

DICOM 2014 成都研讨会

8月25日

中国·成都

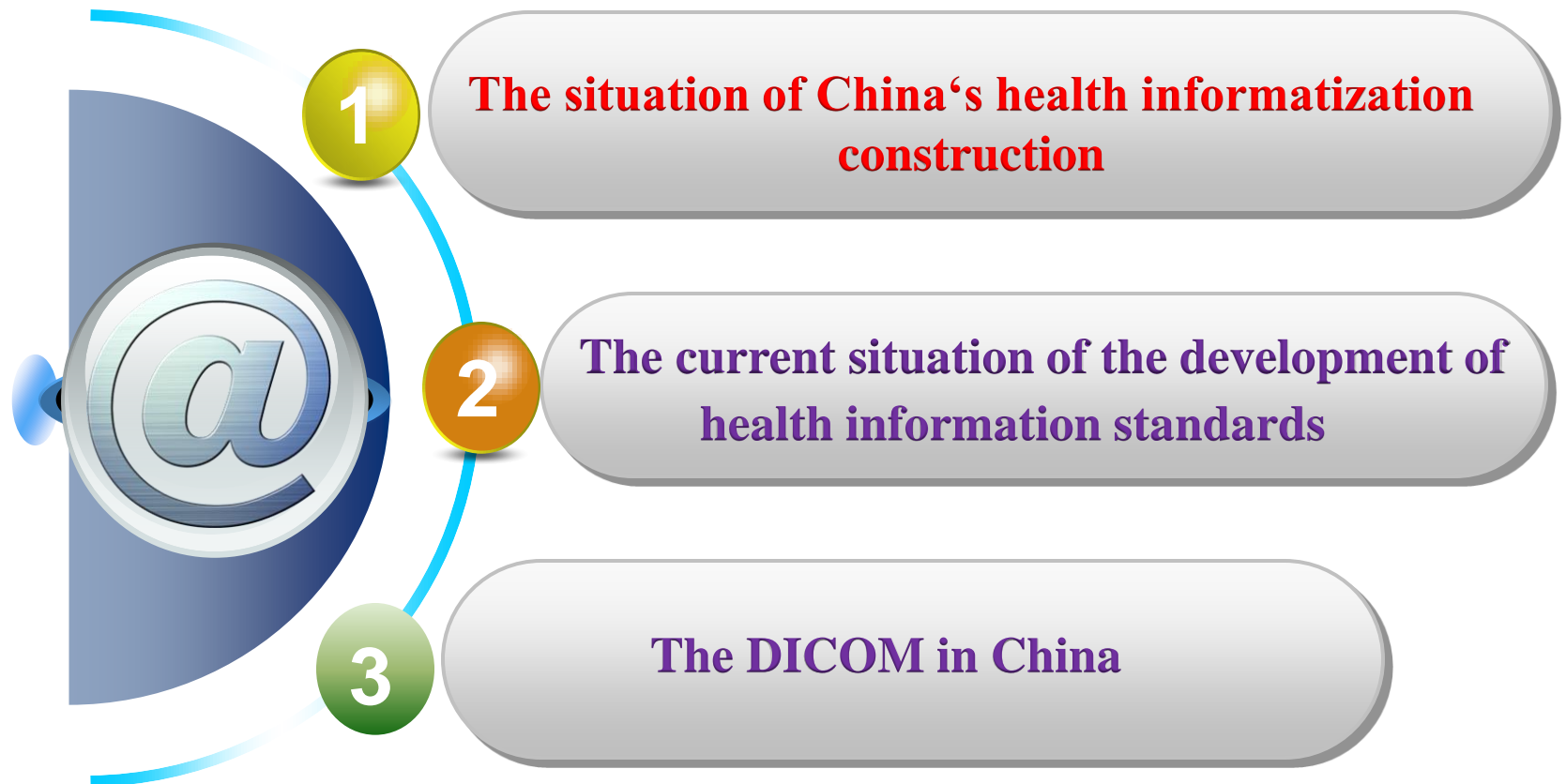


Health Information Standards and Construction Of China

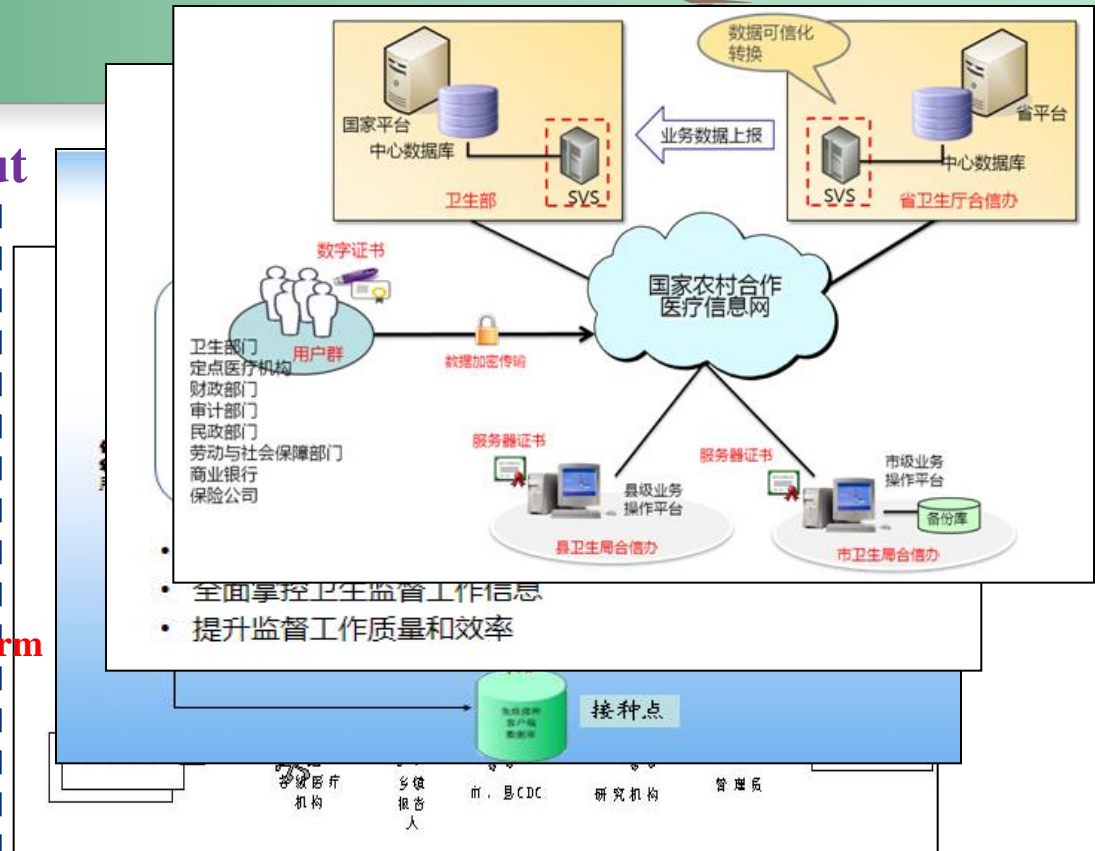
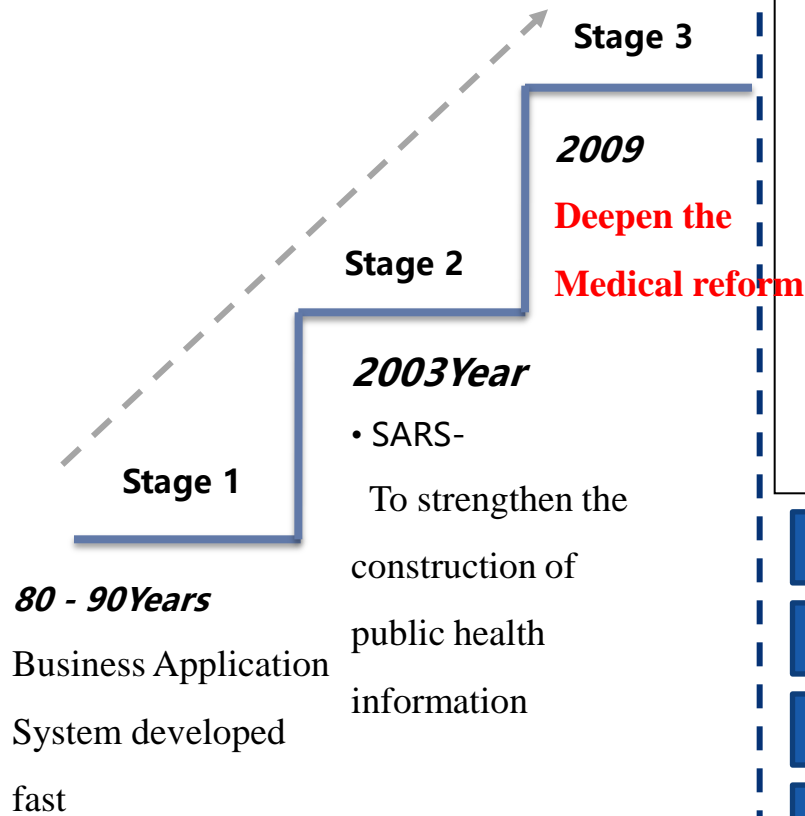
Qun Meng Medical Doctor

Statistical Information Center Director

Content Of The Report



Three stages of development about China's health information construction



Diseases reporting information system

Immunization information system

Health supervision information system

New farming zone information system

The national health statistical information network for system



国家卫生统计信息网络直报系统

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医院



社区卫生
服务中心(站)



乡镇
卫生院



其他医疗
卫生机构

填报/审核

全部
全部

住院服

内: 预约诊
人次数

3

10

9

7

1

National investment to promote health informatization construction project

Top Design

Overall planning

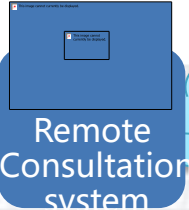
Integrate Resource

Solid Foundation



High-end remote consultation center

12 Provinces



Remote Consultation system

23 Provinces and Cities



Remote monitor

REMOTE MEDICAL

3.33 hundred million



RESIDENTS HEALTH CARD: 9.87 hundred million

National Information Platform

Comprehensive health information platform construction

16 Provinces 6.3 hundred million

Urban regional health informatization construction

17 Cities 2.96.3 hundred million

County hospital information construction

2130 hospitals 10.76.3 hundred million

Informatization construction of Communities, towns and townships

65 thousand public institution 43.3 hundred million

Informatization construction of village clinics

423 thousand village 19.1 hundred million

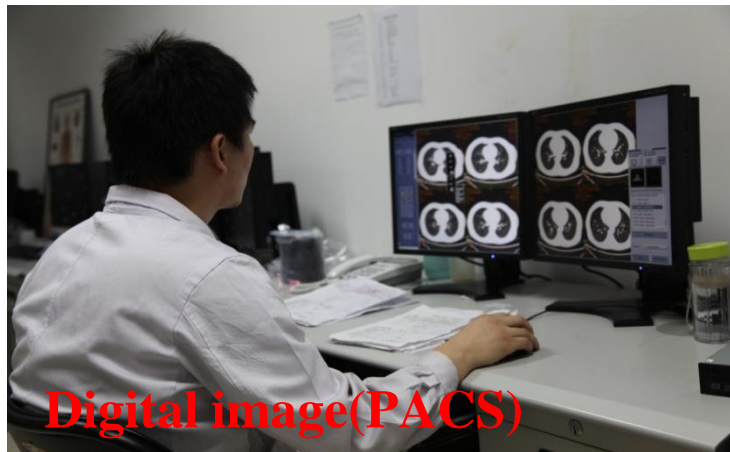


Drug administration



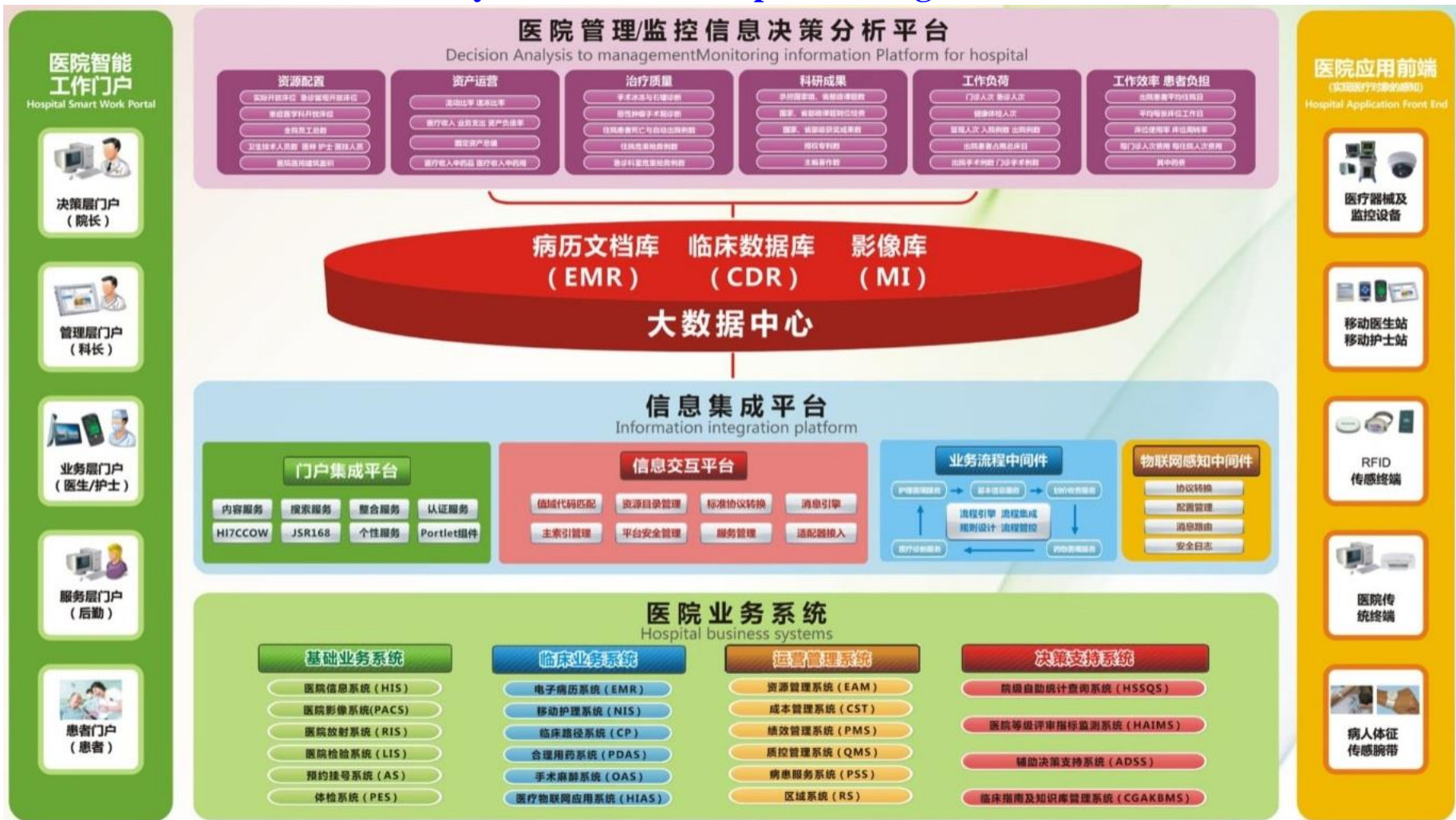
Drug regulatory 8.23 hundred million

1、 Electronic medical record as the core of the hospital information construction



Promote the hospital's information construction , Improve the efficiency of medical service and quality

Realize attainability, consistent, simple, intelligent information service



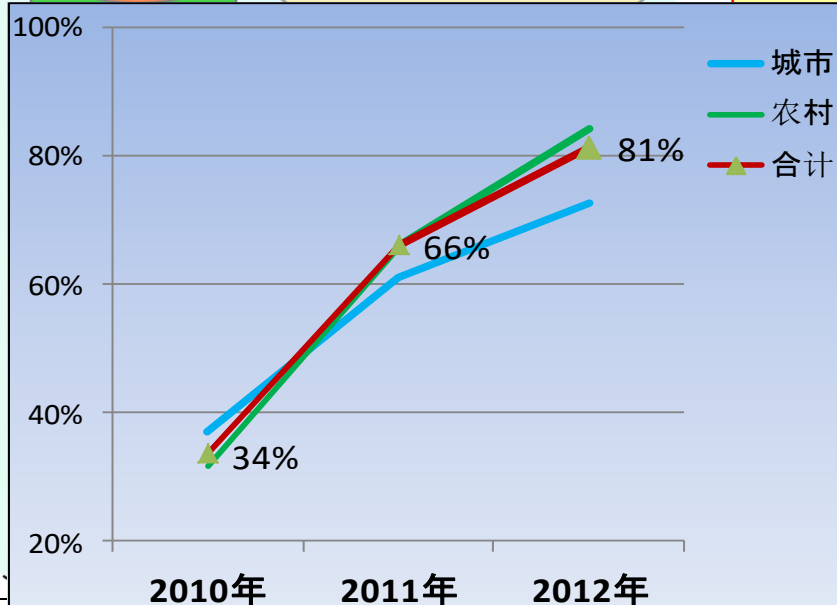
Hospital information platform——build intelligent hospital high-level design

2、 Electronic health records rapid development

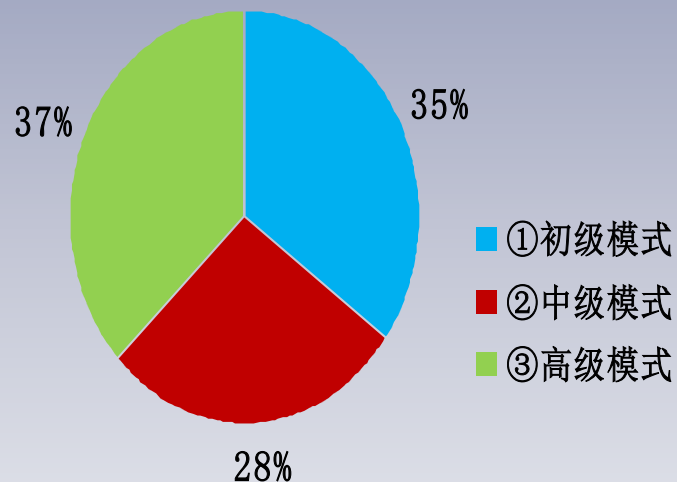
According to the survey : By the end of 2012, 12 provinces (cities)

the rate of health record filing is 83.3%, the rate of Electronic health records filing is 78.2%

2010-2012 Electronic health record cumulative rate of filing



The construction mode of electronic health record



3、Regional health information platform construction begin to taking shape

Provincial health information platform goes well

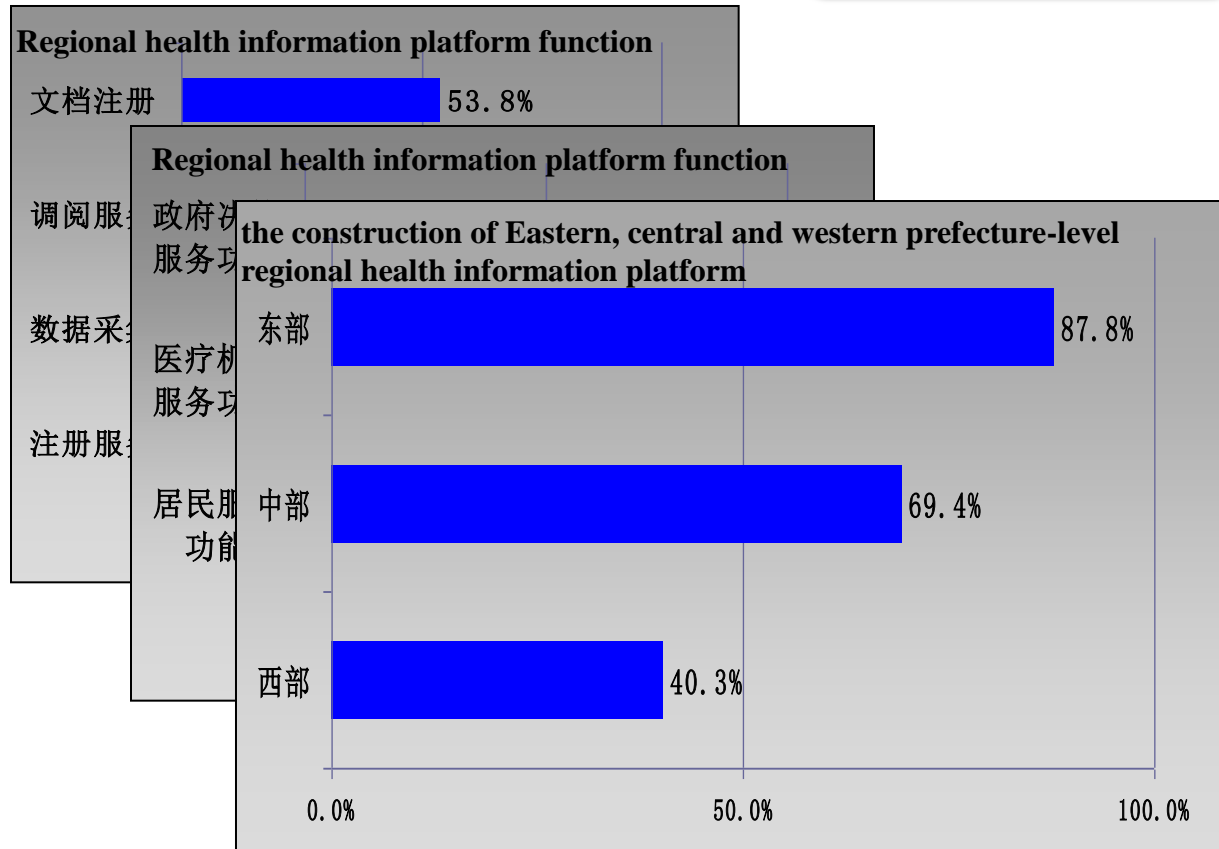
Regional health information platform rapid promote

Regional platform Realize interconnectivity with province platform

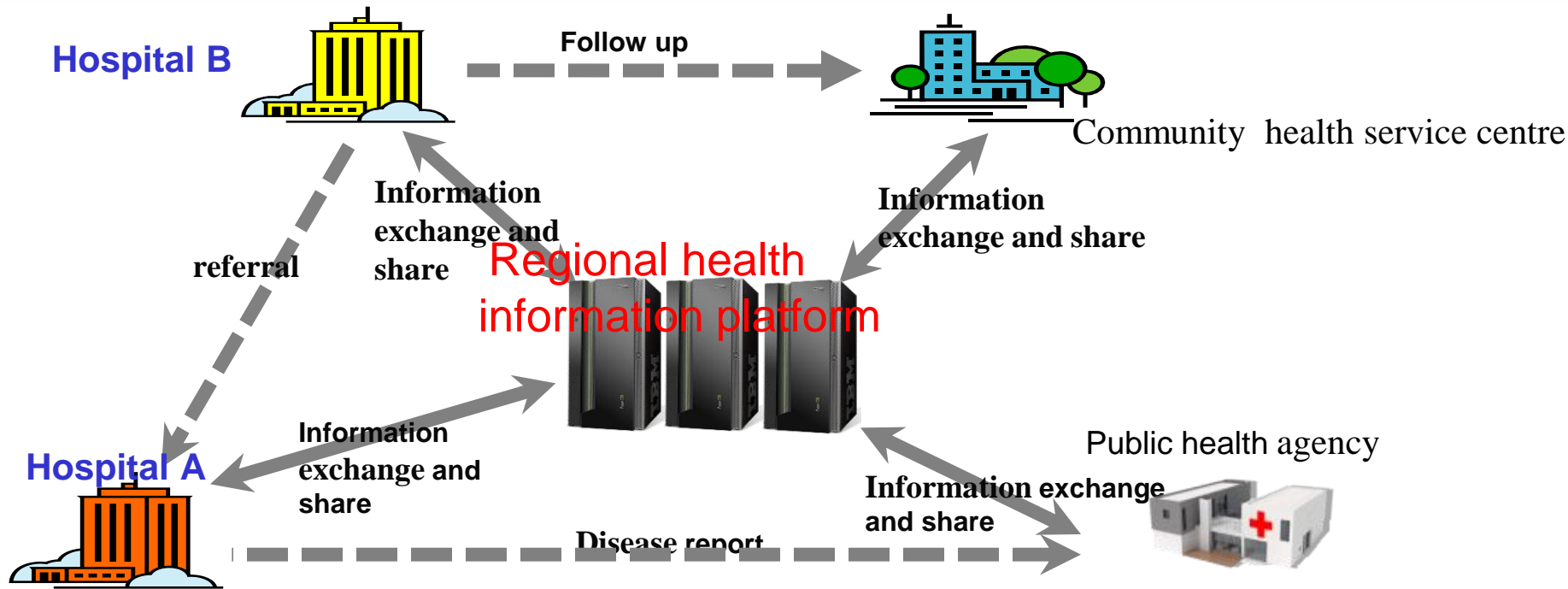
Shanghai, Beijing, Yunnan Shared province cross-regional business information exchange

✓ Investigation of 12 provinces, the nine provinces have established provincial health information platform, realize the sharing of health information exchange and statistical analysis, auxiliary decision-making

✓ Survey of 147 cities, 62% of them have set up regional health information platform, all realize the connectivity and provincial platform, realize health records read, two-way referral, repeated examination revealed, performance appraisal and other business applications

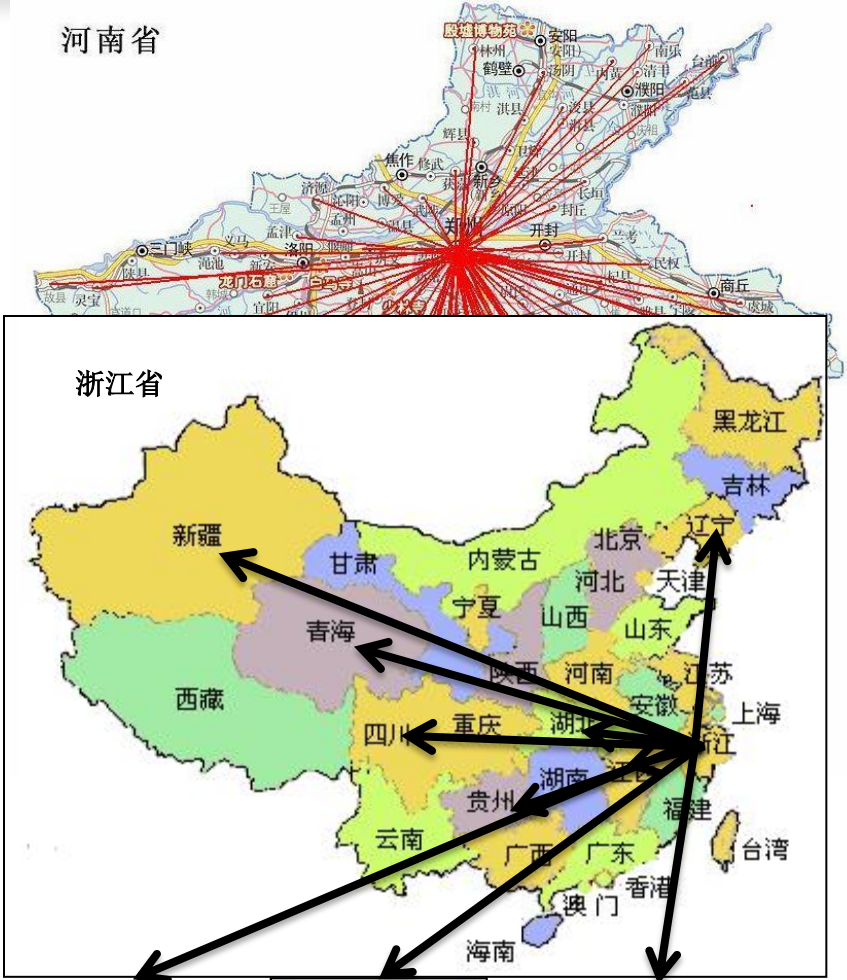


The construction of Regional health information platform and health records



- Shanghai, Jiangsu, Zhejiang, Anhui and other provinces have set up 10 provincial health integrated management information platform; Hebei, Shandong, Hunan, Guangdong and other eight provinces is launching a provincial health integrated management information platform construction.
- China has established 152 prefecture-level regional health information platform, set up 372 county district health information platform.
- By the end of 2012, 12 provinces and cities health record filing rate is 83.3%, electronic health record filing rate is 78.2%.

4、Construction and Application of Remote Medical System with Remarkable Results



 波士顿医学中心	 UCLA医学中心	 印尼大学医学院附属医院
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Comprehensive
consultation



PACS/Pathology/ ECG joint

Remote Operation and Guiding Teaching



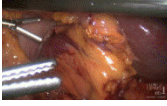
PACS



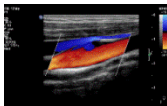
全高清术野



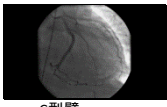
场景



全高清腹腔镜



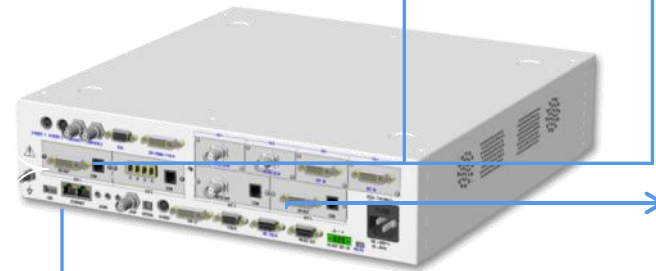
高清彩色超声



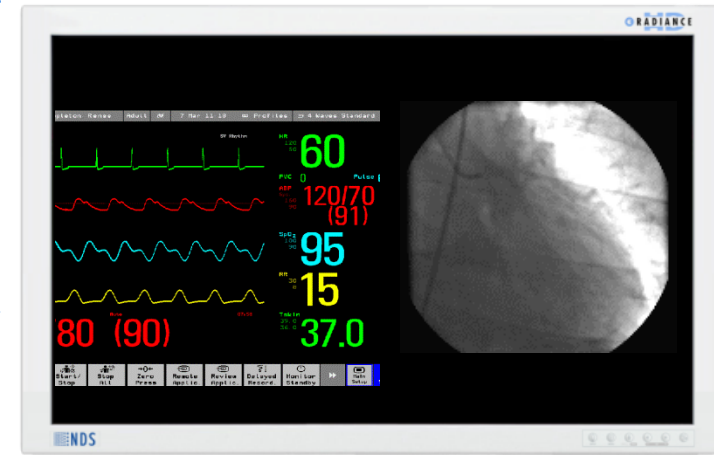
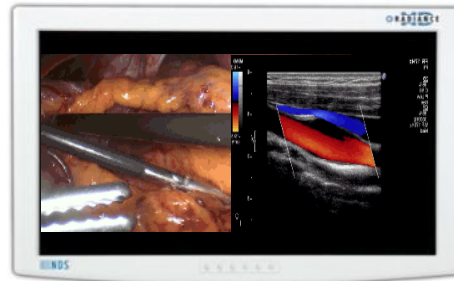
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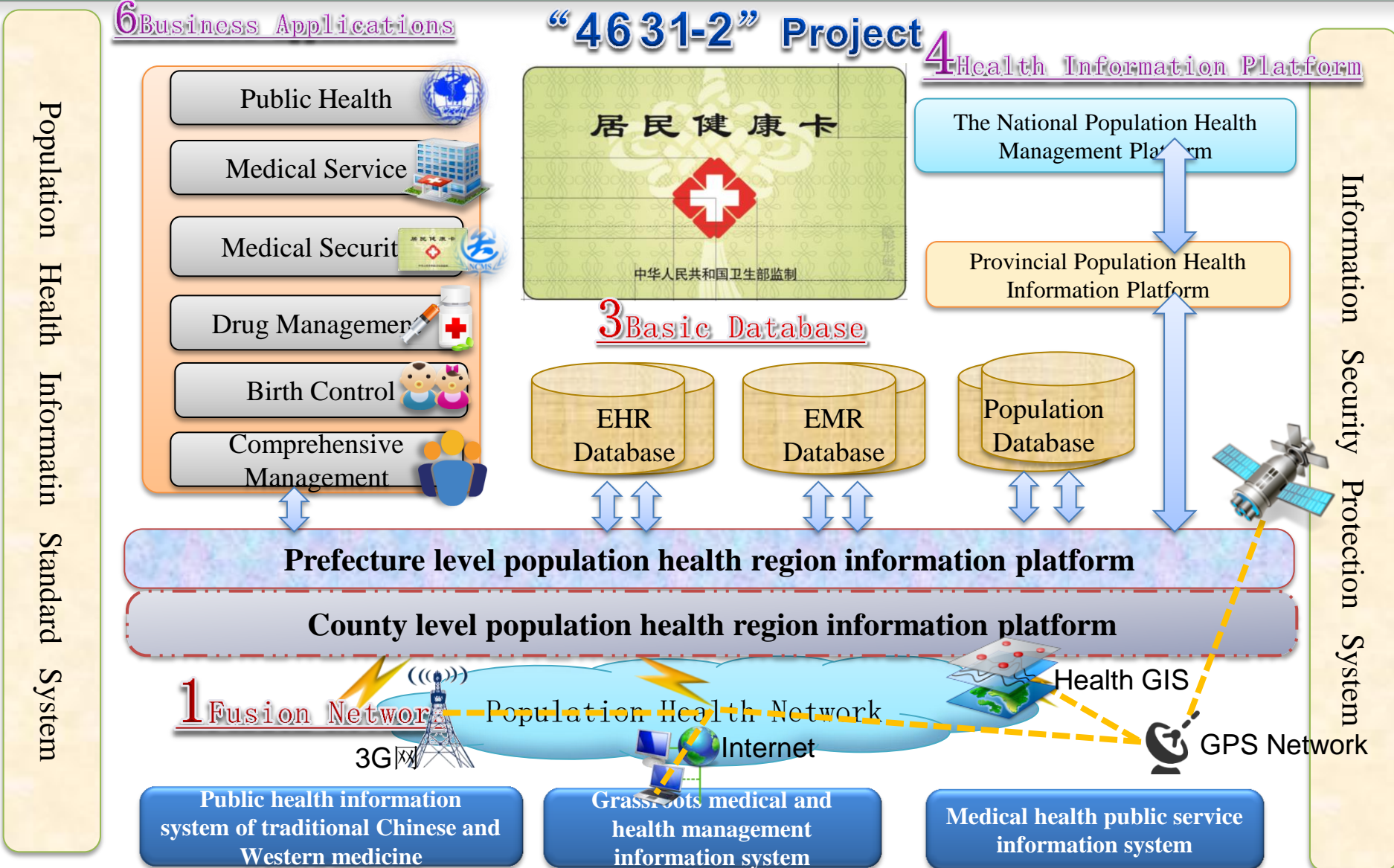
监护



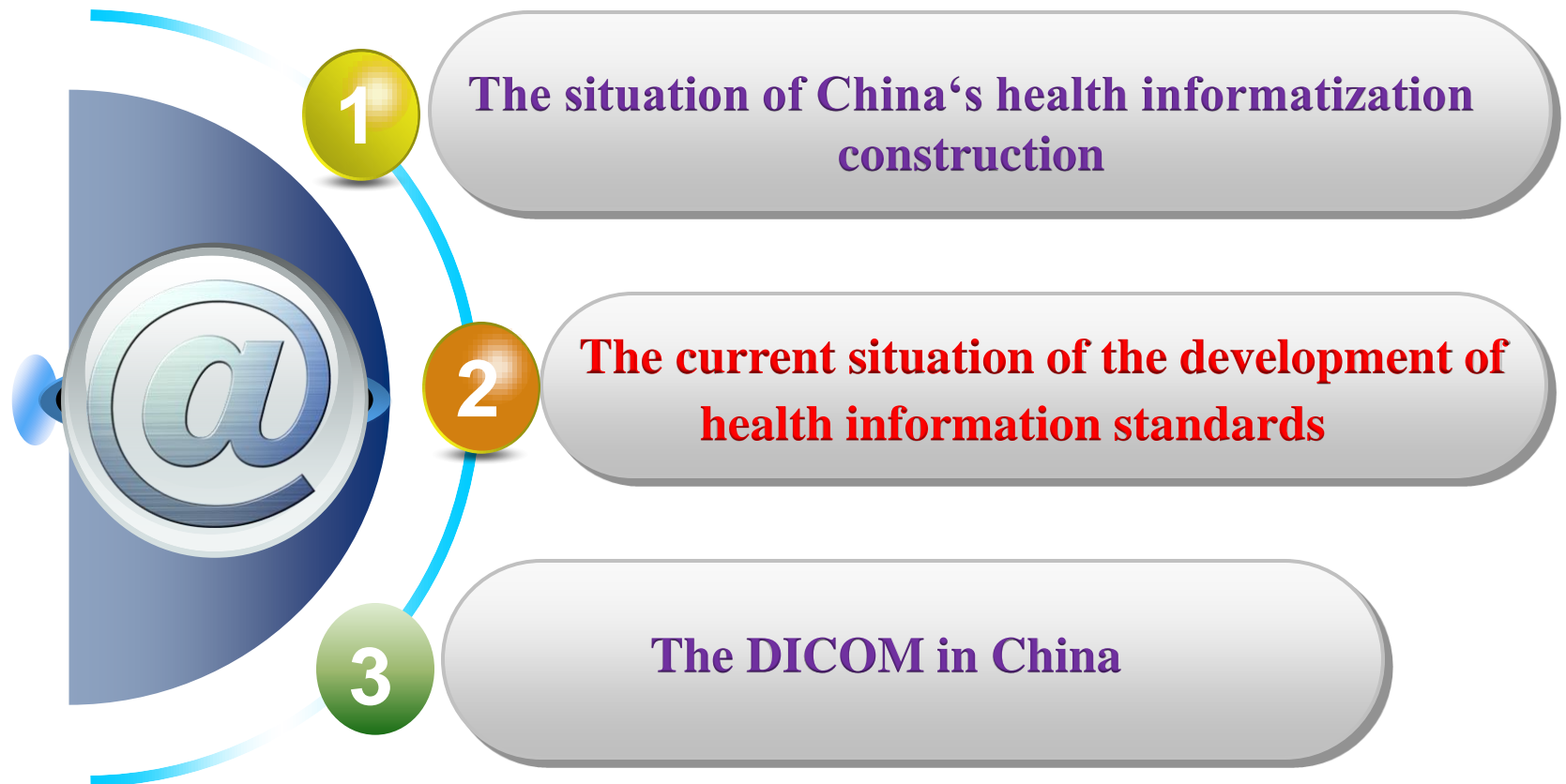
局域网



National Health、 Health Resource Integration— Top-Level Design



Content Of The Report



The Development of Health Information Standard in China

Study and understand the domestic and international advanced experience and development trends, research, explore the establishment of China's health information standardization of appropriate technology and methods

Study on the accumulation of experience

2001—2005

- Development planning outline of national health information (2003—2010)
- Health information infrastructure framework for national and technology guide
- Basic data set standard of China hospital information system
- Basic data set standard of Chinese public health information system
- China MCH information system standard
- Community health service information system

The initial establishment of a national level health information standard management organization, established the direction and focus of health information standard system frame work, formulated a number of high quality, high level of science and technology standard results around the reform demand

Standardized management, key breakthrough

2006—2010

- The fifth session of the health standard management committee set up Health Information Standards Committee
- To develop a unified standard method and Standard Specification
- The basic architecture and data standards of HER and EMR
- Regional platform and hospital platform technology solutions
- The main business application system data set standards

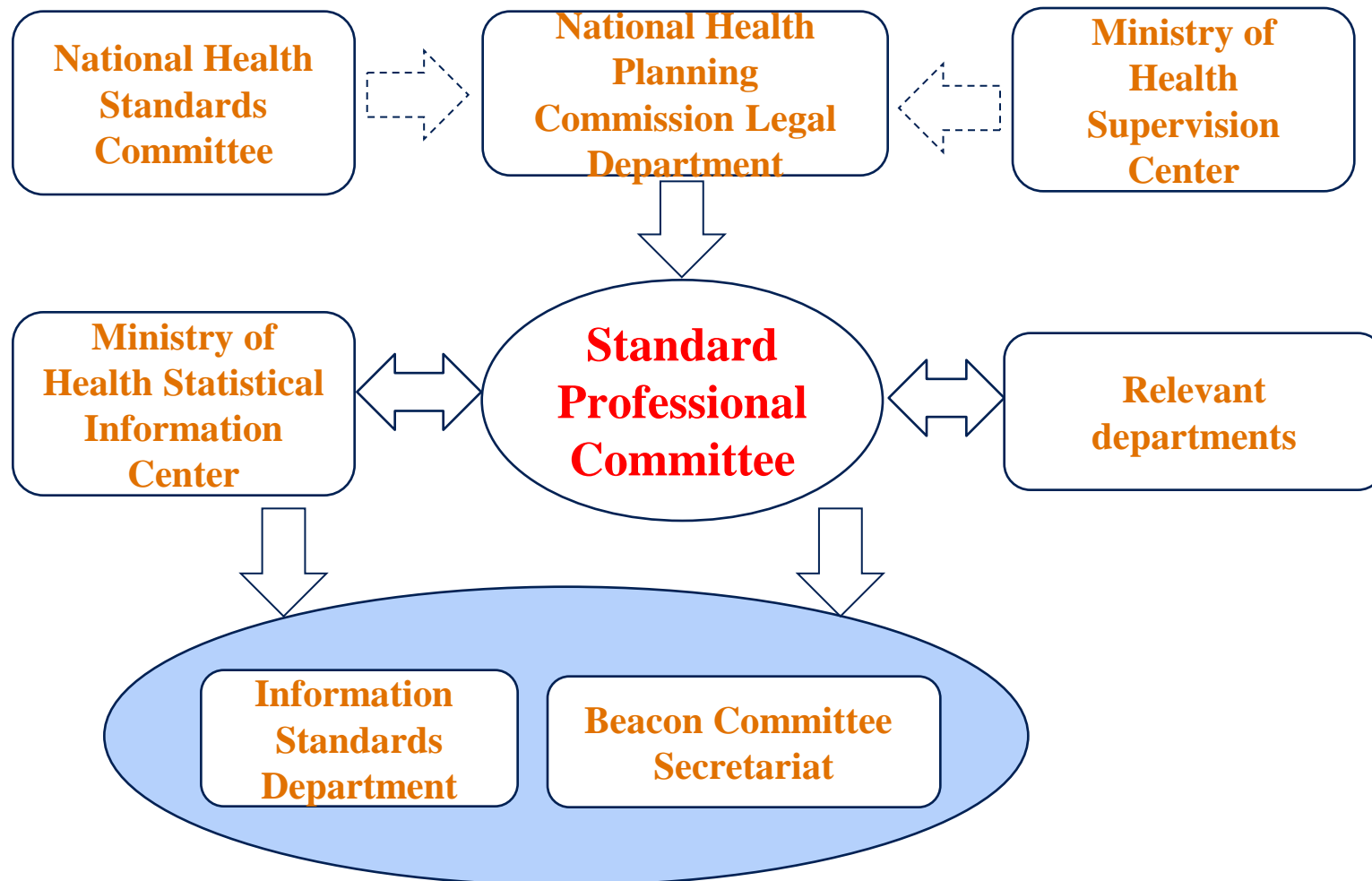
Further improving the health information standard system of organization and system, strengthen the scientific research, objectives and priorities clear health information standardization work, promote the establishment of a Chinese characteristics, innovative health information standard scientific development pattern

The rapid development of innovation, consolidate

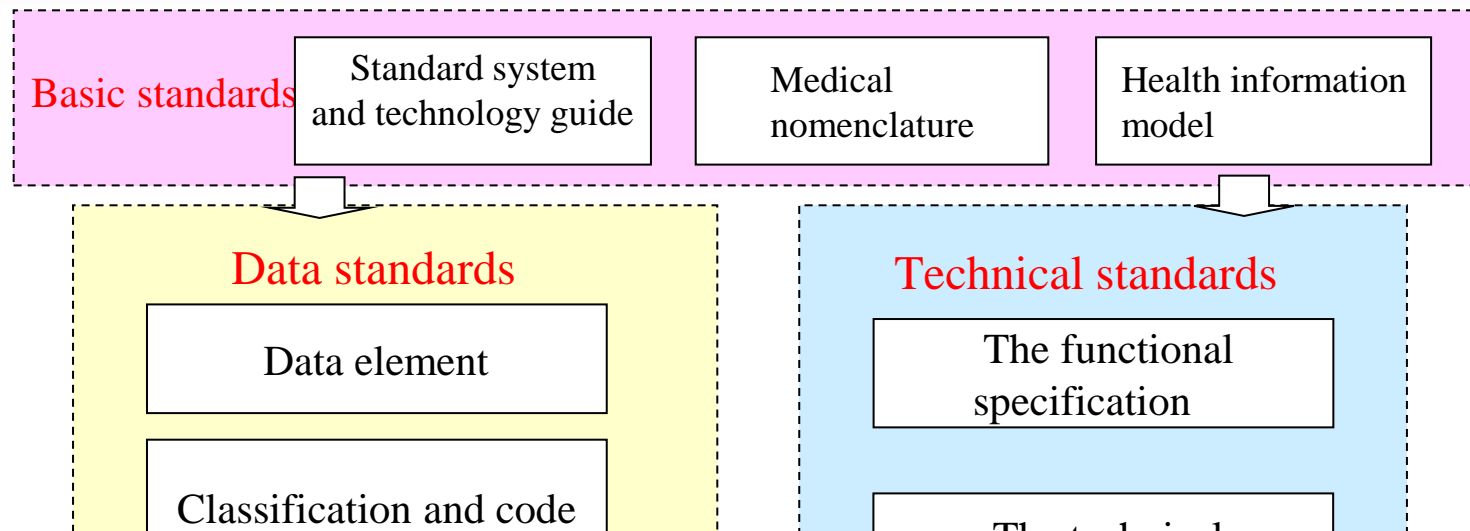
2011—2015

- The Ministry of health statistics information center new information standards
- According to the medical reform need to upgrade the standard development speed and breadth
- Focus on the development of regional health information needs of data exchange standard and a central focus of investment banking system construction technical specification
- Establishment 《"Twelfth Five Year Plan" health information standards focus and implementation plan》

The management structure of Chinese health information standards organization



Framework of health information standard system in China



- **Health information standards in different countries, different tissue classification is different, reflecting the development of classification and health information standard specific process**
- **According to the experience of standard organization of the international and developed countries, putting forward the framework of health information standard system in China, and gradually improve in the development process**

Progress of health information standard system revision in China

year	Plan number	Actual number	Publish number	Approval number	Developing number
2008年	8	10	10	0	0
2009年	7	7	7	0	0
2010年	8	8	8	0	0
2011年	108	129	126	3	0
2012年	7	50	49	1	0
2013年	22	37	17	13	7
2014年	7	7	0	0	7
total	167	248	217 (不含2007年4项)	17	14

•At present, focusing on electronic health records, electronic medical records, health information platform ,the relevant standards and specifications have been developed to complete, and can meet the basic requirements of the construction of the regional medical interconnection

中国卫生信息标准网

Chinese Health Information Standard Portal

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组织机构

工作动态

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标准公告

标准解读

规范性文件

标准查询

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通知

- 卫生信息标准专业委员会关于召开《居民健康卡... 2014-01-06
- 卫生信息标准专业委员会关于函审《继续医学教... 2013-04-15
- 卫生部卫生信息标准专业委员会关于召开卫生信... 2013-03-01
- 关于召开标准符合性测试系统开发设计方案专家... 2012-10-15
- 关于召开电子健康档案和电子病历标准符合性测... 2012-09-24 [MORE >](#)

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标准发布公告

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- 《疾病管理基本数据集 第6...
- 《卫生信息基本数据集编制...
- 《卫生信息数据元目录》等3...
- 《卫生信息数据元标准化规...

工作动态

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- WHO卫生信息标准部长级政策对话--专题之一: 卫生信息标准及... 2014-03-12
- WHO卫生信息标准部长级政策对话--卫生部统计信息中心王才有... 2014-02-20
- WHO卫生信息标准部长级政策对话暨第二届卫生信息化标准和互操... 2014-02-19
- WHO卫生信息标准部长级政策对话--世卫组织副总干事 Dr Marie... 2014-02-19
- 卫生信息标准专业委员会《居民健康卡技术规范》等4大项标准会... 2014-01-26

标准解读

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- 《卫生信息共享文档规范: ...
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- 卫生信息标准专业委员会关于征求《电子病历共享文档规范(征... 2013-07-31
- 关于征求《居民健康卡技术规范 第1部分: 用户卡技术规范(征... 2013-07-09
- 关于征求《居民健康卡数据集(征求意见稿)》意见的函 2013-07-09

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标准管理组织

国家卫生标准委员会
信息标准专业委员会

中国卫生信息学会
卫生信息标准专业委员会

Facing problems of Chinese health information standard

Health information standardization work is facing the challenges

The research and development issues of the standards

- Many blank point in standards
- The problems existing in the research of fundamental theory and method
- The lack of standards for combining the features of Chinese and Western Medicine

The application issues of the standards

- Application of standards around the huge difference
- The Specification and binding problem for the construction of local health information
- The lack of standards application and supervision system of normalization

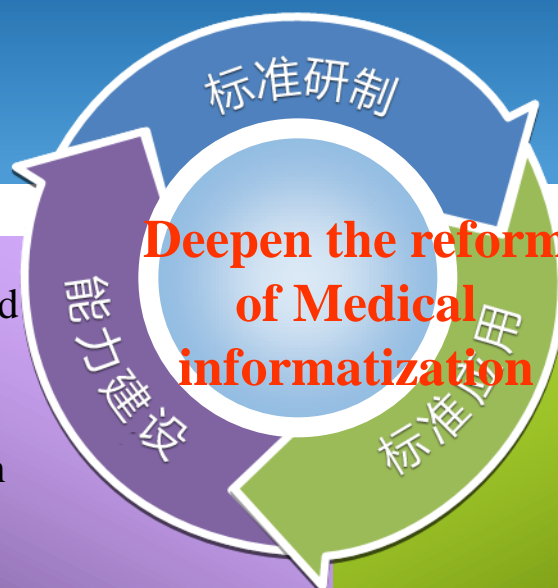
The long-term mechanism issues

- Health information standards development, updating and maintenance, application and promotion are lack of special investment
- The lack of Health information professionals and experts
- Standard approval, issued a long time, and the low efficiency

The development of China health information standard

Taking the interconnection and information sharing as the breakthrough point

The top-down combining with bottom-up

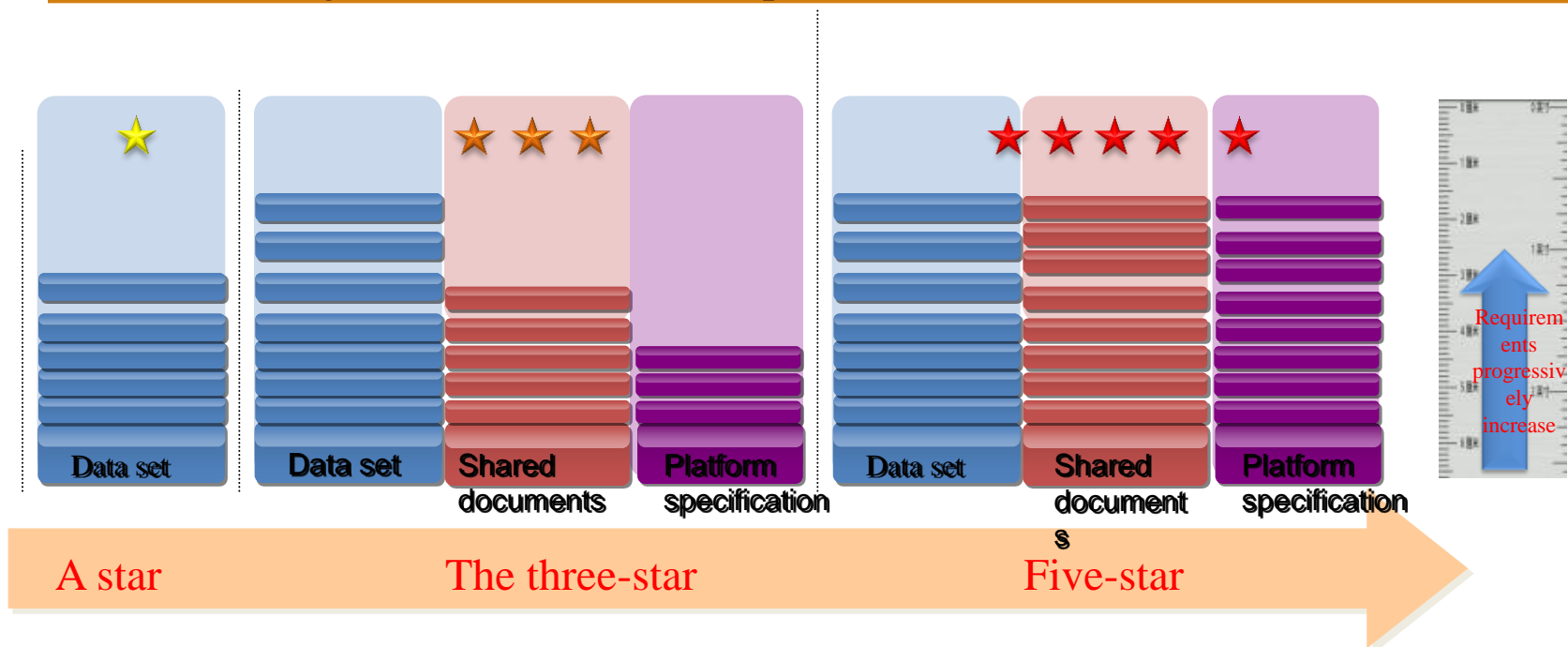


- The establishment of a sound organizational management system
- Gradually establish a benign operation mechanism
- To strengthen the study of theory and policy

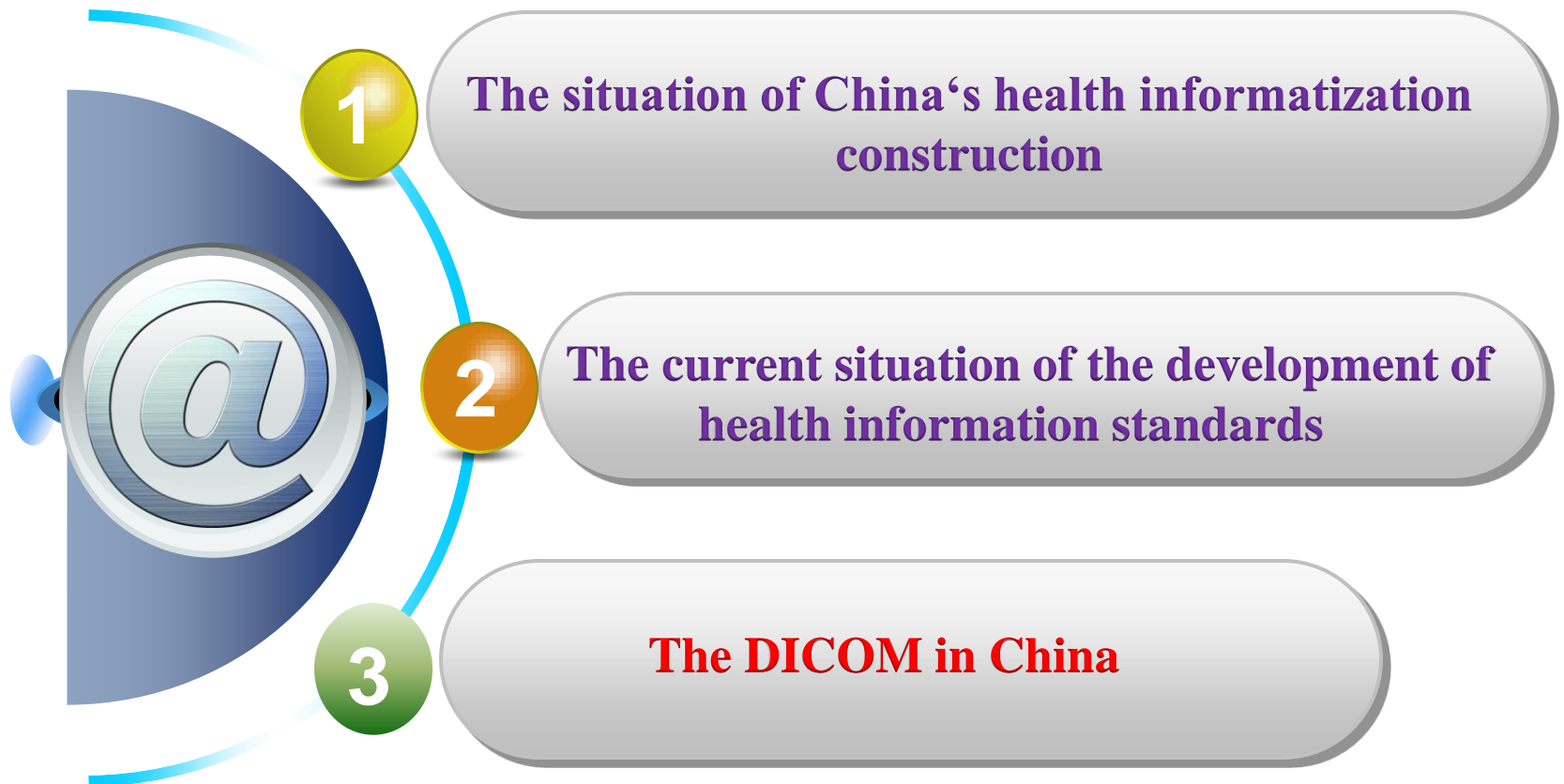
Awareness training and tracking survey
Regulation of Standard test and application
Collaborative development of Political, industrial, learning, research, use

Health information standard conformance testing

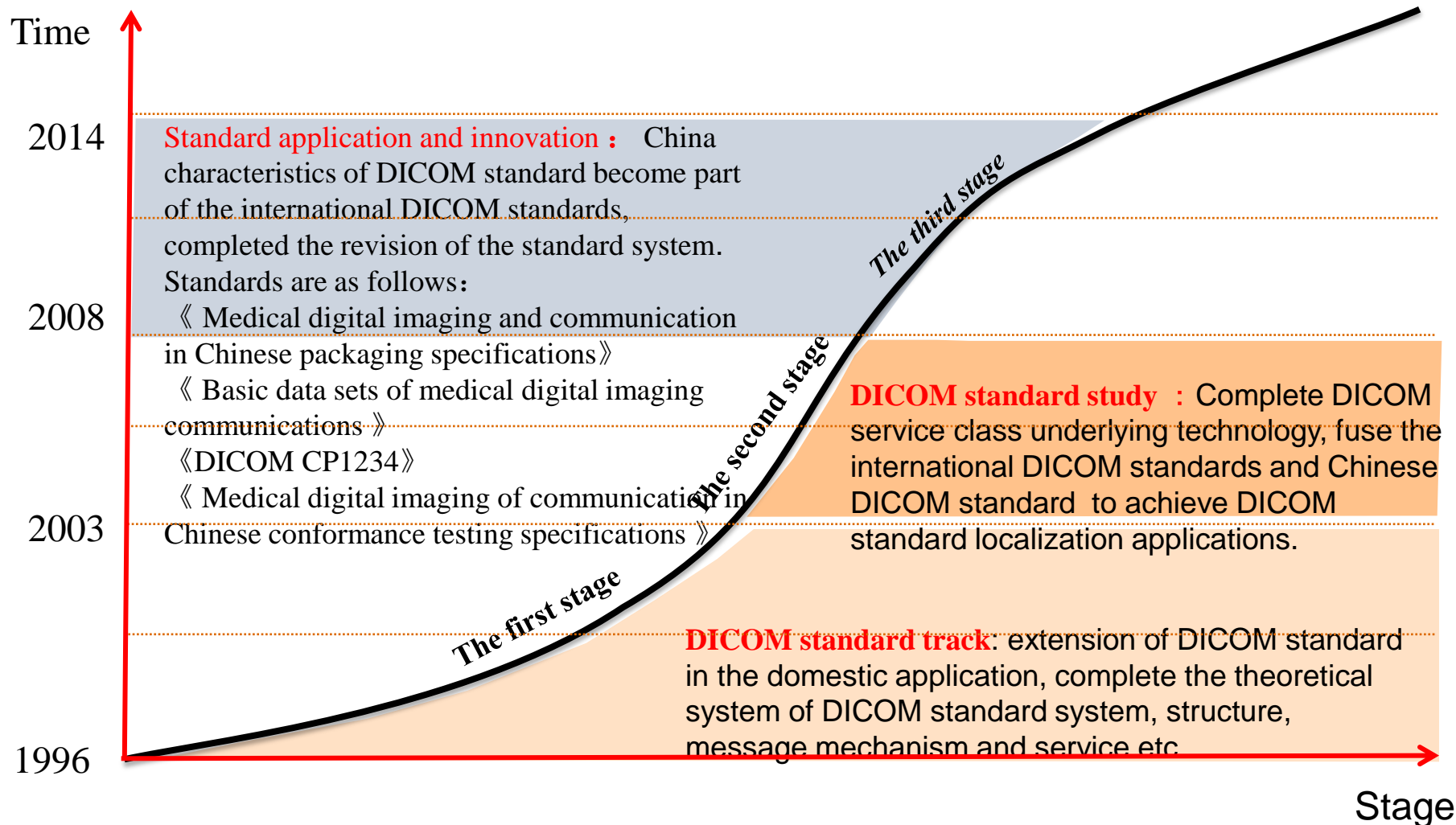
Learning from international experience, establish **health information standard conformance test system and evaluation of management mechanism** which is suitable for China's national conditions, scientific, systematic, quantitative and justice, promote the application of national standards, establish an orderly market environment, guarantee the smooth implementation of the reform tasks



Content Of The Report

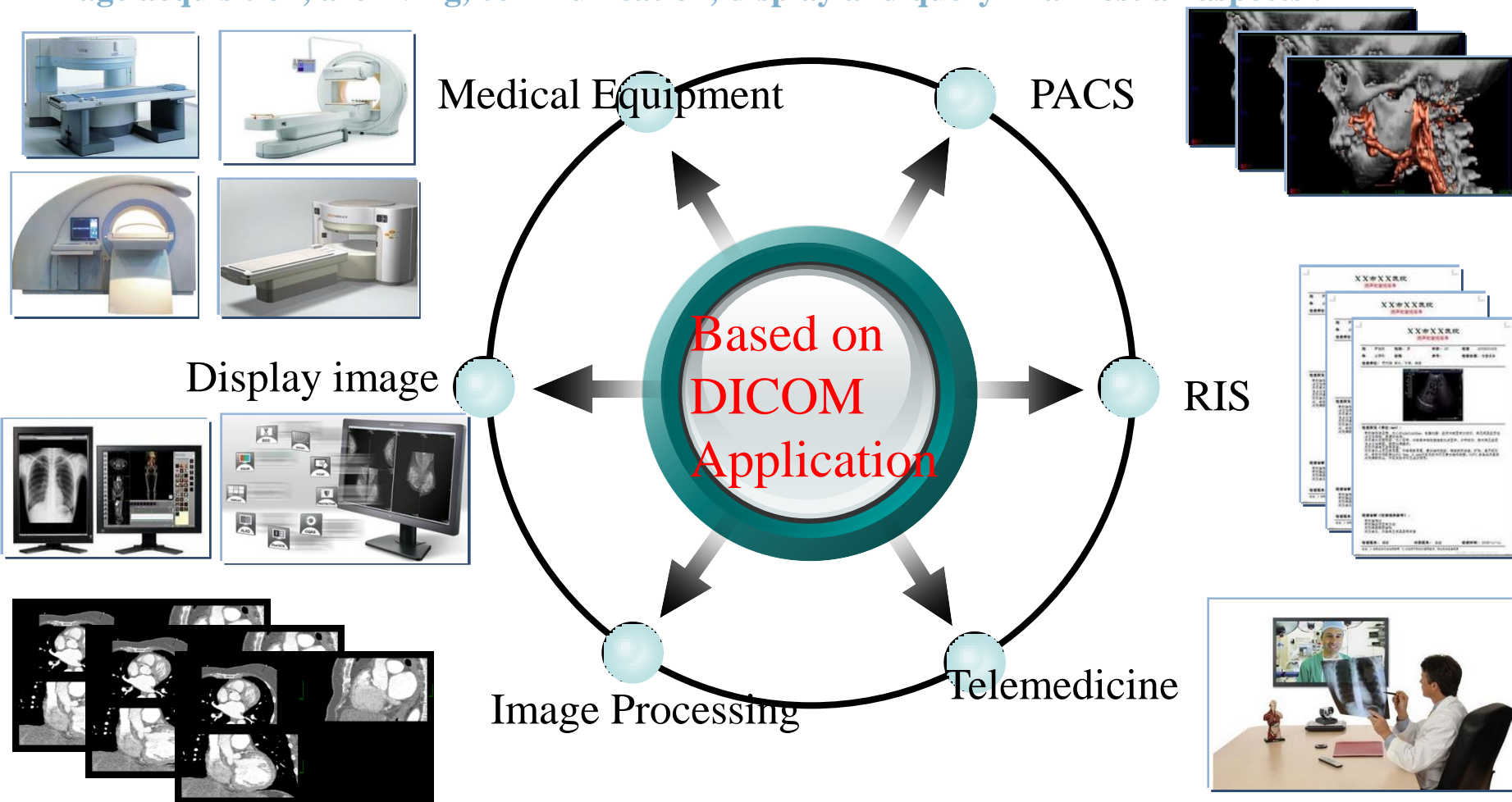


1、 DICOM standard in China--History

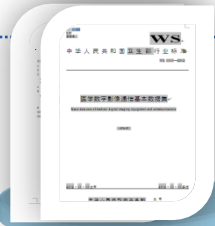


2、 DICOM standard in China—Use situation

The DICOM standard in the China were widely used and promoted, whether the system information can interact with other manufacturers of equipment or system is the key ,covering the medical digital image acquisition, archiving, communication, display and query in almost all aspects .

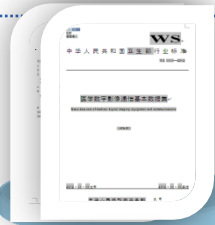


3、DICOM In China-- Domestic Standard Achievement



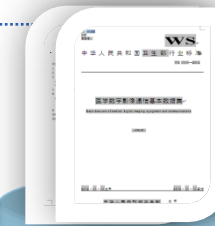
《 Medical digital imaging and communication in Chinese packaging specifications 》

- Develop years : 2009
- Standard Number: 2009-16-01
- Review situation: Passed



《Basic data sets of medical digital imaging communications 》

- Develop years: 2011
- Standard Number: 2011-15-84
- Review situation: Passed



《 Medical digital imaging of communication in Chinese conformance testing specifications 》

- Develop years: 2014
- Standard Number: 20140105
- Review situation: Passed the draft assessment

4、 DICOM In China -- **International Standard Achievement**

DICOM CP1234

Formulation process

- **Requirements Definition**
- **Early Draft**
- **Public Comment Draft**
- **Intermediate Draft**
- **Trial-Use Draft (optional)**
- **Letter-Ballot Text**
- **Final Text**

Joined the DICOM, 2013
Joined the DICOM, 2014 A Version

**DICOM CP
1234**

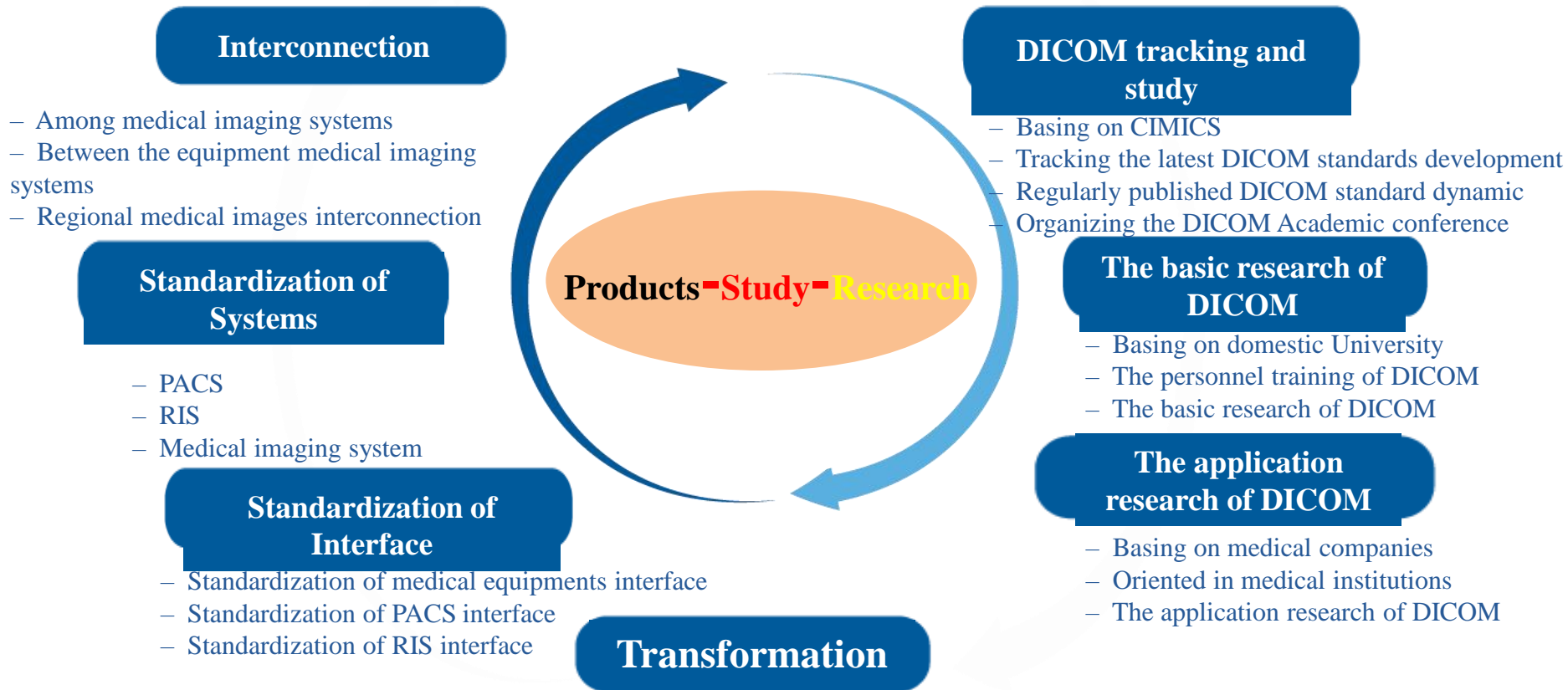
**The process lasted two years
(2011.01-2012.12)**

Significance

- **Filling the gaps of the DICOM standard research in domestic;**
- **Providing experience of standard-setting process;**
- **Achieving Chinese package of DICOM standard;**
- **Achieve consistency of medical digital imaging environments in a Chinese display;**
- **Laying the foundation for the localization of the DICOM standard application.**

4、 DICOM In China – **Work Prospects**

Basing on Standards , directing by standard application, The CIMICS as a link, Uniting domestic universities, medical institutions (hospitals) and medical companies to form research cooperation mechanism, strengthen personnel training, promote DICOM standard localization applications.



The Application Promote the DICOM

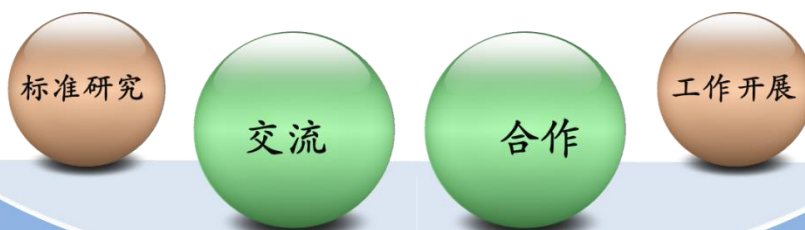
4、DICOM In China -- Exchanges and Cooperation

Strengthen international exchanges and cooperation.
Promote the application of DICOM standard.

Construction of the joint training mechanism for DICOM talented person

Participation / organization of international conferences

Organize academic seminars



以DICOM标准应用为基础，
以加强DICOM标准研究为目的，
与国际DICOM标准组织形成
交流与合作平台。

Qun Meng
mengqun@nhfpc.gov.cn

**Information Benefiting
Wisdom of Health
Healthy Life**

