



Cost of the Essential Package of Health Services (EPHS) 2020 in Somalia

Ministry of health
Federal Government of Somalia
03 December, 2020

EPHS 2020

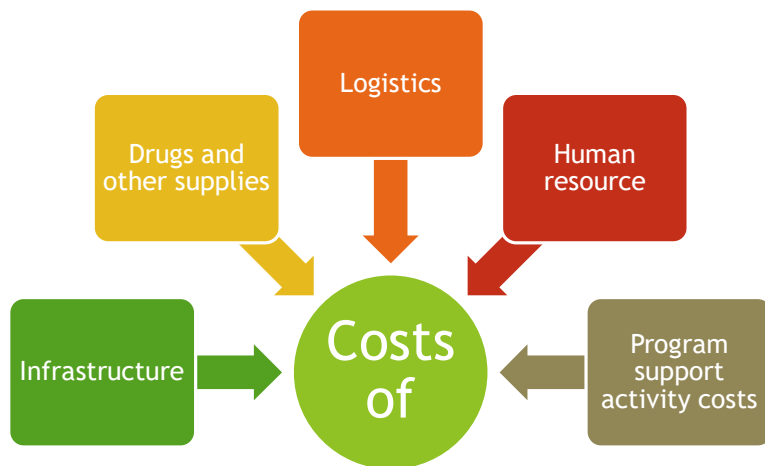
- ▶ The Ministry of Health and Health partners have defined an essential package of health services grouped in 7 program areas
 1. **Reproductive maternal and newborn health**
 - a. Maternal and newborn care
 - b. Sexual and reproductive health
 2. **Life-course growth and development**
 - a. Childhood and adolescence
 - b. Older age and adults
 3. **Non-communicable diseases**
 - a. Health promotion and disease prevention
 - b. Cardiovascular and pulmonary diseases
 - c. Diabetes
 - d. Cancers
 - e. Mental Health & Substance use disorders
 - f. Injury
 - g. Other NCDs
 4. **Communicable diseases**
 - a. Immunization
 - b. HIV/TB /Malaria and Hepatitis
 - c. Neglected tropical diseases
 - d. Respiratory infections
 - e. Gastrointestinal infections
 - f. Other infections
 - g. Outbreak Responses
 5. **Emergency care**
 6. **Approaches to common signs and symptoms**
 7. **Rehabilitation**

Objectives of the cost study

► To estimate the

1. The total and **per capita cost** of implementing the EPHS 2020 package from 2020 to 2030,
2. The total and **per capita cost of EPHS 2020 intervention costs (costs of medicines and other commodities and program activities)**,
3. The total and **per capita cost per resource category (Infrastructure, equipment, commodities/drugs and medicines, human resources, and recurrent expenditures)**,
4. The total and **average cost per facility** including community, primary care unit, health center, district hospital, regional/national hospital,
5. The total and **per capita annual cost of EPHS per state**

Scope of costing -EPHS 2020



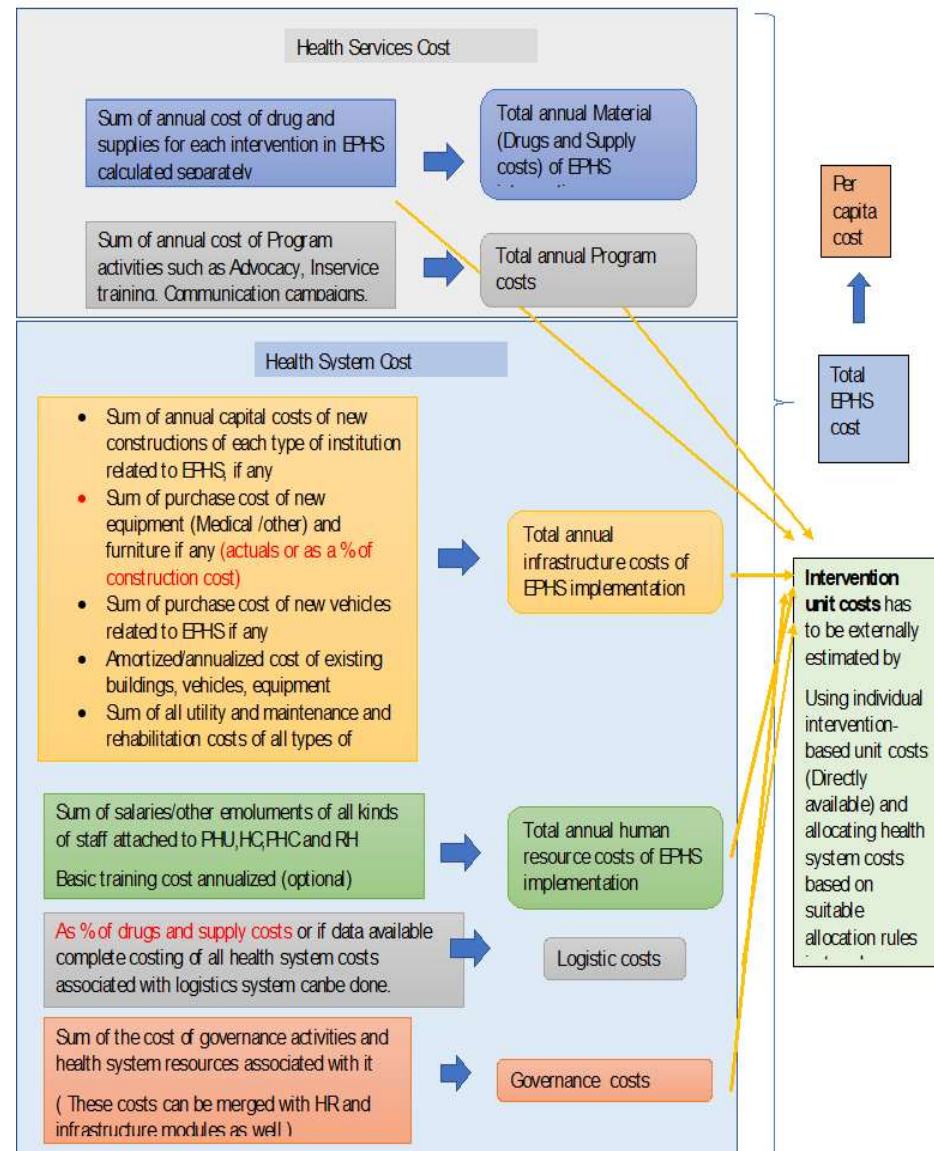
1. The cost of drugs and other supplies required for implementing the EPHS 2020 interventions
2. The capital costs associated with health facilities (these include running cost buildings, equipment, vehicles, furniture, and other items),
 - a. The costs of capital consumption (annualized/amortized) of existing infrastructure
 - b. Costs associated with recurrent expenditures (utilities, maintenance, and repair costs)
3. The cost of employing health staff associated with EPHS activities.
 - a. Administration and management staff
 - b. Service providers
4. Cost of the logistics services associated with the EPHS delivery.
5. Cost of program activities related to EPHS implementation

Cost estimates were based on 1&2 investment scenarios

Cost component	S1	S2
Interventions	All included in the EPHS 2020	All included in the EPHS 2020
Coverages Baseline (2020)	SHDS based, HMIS or 10%	SHDS based, HMIS or 10%
End line 2030	80%	80%
Infrastructure	Existing facilities	PHUs will be increased at 1: 10000 population norm HCs will be increased at 1: 20000 population norm Others will be at existing levels
Transport	An ambulance at RHC A 4 x4 at Regional Health Office	An ambulance at RHC A 4 x4 at Regional Health Office
Human resource	Set at a given facility-based standard (Same in S1)	Set at a given facility-based standard (More in S2 as number of institutions will be increased)
Logistics	Estimated as running costs of Medical Supply Depots plus transport costs of supplies	Estimated as running costs of MSDS plus transport costs of supplies
Program support costs	Cost of awareness, IEC, guideline development training, M & E, etc..	Cost of awareness, IEC, guideline development training, M & E, etc..

Estimation methods

- Costs were estimated using OneHealth Tool (OHT)



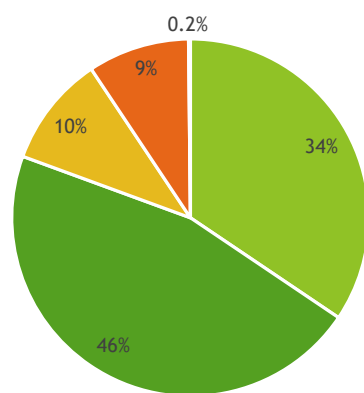
Estimation methods

For each year separately

- ▶ Drugs and supplies cost
 - ▶ Number of patients or recipients of intervention x Unit cost of serving a patient
- ▶ Human resources
 - ▶ Salary x number of staff by category
- ▶ Infrastructure
 - ▶ Quantify x unit cost approach
 - ▶ Rehabilitation costs
 - ▶ Operating costs
 - ▶ Construction costs (only in S2)
- ▶ Logistic cost
 - ▶ Running costs of MSDs
 - ▶ Drug purchase and transport costs as 25% of drug and supply cost
- ▶ Program cost
 - ▶ Quantify x unit cost approach by different types of program activities

Baseline cost

Estimated cost of EPHS 2020 in 2020



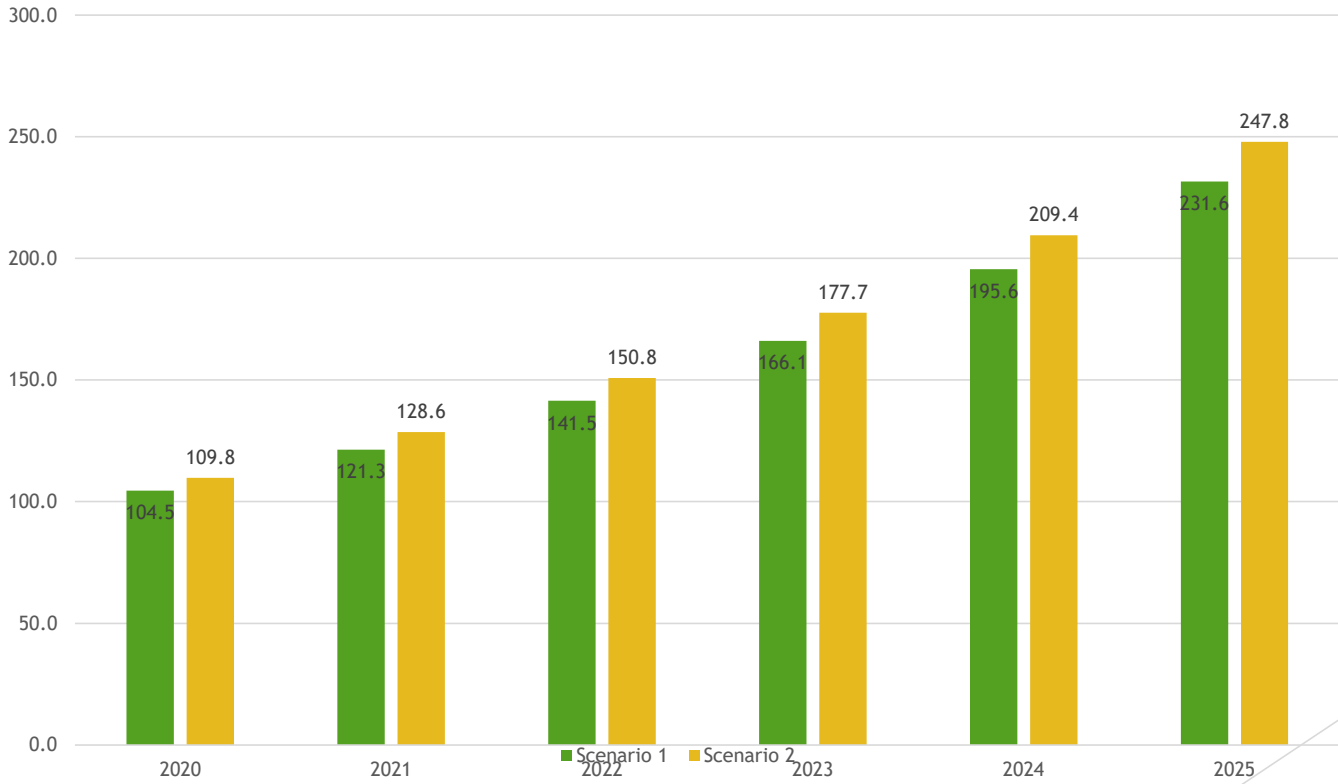
- Medicines and other supplies
- Human resource
- Infrastructure
- Logistics
- Program costs

Total
USD 105 Mn

per capita
7.4 USD

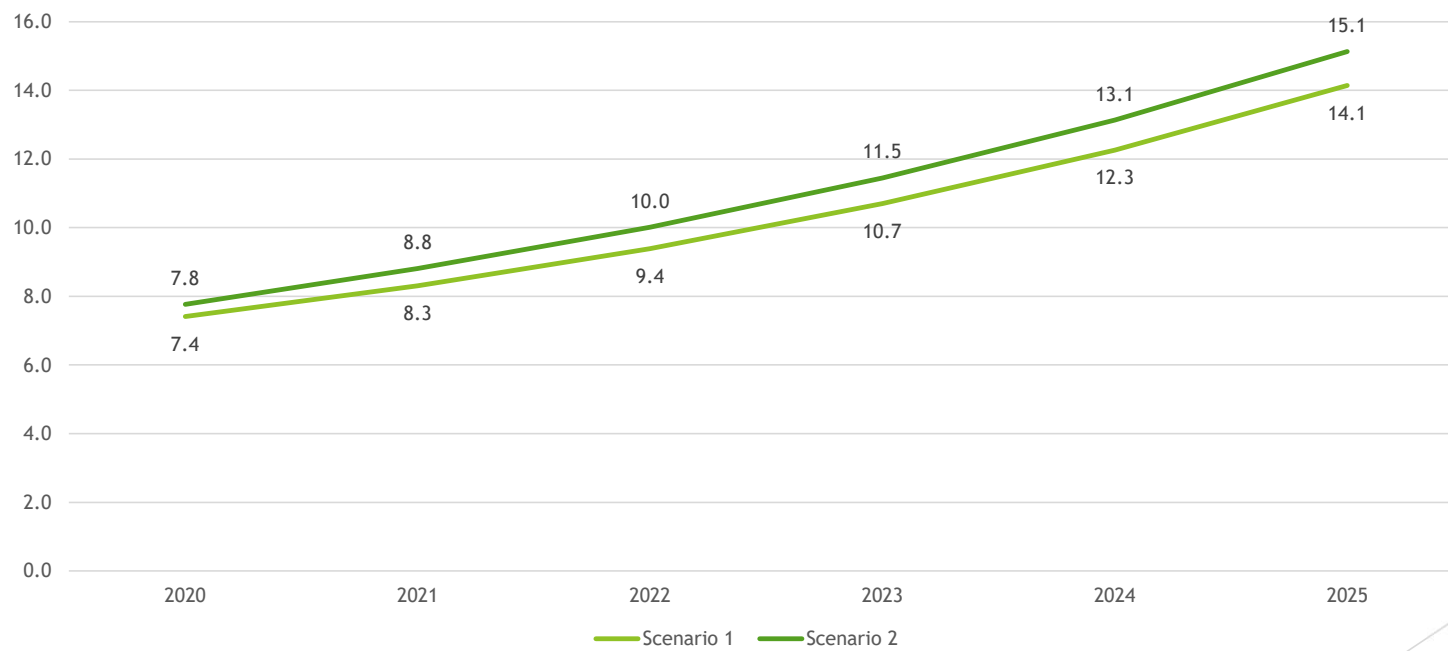
Total costs EPHS 2020

S1 and S2 US\$ Mn

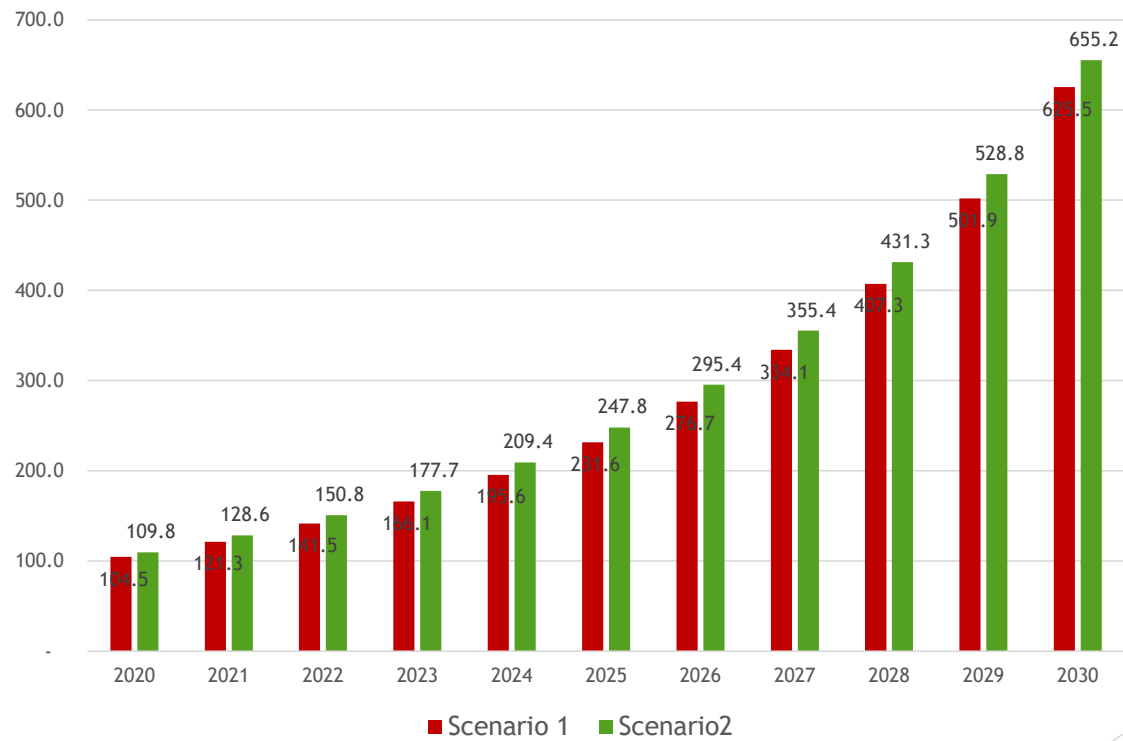


per capita costs EPHS 2020

S1 and S2 US\$

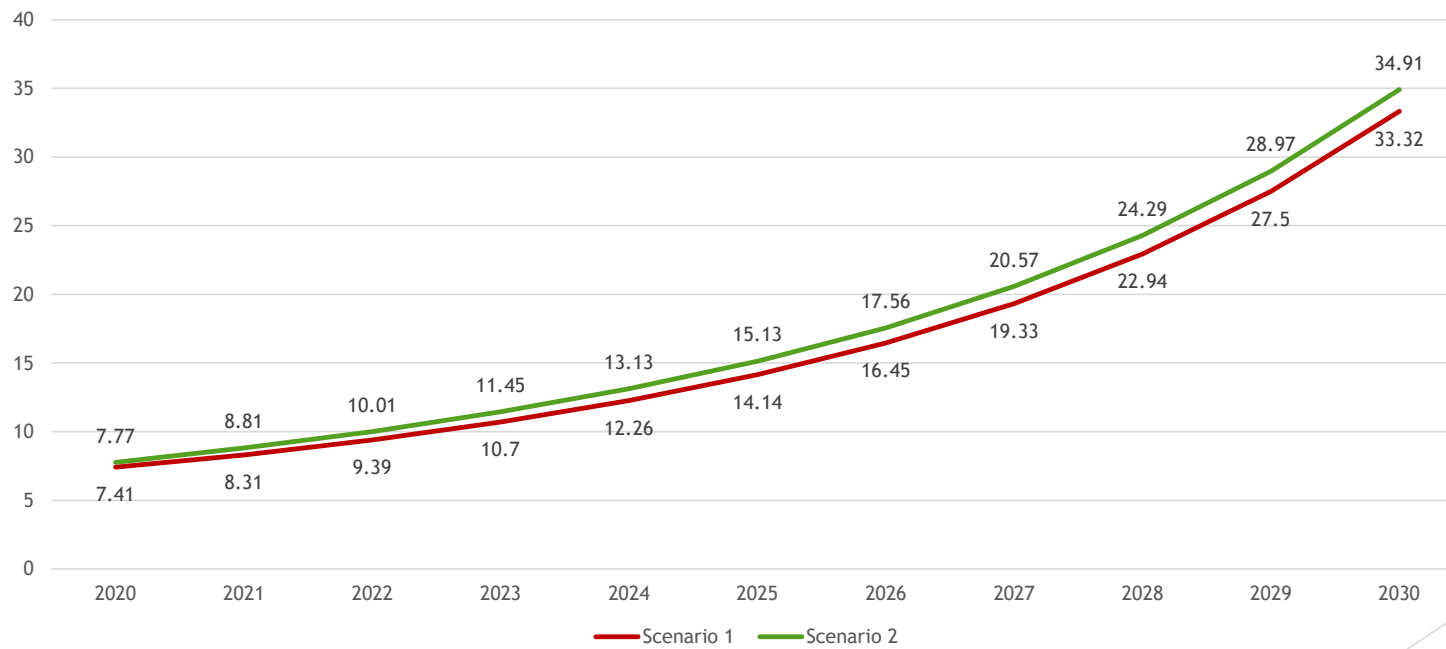


Total costs EPHS 2020 US\$ Mn S1 and S2



per capita costs EPHS 2020 S1 and S2

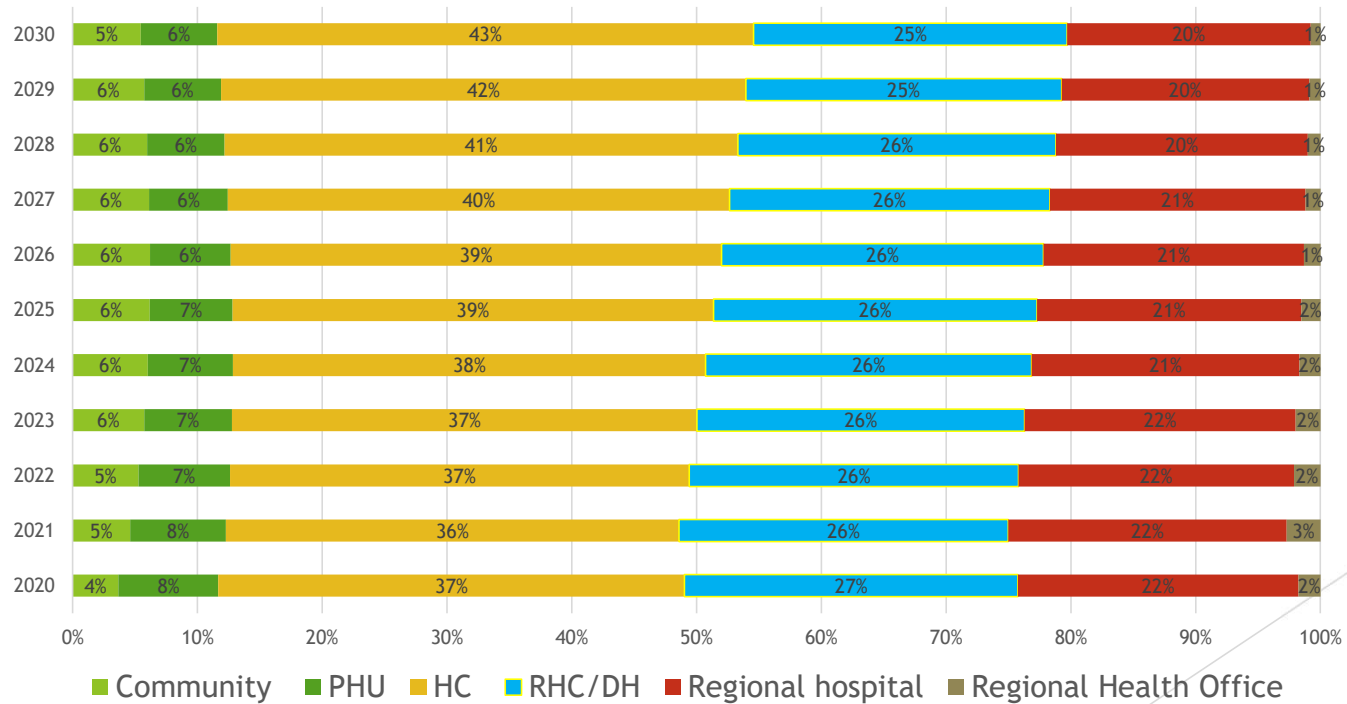
US\$



Intervention costs only - EPHS 2020 (Drugs and supplies costs + Program activity costs)

Scenario	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
	Actual Intervention costs (US\$ Mn)										
Scenario 1	36.2	44.8	55.5	69.5	86.9	109.1	137.9	175.8	225.2	290.3	376.5
Scenario 2	36.2	44.8	55.5	69.5	86.9	109.1	137.9	175.8	225.2	290.3	376.5
	Intervention Per capita cost (US\$)										
Scenario 1	2.6	3.1	3.7	4.5	5.4	6.7	8.2	10.2	12.7	15.9	20.1
Scenario 2	2.6	3.1	3.7	4.5	5.4	6.7	8.2	10.2	12.7	15.9	20.1

Percentage distribution of EPHS costs by delivery channels from 2020 to 2030



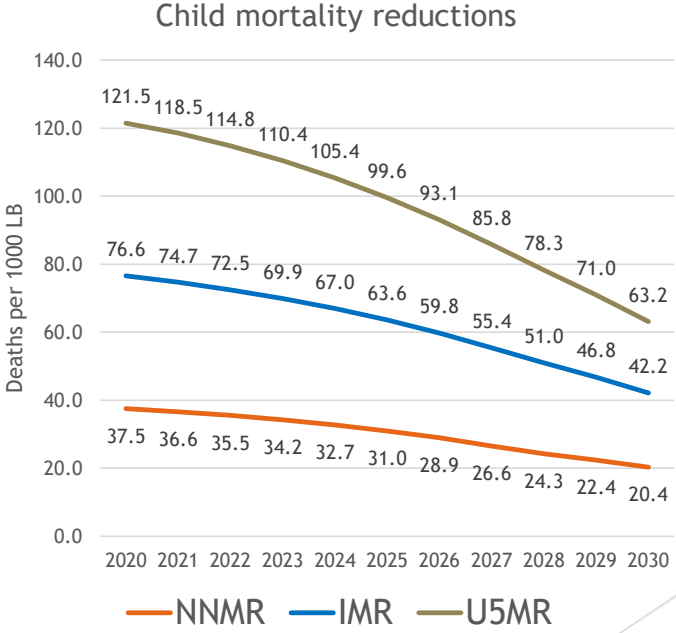
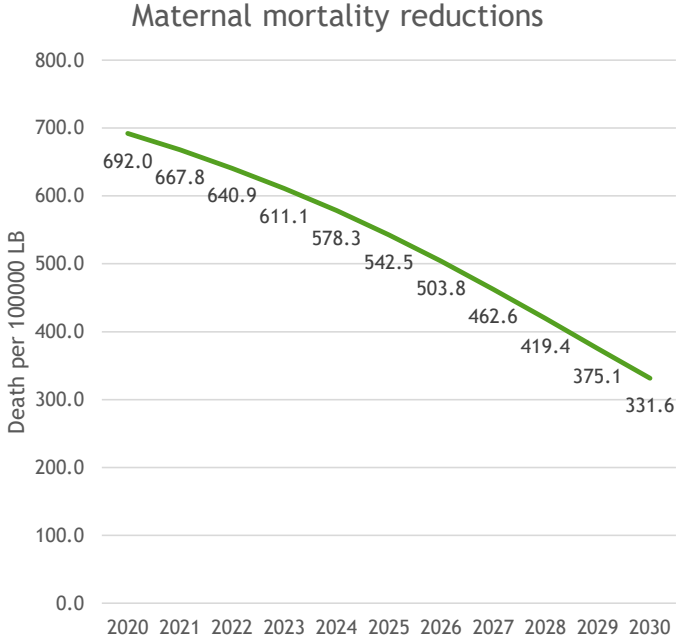
Average annual per-patient visit costs (US\$) of different facilities – S1

Year	Community	PHU	HC	RHC/DH	Regional hospital
2020	0.45	0.42	3.41	4.25	14.39
2021	0.51	0.39	3.09	3.89	13.70
2022	0.53	0.35	2.95	3.64	13.14
2023	0.53	0.33	2.83	3.41	12.62
2024	0.51	0.32	2.73	3.20	12.13
2025	0.49	0.31	2.66	3.02	11.69
2026	0.46	0.32	2.61	2.87	11.10
2027	0.42	0.33	2.57	2.74	10.55
2028	0.39	0.35	2.54	2.62	10.08
2029	0.36	0.39	2.52	2.51	9.69
2030	0.32	0.44	2.51	2.42	9.37
Average over all years	0.40	0.37	2.63	2.81	10.78

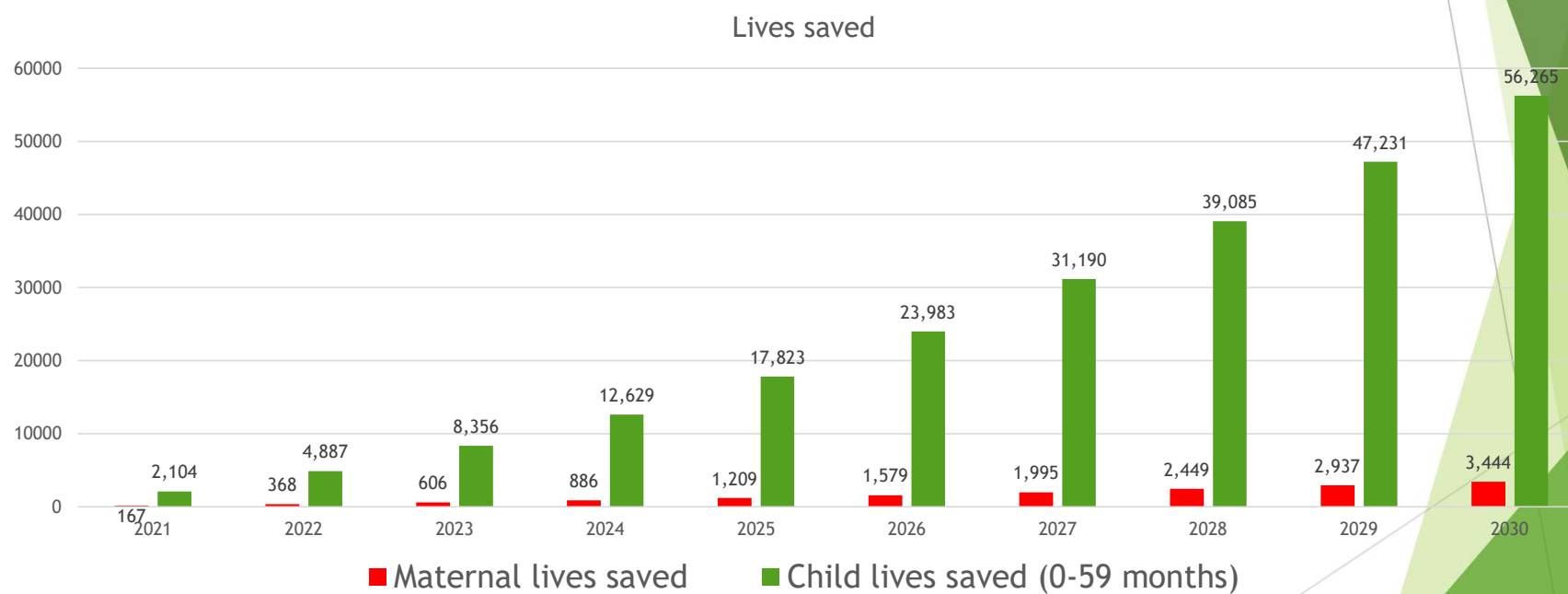
Projected health outcomes and Impact of the
package when implemented



Impact Mortality reductions

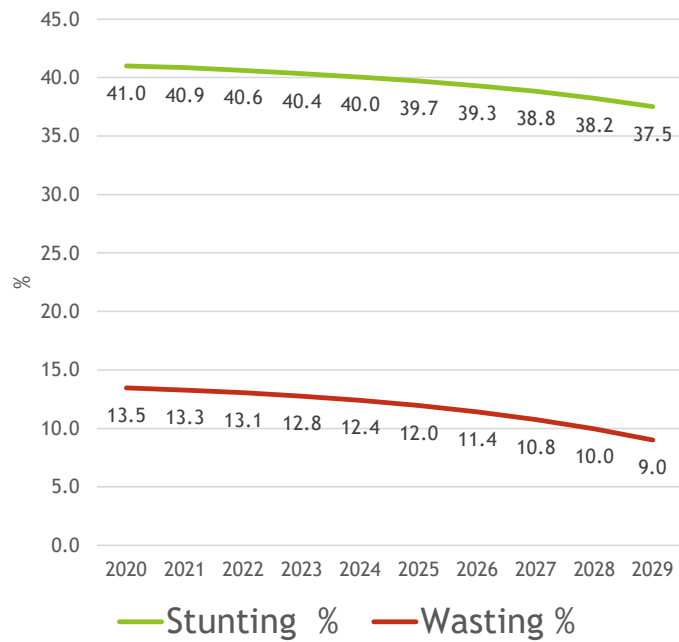


Maternal and child lives saved

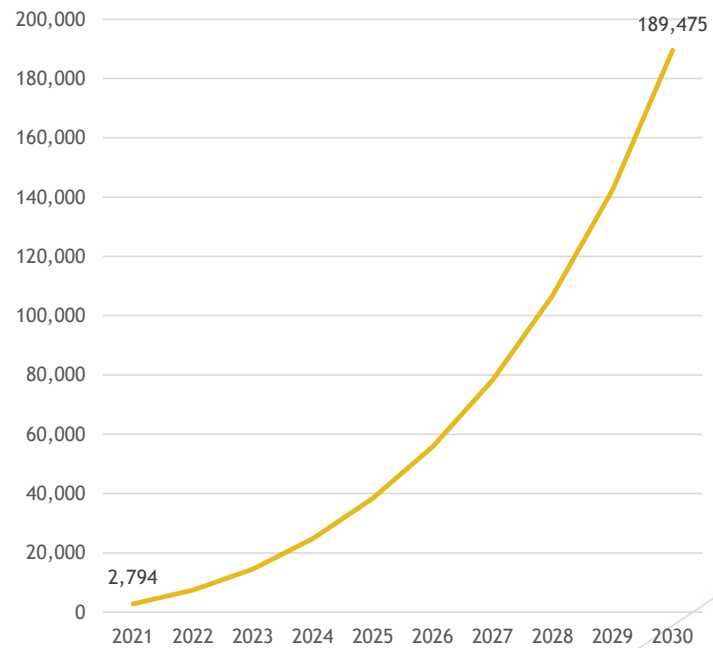


Nutrition impacts

Wasting and stunting reductions

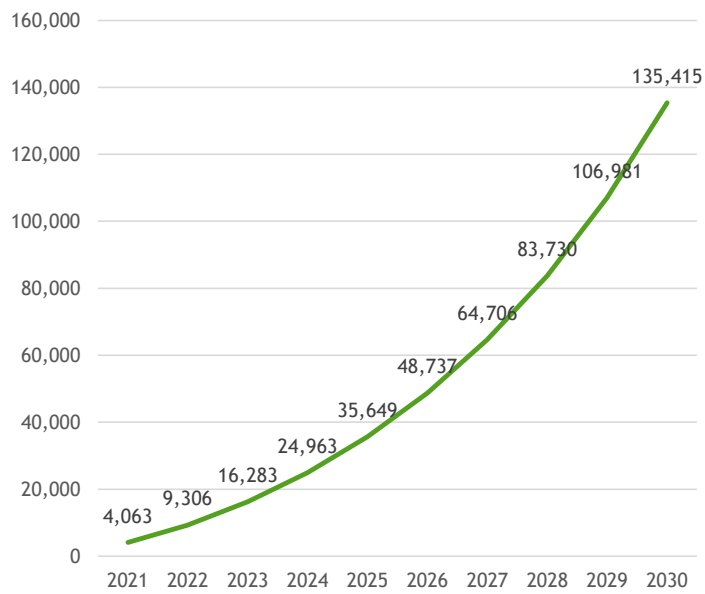


Number of stunting cases averted

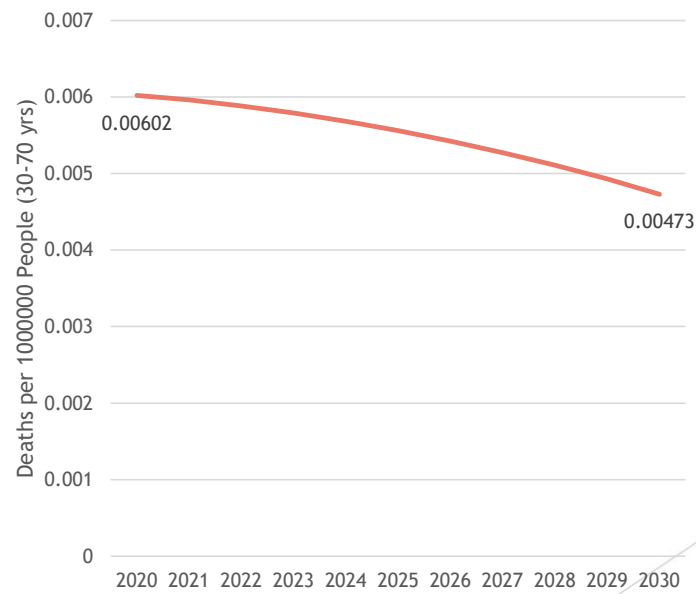


NCD impacts

Increase of healthy live years among NCD patients



Probability of dying from an NCD among ages 30-70



THANK YOU

