# Overview of Supply Chain of Anti-TB Medicines

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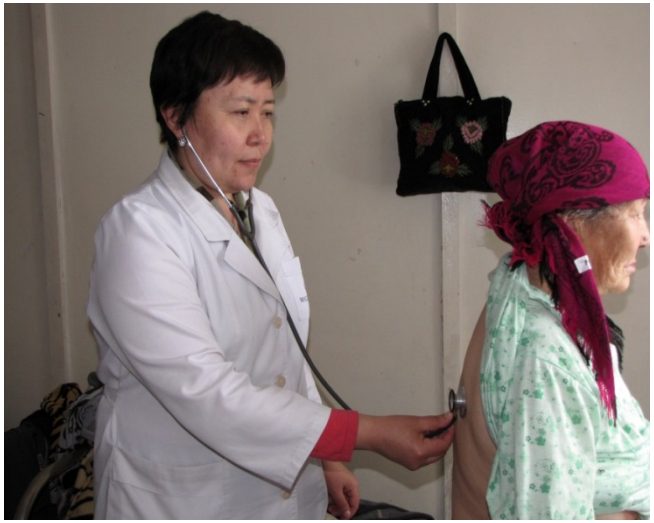
World Health Organization REGIONAL OFFICE FOR Europe

Stop TB Partnership

# Improved *Access*. Improved *Services*.



**Better**
***Health Outcomes.***

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Source: http://www.geekyboy.com

# Is SCM important?

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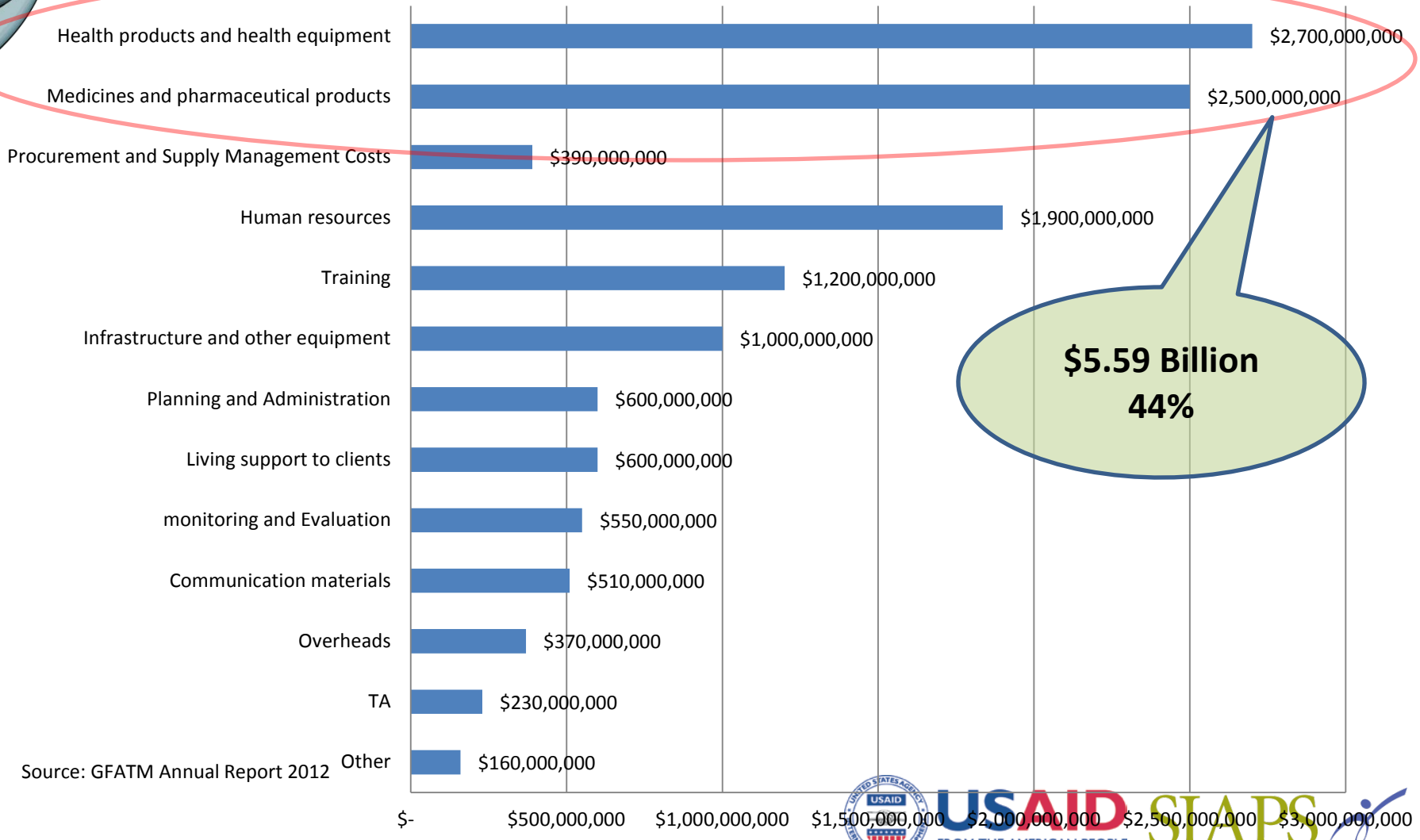
# High Budgetary Impact: Global Fund Expenditures—2012




Source: GFATM Annual Report 2012

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# Health Care System

stock-outs
counterfeit theft storage
Development-Partners obsolete
human-resources transport
sub-standard
Governance expired Donors

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# Treatment Outcomes

As tuberculosis progresses, patients suffer drastic weight loss
*Credit: WHO/Jean Chung* http://www.pbs.org/newshour/multimedia/tb/15.html

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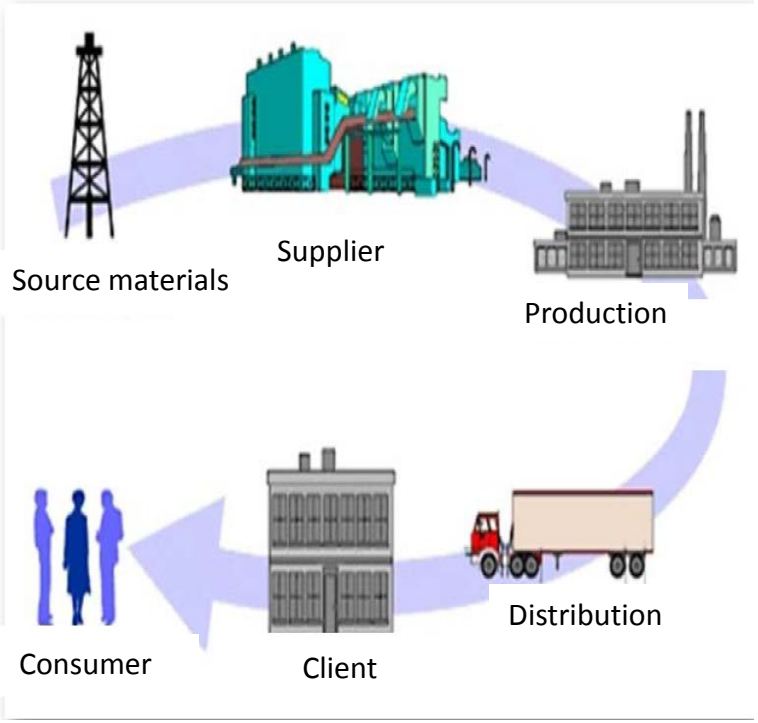
# Supply Chain Management (SCM) Defined

- Encompasses the planning and management of all activities involved in sourcing and procurement, conversion, and all logistics management activities

- Is an integrating function with primary responsibility for linking major business functions and business processes within and across companies into a cohesive and high-performing business model




Source: Council of Supply Chain Management Professionals (CSCMP)

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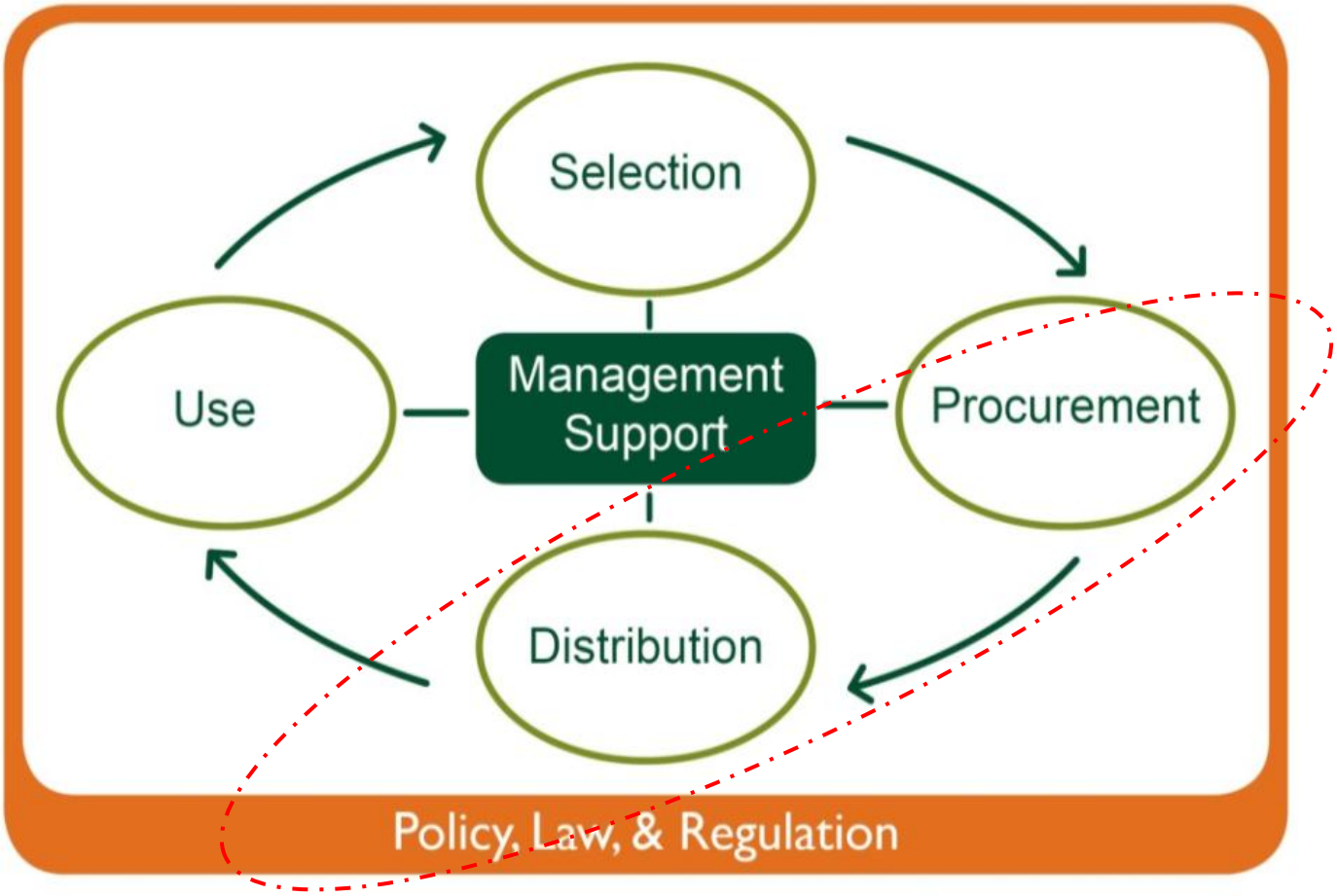
# The Pharmaceutical Management Framework




Source: MSH/CPM

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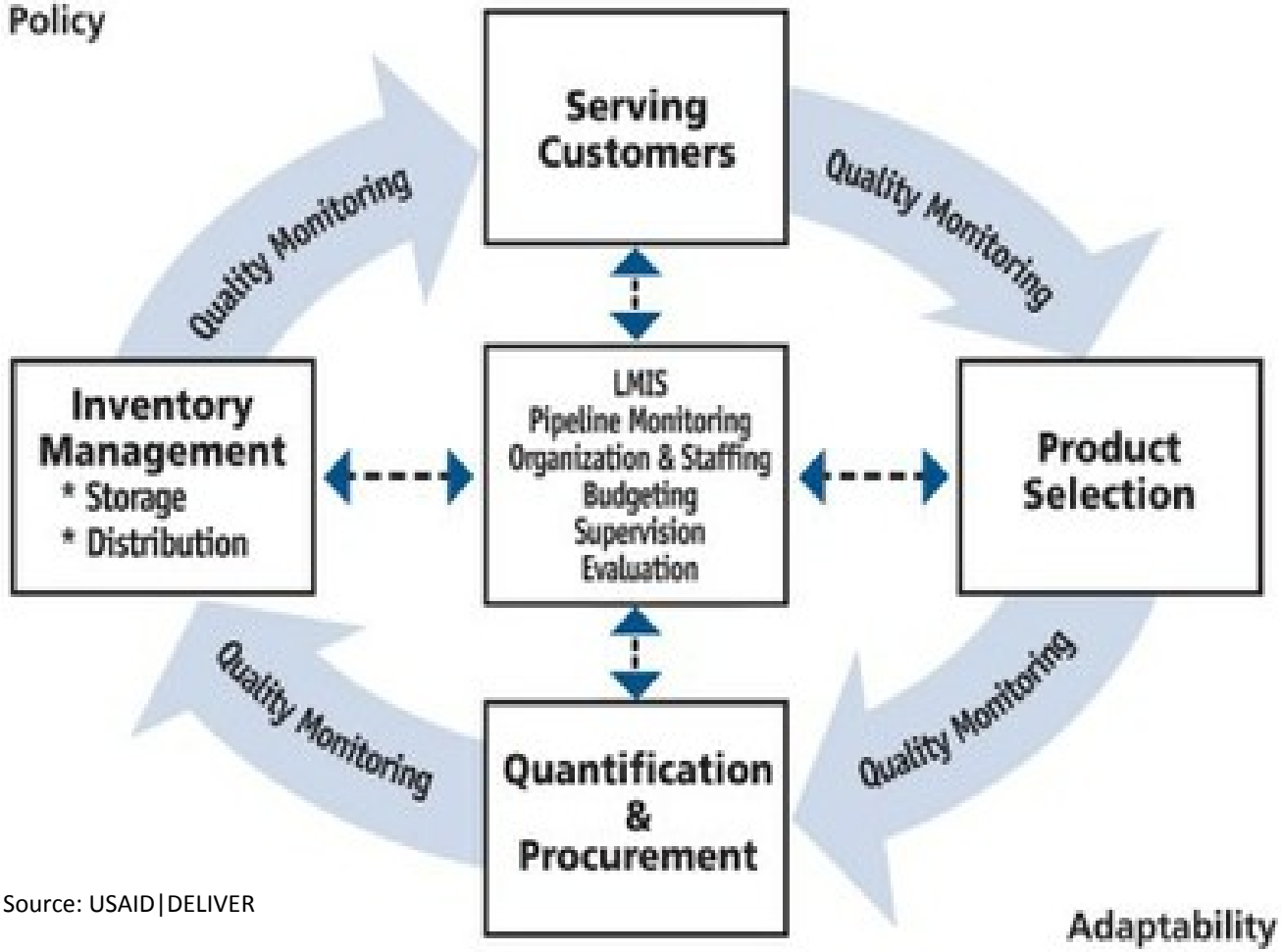
# Logistics Cycle




Source: USAID|DELIVER

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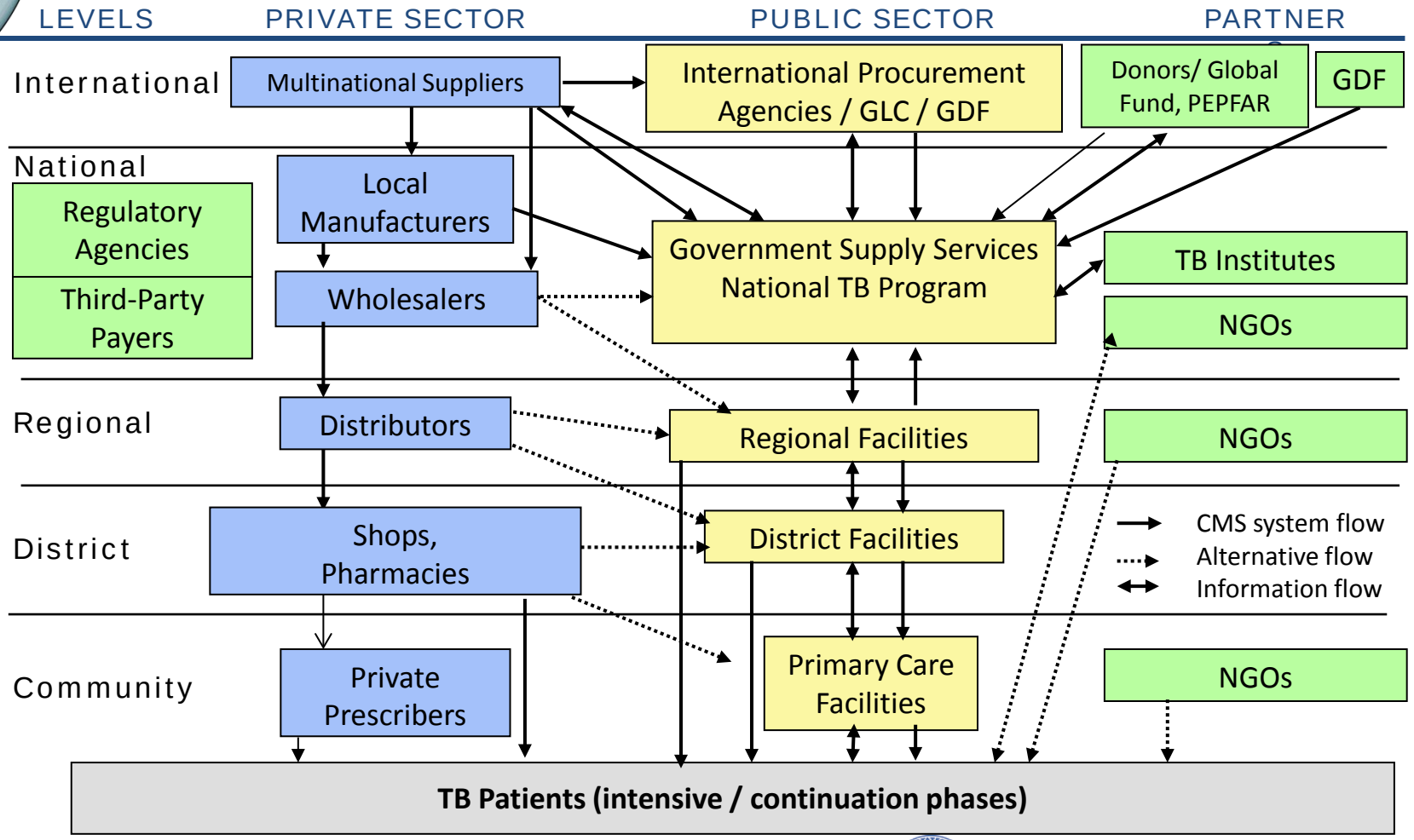
# National TB Supply Chains: Multiple Players – Multiple levels

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# Supply Chain Functions

Forecasting and Supply Planning

Procurement

Warehousing and Inventory Control

Distribution and Transportation

Information Management

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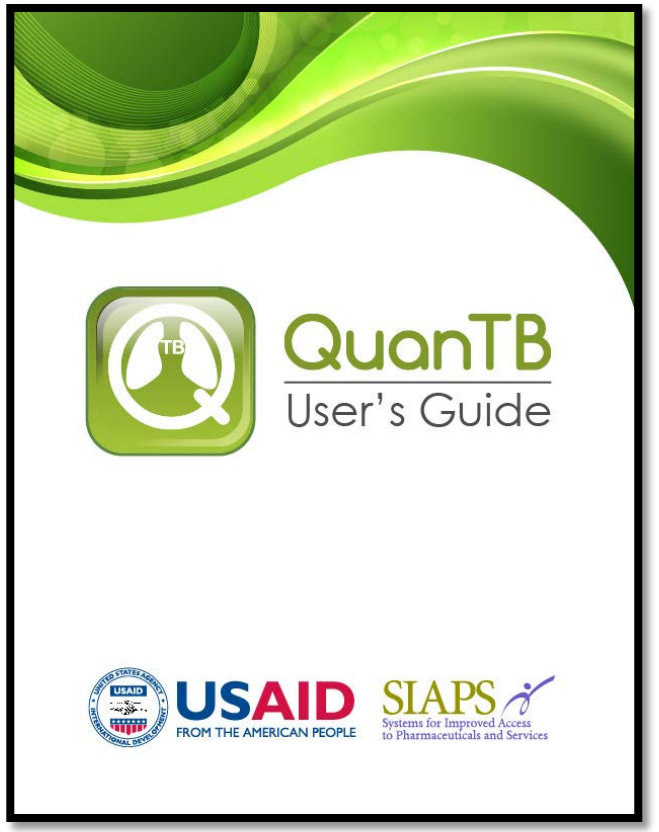
# Issues in Quantification of Anti-TB Medicines

- Changes in the recommended regimens
  - Updates in international recommendations and national standard treatment guidelines
- New medicines and novel treatment regimens in the pipeline
- Expansion of MDR-TB treatment
- Lack of appropriate tools for quantification of anti-TB medicines
- Relatively short shelf life for second-line drugs (SLD)
- Quality of information for quantification
  - e.g., stock on hand, pipeline, consumption, treatment regimens distribution data

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# Issues in Procurement of Anti-TB Medicines

- Global mechanisms for procurement of anti-TB medicines (Global Fund, Global Drug Facility)
- Internationally quality assured anti-TB medicines not always available on local markets
  - Not registered, domestic preferences, etc.
- Fixed-dose-combination (FDC) and pediatric anti-TB medicines rarely available on the local markets
- Financial constrains—SLDs are still expensive
- Dependence on donors for procurement of anti-TB medicines leads to concerns about sustainability

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# Issues in Distribution of Anti-TB Medicines

- Distribution system for anti-TB medicines often parallel and isolated from the general distribution system
- Insufficient budgets and funding for supply chain management

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# Adequate Infrastructure and MHE

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# Poor Storage

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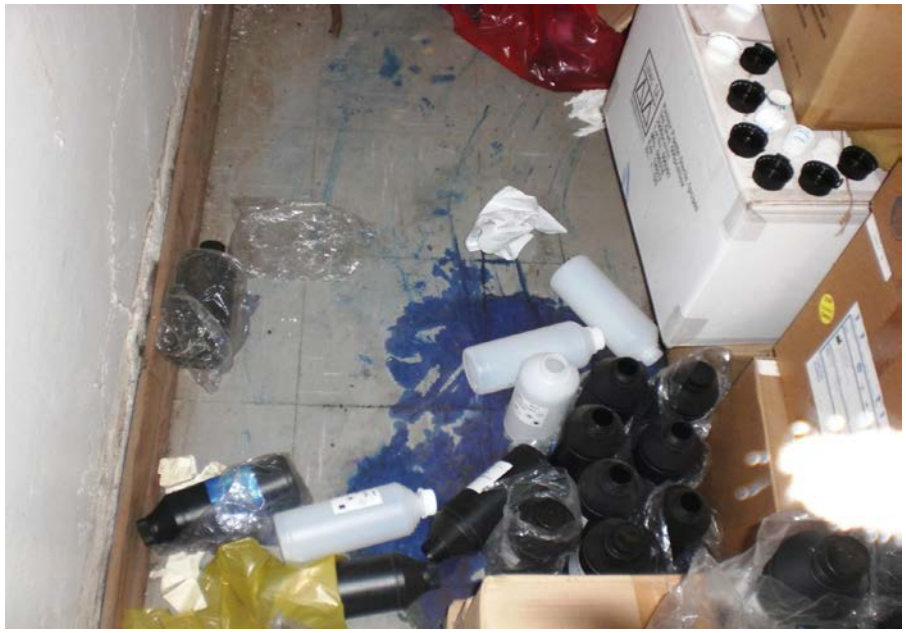
# Lack of Shelves – Spilled TB Stains



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# Major Cracks in Store Rooms

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# Good Storage

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# Challenges—Transport Management

- Poor fleet management

- Inadequate transport resources

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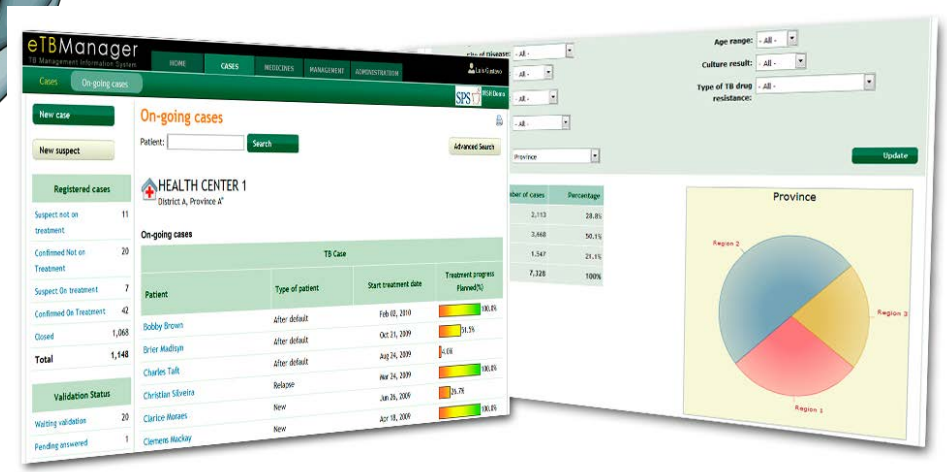
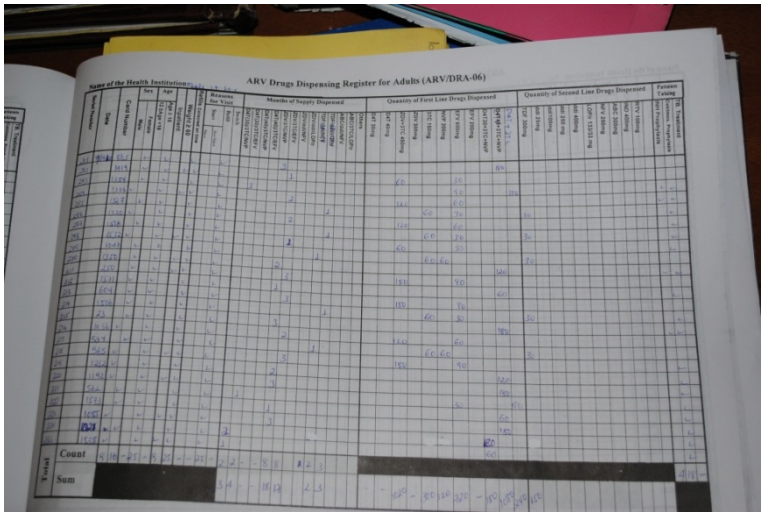
# Data. Data. Data.



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# Finally—a Good Supply Chain should…

- Maintain a constant supply of medicines
- Keep medicines in good condition throughout the distribution process
- Minimize medicine losses caused by spoilage and expiry
- Maintain adequate inventory records
- Rationalize medicine storage points
- Use available transportation resources as efficiently and effectively as possible
- Reduce theft and fraud
- Provide information for forecasting needs
- Incorporate a quality assurance program

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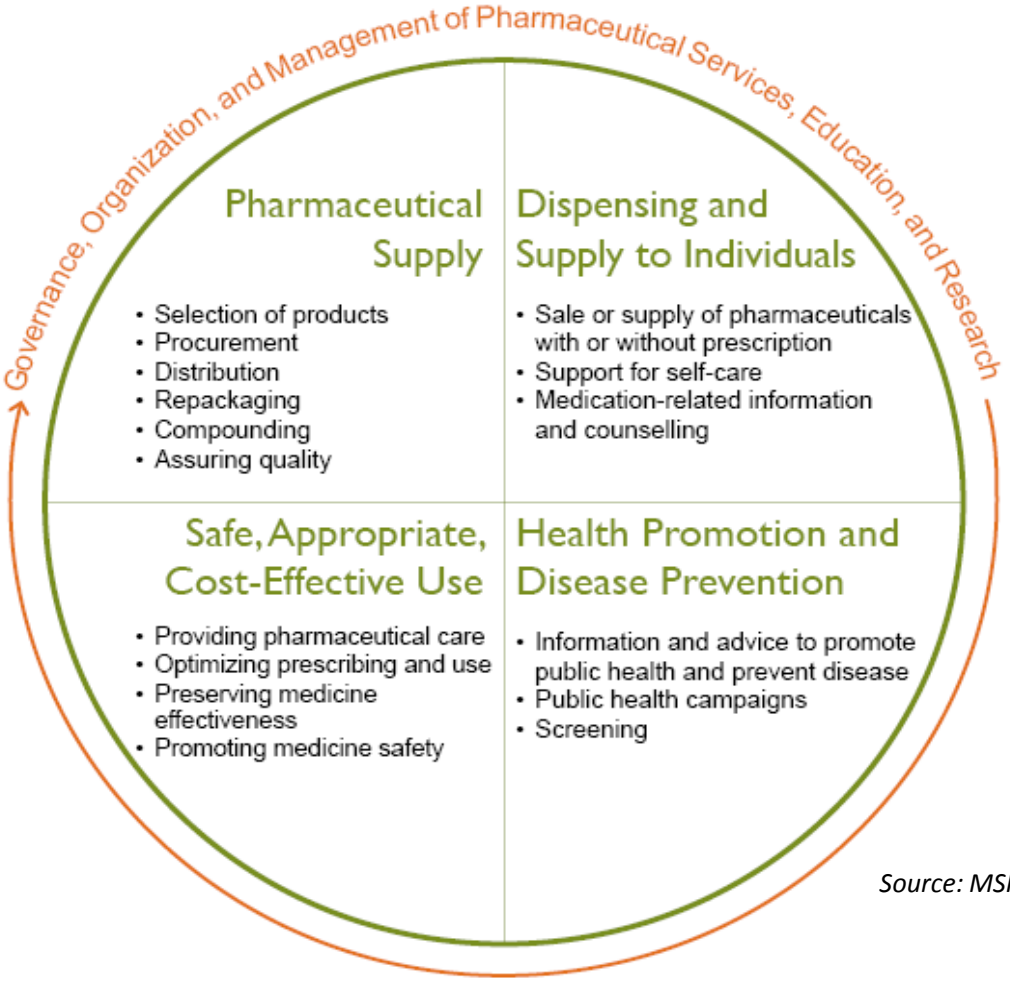
# Access to Medicines. A Focus on Pharmaceutical Services?




*Source: MSH/CPM*

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Improved *Access*.
Improved *Services*.

For Better *Health Outcomes.*

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# Thank you
# for your attention

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