

ONE HEALTH TOOL: Overview and Applications for Strategic Planning and Costing

A tool by the UN Inter-Agency Working Group on Costing

**UN Inter-Agency Working Group on Costing (IAWG-COSTING) includes the
following agencies:**

WHO, UNICEF, WB, UNAIDS, UNFPA, UNDP, UNWOMEN

OneHealth Tool Background

What is the OneHealth Tool?

- A tool for medium term strategic health planning (3-10 yrs) at national level though the tool can be adapted for sub-national applications
- A software that incorporates UN epidemiology impact models to demonstrate the achievable health gains. Development guided by the InterAgency Working Group on Costing and performed by the Futures Institute. Incorporates already established models and best practices from other tools .
- Allows users to develop estimates for costs and impacts of targeted programs, of health system sectors (i.e. Human Resource planning) or a strategic plan for an entire health system.
- Not limited to MDGs. Includes sections for some NCDs and currently adding Occupational Health.

Pre existing tools incorporated in OHT

Outil	Partie spécifique intégré dans OHT
MBB	Bottleneck analysis; Financial space analysis; budget mapping
WHO (Stop TB)	Planning for TB
WHO (iHTP)	Detailed list of interventions and inputs for reproductive health, maternal health and neonatal health, néonatale et infantile (personnel time, drugs and consumables)
LiST (Lives Saved Tool)	Impacts for maternal/neonatal and reproductive health
Resource Needs Model	Coûts pour les interventions contre le VIH et le SIDA
AIM	Impacts of HIV/AIDS interventions
WHO (Child Health Costing tool)	Costing for child health interventions
FamPlan	Impacts of family planning interventions
UNFPA RH Costing Tool	Intervention costs for reproductive health

Type of outputs (results) produced

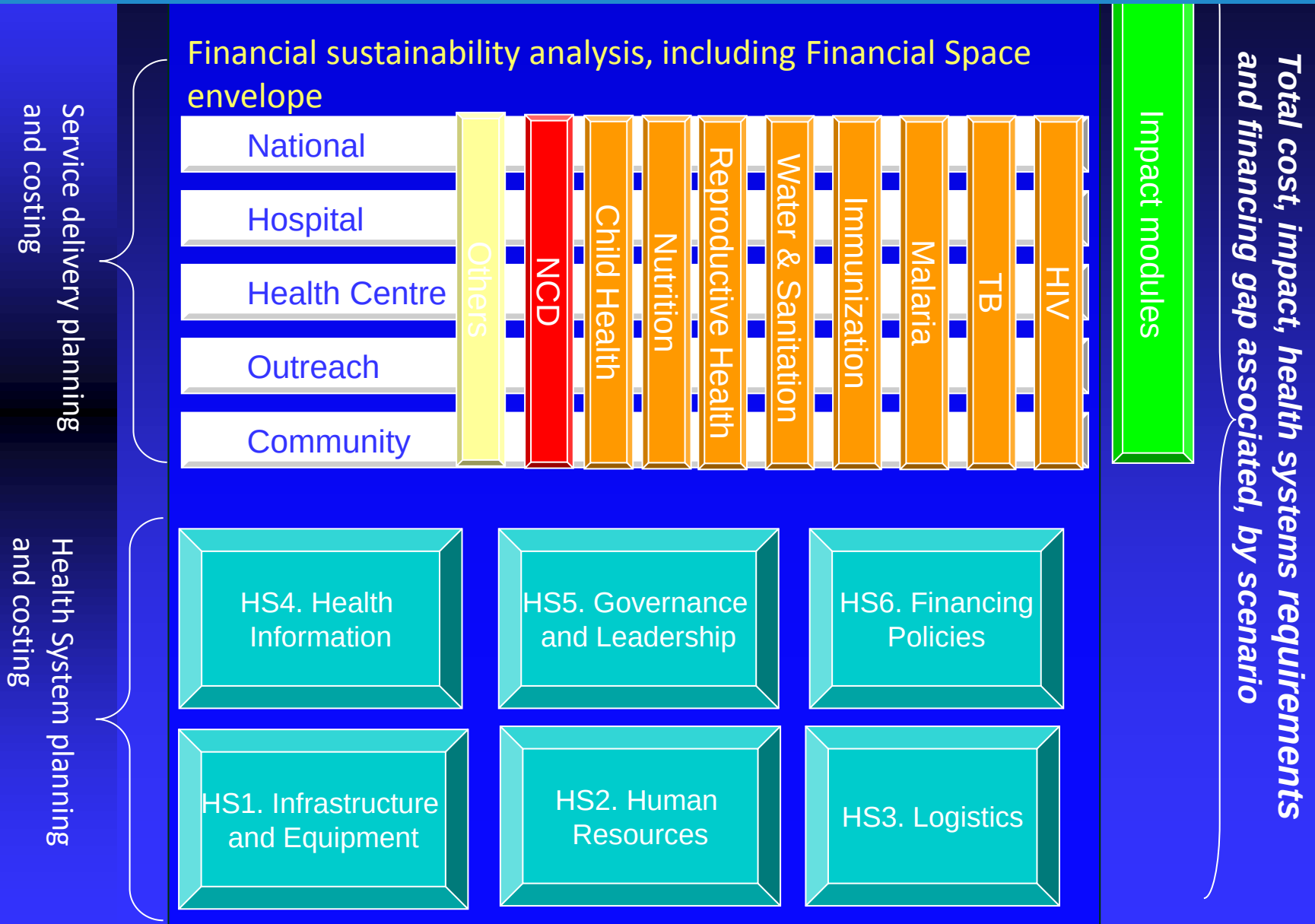
1. **Health impact:** what will be my U5MR in 2020? Do I expect to reach my MDG targets by 2015?
2. **Health Systems investments and service outputs:**
 - ◆ Required investments in the Supply Chain
 - ◆ Total & additional bed days and outpatient visits; requirements for hospitals, facilities and community services
 - ◆ Human resource requirements
3. **Costs:** Costs by year, by programme, by inputs, etc.
4. **Financial space and expected shortfall**
5. **Scenarios:** how different are the costs and impact for alternative scenarios of packages, targets and activities?

Tool applications and future plans

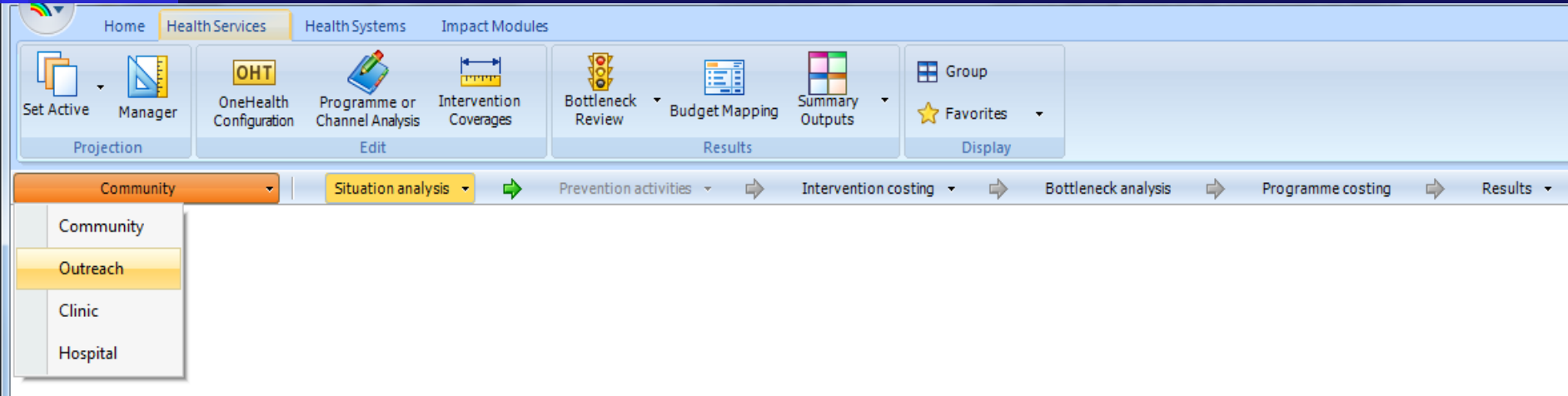
1. **Quality Testing:** The tool successfully completed a detailed quality control test conducted by the IAWG involving over 500 tests of functionality, accuracy, etc. Some widely applied modules (e.g., LiST, FamPlan) have been subject to considerable review, testing & documentation. Other modules: experts invited to review e.g., TB impact module; HRH module;
2. **Country use:** The tool has been applied in numerous countries including Ethiopia, Burkina Faso and Lao PDR. National or subnational Applications are planned or underway in 25 countries including Morocco, Sudan, DRC, Kenya, Paraguay, Tajikistan and Turkmenistan.
3. **Workshops:** Tool has been introduced in numerous workshops including Africa, Asia, Caribbean, Arab States, LA, UN headquarters and some donors. Reaction has been positive with users pleased with the applicability to strategic planning, ease of use, and clarity of methodology.
4. **Funding:** Funding has been secured for implementation of some NCD features including cervical cancer as well as support for some of the workshops/training.

Model Structure

General structure of OneHealth Tool



Using a delivery channel approach



Using a programmatic approach



The screenshot displays the 'Health Services' tab in a software application. The interface is organized into several functional areas:

- Navigation Tabs:** Home, Health Services (selected), Health Systems, and Impact Modules.
- Toolbars:**
 - Projection:** Set Active, Manager.
 - Edit:** OHT (OneHealth Configuration), Programme or Channel Analysis, Intervention Coverages.
 - Results:** Bottleneck Review, Budget Mapping, Summary Outputs.
 - Display:** Group, Favorites.
- Workflow Bar:** A sequence of steps connected by arrows: Maternal/newborn and reprod... (selected), Situation analysis, Prevention activities, Intervention costing, Bottleneck analysis, Programme costing, and Results.
- Left Panel (Category List):**
 - Maternal/newborn and reproductive health
 - Child health
 - Immunization
 - Malaria
 - TB** (highlighted)
 - HIV/AIDS
 - Nutrition
 - WASH
 - Non-communicable diseases

Intervention costing: flexibility for national context

Detailed information for drugs/consumables, human resources and utilisation of infrastructure – for each service delivery level.

Average commodity costs per case in US\$

	Community	Outreach	Clinic	Hospital
Nutrition				
Folic acid supplementation or fortification	0.90	0.90		
Calcium supplementation				
Breastfeeding promotion	0.00	0.00		
Complementary feeding--education only	0.00	0.00		
Multiple micronutrient supplementation		2.40		
Therapeutic feeding				



Drugs, Supplies, and Human Resources Required

Folic acid supplementation or fortification, Community level

Drugs and supplies

Drug/Supply	Percent receiving	Number	Times per day	Days per case	Units per case	Unit cost (\$)	Cost per average case (\$)
Folic acid, tablet, 5mg	100	1.0	1	90	90	0.01	0.90
Total drugs and supplies							0.90

Staff

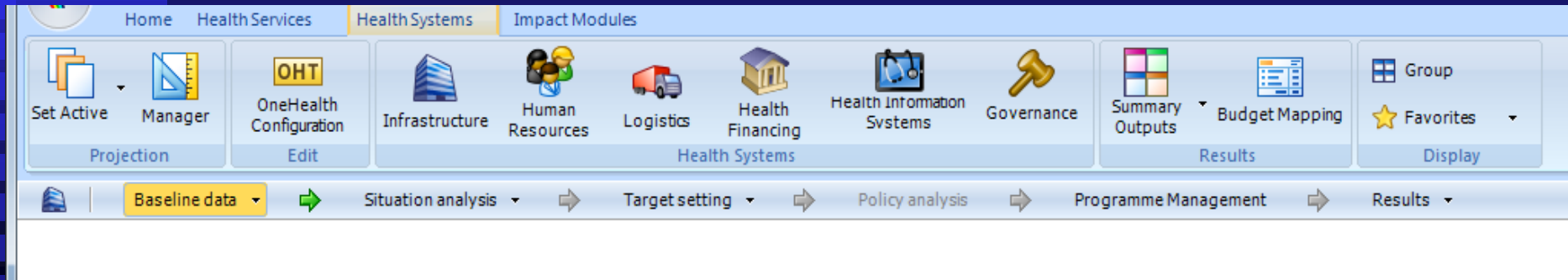
	Percent treated by	Minutes	Number of days	Total minutes
Community Health Workers	50	5	3	15
Midwives	25	9	3	27
Midwives	25	5	3	15

Number of outpatient visits and hospital days per average case

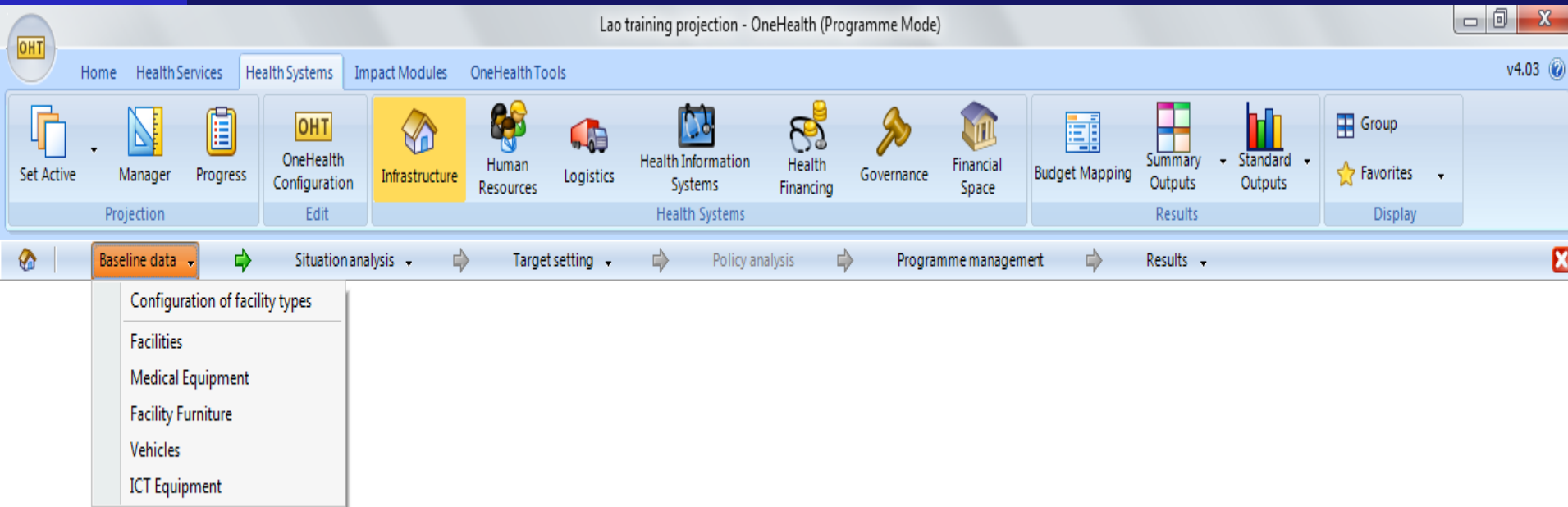
Visits	1
Hospital days	0

Ok Cancel

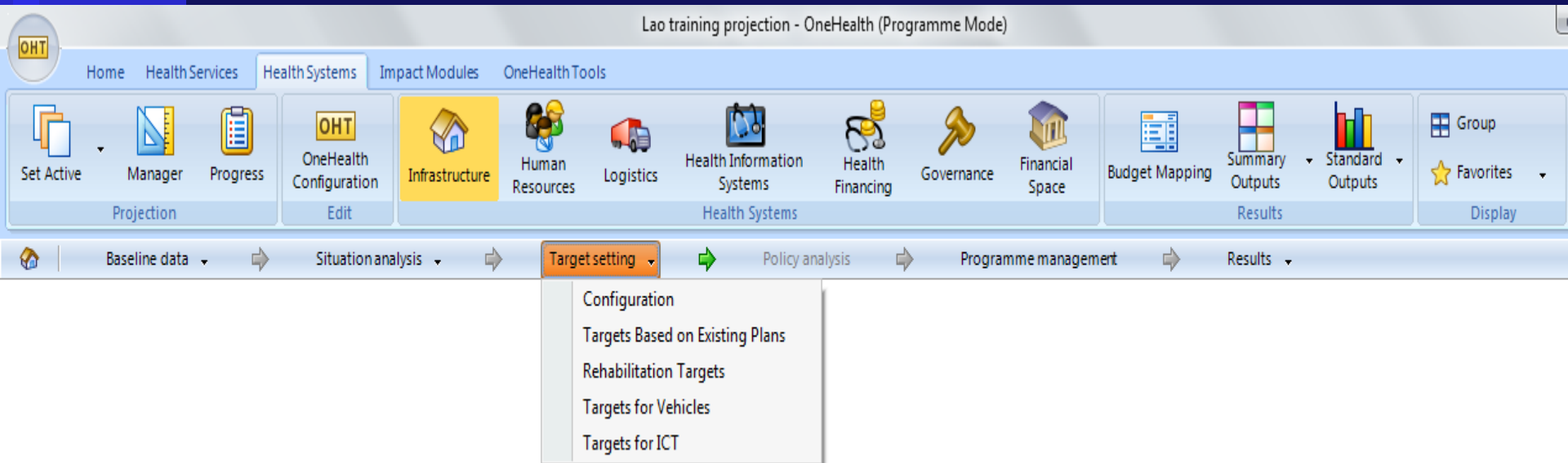
Health system components



Health System Example: Baseline



Health System Example: Target Setting



Health System Example: Programme Management

Programme management - Infrastructure

Programme management - Infrastructure

Programme Area	2010	2011	2012	2013	
1. Programme-Specific Human Resources	0	0	0	0	
1.1 National-Level Staff	0	0	0	0	
1.2 Regional-Level Staff	0	0	0	0	
1.3 District-Level Staff	0	0	0	0	
2. Training	0	0	0	0	
2.1 In-service / Refresher Training	0	0	0	0	
2.2 Training of Trainers	0	0	0	0	
2.3 Development of Training Programmes and Material	0	0	0	0	
2.4 Support Activities	0	0	0	0	
3. Supervision	0	0	0	0	
3.1 Coordination Meetings	0	0	0	0	
3.2 Supervision Visits	0	0	0	0	
4. General Programme Management	0	0	0	0	
4.1 Design and Review of Country Strategy	0	0	0	0	
4.2 Development and Review of Annual Work Plan	0	0	0	0	
4.3 Development/Review of Human Resource Plan	0	0	0	0	
4.4 Situation Analysis	0	0	0	0	
5. Other Costs	0	0	0	0	
5.1 Double Click to Add Other Items	0	0	0	0	
6. Blood safety	0	702,000	756,000	810,000	83
6.1 Coverage	0	0	0	0	

Double-click on a row for detail costing

Ok Cancel Bottleneck Analysis Reminder

Health System Example: Results

Lao training projection - OneHealth (Programme Mode)

Home Health Services Health Systems Impact Modules OneHealth Tools

Set Active Manager Progress Projection

OneHealth Configuration Edit

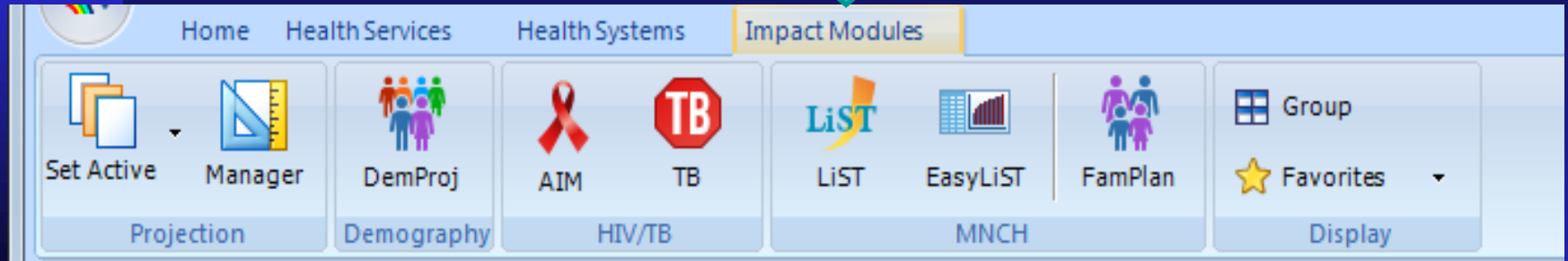
Infrastructure Human Resources Logistics Health Information Systems Health Financing Governance Financial Space

Budget Mapping Summary Outputs Standard Outputs Results Group Favorites Display

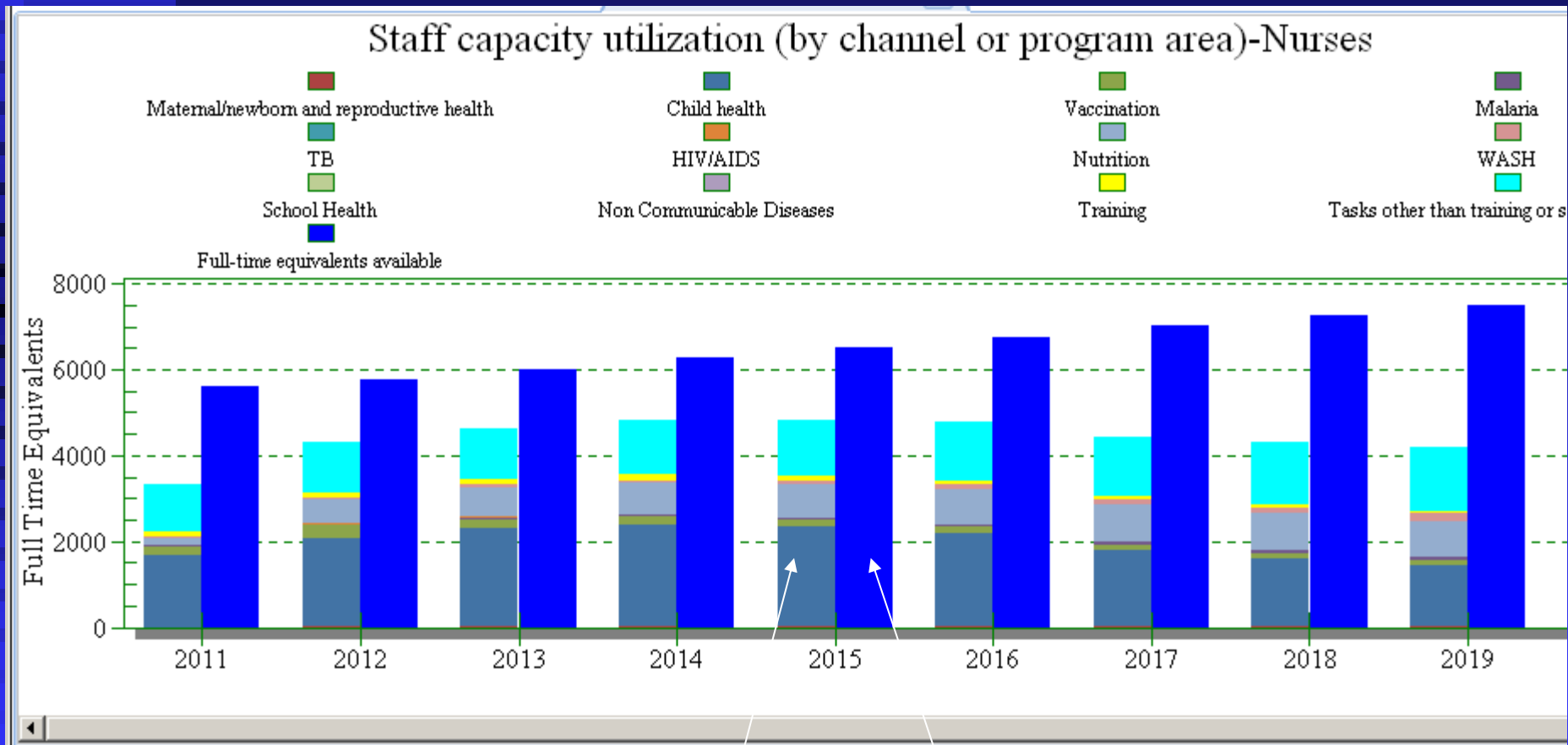
Baseline data Situation analysis Target setting Policy analysis Programme management Results

- Infrastructures summary
- Bed day capacity and use
- Number of Facilities ▶
- Vehicle summary
- Communication equipment summary
- Building and equipping facilities ▶
- Rehabilitation costs
- Vehicle purchases
- Communication equipment purchase
- Facility Operating Costs ▶
- Vehicle and ICT operating costs ▶
- Programme Management

Impact modules project the outcomes for the scenario

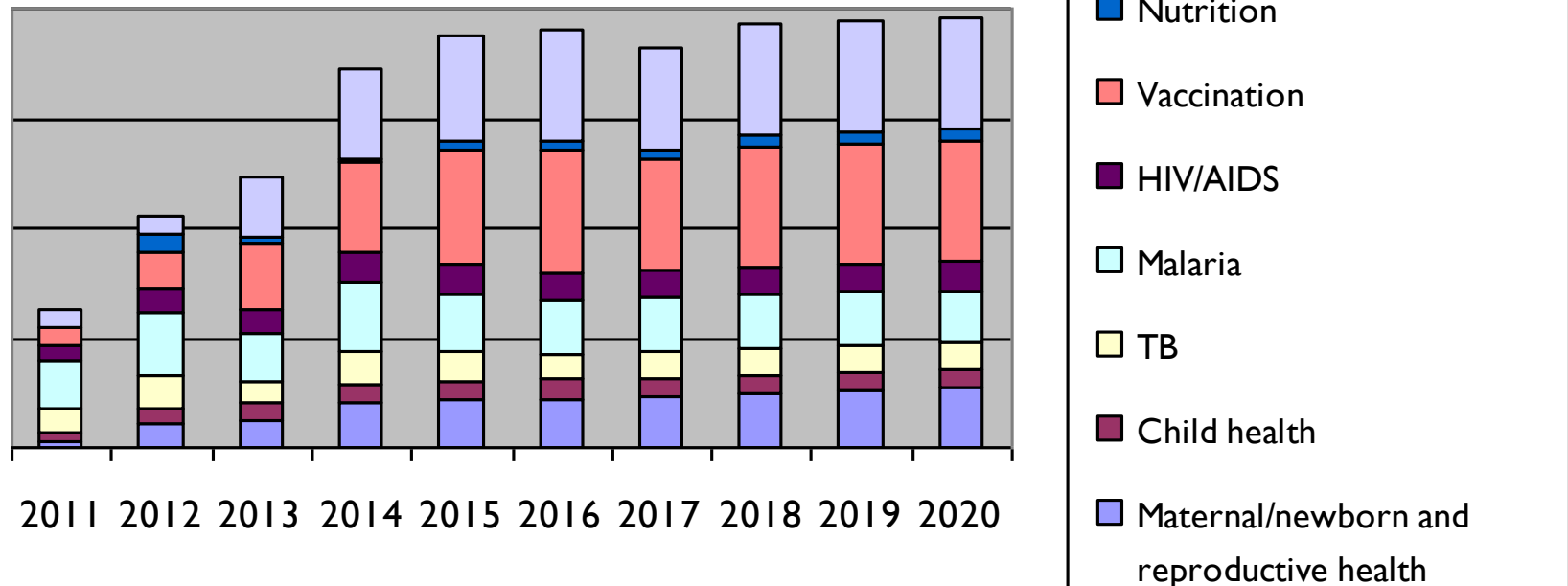


OneHealth: shows Health Systems implications of programme targets



Programme Planning & Health Systems implications:

**Volume of commodities transported in Logistics system,
% share by programme**



Budgeting and Financial Space

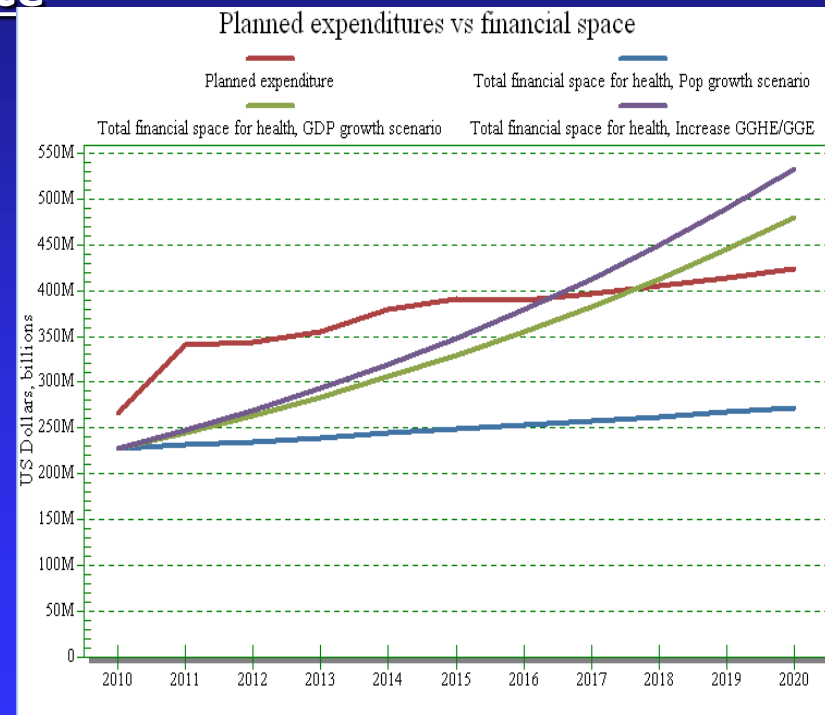
1. Budget mapping

Allows the user to translate the cost findings to fit the MoH Chart of Accounts and Budget Classification Codes, thus facilitate budgeting at national level.

2. Financial projections and financial space

Models the financial projections under different financial space scenarios

Links with NHA data and takes into account economic and financial parameters, including: *GDP growth, share of GDP spent by public sector on health, donor expenditures on health, out-of-pocket health expenditures, etc.*



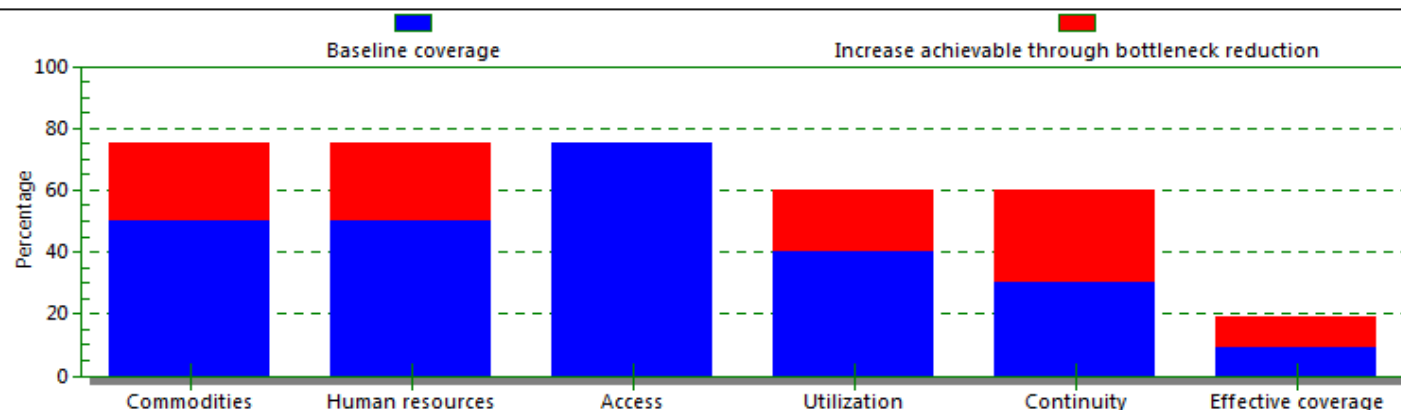
Bottleneck Analysis for Strategic Planning

Bottleneck Analysis - Maternal/newborn and reproductive health - Lao training projection

Change tracer intervention

Delivery channel: Community Tracer intervention: Pill

	Indicator (double-click cell below to enter text)	Baseline coverage (%)	Plausible causes for bottleneck (double-click cell below to enter text)	Strategies to overcome bottlenecks (double-click cell below to enter text)	Expected bottleneck reduction (%)	Total bottleneck reduction (%)	Calculated frontier coverage based on bottleneck reductions (%)
Commodities	% of villages without any interruption in stock of contraceptives for the last 6 months	50		Improve last mile	50	50	75
					0		
					0		
					0		
Human resources	Availability of trained auxiliary/assistant nurse/midwives that meets national per	50		Hire more staff.	50	50	75
					0		
					0		
					0		
Access	% population with access to facility based	75			0	0	75
					0		

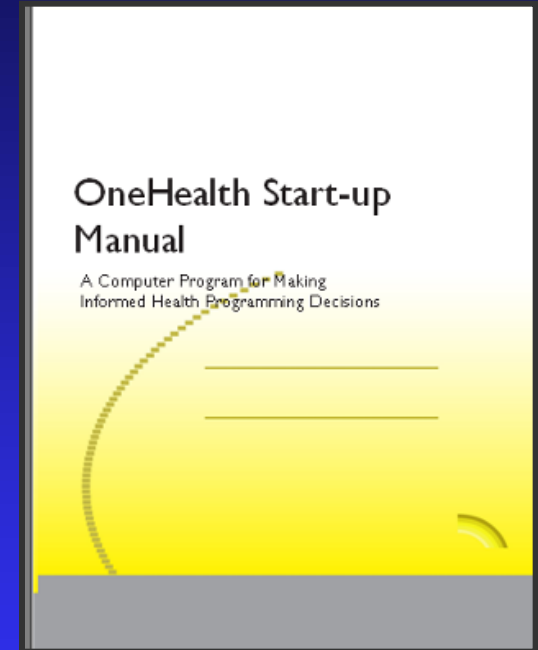


Availability of Default data in the tool

- **Baseline situation analysis**: Epidemiology, Demography, current coverage, and some HSS.
- **Intervention standards**: drug and supply cost per average case (based on WHO treatment guidelines + international drug prices from UNICEF, MSH and IDA) + estimated personnel type & time required.
- **Disease Programme activity standards**: e.g., specific training courses; surveys; specific equipment, etc.
- **Standardised activities for health system strengthening**: Activities for Logistics, Governance, etc.
- **Prices**: from WHO-CHOICE database, WHO, MSH, UNICEF
- **Expenditures & GDP growth**: WHO/NHA database, IMF

OHT Resources

- Internet site :
<http://www.internationalhealthpartnership.net/en/tools/one-health-tool/>
- User's Guide
- Help screens with the tool
- Useful links
 - <https://m.youtube.com/watch?v=l9ix5oZ6ETk>
 - <https://m.youtube.com/watch?v=t1chFnEH9nI>



Other countries

Sector wide national planning and costing:

- Angola PND
- Benin (3 year plan)
- Botswana EPHS
- Burkina Faso triennial health plan 2011-2013
- Cap Vert national health plan
- DRC national health plan
- Kenya national health plan
- Liberia (National Health and Social Welfare Plan of Liberia (2011-2021)
- Mozambique national health plan 2013-2017
- Senegal national investment plan
- Sudan National Health Sector Strategy Plan 2012-2016
- South Africa: Gauteng and KZN provinces
- Lesotho –July 2013
- Malawi national health plan

Specific programme focus

- Ethiopia (reproductive health focus)
- Lesotho (MNH)
- Morocco (Plan d'action d'accélération de la mortalité maternelle et infantile pour la période 2012-2016)
- Nigeria strategic malaria plan 2014-2020.
- Nigeria HIV/AIDS response
- Paraguay (National Comprehensive Condom Program)
- Papua New Guinea (National plan for Child, Maternal and Newborn health)
- Rwanda - National HIV/AIDS Strategic Plan
- Sri Lanka (National and sub-national MCH and Nutrition plan)
- Tajikistan (initial MNH focus)
- Turkmenistan (National Safe Motherhood program 2013-2017)
- Zambia (March 2013) – malaria and child health
- Viet Nam RMNCH plan
- Mongolia

Key Messages: OneHealth Tool

Key Messages OneHealth

- OneHealth may be considered a combination of, and a further development of existing tools, including the WHO-CHOICE costing tools, MBB, LiST, FamPlan, AIM, etc.
- OneHealth facilitates integrated planning. *Health system building blocks* strategic planning provides the overall frame within which the scale-up of *health services* can occur.
- Accountability and transparency. The experts/budget holders do their own planning. But they should know what is happening in the other modules.
- Tool has been introduced in workshops and applied in both desk reviews, full implementations and as a research tool in peer-review publications like The Lancet.
- Based on country requests, there will be significantly more applications, workshops, and continued enhancement of tool functionality are planned for 2014 and beyond

Thank you