LiST Costing
RMNCH costing structure

\[ \text{Intervention costs} + \text{Program costs} = \text{Total RMNCH costs} \]
Intervention costing
RMNCH costing structure

\[ \text{Intervention costs} + \text{Program costs} = \text{Total RMNCH costs} \]
Intervention costing

\[ \text{Cost} = \text{Quantity} \times \text{Price per unit} \]

- **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

Target population × Population in need × Coverage = Number of services
Calculating services - example

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

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

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 choose to modify them
Population in need

Target population \times \text{Population in need} \times \text{Coverage} = \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

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

<table>
<thead>
<tr>
<th>Service</th>
<th>Community</th>
<th>Outreach</th>
<th>Clinic</th>
<th>Hospital</th>
<th>WASH</th>
<th>Other non-health</th>
<th>Private sector</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Family planning</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vaginal tablets</td>
<td>0</td>
<td>25</td>
<td>75</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>Pill</td>
<td>50</td>
<td>50</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>Condom</td>
<td>0</td>
<td>0</td>
<td>75</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>Injectable</td>
<td>20</td>
<td>25</td>
<td>35</td>
<td>20</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>100</td>
</tr>
</tbody>
</table>

- 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

- 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

\[ \text{Intervention costs} + \text{Program costs} = \text{Total RMNCH costs} \]
Program costing

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

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