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**LOCALIZATION GUIDE**  
Public Health and Healthcare  
System Development

# Introduction

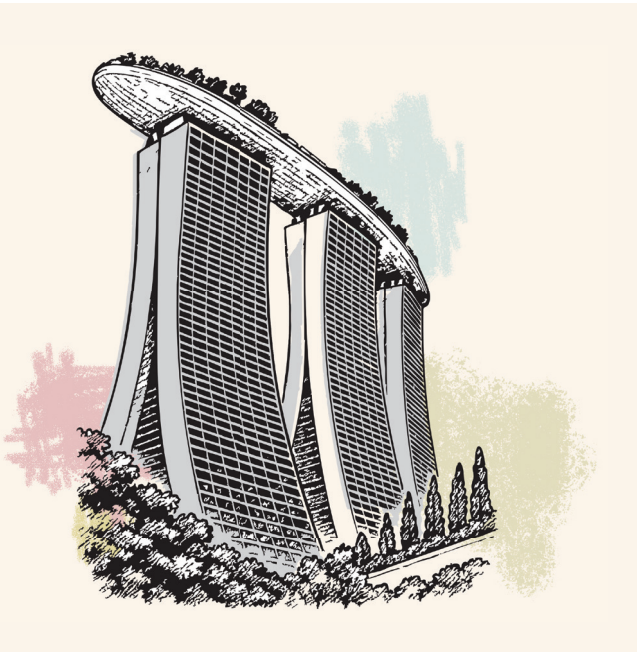
## Purpose, Overview, and Rationale for Localization

This guide provides a detailed, structured framework to adapt Singapore’s public health and healthcare system development strategies to your local context.

- Purpose: Equip policymakers, health professionals, and stakeholders to:
- Build resilient, accessible, and sustainable healthcare systems.
  - Shift focus from curative to preventive health models.
  - Ensure equitable access to quality healthcare services for all.
  - Embed data-driven, adaptive health governance systems.

## Overview of Singapore’s Public Health and Healthcare Model

- Singapore’s system is built on several strategic foundations:
- **Strong Public Health Infrastructure:** Early investment in sanitation, disease control, and preventive health.
  - **Tiered Healthcare System:** Public and private sectors integrated for affordable universal access.



- **Health Financing Innovation:** MediSave, MediShield Life, and MediFund balance personal responsibility with safety nets.
- **Emphasis on Prevention:** National health campaigns, regular screenings, early interventions.
- **Smart Health Technologies:** Widespread use of digital health records, telemedicine, predictive analytics.
- **Healthy Aging and Community-Based Care:** Shifting healthcare from hospitals to homes and communities.
- **Long-Term Sustainability Planning:** Demographic forecasting and capacity scaling built into healthcare system management.

### Core Philosophy:

Healthcare is a strategic national investment — not just a social service — requiring long-term planning, preventive approaches, and fiscal sustainability.

## Rationale for Localization

Direct replication of Singapore’s highly centralized, wealthy, city-state model is not feasible.

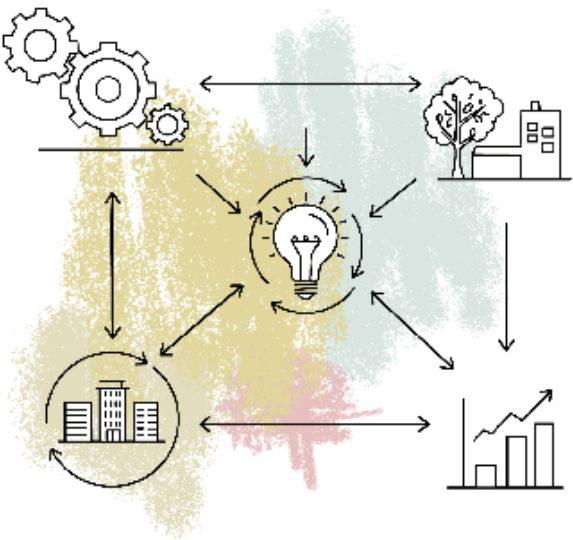
Instead, localization ensures:

- Solutions fit national structures, resource levels, and demographic needs.
- Health systems are resilient, equitable, and community-driven.
- Preventive health is culturally embedded, not just administratively mandated.
- Financing models balance affordability, inclusivity, and fiscal realism.

Localization focuses on building systems that serve your population’s realities — not just copying Singapore’s technical model.

## How to Use This Guide

- The guide follows a structured approach:
- **Discovery** — Deep understanding of Singapore’s public health and healthcare system.
  - **Assess Local Situation** — Rigorous diagnosis of current healthcare landscape.
  - **Workshops** — Stakeholder alignment around challenges, possibilities, and priorities.
  - **Principle Adaptation** — Tailoring Singapore’s principles for local relevance.
  - **Capacity and Talent Development** — Building the human, technological, and institutional muscle.
  - **Roadmap and Resource Allocation** — Phased, affordable implementation plans.
  - **Monitoring, Evaluation & Feedback** — Continuous learning and system adjustment.
  - **Case Study Development** — Documenting and showcasing your healthcare transformation story.



# INTENDED OUTCOMES

Successful localization will produce:

- A clear, practical, context-fit Public Health and Healthcare Development Strategy.
- Strengthened resilience against future pandemics, NCDs, and health crises.
- Increased access to preventive and primary healthcare across all regions and populations.
- Sustainable financing models balancing personal responsibility, equity, and national security.
- Technologically enabled, data-driven healthcare governance.

Step 1 – Discovery

Singapore Model Summary

Singapore’s public health and healthcare system is internationally recognized for combining high-quality care, cost-efficiency, and population health outcomes.

Summary:

Singapore treats health as a whole-of-government, whole-of-society mission — balancing individual responsibility, community care, and national system resilience.

Core Pillar	Key Features
Preventive Public Health Focus	National screenings, lifestyle campaigns (e.g., Healthy Living Masterplan), strong environmental health regulation.
Tiered Care System	Polyclinics, general practitioners, hospitals, and specialist centers organized in a seamless referral ecosystem.
Co-payment-Based Financing Model	MediSave (mandatory personal savings), MediShield Life (universal basic insurance), and MediFund (safety net for the needy).
Technology-Driven Care	Smart Health Video Consultation (telehealth), national eHealth records, AI for outbreak prediction.
Community-Centric Delivery	Community Health Assist Scheme (CHAS), HealthySG, aging-in-place programs.
Integrated Health Governance	Ministry of Health oversees a unified national strategy with data-driven policy decisions.
Strategic Workforce Planning	Tight control of medical school output, scholarships for under-represented disciplines, continuous education.

- Health Technology Ecosystem: Startups and state agencies collaborate on MedTech, eHealth, AI, and big data.
- Strategic Hospital Governance: Clustering of hospitals into regional health systems improves efficiency and specialization.
- Crisis Preparedness: High-speed response infrastructure, mobile health units, and integrated national outbreak response protocols.

Step 1.1: Insights & Success Factors

- Early Public Health Investment: Strong disease prevention infrastructure rooted in past pandemic experiences (e.g., SARS).
- Health Financing Sustainability: Hybrid model avoids overburdening state while maintaining universal access.
- Behavioral Change Models: Long-term, mass campaigns (e.g., anti-smoking, obesity, diabetes) tied to primary care systems.

Step 1.2: Relevance Assessment & Reflection

Guiding Reflective Questions:

- How aligned is our current health system to prevention and long-term population wellness?
- Do we have a multi-tiered system linking primary, secondary, and tertiary care?
- Are citizens protected from catastrophic health spending while still contributing?

- What health system weaknesses were exposed during COVID-19 or previous pandemics?
- How equitable is healthcare access across urban and rural, rich and poor, insured and uninsured populations?
- How ready are our systems for an aging population, NCDs, and climate-related health challenges?

Step 1.3: Localized Action Steps

- **Conduct Strategic Health System Mapping:** Document institutions, financing models, referral pathways, and service coverage.
- **Disease Burden Profiling:** Identify top morbidity and mortality drivers — both communicable and non-communicable.
- **Healthcare Financing Analysis:** Evaluate public vs. private share, out-of-pocket payments, and insurance coverage gaps.
- **Primary Care Readiness Review:** Assess whether prevention, diagnosis, and chronic care are accessible at local levels.
- **Workforce Gap Audit:** Identify shortages in medical, nursing, allied health, and digital health capacities.

Step 1.4: Real-World Examples

- **Thailand’s Universal Health Coverage Scheme:** Achieved high service coverage using capitation and decentralized community hospitals.
- **Vietnam’s Commune Health Stations:** Decentralized, primary-care-focused model emphasizing local health promotion.
- **Rwanda’s Community Health Worker Network:** Leveraged community volunteers with mobile tools to extend access in rural areas.
- **Estonia’s eHealth Revolution:** Integrated national patient data system enabling efficiency and transparency.

Step 1.5: Risks and Pitfalls in Discovery

- **Superficial System Understanding:** Looking only at hospital capacity while ignoring primary care, health literacy, and community access.
- **Excessive Focus on Curative Care:** Prioritizing tertiary hospitals over preventive and promotive care leads to unsustainable costs.
- **Ignoring Financing Gaps:** Overreliance on out-of-pocket payments excludes low-income groups.
- **Failure to Analyze Equity Dimensions:** Urban bias, gender disparities, and social exclusion may be hidden beneath national averages.

Checklist for Step 1: Discovery Phase Checklist

- ☐ Singapore’s public health and healthcare model deeply analyzed.
- ☐ Success factors, structural components, and financing innovations identified.
- ☐ Local applicability and systemic weaknesses critically reflected upon.
- ☐ Priority gaps and leverage points identified for exploration.



Step 2 – Assess Local Situation

Local Situation Analysis Template

Use this template to map and assess all dimensions of your public health and healthcare ecosystem.

- **Civil Society and NGOs:** Community-based health providers, advocacy groups, maternal and child health actors.

Dimension	Details to Capture
Health Outcomes and Disease Burden	Top causes of mortality and morbidity; prevalence of NCDs, infectious diseases, maternal and child health indicators
Healthcare Access and Coverage	Insurance coverage rates, rural vs. urban disparities, proximity to primary and secondary care
Primary Healthcare System	Availability, quality, reach of clinics and general practitioners; referral systems
Hospital Infrastructure and Specialization	Public vs. private capacity, distribution of tertiary services, regional imbalances
Workforce Capacity	Doctor, nurse, midwife ratios; distribution across rural/urban areas; allied health and digital skills gaps
Health Financing Landscape	Public vs. private share, catastrophic health expenditure, national health accounts, donor dependencies
Public Health Programs	Immunization, screening, sanitation, hygiene promotion, health education and campaigns
Digital Health Readiness	Existence of eHealth systems, patient data integration, telehealth capabilities
Emergency and Crisis Preparedness	Systems for epidemic detection, rapid response, health crisis coordination
Equity and Inclusion	Gender, disability, ethnic, regional disparities in access and outcomes

Step 2.1: Stakeholder Identification and Empowerment Strategy

Key Stakeholders:

- **Public Sector:** Ministries of Health, Finance, Planning; National Health Insurance Funds; local governments.
- **Healthcare Providers:** Public and private hospitals, clinics, community health workers, traditional healers.

- **Private Sector:** Insurers, pharmaceutical firms, MedTech startups, hospital chains.
- **Academic Institutions:** Public health schools, medical schools, policy think tanks.
- **Community and Faith Leaders:** Trusted actors in health behavior change and outreach.

- **Patients and Caregiver Networks:** Especially for chronic disease, disabilities, and mental health communities.

Empowerment Strategy Actions:

- **Multi-Sector Health Forums:** Bring all actors into policy and system redesign processes.
- **Community Scorecard Initiatives:** Give voice to service users and frontline health workers.
- **Health Equity Audits:** Prioritize underserved populations through targeted budget and service tracking.
- **Digital Engagement Tools:** Use mobile platforms to gather grassroots feedback and monitor reforms.

Step 2.2: Localized Action Steps

- **Health Systems Performance Survey:** Document capacities, usage, equity, and bottlenecks.
- **Workforce Distribution Audit:** Compare staff-to-population ratios by region and specialty.
- **Primary Healthcare Assessment:** Evaluate infrastructure, staffing, and service quality at first contact level.
- **Public Health Program Inventory:** Review scope, quality, and coverage of preventive programs.
- **Health Financing Deep Dive:** Model health expenditures, household burden, coverage gaps, and sustainability threats.

Step 2.3: Real-World Examples

- **Ghana’s NHIS Review Process:** Identified weaknesses in cost control and coverage equity using a full stakeholder health financing review.
- **Indonesia’s JKN (National Health Insurance) Analysis:** Focused on regional disparities in specialist access.
- **Zambia’s Health Facility Census:** Used GPS-enabled audits to identify “healthcare deserts” and plan clinic investments.

- **Mexico’s Seguro Popular Reform Evaluation:** Provided insights into fragmented coverage and variable quality.

Step 2.4: Risks and Pitfalls

- **Overreliance on National Averages:** Disaggregated data (gender, region, income, ethnicity) is essential.
- **Ignoring Informal Systems:** Exclude informal providers at your peril — many are essential in low-access areas.
- **Data Gaps and Inconsistencies:** Invest in triangulating administrative data with household surveys and community feedback.
- **Top-Down Analysis:** Engage frontline providers and patients in diagnosis to reveal hidden

Checklist for Step 2: Local Situation Assessment Completion Checklist

- ☐ Comprehensive analysis of health system architecture, outcomes, access, equity, and financing completed.
- ☐ Stakeholder mapping and engagement strategy defined.
- ☐ Health system capacity and bottlenecks documented in all tiers.
- ☐ Public health program and workforce readiness reviewed.
- ☐ Core systemic gaps, opportunities, and regional variances identified.fied for exploration.

Step 3: Workshop 1 – Situation Analysis (“Prepare”)

Objective of Workshop 1:

- Bring together key public health and healthcare stakeholders.
- Reach a shared understanding of the system’s strengths and weaknesses.
- Validate and enrich findings from the Local Situation Assessment.
- Identify priority health challenges and opportunities for change.

This workshop is essential to build consensus and ownership before solution design begins.

Step 3.1: Workshop Preparation Checklist

Element	Details
Participants	Ministry of Health, national insurance agencies, hospital CEOs, public health directors, regional health officials, frontline providers, private sector health investors, development partners, patient advocates, health economists
Venue and Logistics	Large venue with plenary and breakout rooms; real-time voting tools; maps and health system visuals; recording and documentation setup
Facilitation Team	Experienced facilitator in health system governance, co-facilitators for thematic groups (e.g., financing, equity, digital health)
Materials	Local Situation Assessment summary, health equity maps, health financing dashboards, global comparators (e.g., Singapore, Thailand, Rwanda)

Step 3.2: Detailed Workshop Agenda (Recommended)

Duration: 1.5 Days

Day 1 – Morning: Framing the Current Health System

Activity	Duration	Content
Welcome and Workshop Objectives	20 minutes	Emphasize transparency, inclusion, and ownership
Presentation: Health System Diagnosis	45 minutes	Share key data from the assessment phase (Step 2)
Inspiration Briefing: Singapore’s Health Strategy	30 minutes	Showcase transferable principles (e.g., financing, tiered system, prevention)
Q&A and Reflections	45 minutes	Clarify insights, surface sectoral concerns

Day 1 – Afternoon: Deep Analysis Exercises

Exercise	Duration	Description
Problem Tree Analysis	1.5 hours	Thematic groups identify root causes of health system weaknesses (e.g., NCD burden, access barriers, financing gaps)
Asset and Opportunity Mapping	1 hour	Identify systemic strengths (e.g., successful campaigns, strong local governance, digital pilots) and underutilized assets

Day 2 – Morning: Stakeholder & Structural Prioritization

Activity	Duration	Description
Stakeholder Power and Interest Mapping	1 hour	Analyze key players’ ability to support or block reform efforts
Priority Challenge Ranking	1 hour	Participants prioritize top 5 systemic challenges using a structured consensus tool (e.g., dot voting or weighted scoring)

Day 2 – Afternoon: Synthesis and Strategic Readiness

Activity	Duration	Description
Group Presentations	1 hour	Share analysis findings and challenge prioritizations
Final Plenary Consensus Building	1 hour	Agree on shared diagnosis and reform readiness levels
Summary and Next Steps	30 minutes	Outline preparation for Workshop 2 (Identifying Possibilities)

Step 3.3: Guiding Questions for Situation Analysis

- Where do health outcomes diverge most by region or demographic?
- Which system weaknesses are most dangerous in a future health crisis?
- Which public health functions are most underfunded or misaligned?
- Where is the biggest mismatch between spending and impact?
- What early strengths or assets could we leverage for quick wins?

Step 3.4: Documenting Outcomes

Each group should produce:

- Problem Trees and Asset Maps.
- Stakeholder Power/Interest Matrix.

- Priority Challenge Shortlists.
- Workshop Summary Report synthesizing all findings.

This report should be shared within one week to keep momentum.

Step 3.5: Risks and Pitfalls

- **Elite-Centric Conversations:** Ensure rural voices, frontline workers, and patient advocates are heard equally.
- **Over-Focus on Infrastructure:** Avoid prioritizing buildings over systems and workforce.
- **Data Disputes:** Establish clear ground rules for dealing with contested statistics (triangulation, expert panels).
- **Failure to Synthesize:** Facilitators must turn raw data into actionable consensus.

Step 3.6: Real-World Example

Example: Liberia’s Health Joint Annual Review

Liberia’s post-Ebola health reform process began with stakeholder forums that combined government, donors, clinicians, and CSOs to co-create a common understanding of system risks — forming

the basis of their Health Investment Plan.

Checklist for Step 3: Workshop 1 Completion Checklist

- ☐ Participants and logistics fully organized.
- ☐ Workshop conducted with full participation across sectors.
- ☐ Shared system diagnosis and challenge prioritization achieved.
- ☐ Workshop Summary Report compiled and shared.

Step 4: Workshop 2 – Identify Possibilities (“Conduct”)

Objective of Workshop 2:

- Co-create strategic, localized healthcare transformation ideas.
- Leverage the shared diagnosis from Workshop 1.
- Explore how Singapore’s health principles can be reimaged for local realities.
- Prioritize 2–3 strategic transformation directions to take forward.

This workshop is about possibility thinking grounded in real-world constraints and opportunities.

Step 4.1: Workshop Preparation Checklist

Element	Details
Participants	Same as Workshop 1 plus: health system designers, innovation funders, epidemiologists, insurance experts, digital health startups, primary care and maternal health leaders
Venue and Logistics	Collaborative space with idea boards, sticky walls, group zones by theme (e.g., Financing, Prevention, Technology, Equity)
Facilitation Team	Design thinking facilitators with healthcare innovation expertise; data analysts on hand
Materials	Challenge maps from Workshop 1, Singapore success case studies, global best practices (Rwanda CHWs, Thailand UHC, Estonia eHealth), templates for solution development

Step 4.2: Detailed Workshop Agenda (Recommended)

Duration: 2 Days

Day 1 – Morning: Inspiration and Problem Reframing

Activity	Duration	Content
Welcome and Objectives	15–20 minutes	Frame the day as bold but grounded brainstorming
Global Inspiration Gallery	45 minutes	Interactive presentations of innovative models (Singapore’s MediSave, Thailand’s Primary Health Zones, Kenya’s digital community clinics)
Local Health Challenge Reframing	45 minutes	Groups reframe their assigned challenge areas using “How Might We…” questions (e.g., “How might we fund equitable access to diagnostics in rural areas?”)

Day 1 – Afternoon: Possibility Generation

Exercise	Duration	Description
Rapid Ideation Rounds	1.5 hours	Generate dozens of ideas across challenge themes with no judgment (volume over quality)
Gallery Walk + Peer Feedback	1 hour	Ideas posted publicly for critique, suggestions, and dot-voting
Cluster & Theme Synthesis	45 minutes	Group ideas into major themes or solution families (e.g., smart prevention, decentralized diagnostics, equity financing)

Day 2 – Morning Session: Deepening & Feasibility Testing

Activity	Duration	Description
Breakout Sessions: Solution Refinement	2 hours	Each group builds out 1–2 high-potential solutions in depth using templates (see below)
Peer Review Circles	1 hour	Groups present draft solutions to get technical and community critique

Day 2 – Afternoon Session: Prioritization and Consensus

Exercise	Duration	Description
Prioritization Matrix Exercise	1 hour	Use matrix (Impact vs. Feasibility vs. Inclusivity) to score ideas
Strategic Selection and Plenary Agreement	45 minutes	Agree on top 2–3 system-level transformation pathways to take forward
Closing Summary and Roadmap Prep Kickoff	30 minutes	Introduce Workshop 3 process; energize participants to prepare for solution finalization

Step 4.3: Guiding Questions for Identifying Possibilities

- What would a people-centered, prevention-first, affordable health system look like here?
- How can we radically improve primary care reach, especially in underserved communities?
- What would an equitable health financing system truly look like in our context?
- How can we embed health promotion and disease prevention in schools, workplaces, and media?
- What small-scale digital health interventions could scale rapidly with the right support?

Step 4.4: Prioritization Techniques

Use a simple matrix scoring rubric:

Criterion	Rating Scale (Low / Medium / High)
Strategic Health Impact	
Political and Community Feasibility	
Cost and Resource Realism	
Equity and Inclusion	
Scalability Potential	

Use sticky dot voting or group consensus scoring to surface top-ranked solutions.

Step 4.5: Documenting Outcomes

Each group should complete:

- Solution Development Templates including purpose, activities, actors, and expected outcomes.
- Feasibility and Costing Notes
- Prioritization Matrix Scorecards
- Workshop 2 Summary Report including visual documentation, notes, and ranked solution shortlist.

Step 4.6: Risks and Pitfalls

- **Premature Filtering:** Allow wild ideas before pruning. Start divergent, then converge.
- **Elite Bias in Feasibility Testing:** Don’t let powerful voices kill grassroots innovation.

- **Imbalance in Themes:** Ensure ideas span prevention, financing, technology, governance, and access — not just one domain.

Step 4.7: Real-World Example: Thailand’s Health Reform Design Labs

Thailand’s health reform process used design labs to co-create:

- Primary Care Clusters with regionally funded capitation models.
- Performance incentives for rural health workers.
- Co-created health insurance benefit packages with local communities.

All emerged from ideation workshops — then tested in pilots.

Checklist for Step 4:  
Workshop 2 Completion Checklist

- ☐ Diverse ideas generated collaboratively and safely.
- ☐ Structured feasibility and equity analysis completed.
- ☐ Top 2–3 priority strategies selected with consensus.
- ☐ Full Workshop 2 Summary Report compiled and shared.



Step 5: Workshop 3 – Workshop 3 – Shape the Solution

Objective of Workshop 3

- Finalize the top 2–3 prioritized health system strategies from Workshop 2.
- Build comprehensive, realistic, and phased solution designs.
- Define who does what, when, with what resources, and how success will be measured.

**Goal:**  
Ensure each strategy is ready to move into implementation planning with ownership, feasibility, and impact clearly defined.

Step 5.1: Workshop Preparation Checklist

Element	Details
Participants	Design teams from Workshop 2, health economists, planners, program managers, donor representatives, community health champions
Venue and Logistics	Workspace with breakout areas; digital dashboards; costing tools; health workforce planning templates
Facilitation Team	Health systems planning experts and public health program designers
Materials	Prioritized strategies from Workshop 2, costing data, workforce numbers, digital health readiness assessments, policy and legal frameworks

Step 5.2: Detailed Workshop Agenda (Recommended)

Duration: 2 Days

Day 1 – Morning Session: Strategic Framing

Activity	Duration	Content
Recap and Objectives	20 minutes	Reframe priorities as design challenges
Final Review of Prioritized Solutions	40 minutes	Align expectations on what's being developed
Group Assignment	30 minutes	Assign participants to solution design teams (e.g., health financing reform, community-based care, digital PHC strengthening)

Day 1 – Afternoon Session: Solution Design Sprints

Exercise	Duration	Description
Solution Building Deep Dive	3 hours	Teams design each strategy using a detailed template (see below), mapping every core element including institutions, financing, timeline, workforce, risks

Day 2 – Morning Session: Technical Validation and Refinement

Activity	Duration	Description
Peer Review Rounds	1.5 hours	Present and critique each solution in cross-team format (health economist reviews digital health team, etc.)
Final Revisions	1 hour	Groups refine solutions based on feedback

Activity	Duration	Description
Roadmap Sequencing Drafting	1 hour	Teams begin sketching implementation phases for each solution
Ownership Mapping	45 minutes	Assign lead agencies, partners, and steering mechanisms
Final Synthesis and Reporting Prep	30 minutes	Document final designs, feedback, and next actions

Step 5.3: Solution Development Template

Field	Details to Complete
Strategic Objective	What systemic change will this solution achieve?
Target Populations	Who will directly and indirectly benefit?
Core Activities	Key programs, reforms, or technologies to deploy
Lead Implementing Agencies	Who is responsible? Who supports?
Resource Requirements	Staff, infrastructure, tech, funding
Funding Strategy	Government, donor, PPP, co-payments, insurance
Phasing and Milestones	Start-up, pilot, expansion, institutionalization
M&E Framework	What indicators will track progress and learning?
Risk Analysis and Mitigation	Political, financial, technical, or community risks

Step 5.4: Documenting Outcomes

Each solution team should produce:

- Full Solution Blueprint
- Initial Implementation Phasing Plan
- Costing and Risk Notes
- Stakeholder Engagement Requirements
- Workshop 3 Summary Report with all outputs and agreements

Step 5.5: Risks and Pitfalls

- **Overambitious Designs:** Prioritize scalable pilots and core service packages first.
- **Vague Responsibilities:** Be specific — avoid “joint ownership” with no lead actor.
- **Under-budgeting for Soft Components:** Training, supervision, community engagement need real budgets.
- **Ignoring Policy and Legal Constraints:** Align with current legislation or plan needed reforms early.

Step 5.6: Real-World Example

Example: Rwanda’s Community-Based Health Insurance (CBHI) Strategy

The CBHI was:

- Designed via iterative design sessions with communities and funders.
- Phased: started in 3 districts before national scale.
- Financed with co-payments + donor match + tax transfer.
- Tracked via regular performance audits and household impact reviews.

It became a cornerstone of Rwanda’s universal health system.

Checklist for Step 5: Workshop 3 Completion Checklist

- ☐ Detailed, practical solution blueprints completed.
- ☐ Implementation sequencing and budget assumptions drafted.
- ☐ Risks, responsibilities, and success indicators defined.
- ☐ Full Workshop 3 Summary Report prepared for Roadmap Planning.

Step 6: Principle Adaptation

Objective of Principle Adaptation

- Explicitly list Singapore’s foundational public health and healthcare principles.
- Assess their local relevance.
- Modify them into contextually appropriate, actionable guidelines.
- Build ownership by making adaptation choices transparent and inclusive.

Step 6.1: Explicit Identification of Singapore’s Core Healthcare Principles

1. **Prevention Before Cure**  
Massive national investment in preventive care, education, and lifestyle interventions.

2. **Co-Payment Model with Safety Nets**  
Personal responsibility (MediSave) combined with

- universal insurance (MediShield Life) and targeted subsidies (MediFund).
3. **Tiered, Integrated Care System**  
Seamless transitions from primary to tertiary care; polyclinics, community care, and specialist clusters.

4. **Technology-Enabled Health Governance**  
Digital health records, AI-based outbreak detection, telemedicine expansion.

5. **Workforce Strategic Planning**  
Data-driven control of medical school intake, specialization incentives, and upskilling systems.

6. **Community-Based Delivery**  
Healthcare delivered closer to homes through Community Health Assist Scheme and HealthySG.

7. **Fiscal Sustainability**  
Long-term planning for demographic shifts; healthcare costs managed as national security and economic factors.

Step 6.2: Detailed Modifications for Local Contexts

PRINCIPLE	LOCAL RELEVANCE (HIGH/MEDIUM/LOW)	MODIFICATIONS REQUIRED	RATIONALE FOR MODIFICATIONS
Prevention Before Cure	High	Build capacity for school, faith-based, and community health programs	Strong traditional networks can be leveraged; low-cost, high-reach potential
Co-Payment Model with Safety Nets	Medium	Focus on free services for priority groups + community insurance models	Low-income populations can't bear co-payments without subsidized foundations
Tiered, Integrated Care System	High	Pilot regional primary-secondary referral networks first	National coordination challenging; start with high-need zones
Technology-Enabled Governance	Medium	Invest in mobile-based systems and offline/low-data access	Digital divide exists; mobile-first is more realistic than AI or national EMRs at scale
Workforce Strategic Planning	High	Focus on rural health worker training, nurse-led clinics, task-shifting policies	Immediate gaps require fast deployment strategies more than physician production
Community-Based Delivery	High	Formalize CHW programs with training, pay, and supervision	Informal workers already active; need structure and integration
Fiscal Sustainability	High	Align all reform proposals with National Health Financing Strategy	Donor dependency must be reduced; avoid unscalable pilots

Guiding Questions for Principle Adaptation:

- Which principles are too expensive or institutionally unrealistic for now?
- Where can traditional or local systems achieve what Singapore’s formal systems do?
- Which core services must be free to achieve equity, even if co-payment is a goal later?
- How do we make prevention aspirational — not just an obligation?

Step 6.3: Real-World Examples of Principle Adaptations

Example 1: Thailand

**Adaptation Strategy:** Created primary care units with universal free access, funded through capitation, avoiding co-payments.

Example 2: Ghana

**Adaptation Strategy:** Adapted the co-payment concept into a national health insurance scheme with partial user fees and full exemption for poor households.

Example 3: Rwanda

**Adaptation Strategy:** Deployed CHWs as core providers of preventive care, maternal support, and chronic disease screening with mobile apps.

Example 4: India (Kerala)

**Adaptation Strategy:** Combined robust community public health with a free primary care tier and capped prices in private hospitals.

Step 6.4: Risks and Pitfalls

- **Superficial Copying:** Trying to implement MediSave or EMR systems without legal, institutional, or financial readiness.
- **Ignoring Informal Systems:** Replacing rather than integrating existing local models like traditional healers or faith-based clinics.

- **Equity Blindness:** Assuming co-payment promotes responsibility in systems with extreme poverty.
- **Digital Overreach:** Launching apps without connectivity, devices, or digital literacy at the user level.

Checklist for Step 6: Principle Adaptation Completion Checklist

- ☐ Core Singaporean healthcare principles clearly defined.
- ☐ Local relevance assessed with inclusive stakeholder input.
- ☐ Modified principles documented with rationale and constraints.
- ☐ Adaptation choices shared transparently with reform teams and communities.

Step 7: Capacity & Talent Development

Objective of Capacity & Talent Development

- Build the human and institutional capabilities needed to implement and sustain reforms.
- Address critical workforce shortages and skills mismatches.
- Ensure transformation is driven by local leaders, well-supported providers, and resilient systems.

**Goal:**  
Create a health workforce ecosystem — not just individual training programs.

Step 7.1: Capacity Needs AssessmentStep

Area of Expertise	Current Capacity	Key Gaps Identified	Priority Level (High, Medium, Low)S
Community Health Work (CHW) Programs	Medium	Weak supervision, training, formalization	High
Primary Care Providers (GPs, nurses)	Low	Inadequate numbers in rural areas	High
Public Health Management	Medium	Limited capacity in district planning, outbreak response	High
Health Systems Planners	Low	Few experts in financing, governance, and service redesign	Medium
Health IT and Data Management	Low	Scarce digital health professionals, fragmented data systems	High
Health Education and Promotion	Medium	Underutilized communication and behavior change capacity	Medium

7.2: Specialized Training Programs & Modules

Recommended Training Modules:

- **Module 1: Community Health Worker (CHW) Academy**  
  
Disease screening, maternal care, referral protocols, health promotion
- **Module 2: Rural Nurse-Led Care Training**  
  
Task-shifting models, primary care protocols, chronic disease management

- **Module 3: District Public Health Leadership Fellowships**  
  
Epidemiology, local health governance, emergency response
- **Module 4: Health Systems and Financing Bootcamp**  
  
Resource allocation, health insurance design, cost-effectiveness tools
- **Module 5: Digital Health Upskilling Tracks**  
  
Mobile data collection, EMR use, telemedicine triage

Module 6: Health Communication Training

Risk communication, behavior change strategy, misinformation response

Step 7.3: Strategic Institutional Partnerships

- **Partner Type:** Universities and Schools of Public Health  
  
**Example:** Curriculum co-development for CHWs and rural health leaders
- **Partner Type:** National Training Centers  
  
**Example:** In-service training programs for existing nurses and clinical officers
- **Partner Type:** NGO and Donor Technical Partners  
  
**Example:** JICA, USAID, WHO, GIZ, Global Fund for capacity building support
- **Partner Type:** Private Sector EdTech or Simulation Providers  
  
**Example:** Use AR/VR or mobile tools for clinical training in low-resource areas
- **Partner Type:** Faith-Based Networks  
  
**Example:** Partner for outreach and community health literacy campaigns

Step 7.4: Talent Retention Strategies

- **Career Ladders for CHWs and Nurses:** Clear progression paths and recognition.
- **Retention Allowances for Rural Deployment:** Cost-of-living top-ups and career benefits.
- **Public Recognition Campaigns:** Awards and storytelling to elevate health worker status.
- **Workplace Wellness and Safety Reforms:** Reduce burnout, ensure PPE, support staff mental health.
- **Leadership Acceleration Programs:** Fast-track promising young professionals into system reform roles.

Step 7.5: Real-World Example

Case Study: Ethiopia’s Health Extension Worker Program

- 40,000+ female CHWs trained and deployed to rural communities.
- 12-month structured training, curriculum co-developed with Ministry of Health.
- Supervised through district health offices with performance monitoring tools.
- Incentives included housing support, community respect, and career mobility.

Step 7.6: Risks and Pitfalls

- **Training Without Placement:** Ensure training pipelines are linked to funded positions.
- **Underpaying Frontline Workers:** Demoralizes the system and undermines trust.
- **Fragmented Training Systems:** Harmonize CHW, nursing, and public health tracks across institutions.
- **Urban Bias:** Ensure training and talent invest-

Checklist for Step 7: Capacity & Talent Development Completion Checklist

- ☐ Full capacity mapping and priority gaps defined.
- ☐ Tailored training programs designed for critical workforce areas.
- ☐ Strategic institutional and NGO partnerships outlined.
- ☐ Retention and professionalization strategies aligned to reform goals.



## Step 8: Implementation Roadmap & Resource Allocation

### Objective of the Implementation Roadmap

- Translate shaped health reforms into a phased, time-bound action plan.
- Assign clear responsibilities, funding needs, and milestones.
- Ensure that each phase is feasible, costed, and aligned to capacity.
- Embed accountability and scalability mechanisms.

### Step 8.1: Implementation Roadmap Template

Phase	Key Activities	Timeline	Responsible Parties	Resources Needed	Expected Outcomes
Phase 1: Mobilization & Piloting	<div>- Launch CHW Academy pilots</div> <div>- Digitize 10 primary health centers</div> <div>- Implement regional health access gap study</div> <div>- Start baseline surveys for priority NCDs</div>	Months 1–6	MOH, CHW Secretariat, IT partners, district health bureaus	\$X initial capital, mobile tablets, training teams	Core pilots running; quick wins and learning opportunities created
Phase 2: Early Scaling and Policy Adoption	<div>- Expand CHW program to 5 high-need regions</div> <div>- Establish Rural Nurse Deployment Fund</div> <div>- Introduce Health Financing Reform Bill draft</div> <div>- Begin digital health regulatory consultation</div>	Months 7–18	MOH, Finance Ministry, Parliament Health Committee, Nursing Council	\$XX operating budget, legal consultants, HR incentives	System-wide buy-in and enabling frameworks underway
Phase 3: Institutionalization	<div>- National scale-up of digital patient record system</div> <div>- Legislate CHW professionalization</div> <div>- Launch health data dashboard and citizen feedback tools</div> <div>- Establish Health Futures Planning Council</div>	Months 19–36	MOH, National Assembly, civil society, telecom partners	\$XXX program scale funding, cloud infrastructure, public engagement	Reform institutionalized; coverage and coordination improved
Phase 4: Consolidation and Evaluation	<div>- Conduct health system impact audit</div> <div>- Refresh disease burden forecasts and financing model</div> <div>- Hold National Health Strategy Review Summit</div> <div>- Sustain innovation funding mechanism for pilot testing</div>	Months 37–60	Health Evaluation Agency, Think Tanks, Donors Forum	\$XX evaluation budget, review teams, performance-linked grants	Iterative improvements embedded; long-term policy recalibration capacity built

### Step 8.2: Costing and Affordability Models

- **Cost Component:** CHW Training and Incentives

- **Strategy:** Pool MOH budgets with donor co-financing and community contributions

- **Cost Component:** Digital Health Systems

- **Strategy:** Use open-source tools, phased infrastructure upgrades, public–private IT partnerships

- **Cost Component:** Health Financing Reforms

- **Strategy:** Begin with partial reforms (e.g., exemption policies) before introducing insurance law

- **Cost Component:** Workforce Deployment

- **Strategy:** Focus on cost-effective cadres (nurses, midwives, CHWs) with rural bonuses over urban expansion

### Step 8.3: Funding Sources and Strategies

- **Source:** National Treasury

- **Strategy:** Secure 3-year health reform window in the national budget plan

- **Source:** Donors & Global Funds

- **Strategy:** Target catalytic funding for digital, CHW, and NCD control innovations

- **Source:** PPPs

- **Strategy:** Partner for hospital digitization, logistics (e.g., medicine delivery), and community diagnostics

- **Source:** Health Insurance Contributions

- **Strategy:** Start voluntary or employer-subsidized pilot pools in formal sectors

- **Source:** Diaspora Bonds & Philanthropy

- **Strategy:** Issue health infrastructure bonds or match donations for rural clinics

### Step 8.4: Transparency and Accountability Mechanisms

- Quarterly Reform Tracker Reports (published online and distributed to media)
- Open Budget Visualization Tool (citizen-friendly health budget tracker)
- Community Scorecards & CHW Feedback Surveys
- External Oversight Mechanism involving NGOs, think tanks, and academia
- Annual Health System Transformation Public Forum

### Step 8.5: Real-World Example:

#### Case Study: Thailand’s UHC Roadmap

- Phased reform from 3 provinces to national scale in 4 years.
- Capitation funding + clear implementation benchmarks.
- Mix of free services, performance-based provider pay, and household surveys.
- Transparent performance audits used to adjust strategies and budgets annually.

### Step 8.6: Risks and Pitfalls

- **Overloaded First Phase:** Avoid launching all reforms at once — pilot, test, and refine first.
- **Budget Gaps Midstream:** Secure multi-year commitments; embed health reforms into medium-term expenditure frameworks.
- **Policy Backlash:** Build political consensus early — especially for financing reforms.
- **Equity Slippage:** Ensure poorest and most remote communities are targeted first and measured specifically.

### Checklist for Step 8: Implementation Roadmap & Resource Allocation Completion Checklist

- ☐ Clear, sequenced action plan across 4 phases completed.
- ☐ Budget estimates and funding strategies aligned with each phase.
- ☐ Responsible institutions, milestones, and expected outcomes defined.
- ☐ Transparency and risk management systems embedded.

## Step 9: Monitoring, Evaluation & Feedback

- Objective of Monitoring, Evaluation & Feedback (M&E)**
- Track implementation progress and system impact.
  - Identify early warning signs and course-correct rapidly.
  - Measure both technical outcomes and citizen experience.
  - Create a culture of continuous, data-driven improvement.

### Step 9.1: M&E Framework Design

Objective	Key Indicators	Data Sources	Collection Frequency
Expand Community Health Coverage	% of rural population covered by CHWs, CHW satisfaction levels	CHW registries, household surveys	Quarterly
Strengthen Primary Healthcare Access	% of people within 5km of a functional PHC facility	GIS mapping, health facility audits	Bi-annually
Improve Health Financing Protection	% of households facing catastrophic health spending	Health expenditure surveys, insurance claims	Annually
Increase Use of Preventive Services	Uptake of vaccinations, NCD screenings, maternal visits	HMIS, household health surveys	Quarterly
Build Digital Health Readiness	% of facilities using EMRs, % of providers trained in eHealth	MOH IT systems, training logs	Quarterly
Improve Equity in Access and Outcomes	Gender, income, and region-disaggregated health service utilization and outcomes	Household surveys, service reports	Annually

### Step 9.2: Resident & Stakeholder Feedback Systems

Mechanism	Description
Community Scorecards	Citizen-led scoring of local health facility performance, discussed in public meetings
Digital Feedback Platforms	Mobile/SMS systems where patients rate services and request support
CHW and Provider Surveys	Structured tools capturing feedback on tools, supervision, safety, and morale
Annual Health Dialogues	National and district-level multi-stakeholder review summits of reform progress

Step 9.3: Real-Time Learning and Iterative Adaptation

- Quarterly M&E Dashboards sent to implementation units and decision-makers.
- Monthly CHW Feedback Briefs shared with district supervisors and training teams.
- Bi-Annual Health Futures Workshops to discuss trends, anticipate shifts, and recalibrate strategy.
- Reform Rapid Response Unit authorized to address bottlenecks and pilot new tools.

Step 9.4: Real-World Example:

Case Study: Ghana’s Health Sector M&E System

- Integrated HMIS (DHIMS-2) linked to budgeting and planning systems.
- National Health Accounts aligned with WHO Global Health Expenditure Database.
- Community scorecards in selected districts influence budget allocations.
- Annual Health Sector Review engages donors, CSOs, and health workers.

Step 9.5: Risks and Pitfalls

- Data Collection Without Use:** Build accountability into data use — every indicator should have an owner.
- Overcomplication:** Use core indicators with automated data flows; avoid hundreds of disconnected metrics.
- Political Resistance to Evaluation:** Frame M&E as learning and performance enhancement — not punishment.
- Feedback Fatigue:** Close feedback loops by demonstrating how community and worker input shapes decisions.

Checklist for Step 9: Monitoring, Evaluation & Feedback Completion Checklist

☐ M&E framework linked to strategic goals and indicators.

☐ Citizen, frontline provider, and stakeholder feedback tools operationalized.

☐ Real-time learning systems embedded in governance structures.

☐ Reporting, dashboarding, and adjustment processes defined.

Step 10: Case Study Development

Objective of Case Study Development

- Document your healthcare reform journey with honesty and clarity.
- Capture what worked, what didn’t, and what was learned.
- Support scaling, refinement, and replication of successful models.
- Inspire stakeholders and attract future funding, partnerships, and trust.

Step 10.1: Selecting Pilot Projects for Case Studies

Selection Criteria:

- Demonstrable impact (e.g., increase in CHW coverage, NCD screening rates, financial protection improvements).
- High relevance for national scaling or regional replication.
- Strong stakeholder involvement and visible citizen benefit.
- Clear lessons — including failures, adaptations, or pivots.

Example Projects to Consider:

- Launch of a CHW Academy and regional deployment.
- Rollout of digital health tools in primary care facilities.
- Community-based maternal health initiative reducing preventable deaths.
- Piloting of performance-based rural provider retention packages.

Step 10.2: Documentation Structure & Dissemination Plan

Section	Key Content
Introduction	Problem statement, goals, baseline challenges
Strategic Approach	How Singapore’s principles were adapted; the logic behind the intervention
Implementation Timeline	Key milestones, actors involved, scale of rollout
Results and Impact	Quantitative and qualitative changes observed (include disaggregated data)
Challenges and Adjustments	Obstacles encountered and how they were addressed
Lessons Learned	What other regions or programs can learn from this effort
Scaling or Policy Implications	Next steps, replication opportunities, policy integration plans

Step 10.3: Real-World Example:

- **Case Study: Rwanda**  
Scale-up of CHWs documented in WHO-supported country-led case study on community-based care
- **Case Study: Thailand**  
UHC journey case study used by World Bank and Harvard for global teaching
- **Case Study: Vietnam**  
Decentralized PHC strategy published by UNDP in community-led health innovation compendium
- **Case Study: Singapore**  
Integrated Care Pilot documentation used to drive national-level HealthySG policy shift

- **Technical Language Overload:** Use plain language, real voices, and data stories.
- **Delayed Documentation:** Collect data and reflections in real time during implementation.
- **Missed Stakeholder Voices:** Highlight CHWs, nurses, district directors, and patients — not just policy officials.

Step 10.4: Dissemination Strategies

- Audience:** National Leaders
- **Dissemination Tool:** Executive briefings with visuals, 3-minute story videos
- Audience:** General Public
- **Dissemination Tool:** Human-centered infographics, testimonials from communities
- Audience:** Donors & Development Partners
- **Dissemination Tool:** Written case studies, presentations at international forums (e.g., WHO, GFF)
- Audience:** Health Systems Learners
- **Dissemination Tool:** Integration into policy curricula, nursing and public health schools, civil service training institutes

Step 10.5: Risks and Pitfalls

- **Overly Polished Narratives:** Focus only on success loses credibility. Showcase learning.

Checklist for Step 10:  
Case Study Development Completion Checklist

- ☐ Pilot projects selected with clear success and learning value.
- ☐ Full narrative, data, and media content structure outlined.
- ☐ Dissemination tools planned for diverse audiences.
- ☐ Update and follow-up system scheduled for tracking long-term impact.

Conclusion & Further Recommendations

Embedding Learnings & Sustaining Action

- Institutionalize health transformation leadership through a Permanent Reform Secretariat or Health Futures Council.
- Refresh national strategy every 3–5 years using M&E insights and international benchmarking.
- Celebrate public health champions at all levels — community, facility, regional, and national.

Stakeholder Engagement

- Maintain community feedback loops and CHW councils to shape ongoing policy.
- Create Health Innovation Hubs where local solutions (e.g., apps, diagnostics, logistics) can be piloted and scaled.
- Involve youth, patients, and media in annual health summits and story campaigns.

Additional Resources & References

Source	Focus
WHO Health Systems Framework	Service delivery, health workforce, information, financing, governance
World Bank UHC Compendium	Case studies and reform pathway examples
Health Systems Global	Implementation research networks and practitioner communities
Digital Square (PATH, USAID)	Toolkits for digital health design and scaling