



中国结核病防治
CHINA TUBERCULOSIS CONTROL AND PREVENTION

TB Control in China --Challenges and Opportunities

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- Policy and strategy
- Achievement
- Challenge
- Look forward



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Policy and strategy



Strategy

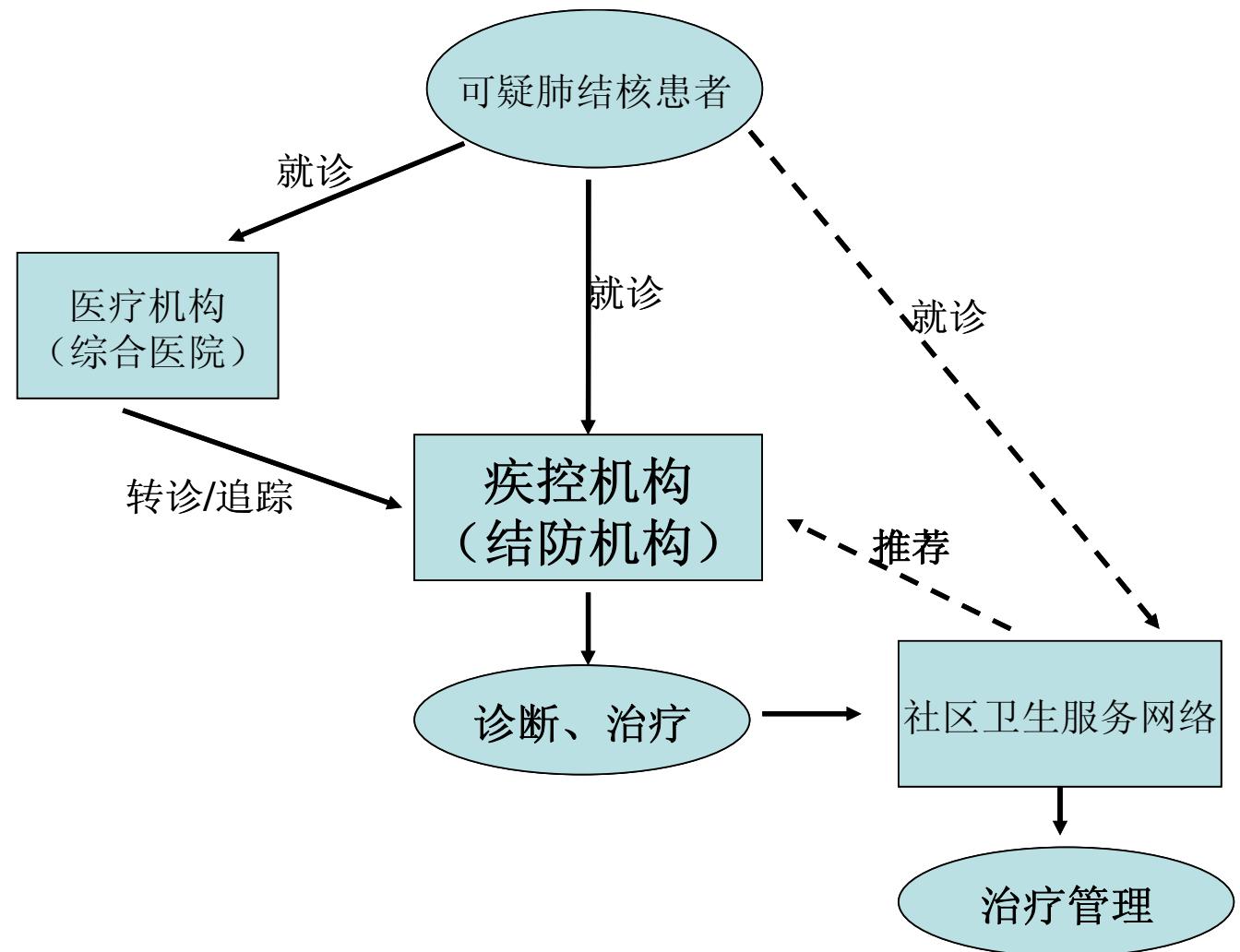
Strategy: DOTS strategy

- Policy of patients centralized
 - Free diagnosis for TB: Microscopy and X-ray examination
 - Free anti-TB drug for treatment: first-line anti-TB drugs and DOT
- Piloting for addressing challenges
 - Vulnerable groups: floating population and prisoners
 - TB/HIV
 - MDR



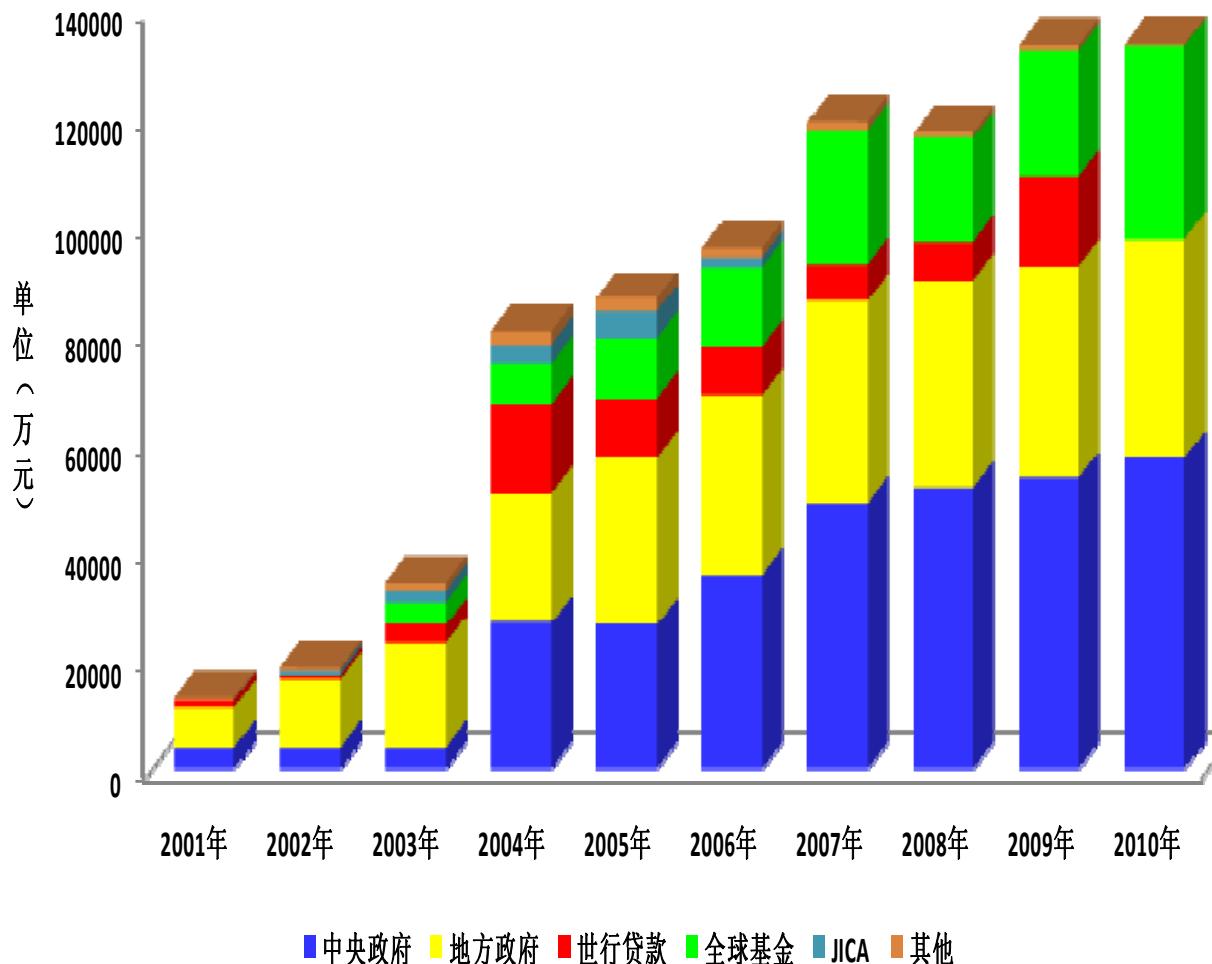
TB service system

- Diagnosis and treatment by TB dispensaries
- Reporting/referring from hospitals
- Referring suspects and DOT by the community health center





Available Funds from 2001 to 2010



Central government increased funding from 40 million in 2001 to 0.58 billion in 2010

Funds (RMB) for TB control was increased from 0.13 billion in 2001 to 1.34 billion in 2010



Internet-based National TB Information System

中国疾病预防控制信息系统 - Windows Internet Explorer

http://1.202.129.170:81/SMP/logon.do?method=ACTION_METHOD_FLAG_LIST&ticket=ST-11426-HrJkl0ivYe2

收藏夹 中国疾病预防控制信息系统

Google

您好, 黄飞 修改个人信息 修改密码 退出

在线人数 : 3949 / 44085

--其他业务系统--

Function Menu

结核病管理信息系统

报告卡管理

报告卡浏览

病案管理

患者病案登记

耐多药可疑者

耐多药患者管理

患者转出管理

患者转入管理

项目管理

项目维护

项目启动情况统计表

季度录入报表

药品用里季度录入表

初诊患者检查情况

上季度结核病实验室工作情况

新登记涂阳患者家庭密切接触者

乡镇查痰点设置及患者发现情况

健康教育活动报表

督导治疗情况

诊断单位浏览 ---国家---

录入时间 2011-04-18 至 2011-04-18

登记分类 --请选择--

患者姓名

病案状态 --请选择--

诊断结果 --请选择--

治疗分类 初治 复治 全部

登记号

转诊状态 --请选择--

户籍类型 --请选择--

停止治疗原因 --请选择--

耐药情况 --请选择--

HIV检查 --请选择--

Search Area

Case list

添加

显示登记本 查重

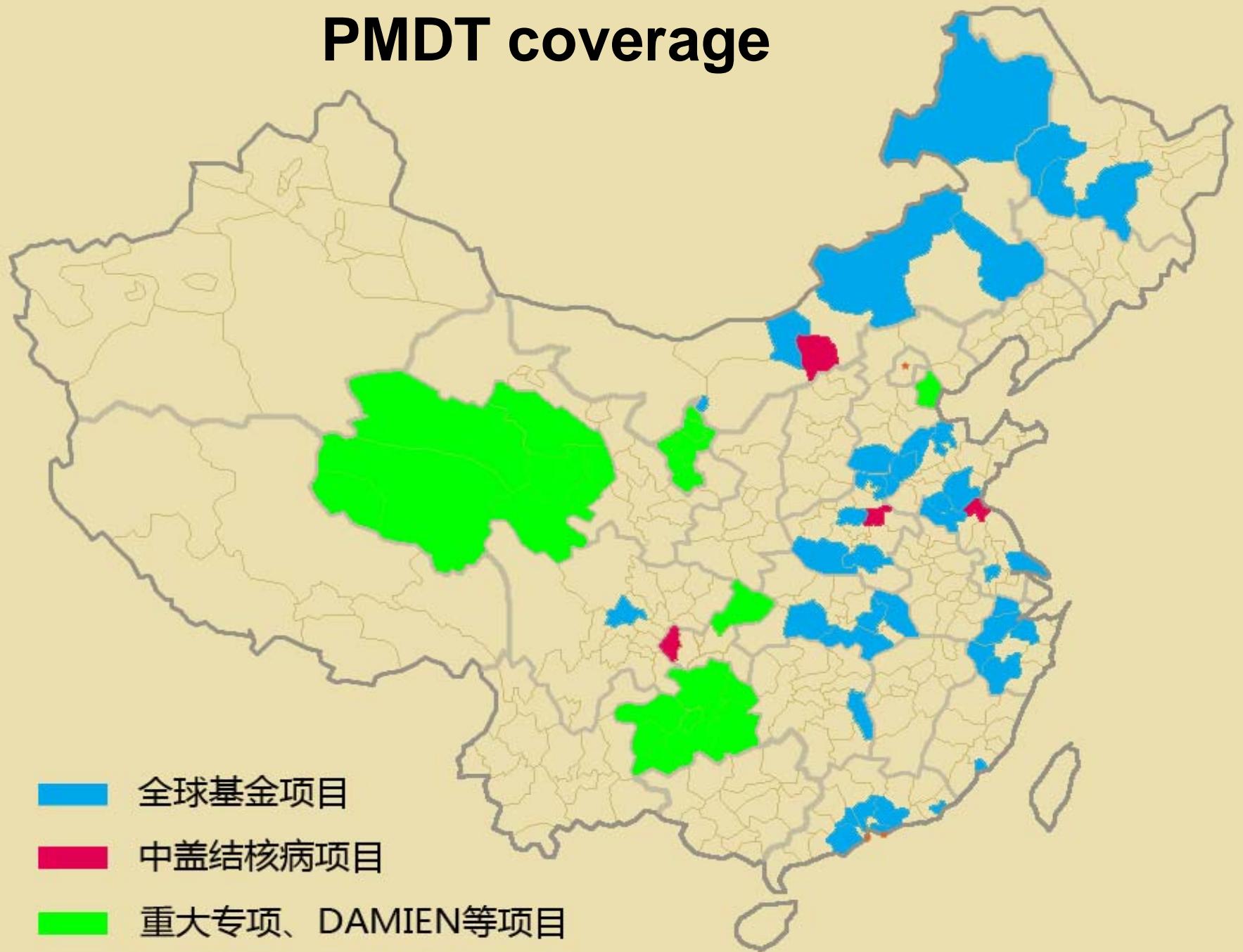
审核标记	登记号	首诊断单位	姓名	性别	年龄	登记日期	登记分类	诊断结果	2月末痰检结果	重新登记病案号	病案来源	治疗状态	转诊状态	操作
<input type="checkbox"/>	2211-00256	顺德区慢性病防治中心	王家军	男	36	2011-04-18	新患者	涂阴患者			收治	在治		查看
<input type="checkbox"/>	2211-00255	顺德区慢性病防治中心	张利民	男	22	2011-04-18	新患者	涂阴患者			新生成	在治		查看
<input type="checkbox"/>	2211-00254	顺德区慢性病防治中心	陈水养	男	42	2011-04-18	新患者	涂阴患者			收治	在治		查看
<input type="checkbox"/>	2211-00253	顺德区慢性病防治中心	郭照遗	男	48	2011-04-18	新患者	涂阴患者			收治	在治		查看
<input type="checkbox"/>	2211-00252	顺德区慢性病防治中心	闭华勇	男	33	2011-04-18	新患者	涂阴患者			收治	在治		查看
<input type="checkbox"/>	2211-00251	顺德区慢性病防治中心	黄志春	男	45	2011-04-18	新患者	涂阴患者			新生成	在治		查看
<input type="checkbox"/>	2211-00250	顺德区慢性病防治中心	段召林	男	26	2011-04-18	新患者	涂阴患者			新生成	在治		查看

完成

Internet | 保护模式: 启用

100%

PMDT coverage





Progress on MDR-TB control

--GF pilot Project

Explore MDR-TB service system

- Prefecture level is core
County level is pivot,
Community is base,
incorporate hospital,
CDC and district.

Verify the feasibility of technique

- Case finding strategy: high risk group screening, DST
- standardized treatment regimen: 6Z Km(Cm) Lfx Pto PAS/18Z Lfx Pto PAS
- Hospitalization and outpatient case management

Explore management mechanism

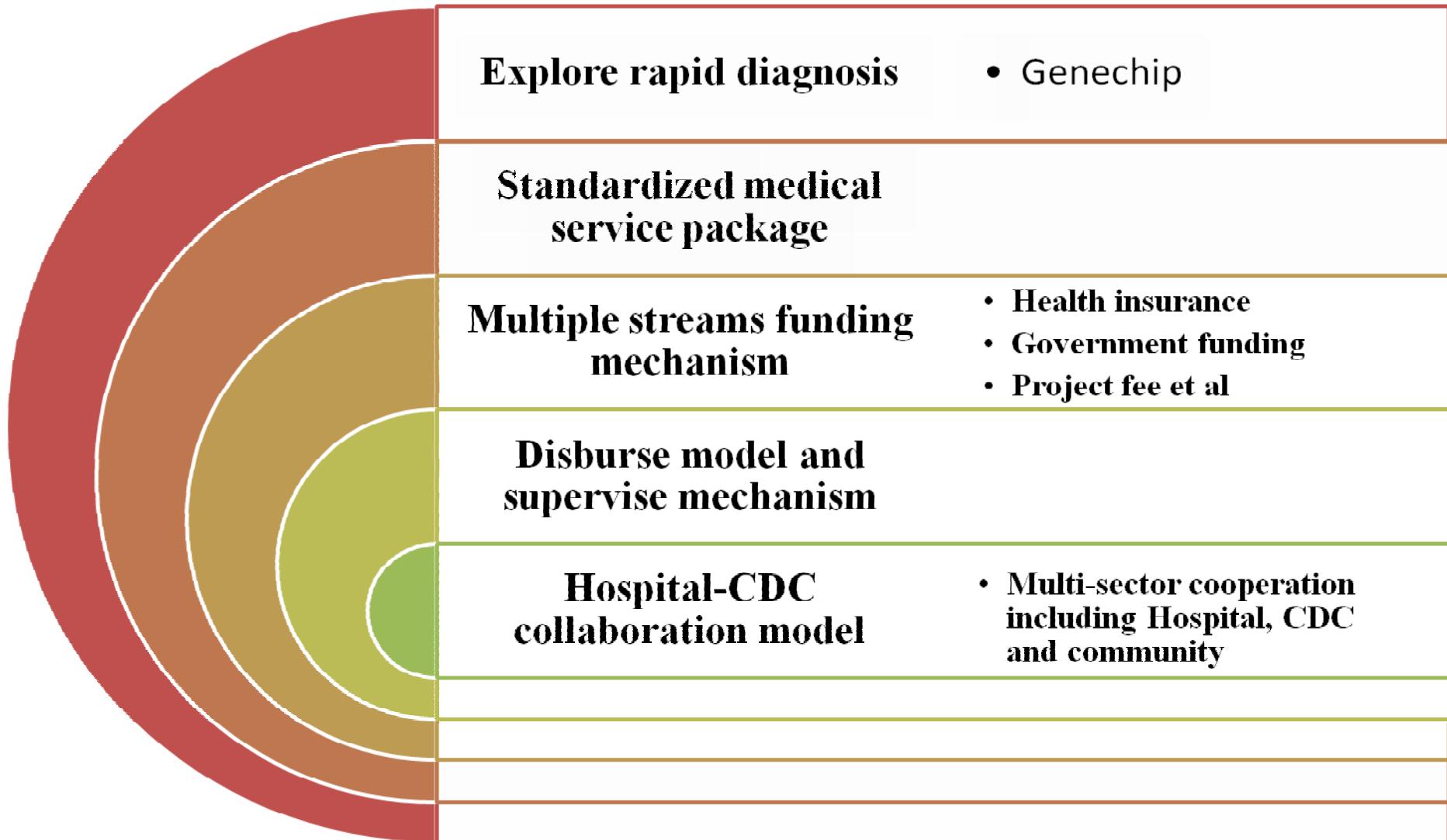
- Strict admittance mechanism: prefecture apply, provinces first review, national final review and approve

Ideal
preliminary
results



Progress on MDR-TB control

-- Gates MDR-TB Project



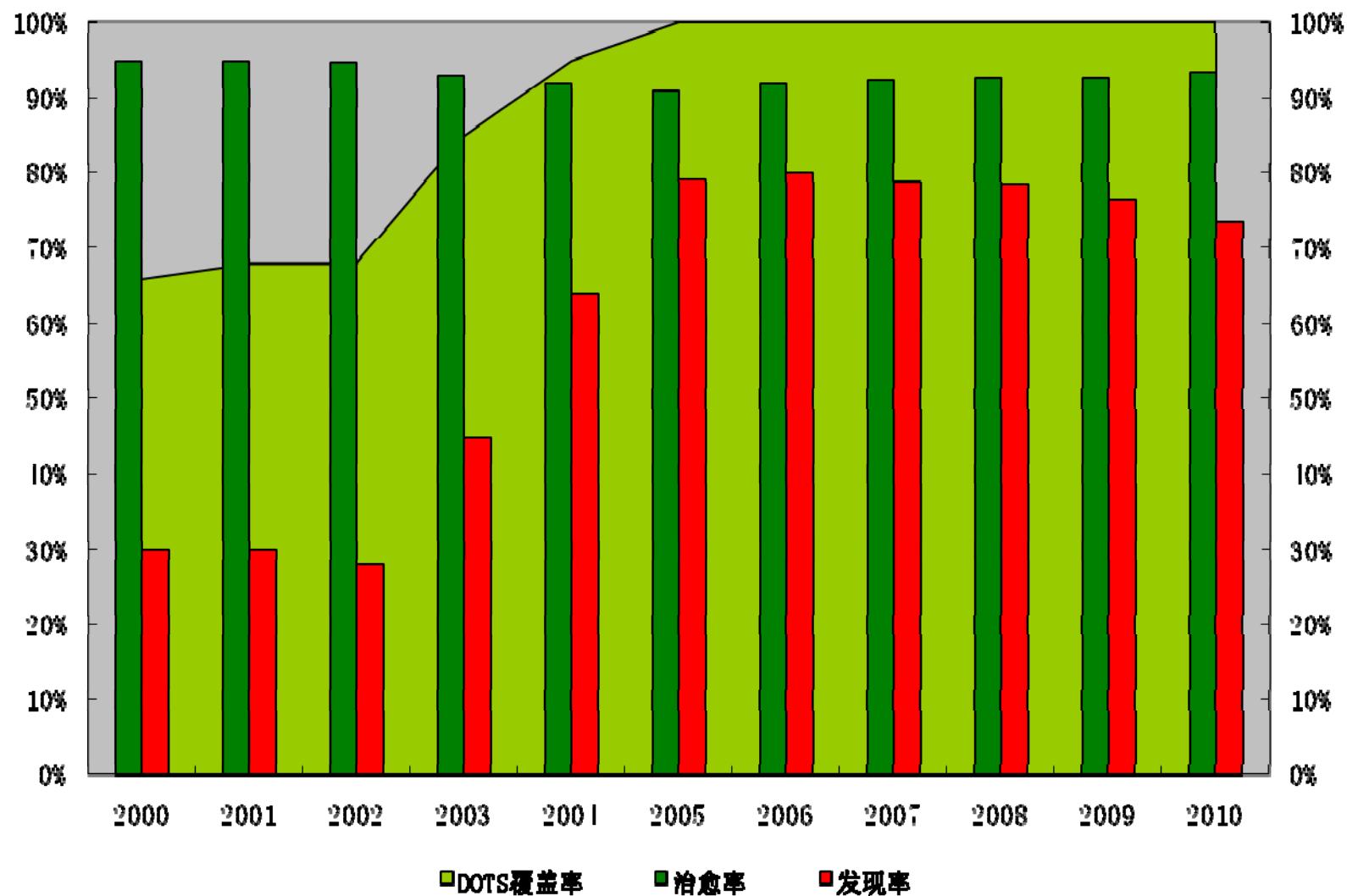


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Achievement of TB control



Three main targets



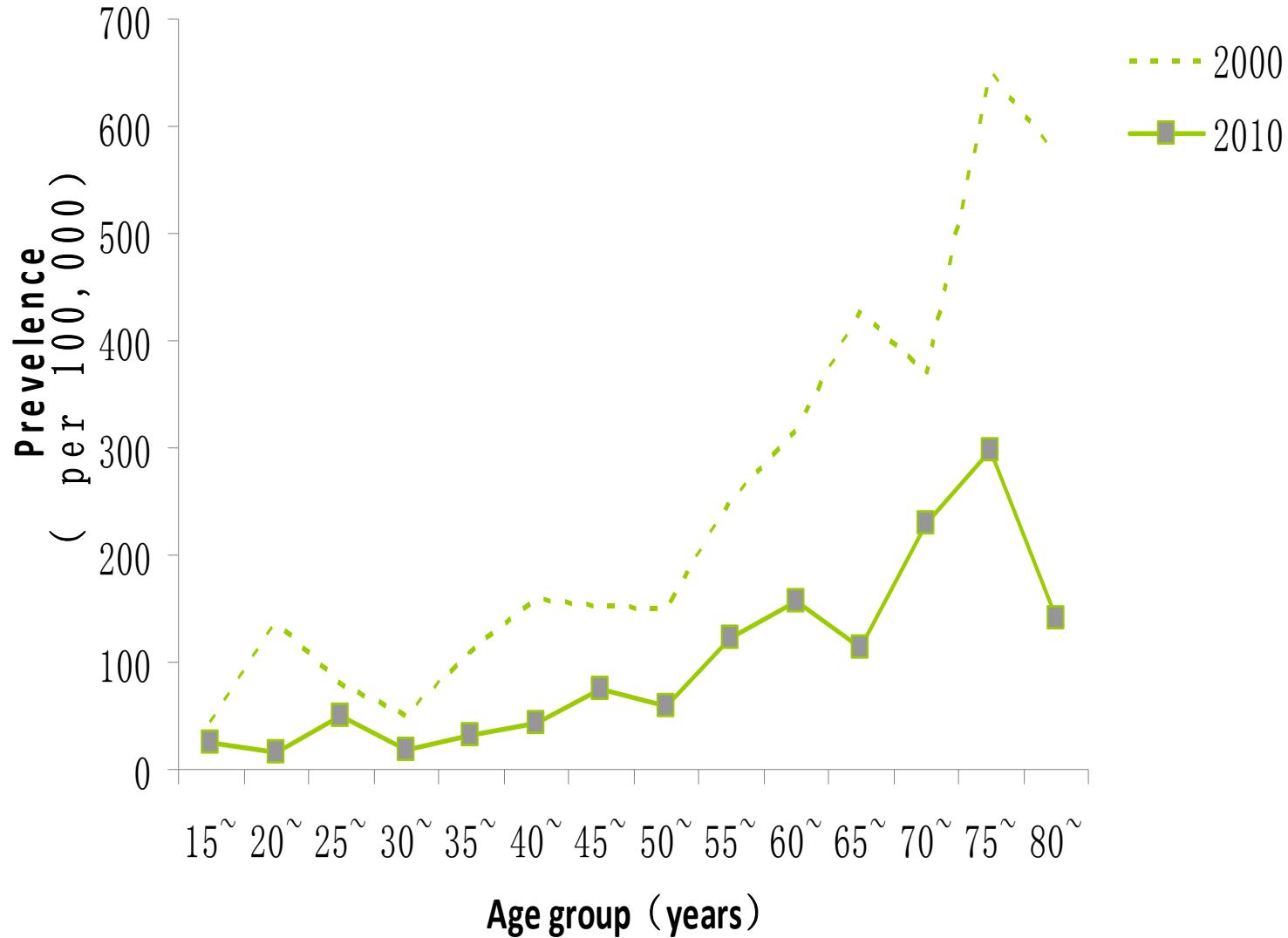


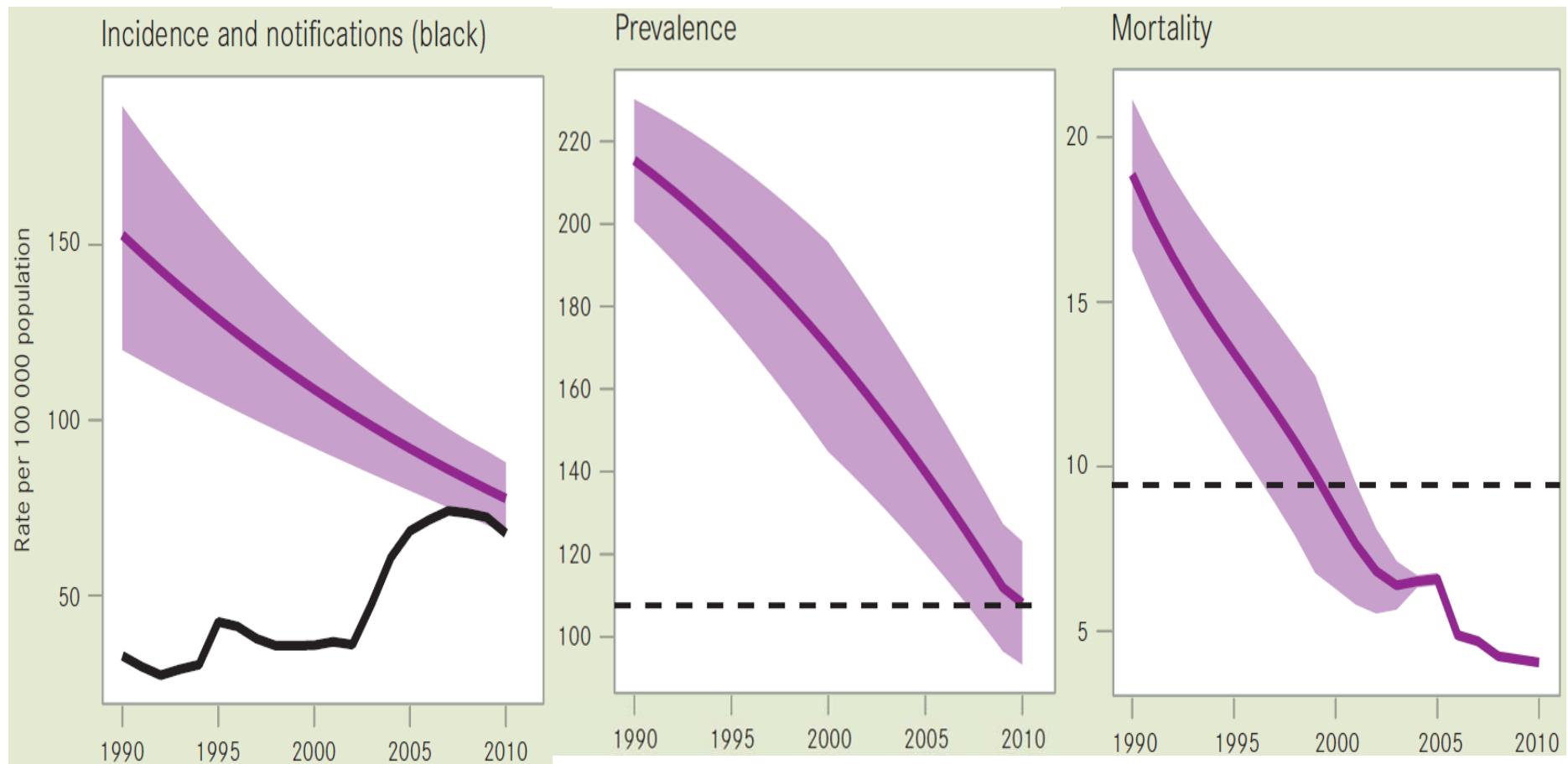
TB prevalence of groups ≥ 15

	Prevalence (1/100,000)		Decline (%)	Annual decline (%)
	2000	2010		
Active PTB	466	459	1.5	0.2
SS+	169	66	60.9	9.0
C+	216	119	44.9	5.8



Prevalence of SS+ patients



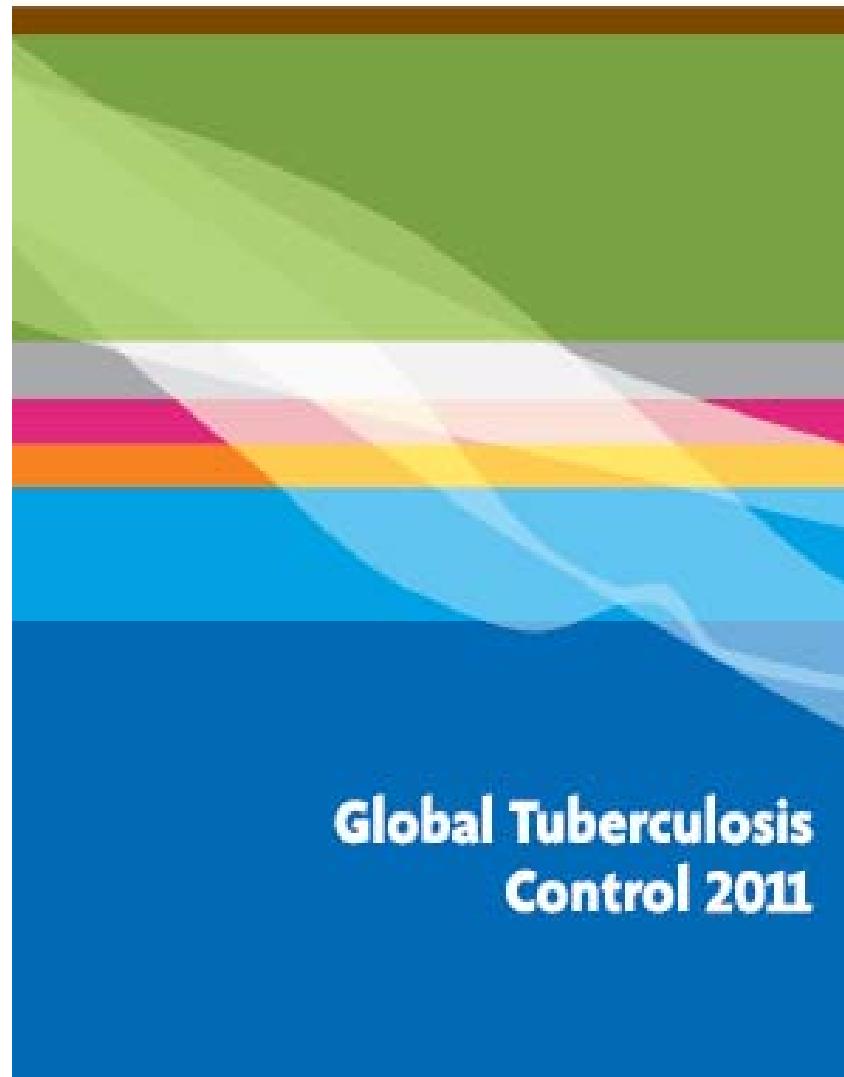




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Epidemiological
trend picture of
China showed on
the cover page of
WHO Global
Tuberculosis Control
report 2011





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Challenges

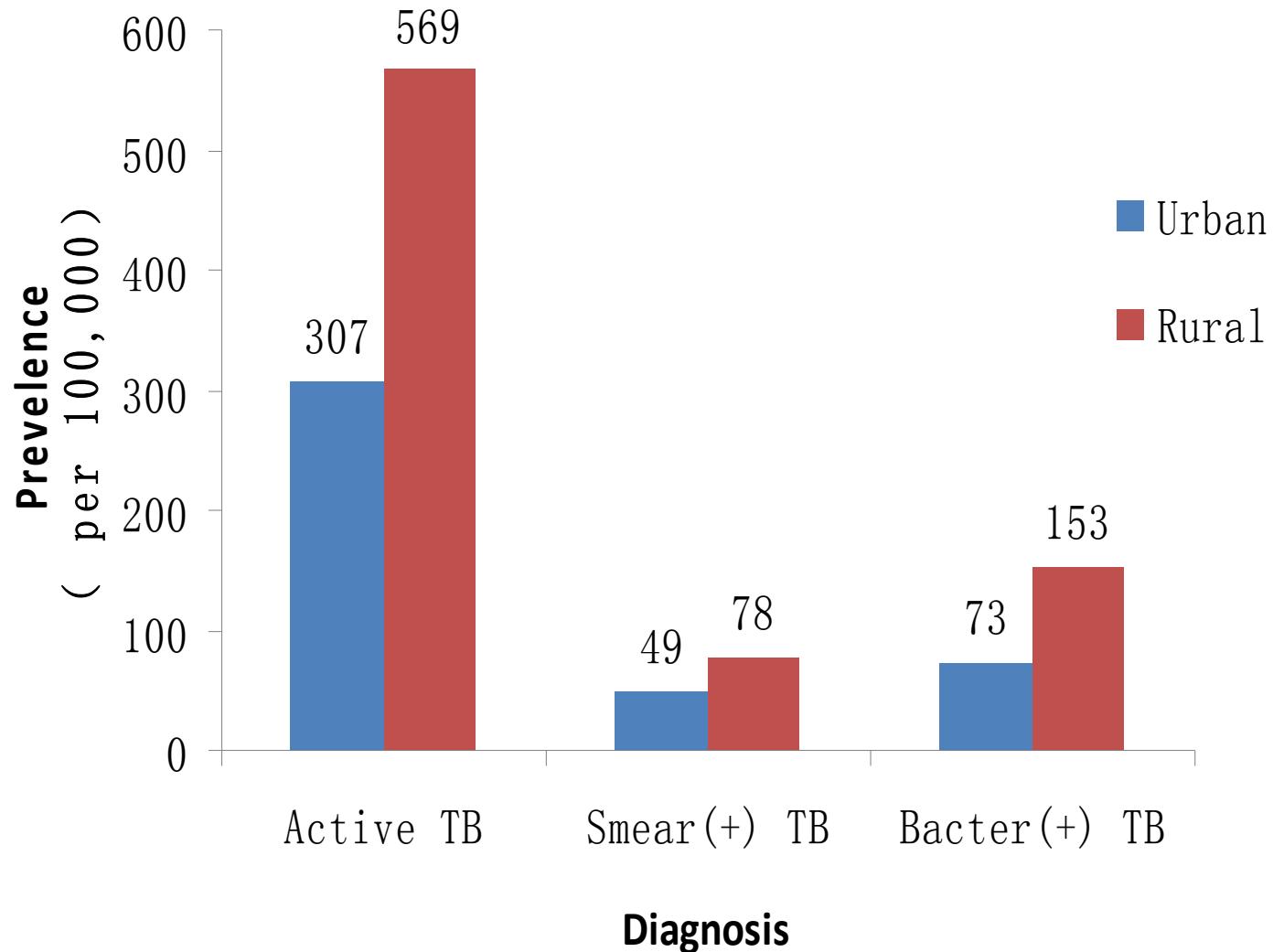


TB epidemic is still serious

- China ranks second among the 22 high burden countries, 1 million new TB patients estimated by WHO
- The reported TB incidence was TOP 1 or 2
- The results of 5th TB epidemic survey shows:
 - Estimated 5 million active PTB
 - TB prevalence are uneven in different areas
 - The proportion of patients without any symptom is high

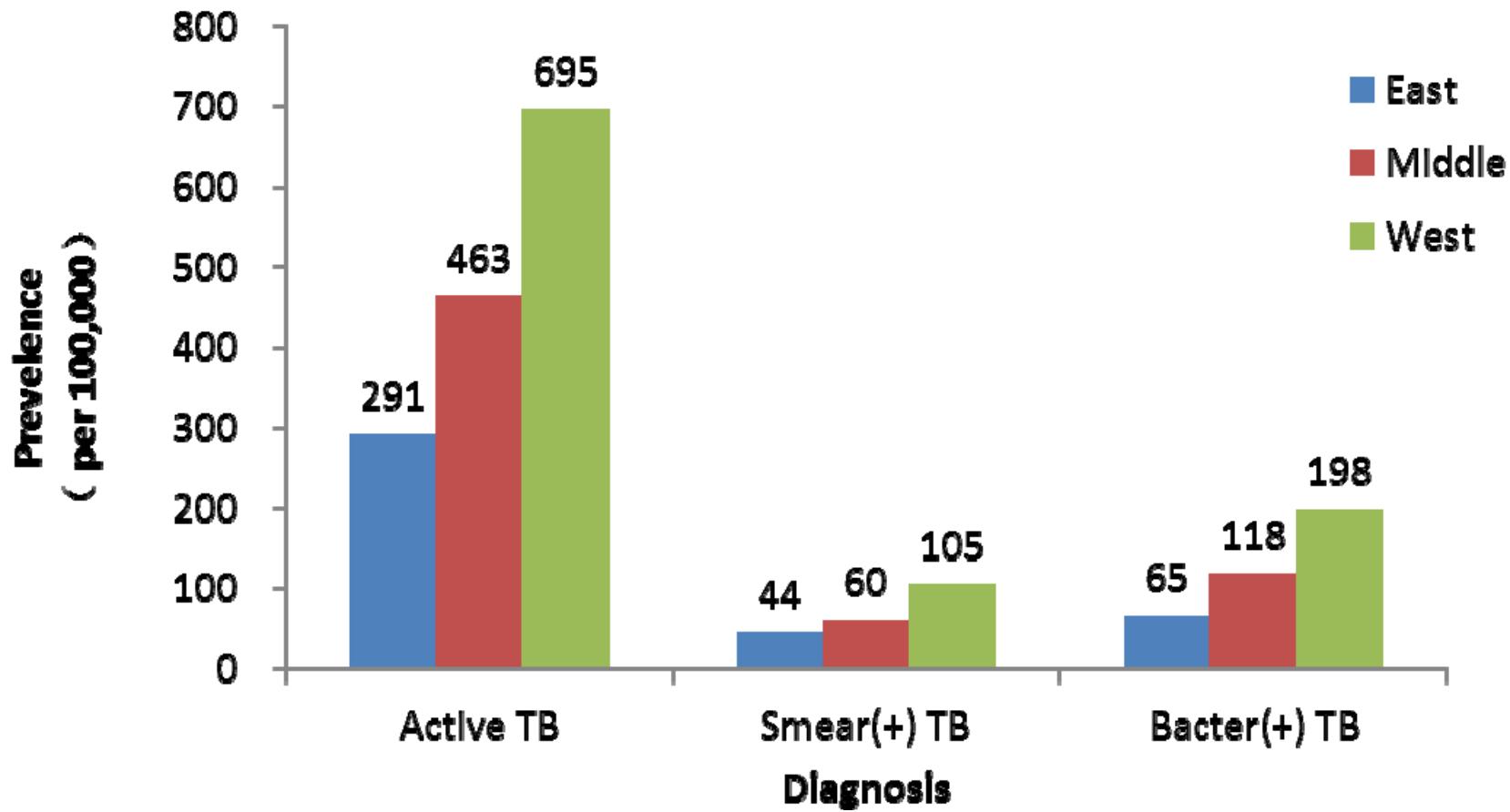


Prevalence in different area

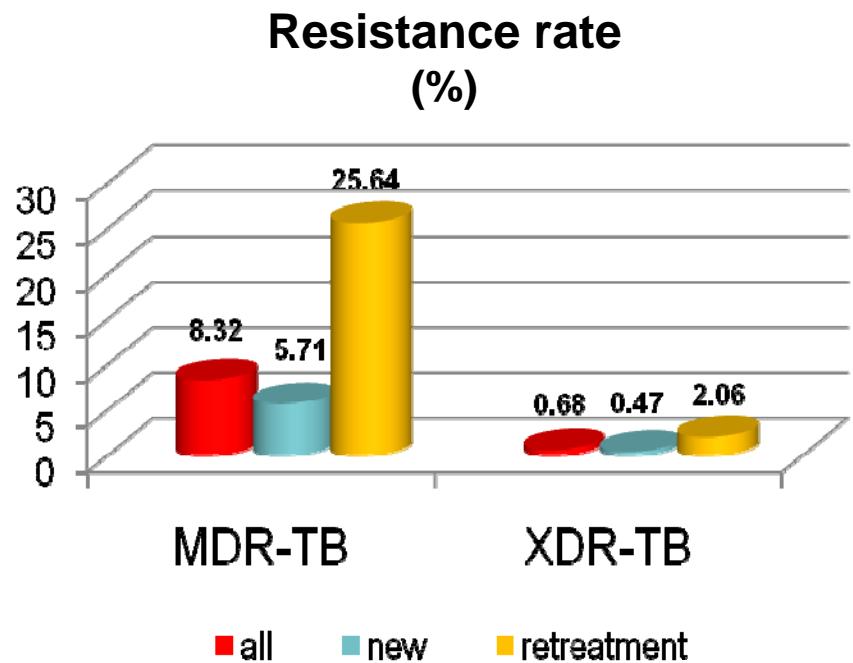




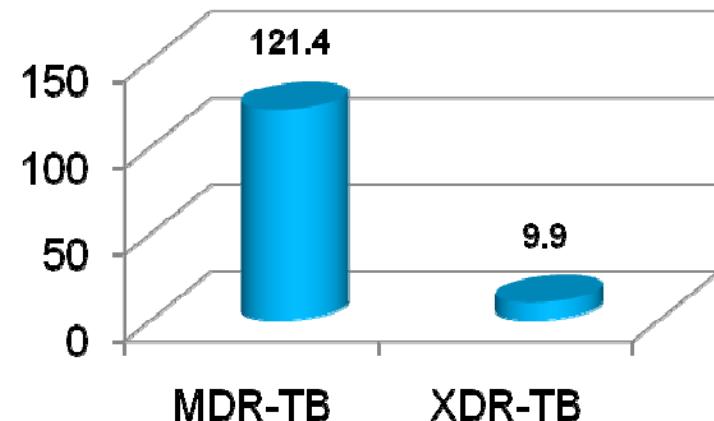
Prevalence in different areas



Epidemic of MDR-TB



Estimated number of new drug-resistance patients (thousand)

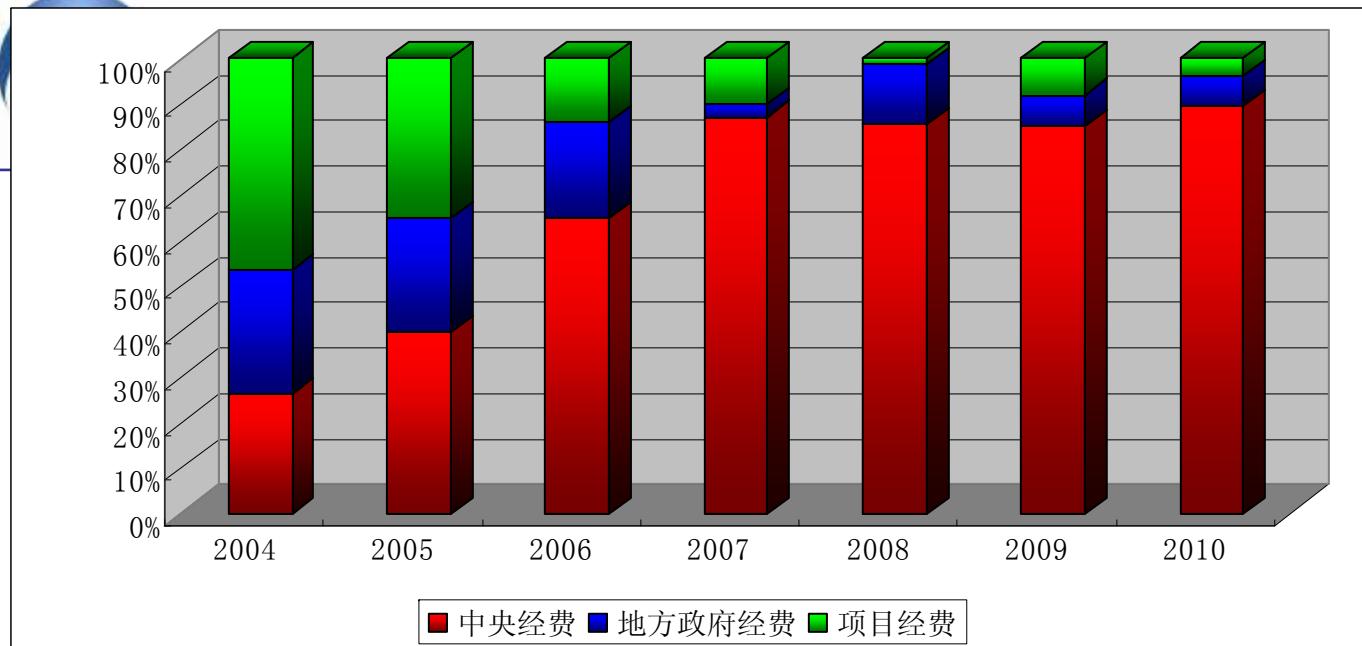


Source: National Baseline Survey on Drug-resistant Tuberculosis Report 2007-2008



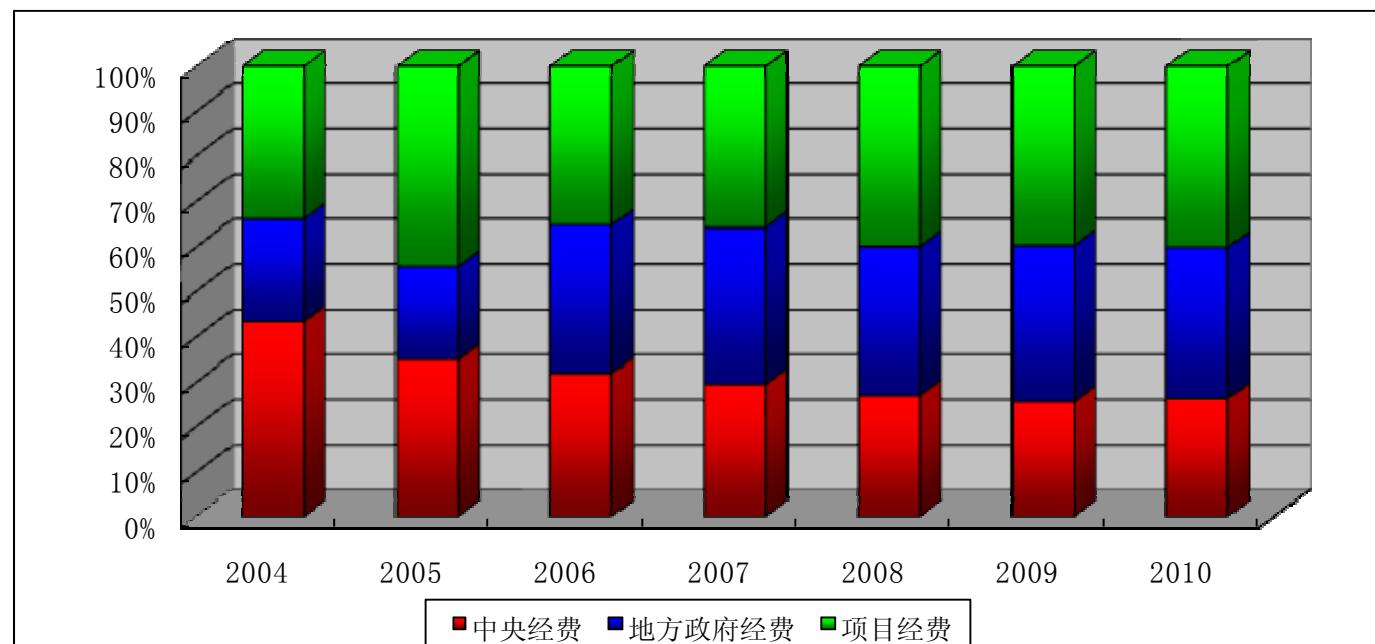
Insufficient funds of TB control

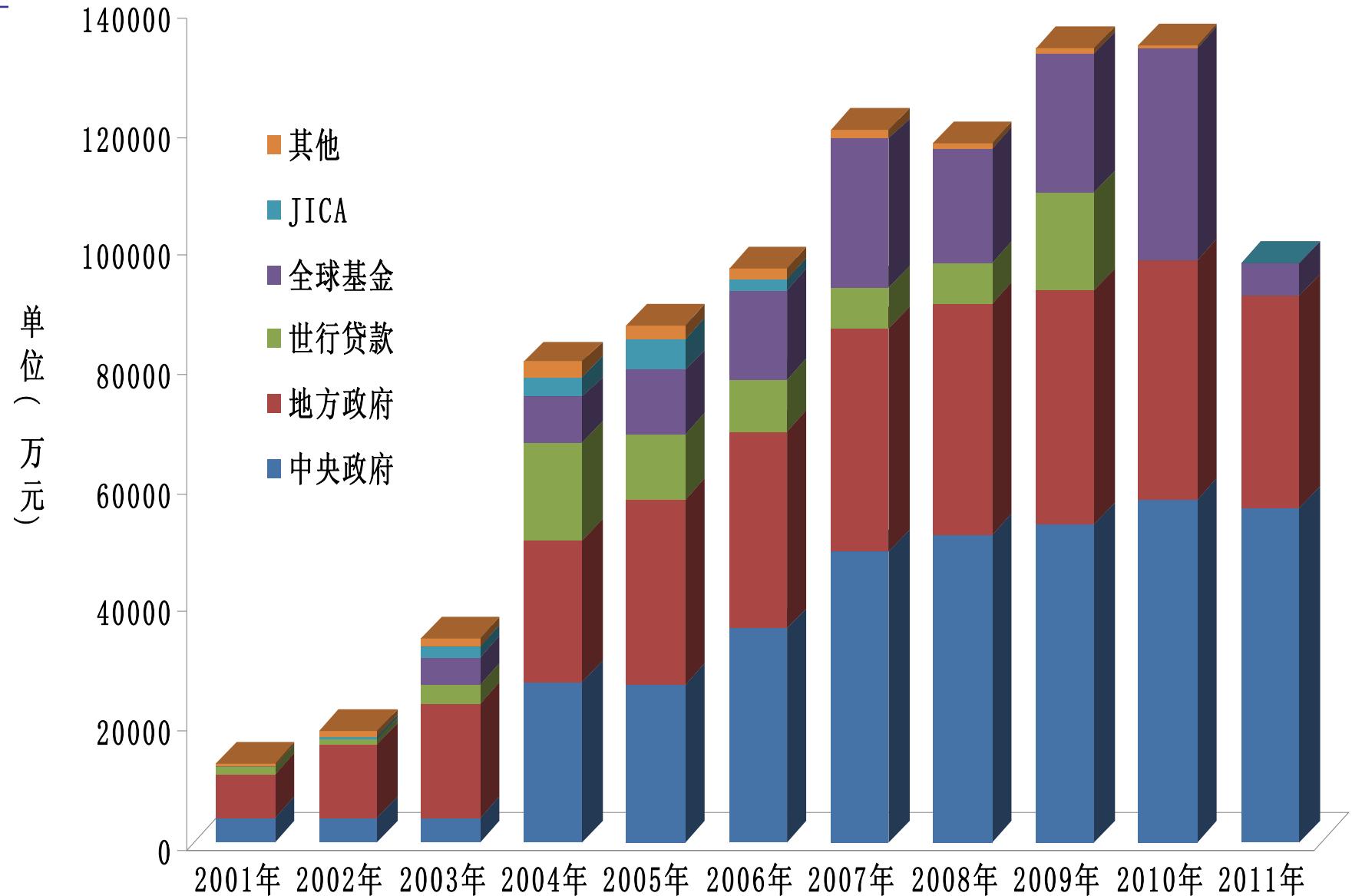
- There are still a financial gap for the basic services
 - Patient related package is very basic
 - Provider related funding (training, supervision, health promotion) rely on external funds in some areas
- More funding needed for increasing services level



2004-
2010年需
方经费的
来源构成
比，中央
经费占
80%

2004-2010年
供方经费的
来源构成
比，项目投
入占50%







Service system need to be perfected

- DOTS implementation units are based at county TB dispensary
 - provide very basic TB control services
- Hardware of Lab and Ward
- Lack of IC
- HR problem (Quantity and Quality)



Others

- **PMDT is limited in project areas**
- **Drugs issue**
- **TB/HIV cooperation need to be strengthened**
- **More intervention need to be taken in high risk groups**
- **Awareness is lower (57%)**
- **Research issue**



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Look forward



0008023

国务院办公厅文件

国办发〔2011〕53号

国务院办公厅关于印发全国结核病防治规划(2011—2015年)的通知

各省、自治区、直辖市人民政府，国务院各部委、各直属机构：
《全国结核病防治规划(2011—2015年)》已经国务院同意，现印发给你们，请认真贯彻执行。



— 1 —

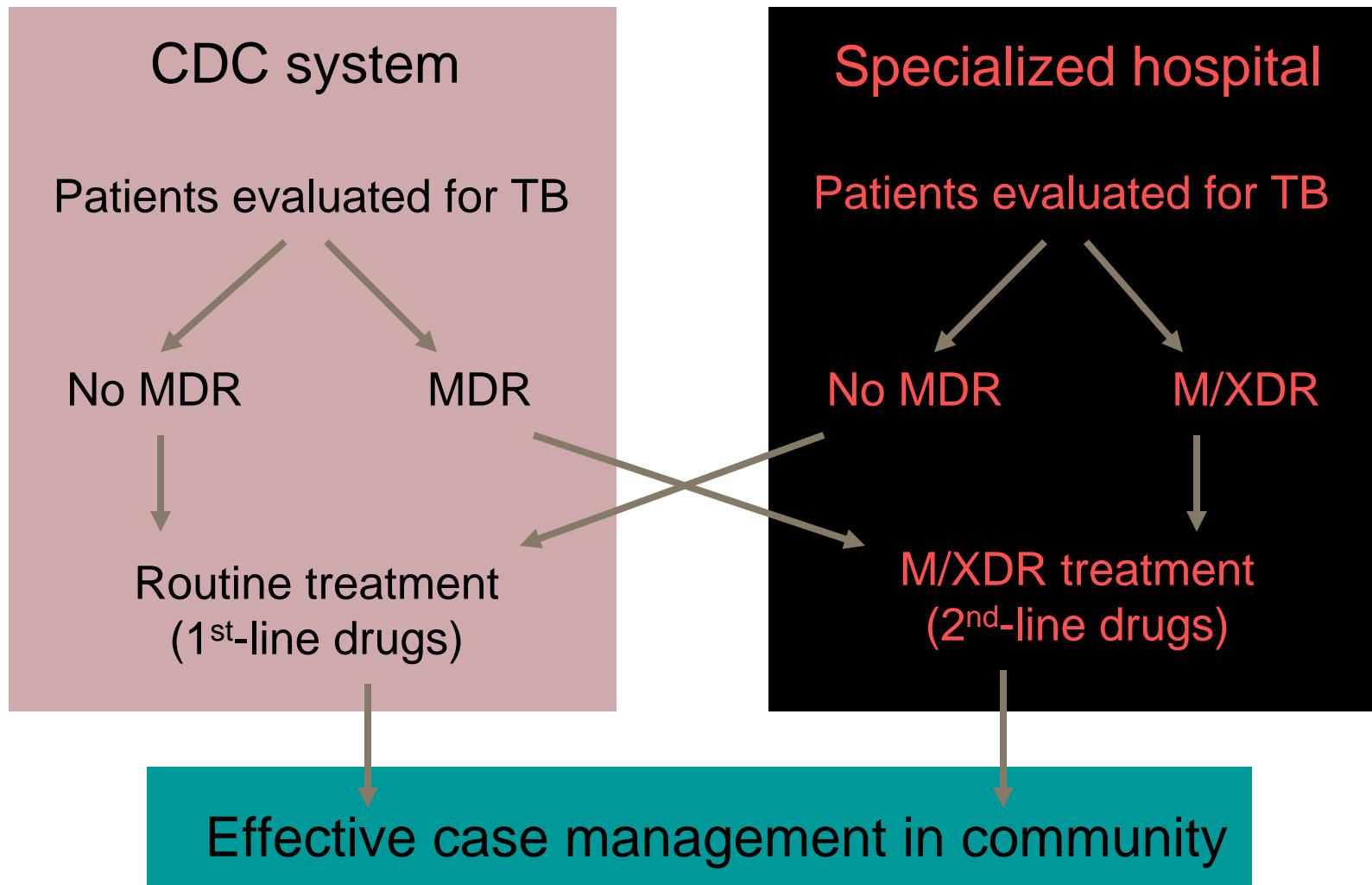
**National TB control plan
2011 – 2015 issued by
the State council**

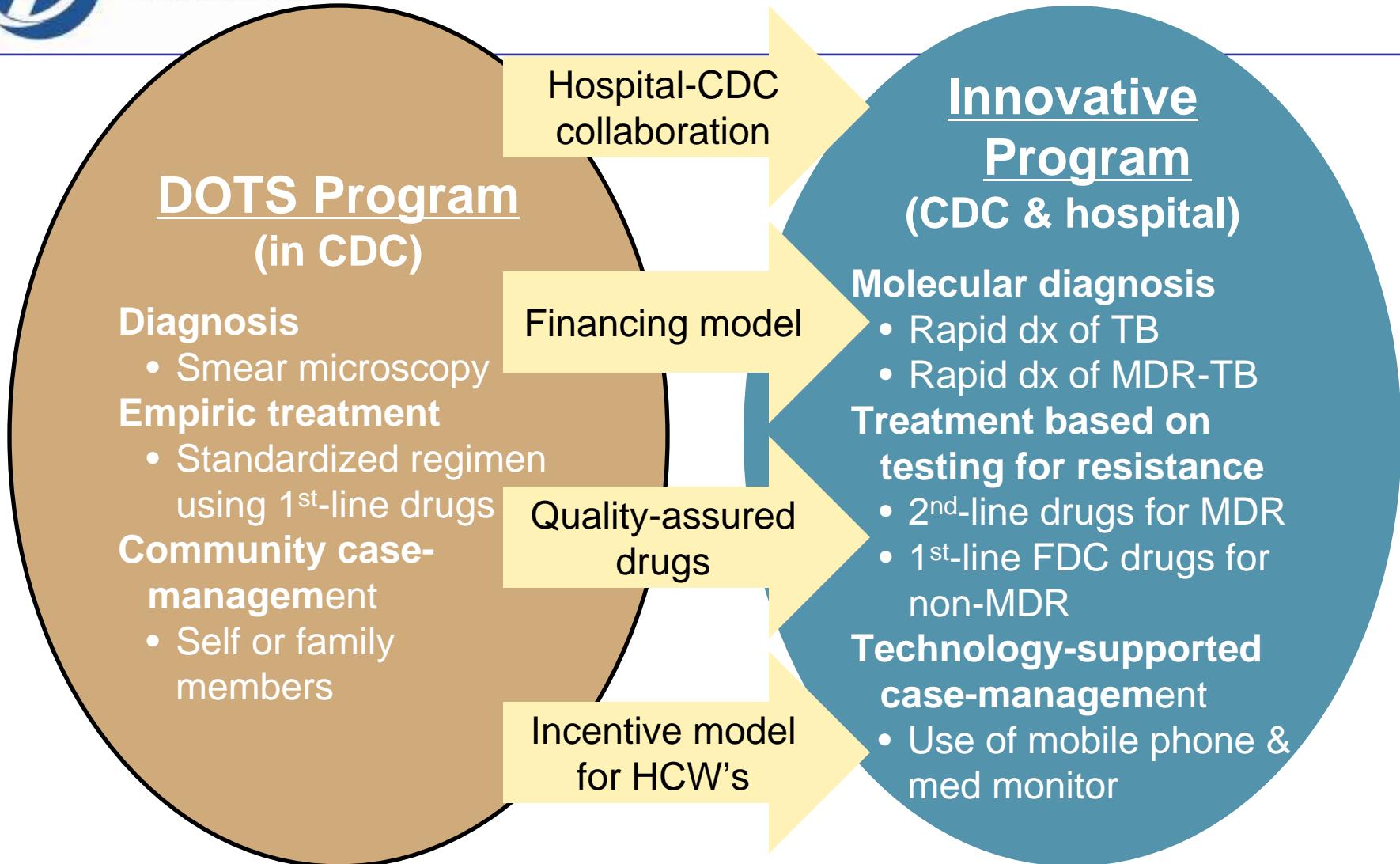
10 indicators

15 approaches



Building hospital-CDC collaboration to prevent and treat M/XDR TB





Hospital-CDC collaboration

Financing model

Quality-assured drugs

Incentive model for HCW's

Innovative Program (CDC & hospital)

Molecular diagnosis

- Rapid dx of TB
- Rapid dx of MDR-TB

Treatment based on testing for resistance

- 2nd-line drugs for MDR
- 1st-line FDC drugs for non-MDR

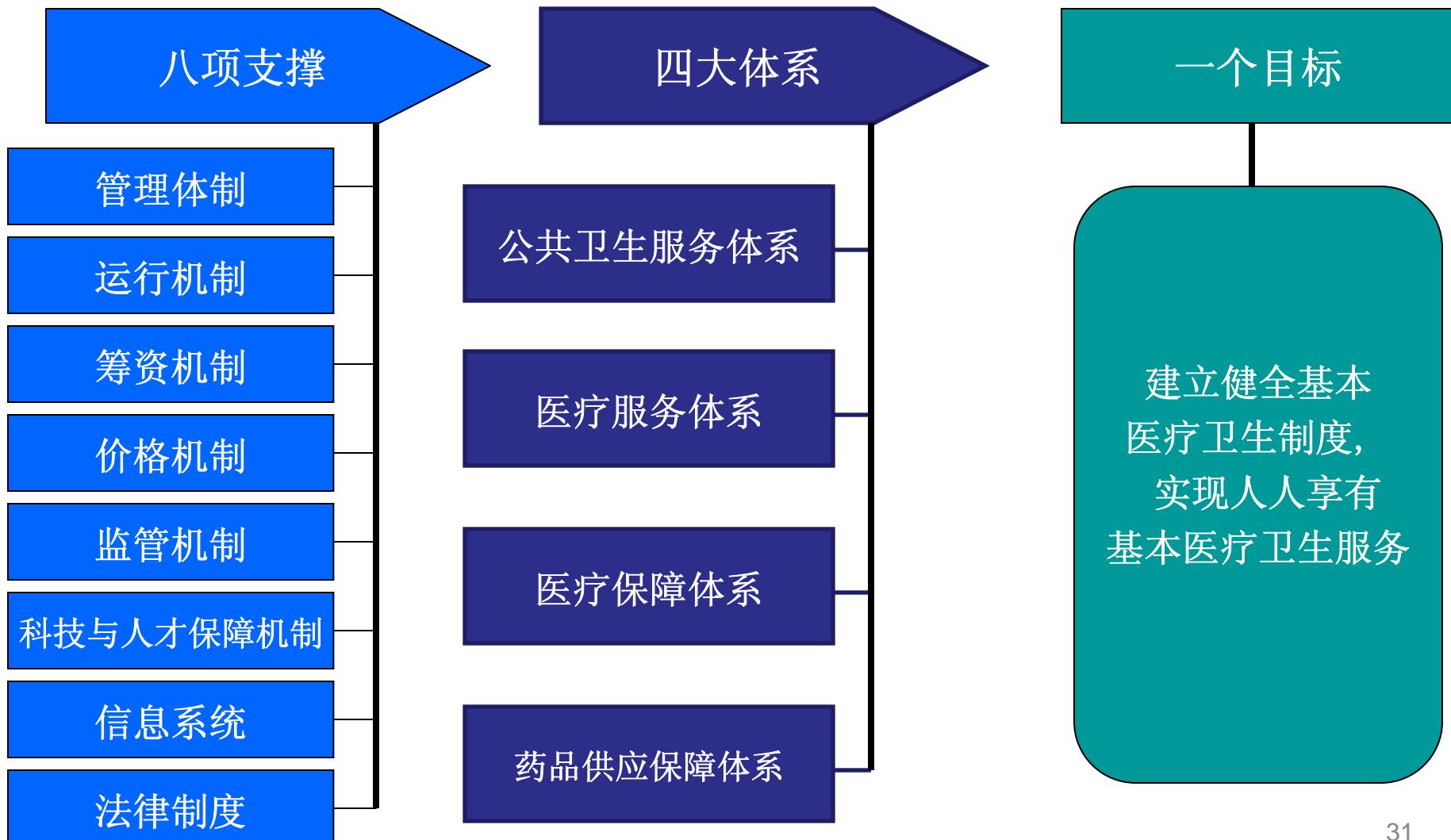
Technology-supported case-management

- Use of mobile phone & med monitor



Health system reforms

Opportunity for sustainable TB control



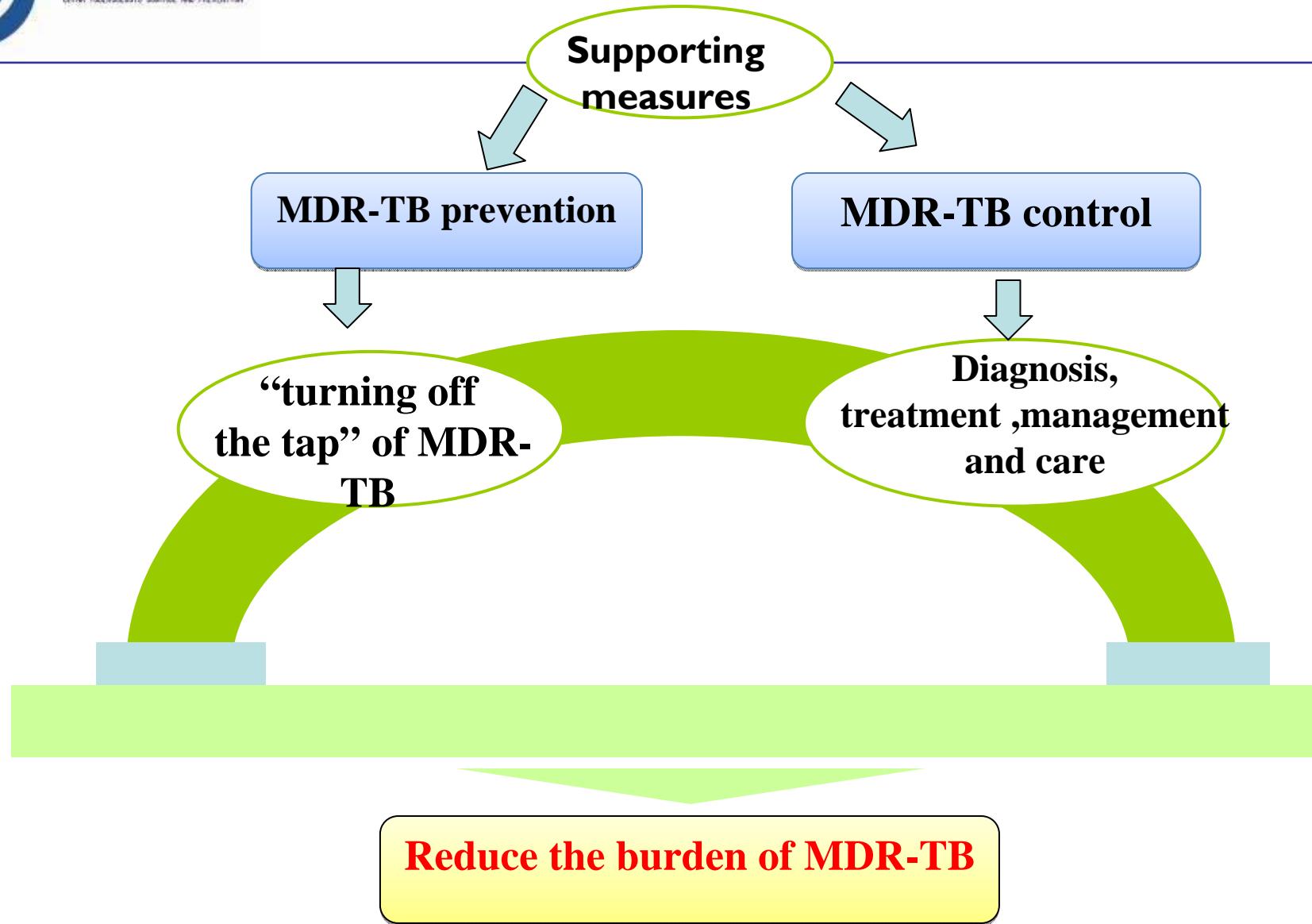


Summary

Patient-oriented TB control strategy Sustainable

- Consolidate the achievement of TB control
- Improve the service accessibility
 - Improve the service system
 - Essential supports for patients and service providers

Integrate into Health System Reforms





Reduce the incidence and mortality of TB

Ensure Quality
TB Service

Control of
MDR-TB

Improving
basic
DOTS

PPM
DOTS

TB control in
vulnerable
populations

Adopt new tools to enhance
MDR-TB standardized
treatment and management

Migrants

Re-
education
centers
and
prisons

TB/HIV

Laboratory
capacity
building

Case
detection

Treatment

Management
& care

Supporting
systems

Infection
control

Procurement
and supply
management

Human
Resource
development

Monitoring
&
Evaluation

Operational
Research

ACSM,
community
care



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Thanks for your attention