

Health System in Saudi Arabia

DR. BADER AL-IBRAHIM

FIELD EPIDEMIOLOGY TRAINING
PROGRAM

MINISTRY OF HEALTH

Lecture Objectives

- To know why should a medical student understand the health system
- To understand what is a health system
- To know the components of a health system
- To Know the strengths and weaknesses of the current health system
- To know the challenges facing the current Saudi health system
- To know the future changes in the Saudi Health System Strategy

Why should a medical student understand the health system

- You belong to it
(you are part of the system)
- To participate in the system's improvement process
- To understand the medico-legal aspects of patient care



Health System

Definitions

What is Health:

“Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity”

(WHO) 1948

Health System

Definitions

What is a System ?

A SET OF INTERRELATED AND INDEPENDENT PARTS DESIGNED TO ACHIEVE A SET OF GOALS.

What is a Health System ?

A health system is the total of all the organizations, institutions and resources whose primary purpose is to improve health.

Health System Needs

A health system needs to provide services that are:

- **Responsive,**
- **Financially fair,**
- **Treating people decently.**

(WHO)

Health System: Components

- **Financing Resources**
- **Legislative Authorities**
- **Health Regulators**
- **Health Care Providers**
- **Human Resources**
- **Medical supplies providers**
- **Pharmaceutical producers**
- **Judiciary Services**

Health System: Components

Financing Resources:

- **Governmental**
- **Out of pocket.**
- **Charity.**
- **Donation.**

Health System: Components

Legislative Authorities:

The Royal Cabinet:

- Al Shora Council
- The Bureau of Experts

Health System: Components

Health Regulators:

The National Organizations:

- The National Health Council
- Ministry of health
- The Saudi Commission for Health Specialties
- Council of Co-operative Health Insurance
- The Saudi Food and Drug Authority

Health System: Components

Health Care Providers:

- **Ministry of Health**
- **Ministry of Defense and Aviation**
- **National Guards**
- **Ministry of Interior**
- **Specialized Hospitals (KFSH, KKESH)**
- **Universities (Ministry of Higher Education)**

Health System: Components

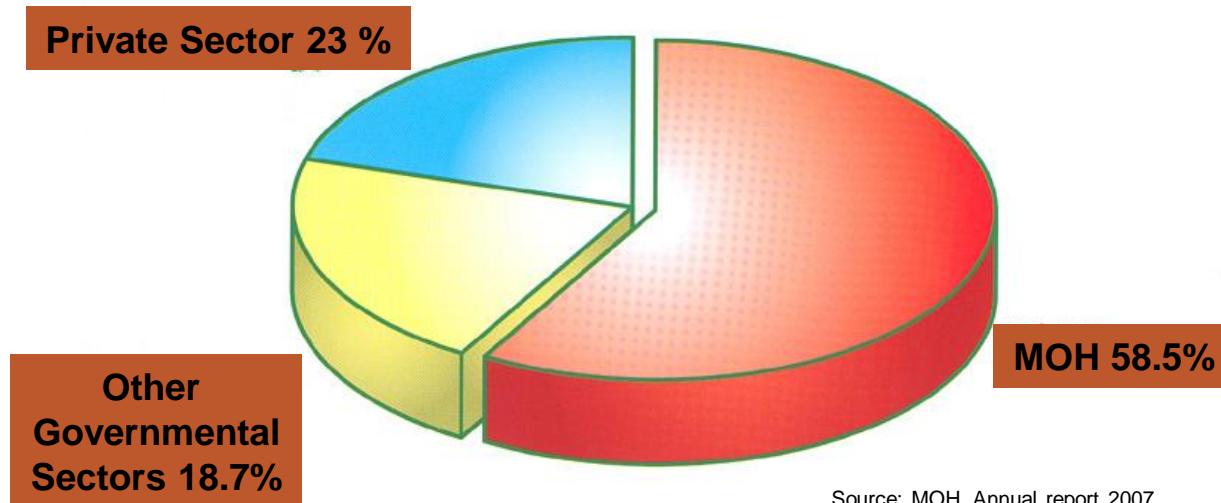
Health Care Providers:

- Ministry of Social welfare
- The Private Health Providers
- The big Companies:
 - Saudi Aramco,
 - SABIC,
 - Saudi Electric Company,
 - Saudi Airlines
- Charity Health Providers
- The Saudi Red Crescent

Health System: Components

Health Care Providers:

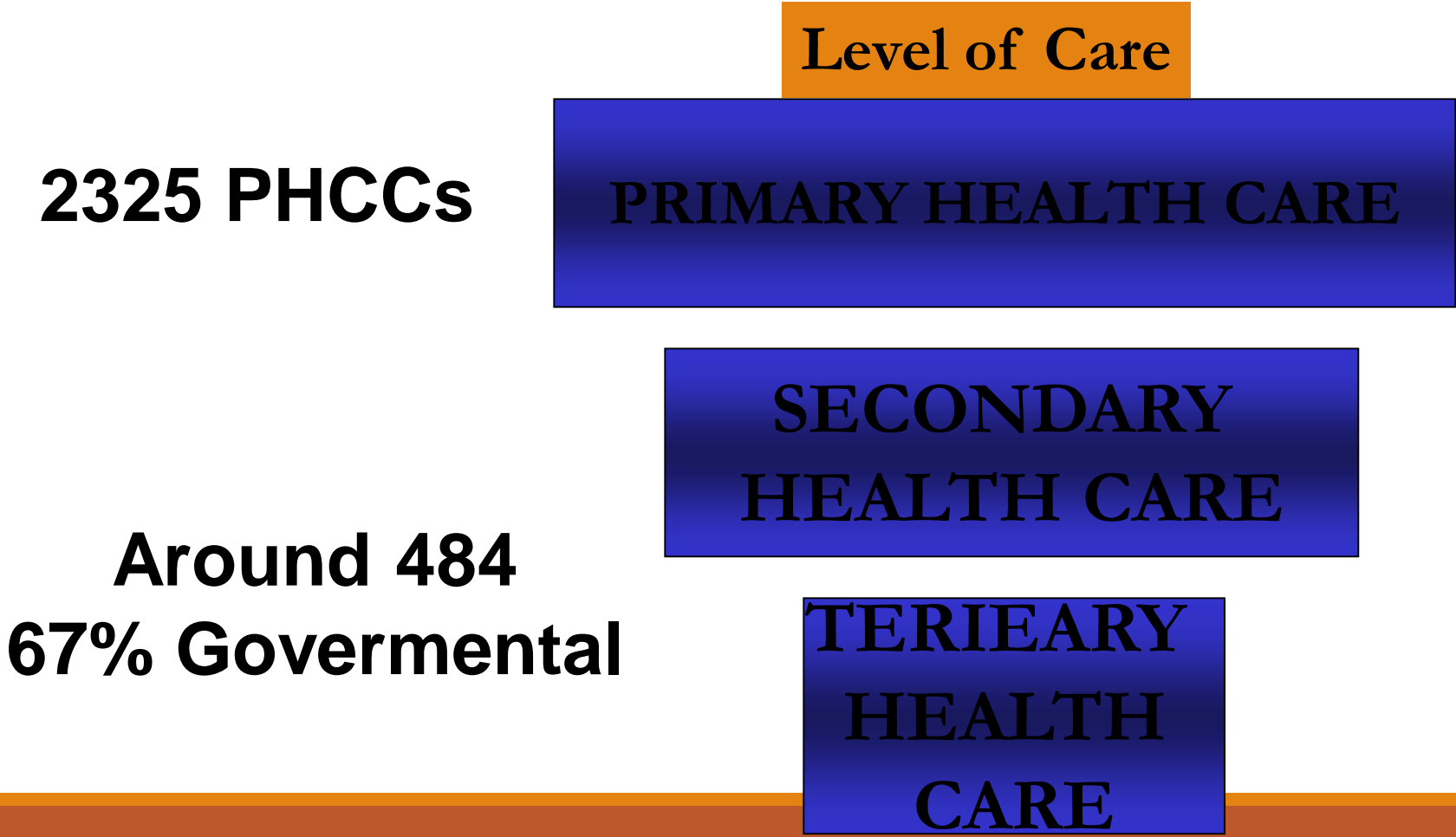
Hospital Beds distribution according to sectors



Source: MOH Annual report 2007

Health System: Components

Health Care Providers:



Health System: Components

Human Resources:

| Rates per 10,000 Population (MOH) | |
|-----------------------------------|------|
| Physicians including Dentists | 13.5 |
| Dentists | 1.13 |
| Pharmacists | 1.1 |
| Nurses including Midwives | 31.9 |
| Allied Health Personnel | 18.1 |

Health System: Components

Human Resources:

| Total Health Manpower in KSA | |
|-------------------------------|---------|
| Physicians including Dentists | 89.675 |
| Dentists | 13.935 |
| Pharmacists | 25.119 |
| Nurses including Midwives | 180.821 |
| Allied Health Personnel | 107.323 |
| | |

Health System: Components

Medical supplies providers:

- Medical supplies (consumables)
- Medical Equipment
- Medical Instruments
- Medical Devices

**Around 30 Medical Supplies
Factories in KSA**

Health System: Components

Pharmaceutical Producers:

- Medications
- Medical Solutions
- Immunizations

Health System: Components

Judiciary Services

- **Committee for Private sector violations**
- **Medico-legal committee.**
- **Health Insurance Violation Committee**



Role of Provincial Health Director

- **Manage Patient Care**
- **Supervise the private sector**
- **Supervise reporting of infectious diseases among all health providers**
- **Co-operate with health related agencies**
- **Participate in the health development planning**

STRENGTHS AND WEAKNESSES OF THE CURRENT HEALTH SYSTEM

Strengths:

- **Universal (covers everybody) (NHS)**
- **Accessible**
- **Comprehensive**
(primary, secondary and tertiary)
- **Safe**
- **Equitable**

Health System in Saudi Arabia

| Vital Statistics | |
|--|-------|
| Crude Birth Rate/ 1000 population | 17.23 |
| Crude Death Rate/1000 population | 2.9 |
| Life Expectancy at Birth (years) | |
| Males | 73.5 |
| Females | 76.1 |
| Total | 74.8 |
| Total Fertility Rate | 2.4 |
| Neonatal Mortality Rate/1000 live birth | 2.74 |
| Infant Mortality Rate/1000 live birth | 4.82 |
| Under 5 years Mortality Rate/1000 live birth | 8.05 |
| live birth .000Maternal Mortality Ratio/ 100 | 12 |

STRENGTHS AND WEAKNESSES OF THE CURRENT HEALTH SYSTEM

Weaknesses:

- **Weak Primary care**
- **Multi - sectoral:**
 - **Duplication of services among Providers**
 - **Difficult to Co-ordinate**
 - **Waste of resources**

CHALLENGES FACING THE CURRENT HEALTH SYSTEM

■ Financial

**Budget allocated to the health sector
by the Ministry of Health :**

1956: 39.549.458 SR

1958: 68.480.000 SR

1960: 116.395.000 SR

2009: 40.43 billion SR

2010: 61.20 billion SR

2019: 172 billion SR

CHALLENGES FACING THE CURRENT HEALTH SYSTEM

- **Financial**
- **Data for decision-making/policy-making .**
- **Manpower**
- **Population:**
 - **Growth**
 - **Aging**
 - **Demanding**
- **Changes in Disease patterns (NCD)**
- **New medical technologies and
new medications**

HIGH COST OF HEALTH CARE

Why?

- Population growth of 3.1% per annum
- Increased demand on health services
- Rise in the cost of health care

HIGH COST OF HEALTH CARE

What to
do with...



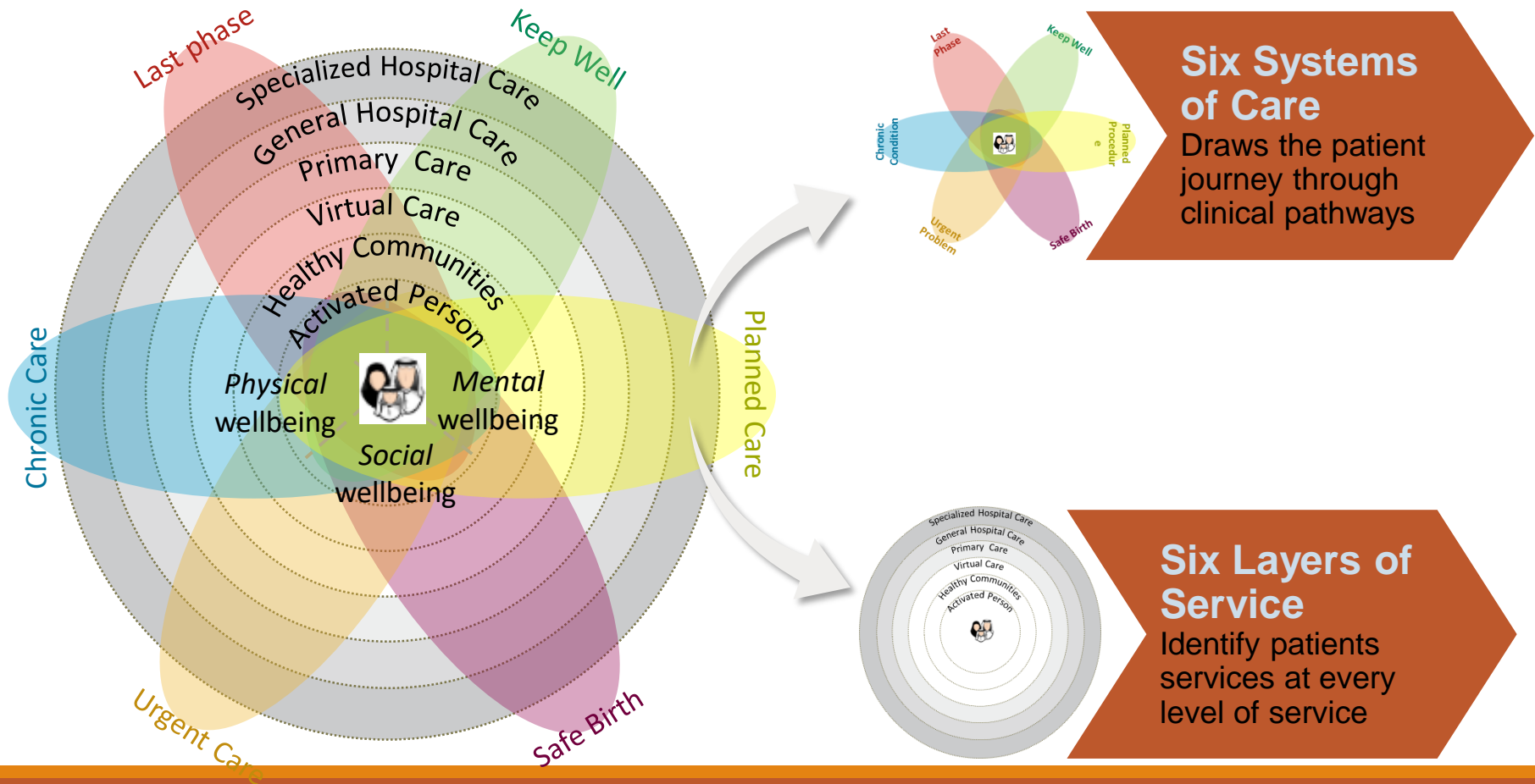
A delivery system that prevents
abuse and excessive use

a managed health care model,
under the
National Health Insurance

New Model Of Care

Model of Care (MoC) is based on six systems of care that center around ensuring patient well-being and contributing to a healthier society

Model of Care design



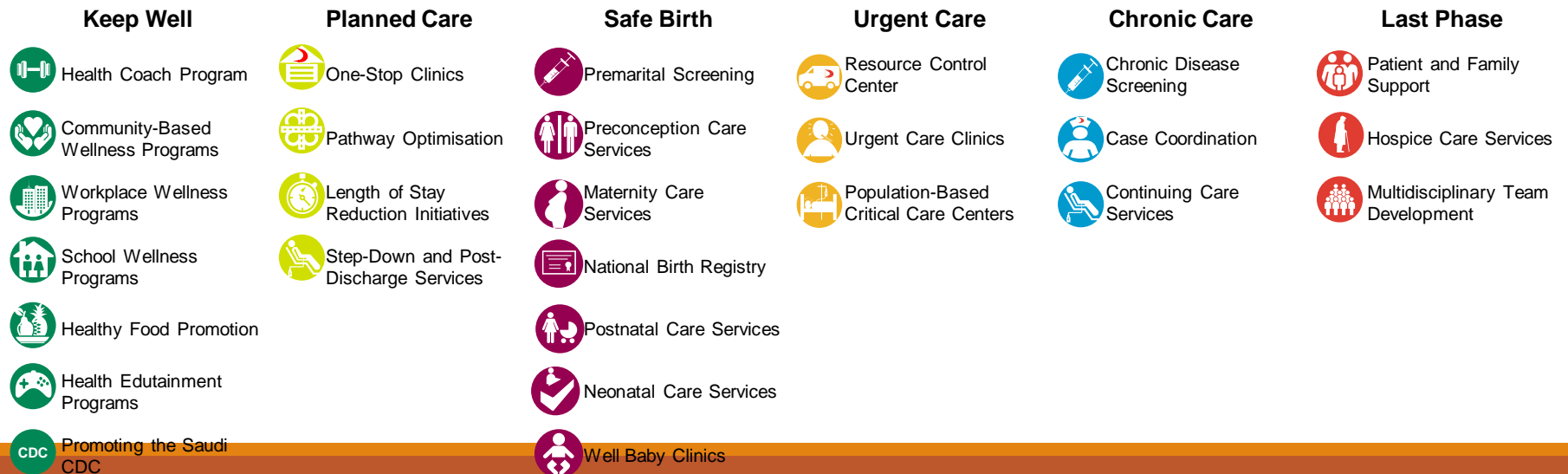
MoC will be delivered through the 42 interventions spread across Systems of Care, which will be rolled out across all the clusters

Model of Care Interventions

Interventions cross-cutting all Systems of Care

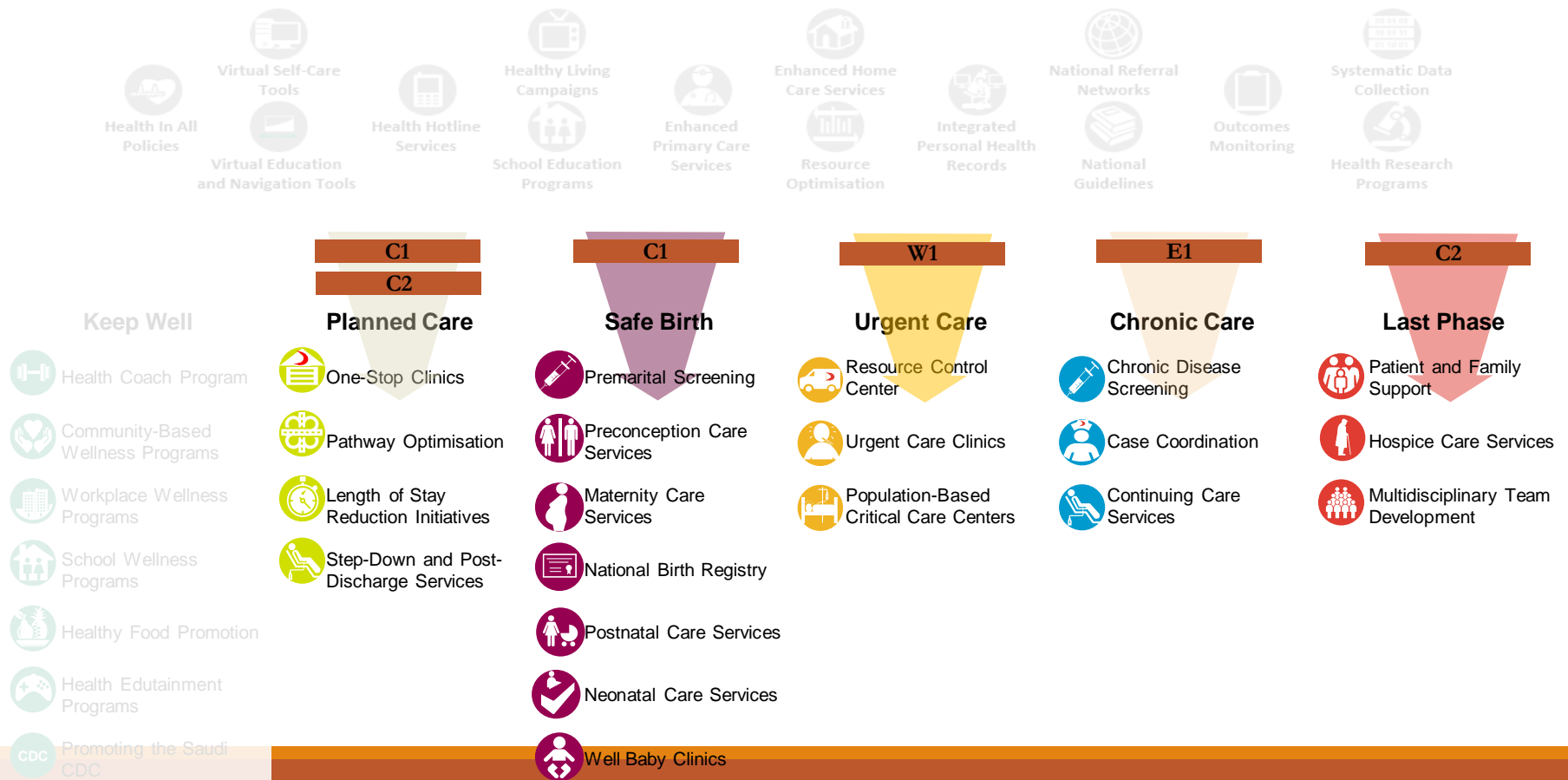


Interventions specific to Systems of Care



Currently, each Cluster is running specific pilots corresponding to a given System of Care

Model of Care Interventions



MoC aim is to create comprehensive Integrated Care Systems for holistic care delivery based on the Model of Care

How does MoC fit into Integrated Care Systems?

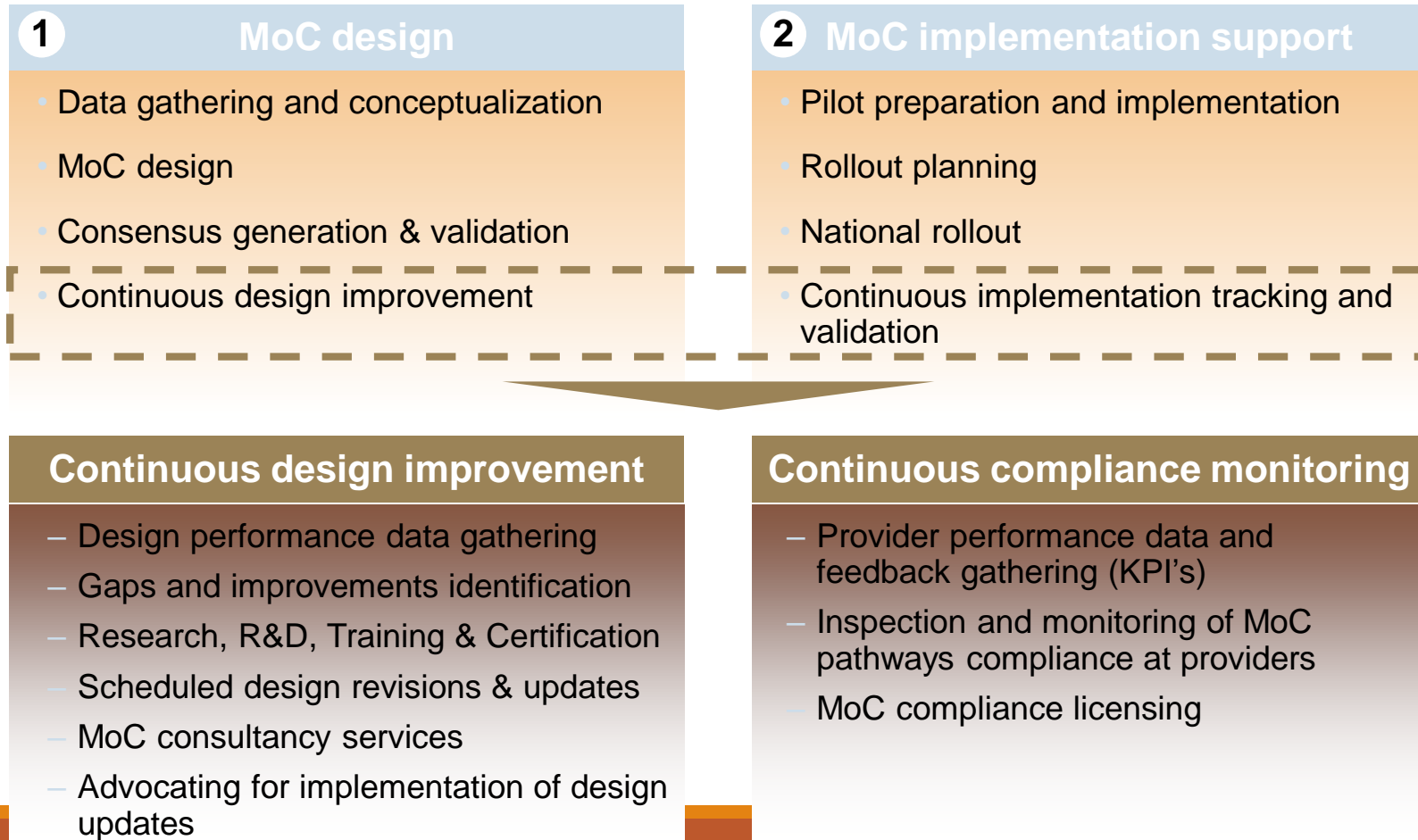


Model of Care interventions will be responsible for delivery of all health services from preventive to curative to a defined population according to their needs over time and across different levels of the health system

The objective of the MoC workstream is to design and implement KSA's future healthcare delivery system

Key activities of MoC workstream

Work in progress



We are currently nearing the end of Phase III and are preparing for Phase IV

MoC roadmap and progress so far

Phase IV: Conduct national roll out

We're prepping for this

Phase III: Launch pilots and continue preparations

We're here

Phase II: Prepare for pilot implementation

Phase I: Design the MoC



In Phase I, citizens, experts and workforce were engaged to design the new Model of Care...

Phase I: MoC design effort



60,000+ citizens participated in Public Survey around the patient centric design

2500+ healthcare professionals engaged in e-discussions

1000+ healthcare professionals surveyed to identify improvement opportunities

400+ healthcare professionals from around the country participated in assessing the current system

3 Care Design Group sessions were held to address key issues in KSA healthcare delivery, shortlist necessary interventions, and design the SoCs¹

In Phase II, preparation initiated for implementation by detailing a pathway for each System of Care, 6 national interventions and a national cost-benefit analysis

Phase II: Pathway development and implementation preparation

2a Workstream 1

Regional Pathway Development

5 Systems of Care were detailed¹ by 5 National Pathfinders



2b Workstream 2

National Implementation Planning

6 Cross-cutting interventions + Keep Well were detailed by a centralized team of experts

Cross-cutting interventions

- National Guidelines
- Virtual Education and Navigation Tools
- Enhanced Primary Care Services
- Healthy Living Campaigns

Keep Well interventions

- School Wellness
- Health Coach Program

2c Cost benefit analysis

A top-down estimate of the economic impact of all the Systems of Care and all the cross-cutting interventions

In Phase III, 5 pathway development projects (pilots) launched and continued detailing interventions

Phase III: Pilots implementation

3a Pathway pilot implementation

Ownership of pathways transferred to clusters

Central Cluster 1
Safe Birth & Planned Care

Central Cluster 2
Last Phase & Planned Care

Jeddah Pilot
Hypertension


Eastern Cluster
Chronic Care

Western Cluster 1
Urgent Care






3b National interventions development




Specialized Care

-  Ophthalmology
-  Oncology
-  Mental Health Services

Urgent Care Pilots

-  Acute Coronary Syndrome
-  Stroke
-  Trauma

Cross-Cutting

-  Resource optimization
-  Health Hotline
-  National Referral Networks

 **Health in All Policies & GIS**

3c Cost benefit analysis

A bottom-up economic impact estimation of the Model of Care based on learnings from the pathway implementation projects

currently planning MoC cluster rollouts as the first step towards national rollout

Phase IV: National rollout

Focus areas for rollout planning



Capability building

Develop capabilities to implement and maintain MoC



Engagement and adoption

Create a sense of ownership at clinical and community-level to support roll-out



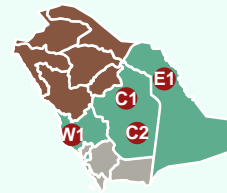
Funding

Secure the required funding for national implementation of MoC

Rollout planning tracks

In progress

Planning for MoC roll out in **current clusters**



Planning for MoC roll out in unclustered providers



Rollout Tracks

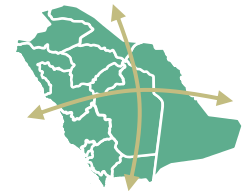
Initiated

Planning for MoC roll out support mechanisms needed for implementation



illustrative

Planning for MoC roll out for **national interventions**



Thank You!