Application of the OHDSI CDM on Korean Healthcare System
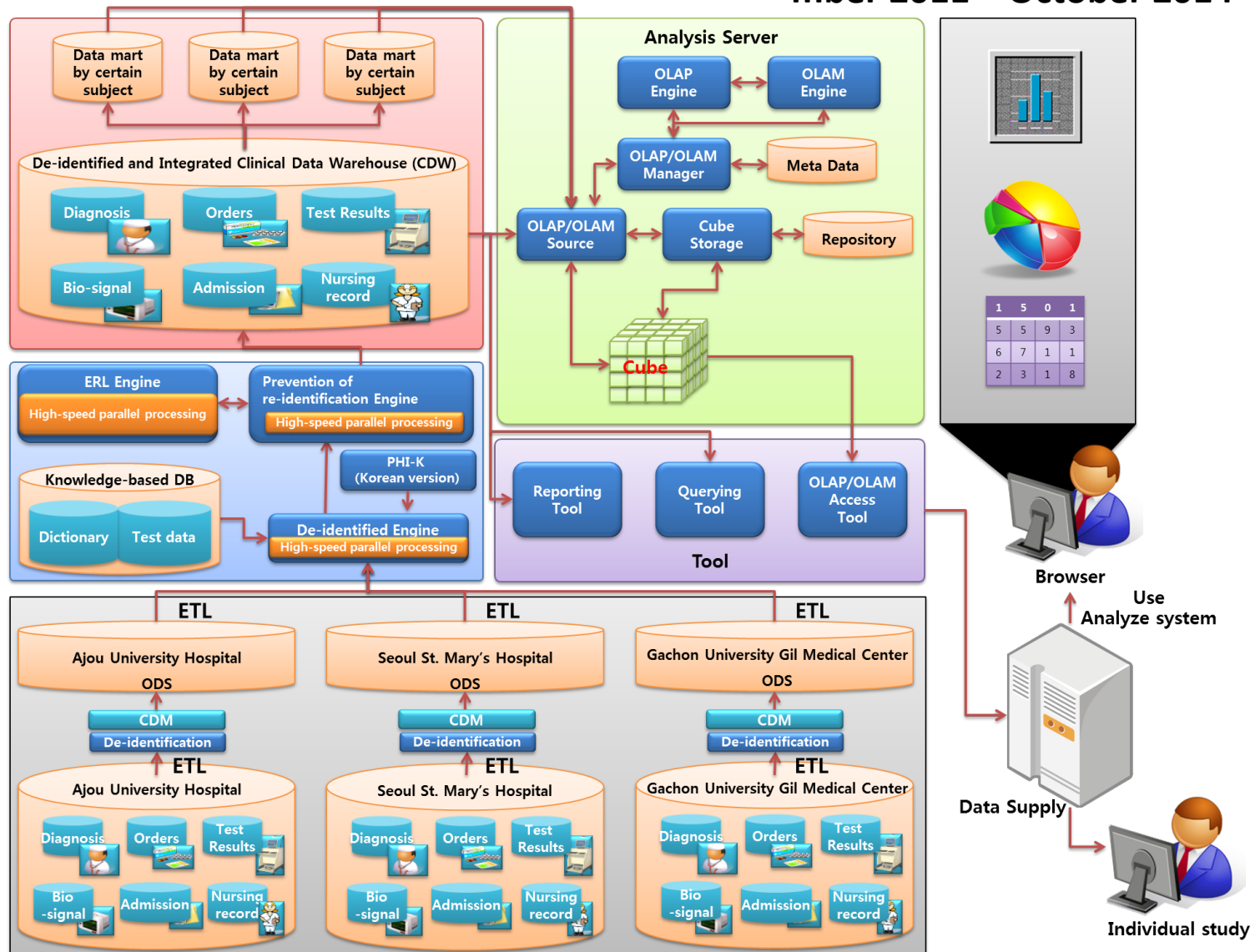
October, 20 2015

Department of Biomedical Informatics

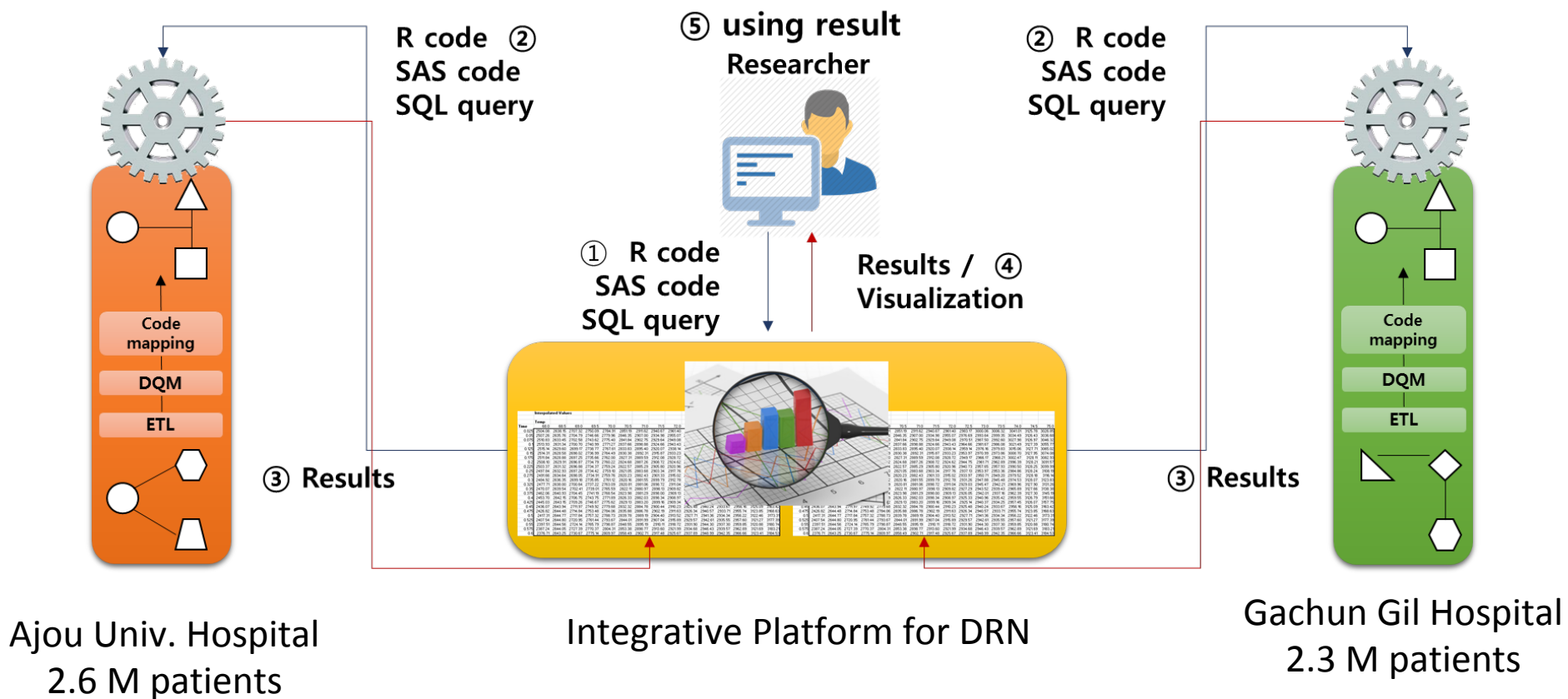Ajou University School of Medicine

Rae Woong Park, MD, PhD

Construction of a de-identified and integrated clinical data warehouse and analysis system

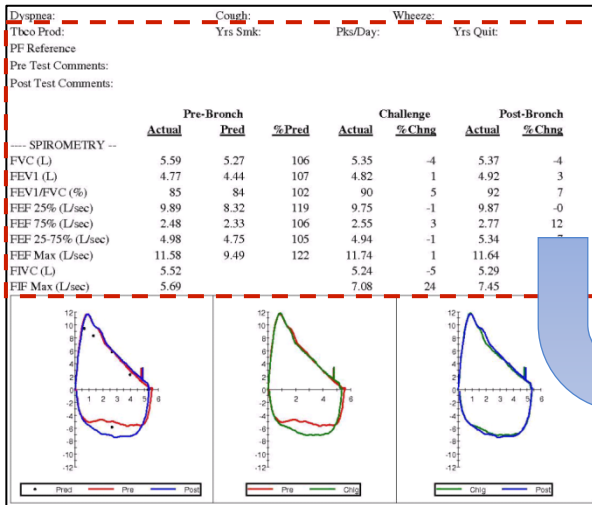Just finished 3-year project, December 2011 – October 2014

Development of an open-innovative clinical data visualization and analysis service based on OHDSI

**Just launched, 3-year project,
December 2014 – October 2017**

Ajou Univ. Hospital
2.6 M patients

Integrative Platform for DRN

Gachun Gil Hospital
2.3 M patients

Outcome database construction

1. Paper reports

OCR from free-text medical recording
*OCR: Optical Character Recognition

2. Recordings in **free-text format**

Parsing

3. **Digitalized** data (lab, med. etc.)

ETL
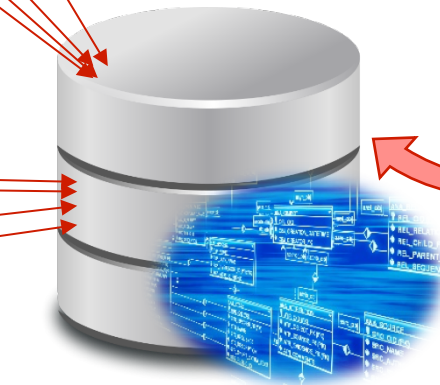
Outcome database

National Infrastructure for Clinical Data Sharing and Secondary Use

Real-time

Batch Process

Real-time feedback
CDSS - allergy, DDI
        - Lab results
        - medications
        - ...

④

Hospital

① ②

Real-time
EMR data

③

EMR   CDM
       (local)

③

Hospital

① ②

EMR   CDM

③

Hospital

① ②

EMR   CDM

Central Repository

CDW
(integrated)

ETL

batch

⑤

CDW
(Analytics)

Visualizing/
Analytics

⑥

National Infrastructure for Clinical Data Sharing and Secondary Use