



OHDSI Japan
established in Nov 2019!

1st Meeting

June 20th ,2019



2nd Meeting

Sep 5th - 6th ,2019



Mini-meet #1
Oct 29, 2019

3rd Meeting

Nov 19th ,2019



Mini-meet #2
Dec 17, 2019

Main attendee affiliations:
University hospitals, Pharmaceutical companies,
IT vendors, Data vendors



OHDSI Japan's Working Group

WG #1

OHDSI
Study Group

Learn RWD and OMOP-CDM / OHDSI including reading circle of OHDSI Book.

WG #2

Vocabulary
strategy

Consider how to tackle the vocabulary mapping from source data in Japan.

WG #3

Building
CDM

Efforts to build OMOP CDM by real world data holders in Japan.

WG #4

OHDSI Book
Translation

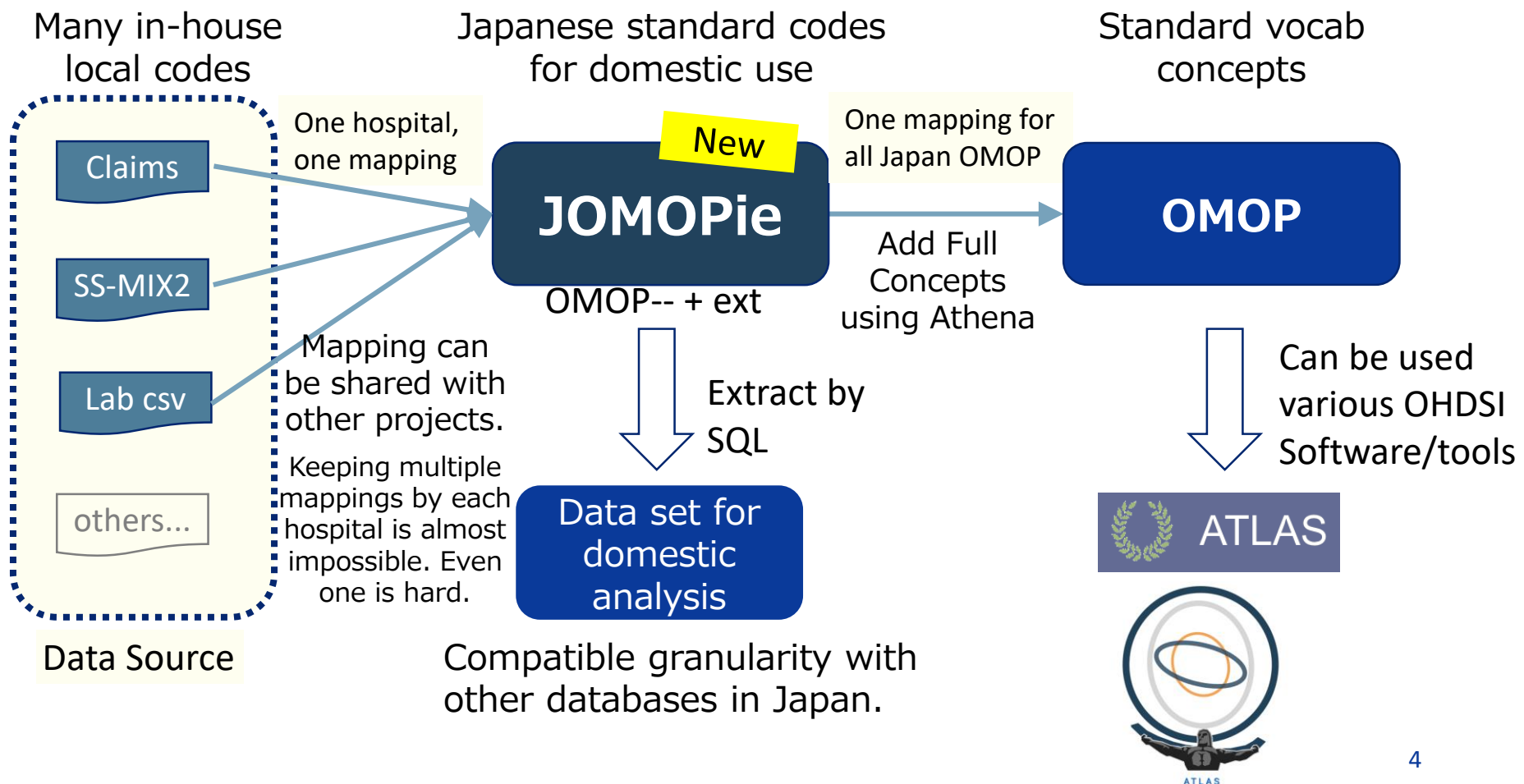
Translation activities for the publication of the Japanese version of OHDSI Book.

coming



JOMOPie -> gradual vocab approach

Multi-stage OMOPize method with useful intermediate stage data.





JOMOPie – features

1. Field expansion in clinical data tables for multiple Japanese standard codes, which is not for global use but is for domestic use where compatibility with other Japanese databases is important. Vocab tables are intact.
 - ※ *_source_value fields are for original local codes/names.
2. *_concept_id fields whose corresponding extended fields have values can be left as empty (or zero) for domestic use.
 - ※ Therefore, SNOMED issues can be set aside. Japan is not SNOMED member.
 - >Data holders in Japan are easy to participate**
3. Empty *_concept_id fields can be filled anytime when/where possible. Mapping from representative Japanese standards to OHDSI standards will be in Athena so that everyone can use it.
 - ※ In fact, mapping except to SNOMED can be done from the beginning.
 - >Coexist with global OMOP**
4. Limitation: Standard tools such as Atlas cannot be used without filling required *_concept_id fields.

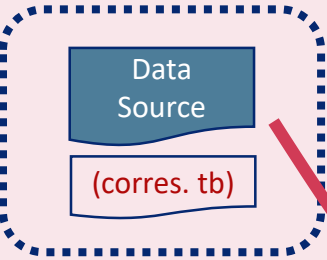


A free ETL tool in Japan

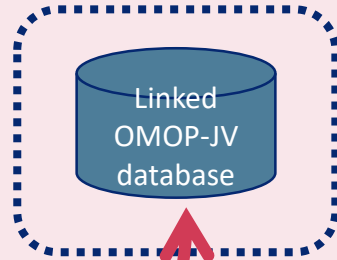
Prof Hiramatsu has developed a tool that can easily perform ETL using Oracle VirtualBox virtual machine.

VirtualBox Shared Folder

INfiles



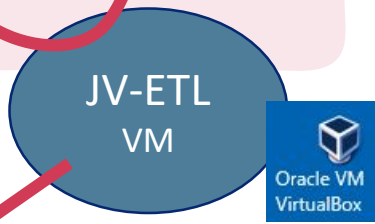
dbfiles



LOGfiles



OUTfiles



ETL Operation
<http://localhost:8500/>



Web interface showing '連結OMOP-JVへ取り込み (検査CSV)' and '格納データ件数 (レセプト)'. It includes a menu with instructions and two data tables.

取得処理中...
Phase1: (16.71%)

取り込んだレセプト年月と種類

年月	種類
2018-05	医科

※通常は国保と社保で2個づつある。

OMOP-JVテーブル件数

テーブル名	総件数
person	576
visit_occurrence	622
condition_occurrence	2,314
drug_exposure	3,236
procedure_occurrence	5,685
measurement	0
concept	1,112

person (人数)

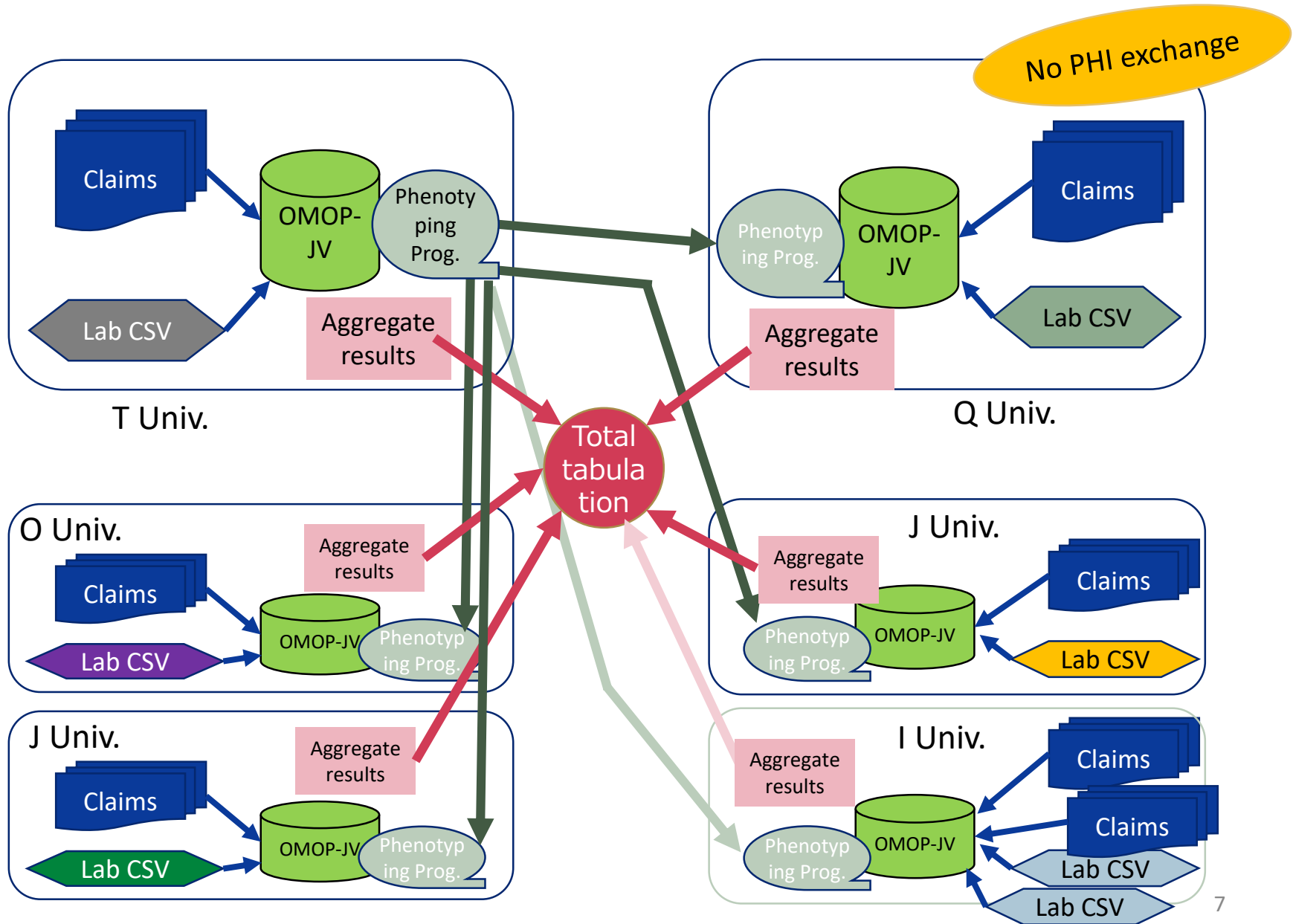
年齢層	総数	男性	女性
0-9	283	135	148
10-19	45	25	20
20-29	13	5	8
30-39	51	20	31
40-49	68	32	36
50-59	52	23	29
60-69	48	26	22
70-79	9	3	6
80-89	6	0	6
90-99	1	0	1
100-119	0	0	0
1899以前	0	0	0
2020以降	0	0	0
生年不明	0	0	0
合計	576	269	307

連結OMOP-JV 0.91 by T.Hiramatsu, 2018.

※ JV is the previous version of JOMOPie. We are going to reconstruct the tool.



An Example of usage in Japan





Going forward

As OHDSI JAPAN, we would like to realize the spread of OMOP in Japan by promoting activities such as...

- **Translating books**
- **Conducting various seminars**
- **Promoting implementation with Real data holders**

...etc

We really look forward to make new evidence with global healthcare data together with you!