

OSS Trends and Projects of Korea

Korea Open Source Software Promotion Forum

Hyunjin Ko



Agenda

01

Industry 4.0 & OSS

02

Korea OSS Market Overview

03

OSS Trends in Korea

04

Main Activities of KOPF



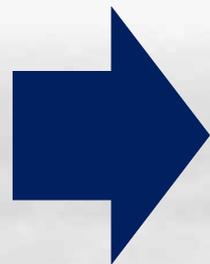
1. Industry 4.0 & OSS

Industry 4.0 : Name for the current trend of automation and data exchange
in manufacturing technologies (Wikipedia, 2017)

- ✓ Smart factory, software integration to the old factory
- ✓ Creation of new value in various industries & products/services by software integration

Open source software

- ✓ World wide participation of software developers and users
- ✓ Concentrates of up-to-date software technology
- ✓ High usability & expansion by source code open



Securing software usability in various industries & products/services

- High software technology / interoperability / connectivity is needed
- OSS is representative of open innovation model
- OSS is core ICT infrastructure for industry 4.0



2-1. Korea OSS Market Overview

Korea Open Source Software & Service Revenue

- 2016 Local OSS market reached 1,602 billion Korean won.
- 2016 YoY 13.6% growth.
CAGR 15.2% until 2020

CAGR
15.2%



Source: NIPA 2017

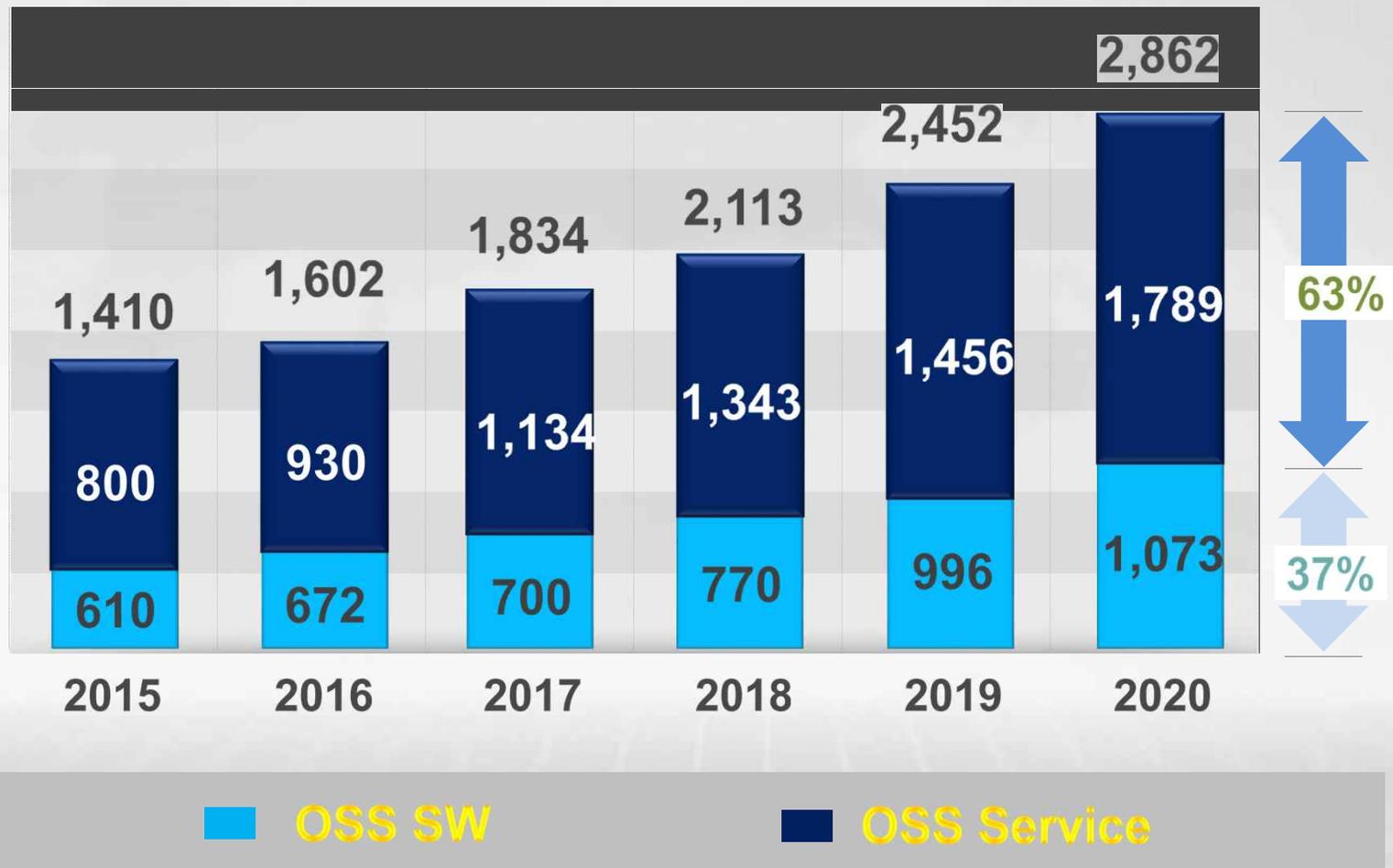
(unit: Billion Won)

2-2. Korea OSS Market Overview



Korea OSS Revenue Forecast by SW & Service

unit: Billion Won



Source: NIPA 2017



16th North East Asia Open Source Software
Promotion Forum 2017

3. OSS Trends in Korea

Flow of Korean OSS Trend



INTELLIGENT

AI Foundation
Intelligent Apps and Analytics
Intelligent Things



DIGITAL

Digital Twins
Cloud to the Edge
Conversational Platforms
Immersive Experience



MESH

Blockchain
Event-Driven
Continuous Adaptive Risk and Trust

Top 10 Strategic Technology Trends for 2018 (Gartner)



IoT



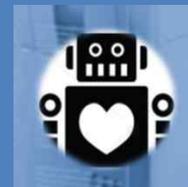
**Cloud
Big data**



Mobile



Platform



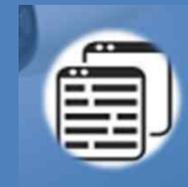
**Smart
Machine**



**Artificial
Intelligence**



Security



Compliance

4-1. Main Activities of KOPF (Projects)

Case1) ZEPL – Apache Zeppelin Project

- From 2014 Apache Software Foundation (ASF) incubation project, 2016 promoted Top Level Project with globally 211 contributors participation
- Rapid software function development with world wide contributors
- Securing global users like MS, Google, AT&T of Zeppelin project
- Adoption of up-to-date open source software technologies

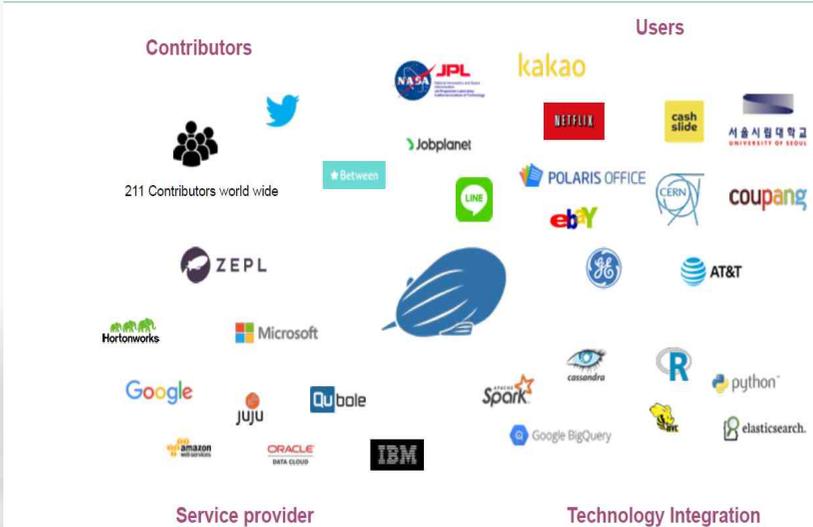


Apache Zeppelin

A web-based notebook that enables interactive data analytics. You can make beautiful data-driven, interactive and collaborative documents with SQL, Scala and more.



Zeppelin



Contributors

211 Contributors world wide

Users

Service provider

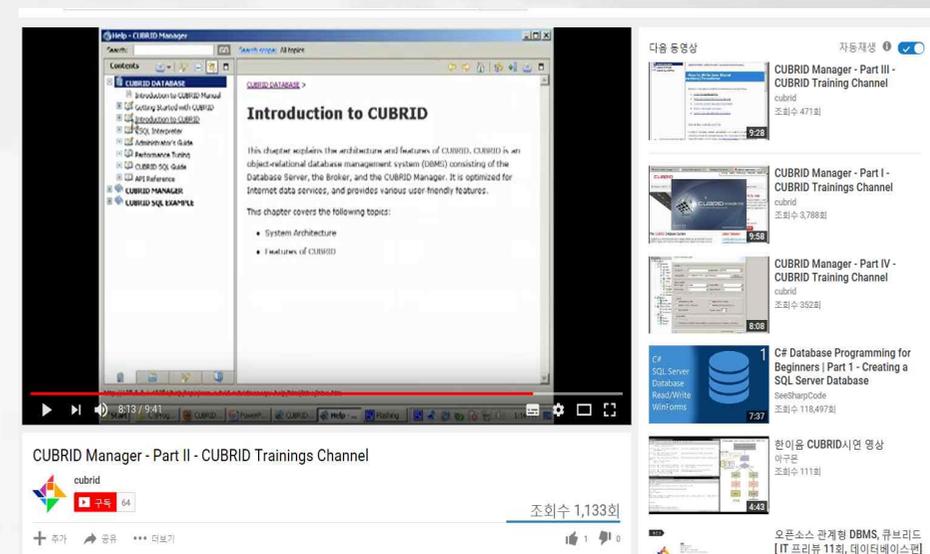
Technology Integration

(Source : Microsoft "Azure, The Open Cloud 2017, Seoul Roadshow")

4-2. Main Activities of KOPF (Projects)

Case2) CUBRID DBMS PROJECT

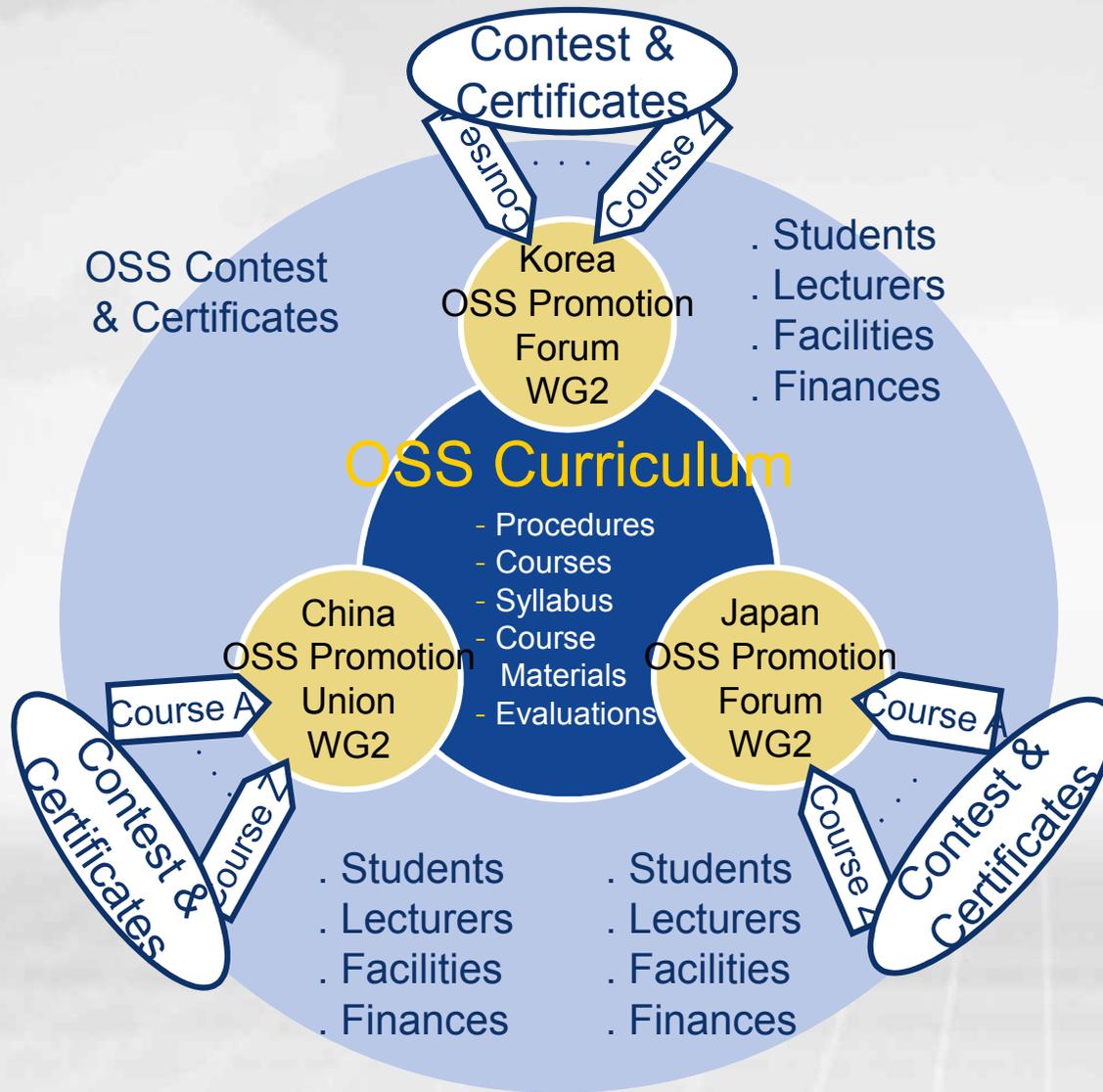
- CUBRID released CUBRID 6.5 Project in 2006
- After 1 year source code reviewing, CUBRID source code opened
- Easily gathering users usability feedback on CUBRID projects
- Fixing bug, based on users' feedback
➡ Short development period
- 2nd DBMS market share, in Korean public sectors



(Source : <http://cafe.naver.com/studycubrid/>)

4-3. Main Activities of KOPF (Model Curriculums)

Model Curriculums



- 2017년 새로운 Model Curriculums 추가

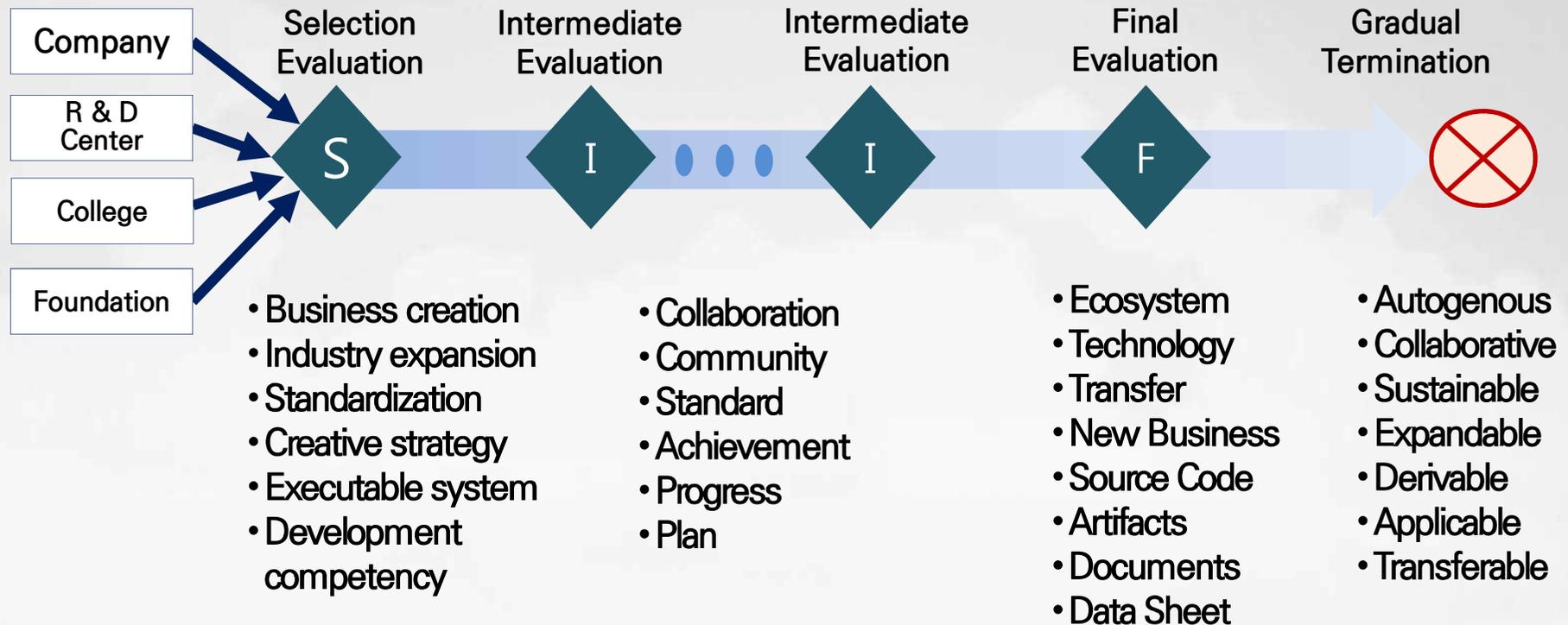
- IoT
- Cloud
- Legal Issues

- 한국 교육 Material 자료 기반으로 Open Source Workshop 개최

- Git / Node.js / Android / APM
- Gwangju, Dae gu, Seoul etc.

4-4. Main Activities of KOPF (Evaluation Open R&D)

Guideline for Open R&D Project



4-5. Main Activities of KOPF (Participation Culture)

Expand of participation culture

NetDev 2.2 Seoul, Korea

Invitation

We are very pleased to have the opportunity to host NetDev 2.2 in Korea on Nov.

We hope that NetDev 2.2 will be held successfully, and we will prepare the following:

- netconf / NetDev 2.2 Promotion and secretariat role in Korea
- Setting up the venue and supply venue staff / operation etc.



谢谢

ありがとうございました

감사합니다.