \* number of services
  - Cost per inpatient day and outpatient visit drawn from WHO CHOICE
  - Proportion for labour and commodities is removed, and the remainder is allocated to recurrent and capital costs

**Above service delivery costs**

# RMNCH costing structure



# Program costing

- Additional percentage of service delivery costs, or absolute number
- Defaults are provided as percentage of service delivery costs

<b>Program costs</b>		<b>Source</b>
Programme-specific human resources	1%	
Training	1%	EPIC studies
Supervision	2%	EPIC studies
Monitoring and evaluation	2%	EPIC studies
Infrastructure	2%	NASA
Transport	2%	CmYP figures
Communication, media, and outreach	1%	SUN costed nutrition plans
Advocacy	1%	EPIC studies
General programme management	2%	EPIC studies
Community health worker training	1%	Expert estimates (no data)
Other	0%	
Total	15%	

# Other health systems costs (optional)

- Logistics and wastage
  - Supply chain costs based on Deliver estimates by country supply chain status
  - Wastage costs of 5% of drug and supply costs
- Infrastructure investment
  - Ratio applied to incremental service deliver costs based on 2014 RMNCH investment case
  - Varies by income level
- Other health system cost
  - Governance, HIS, etc.
  - Ratios applied to service delivery cost based on 2014 RMNCH case
  - Varies by country income level
- Inefficiencies
  - 17% of other spending (World Health Report 2010)

**Other**



# User features

- Database of defaults for salaries, drug prices, inpatient and outpatient costs
- Easily editable inputs (prices, salaries, treatment inputs)
- New interventions added to LiST also have costing template
- Manuals are embedded using the Help button



# The Lives Saved Tool

-  Help files
-  Training material
-  User forum
-  Webinars

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