

2014 DICOM Chengdu Workshop

August 25th

Chengdu·China



# Health information standard conformance test system

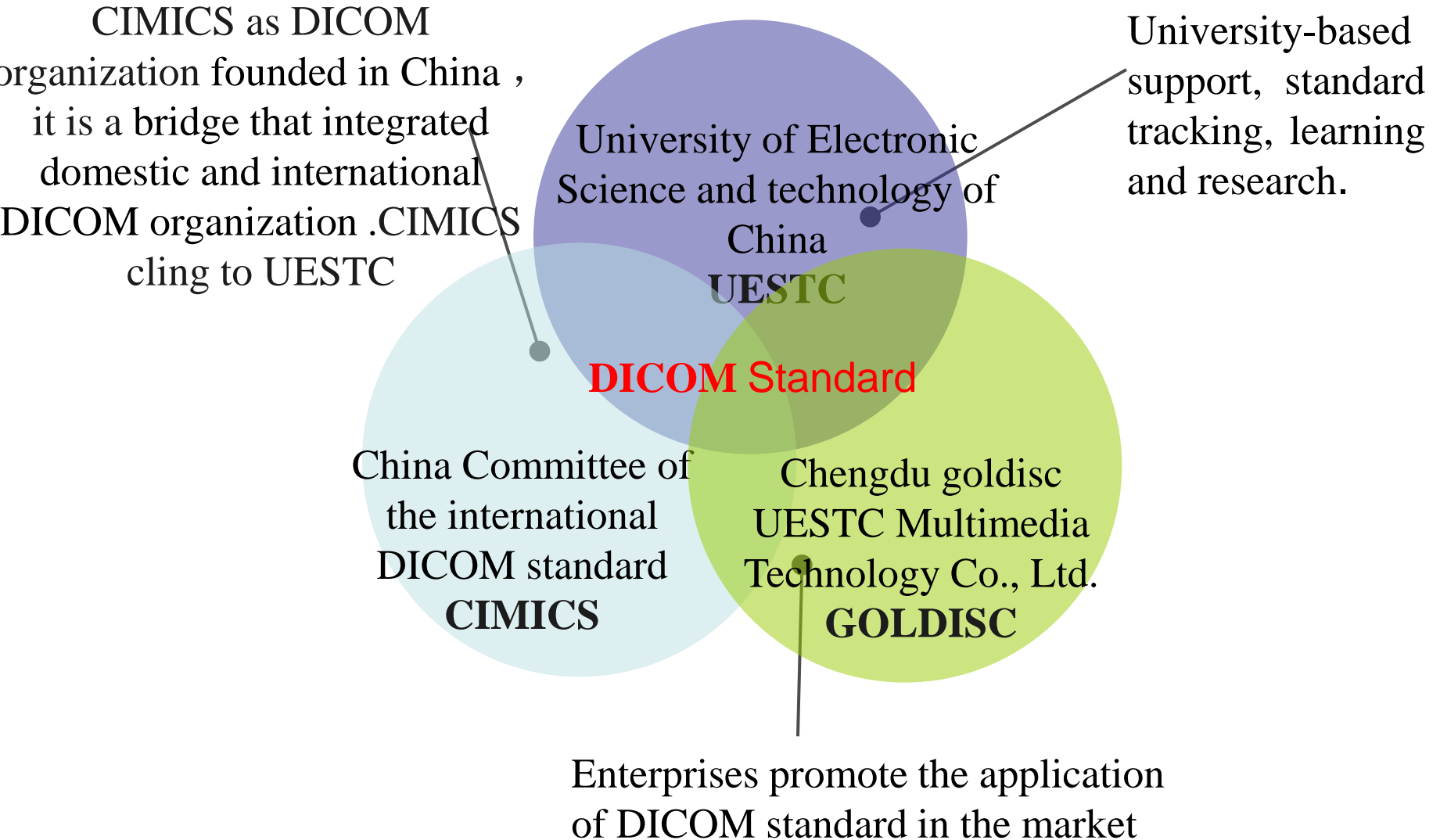
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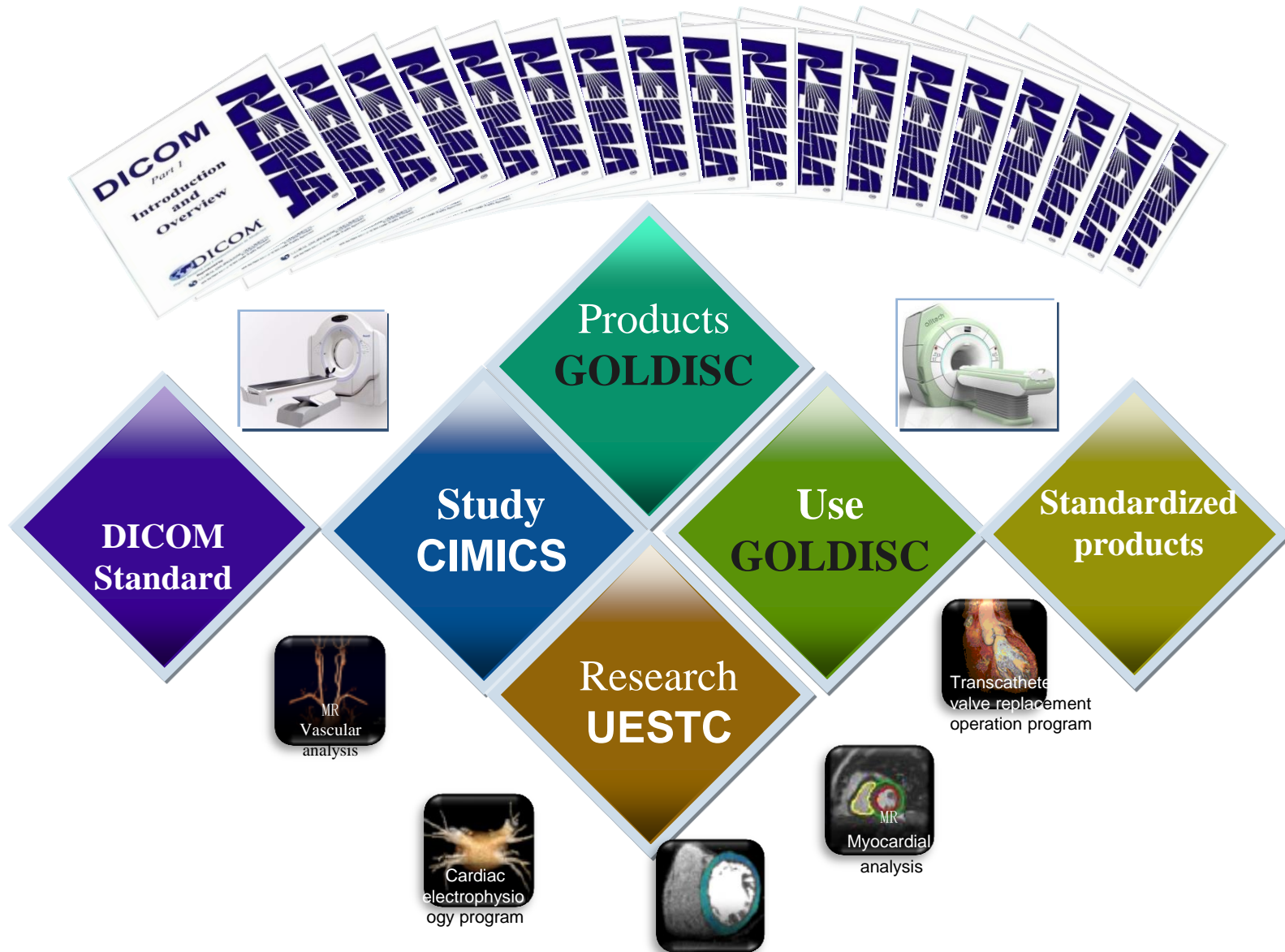


- Summary of background
- System introduction
- The scope and basis for measurement
- Work planning

# 1. Summary of background



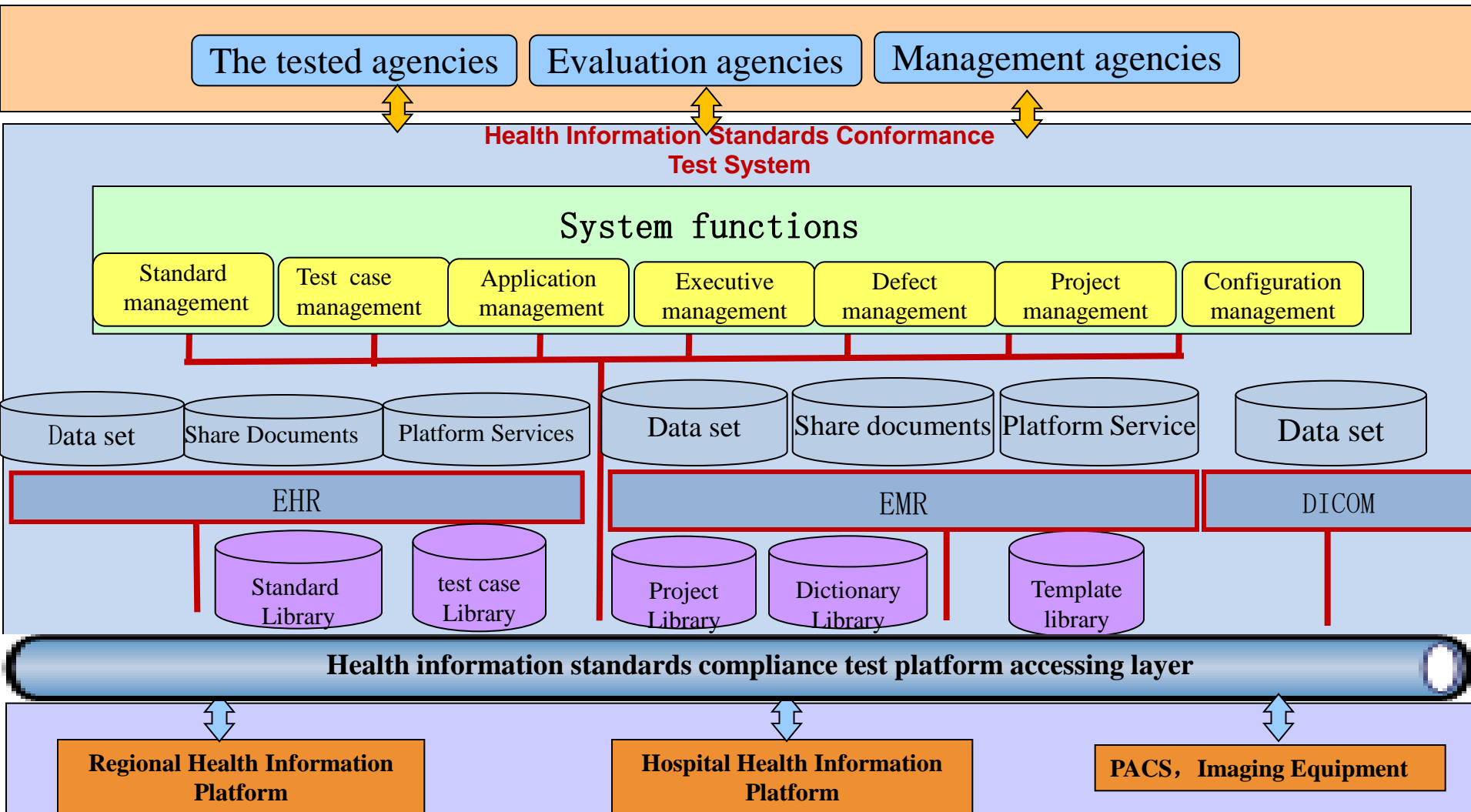
# 1. Summary of background



- **Context**
- **System Introduction**
- **The scope and basis for evaluation**
- **Work plans**

- **Health Information Standards Conformance Test System** is a scientific software systems of evaluation which mainly tests the ability of exchanging and sharing medical information in cross-system, cross-agency and cross-region. Through the test, It can promote the standardization of **regional information platform** based on standards of health records and **The standardization of hospital information system** based on EHR ,And It also can provide standards compliance for interoperability in different information system of hospital and multi-level platforms of The state, provinces and cities.
- The platform reference to "Electronic health records and regional health information platform for standards compliance test specification." (draft) and "Electronic medical records and hospital information platform standards compliance test specification." (draft) enacted by National Health and Family Planning Commission which conform to the relevant national standards and industry regulations

# System Introduction—— Logical structure



## 2. System Introduction-

## Function characteristics



- 1. Automated test :** The remote self testing, formal evaluation test full automation, automatic test case, test data generation, test results verify auto contrast.
- 2. Multi-environment test :** Laboratory test , field test 。
- 3. Full coverage test :** Dataset test of EHR and EMR 、 the sharing document test of HER and EMR、 Full coverage test of regional platform, hospital platform services and DICOM Chinese standards ; the test data generation full coverage : code type data element value of full coverage, non code type data element values of the random generation.
- 4. Flexibility test :** Test method and test process can be configured by the test case; test data standard value, intelligent generation super boundary value, realize the positive test and reverse test.
- 5. Traceability test :** The test case, test data automatic storage, to achieve traceability, repeatable test.
- 6. Visual testing :** Test process, test condition, test log, test visual defects.
- 7. Open, configurable :** The test template, data dictionary can increase and can be maintained 。
- 8. Multi-role management :** Management agencies to apply for institutions,, multi-role management, detection mechanism to control the test process.

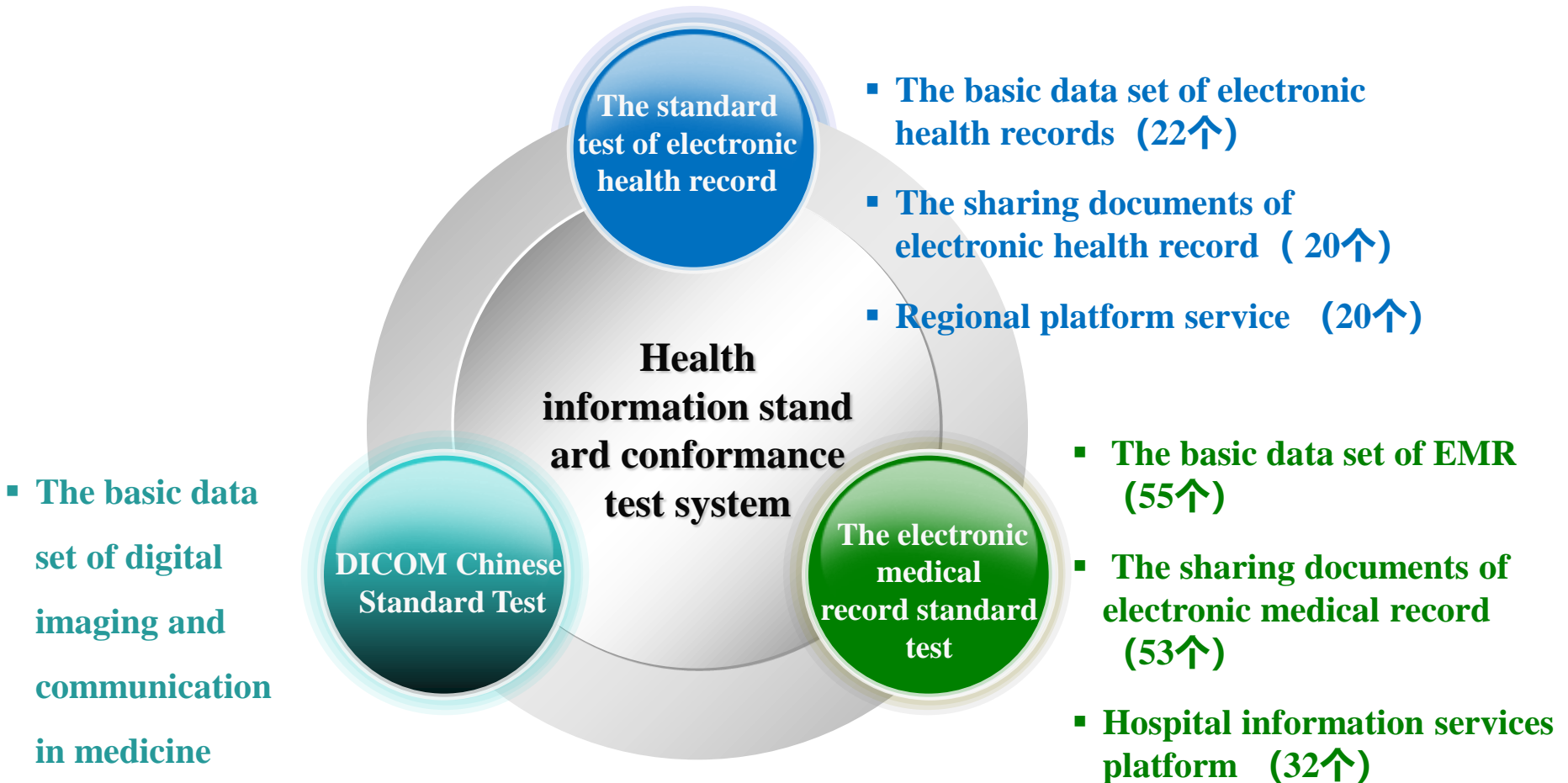


- **Background Introduction**
- **System Introduction**
- **Scope and Basis for Evaluation**
- **Work planning**

### 3. Evaluation basis and scope— Evaluation basis

- |                     |  |
|---------------------|--|
| 1. WS 363-2011      | Health information data element directory (all)  |
| 2. WS 364-2011      | Health information data element code (all)   |
| 3. WS 365-2011      | The basic data set of health records of residents in urban and rural areas                             |
| 4. WS 375.9-2012    | The basic data set of disease control The ninth part :<br>Medical certificate of death                 |
| 5.WS 376.1-2013     | The basic data set of child care The first part:<br>Medical proof of birth                             |
| 6. WS XXX-XXXX      | Health records sharing document specification (all)  |
| 7. WS XXX-XXXX      | The technical specification of regional health information platform based on resident health records   |
| 8. WS/T XXX-XXXX    | The interface specification of resident health archives and regional health information platform       |
| 9. WS 445-2014      | The basic data set of EMR (all)  |
| 10. WS XXXXX-XXXX   | The sharing document specification of the electronic medical record                                    |
| 11. WS/T XXXXX-XXXX | The specification for hospital information platform technology based on electronic medical record      |
| 12. WS/T XXXXX-XXXX | The interaction specification of electronic medical record and health information platform of hospital |
| 16. 2009-16-01      | Chinese package of medical digital imaging and communication specification                             |
| 17. 2011-15-84      | The basic data set of digital imaging and communication in medicine                                    |
| 18. GB 3304         | Ethnic category code table   |
| 19. GB/T 6565-2009  | Classification of occupation and code  |

### 3. Evaluation basis and scope— **Evaluation scope**



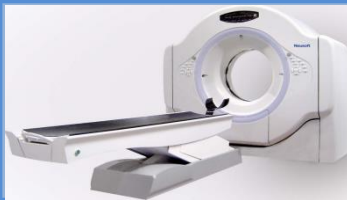
- **Background**
- **System introduction**
- **Evaluation basis and scope**
- **Work planning**

## 4. Work Plan

### DICOM Standard Conformance Test In Chinese-Test Content

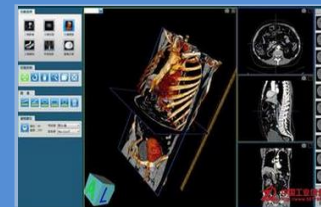
Medical Image Modalities

C-store



Medical Image System

Work list



Input and Output

## 4. Work Plan

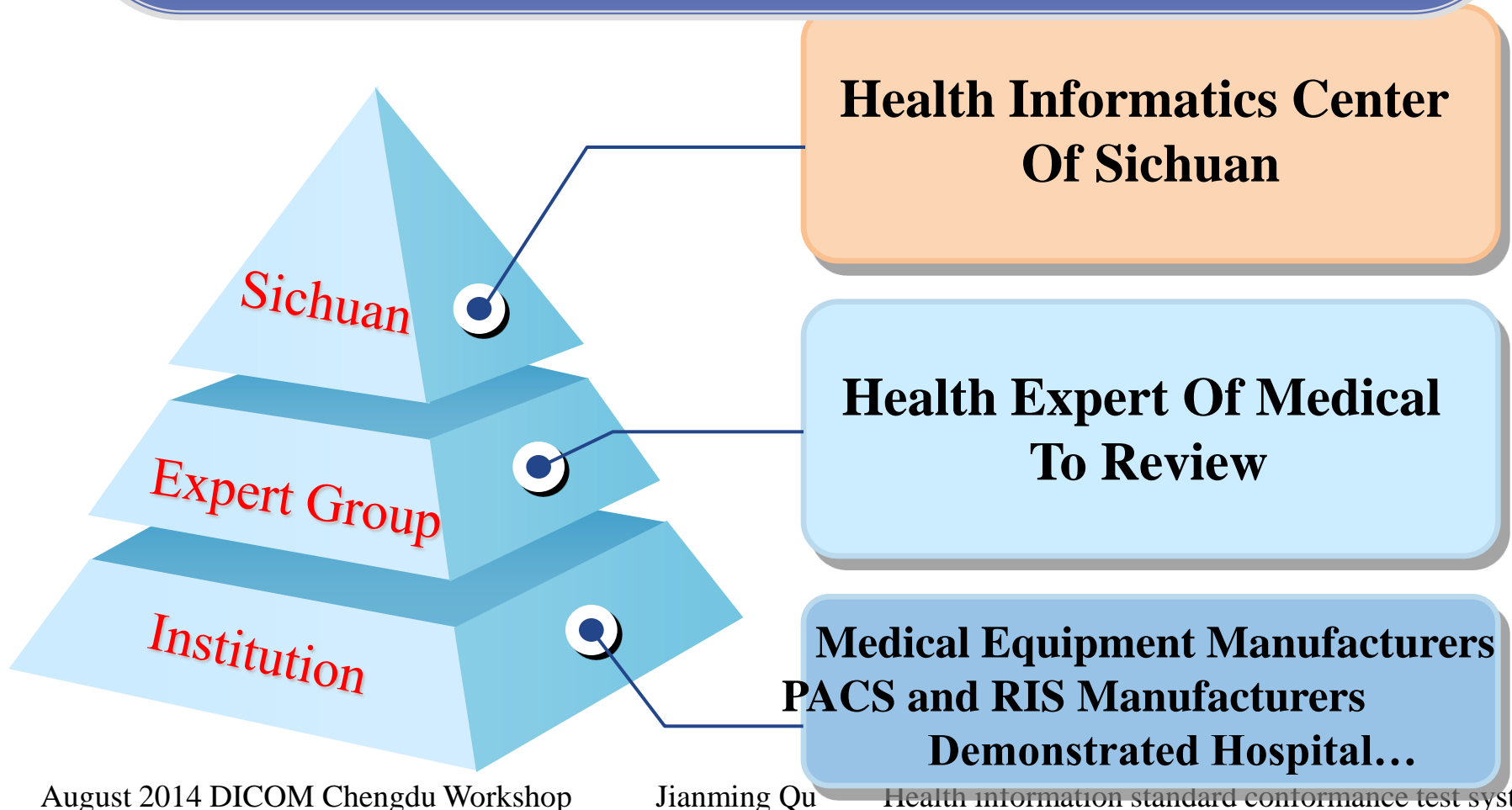
### DICOM Standard Conformance Test In Chinese—**Develop Pattern**



**Engineering Laboratory**

## 4. Work Plan

### DICOM Standard Conformance Test In Chinese-**Apply Demonstrate**





DICOM 2014 成都研讨会

8月25日

中国·成都



# Thank You!

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Welcome  
To  
Chengdu!

