OSS Trends and Projects of Korea

Korea Open Source Software Promotion Forum

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Agenda

01 Korea OSS Market Overview

02 OSS Trends in Korea

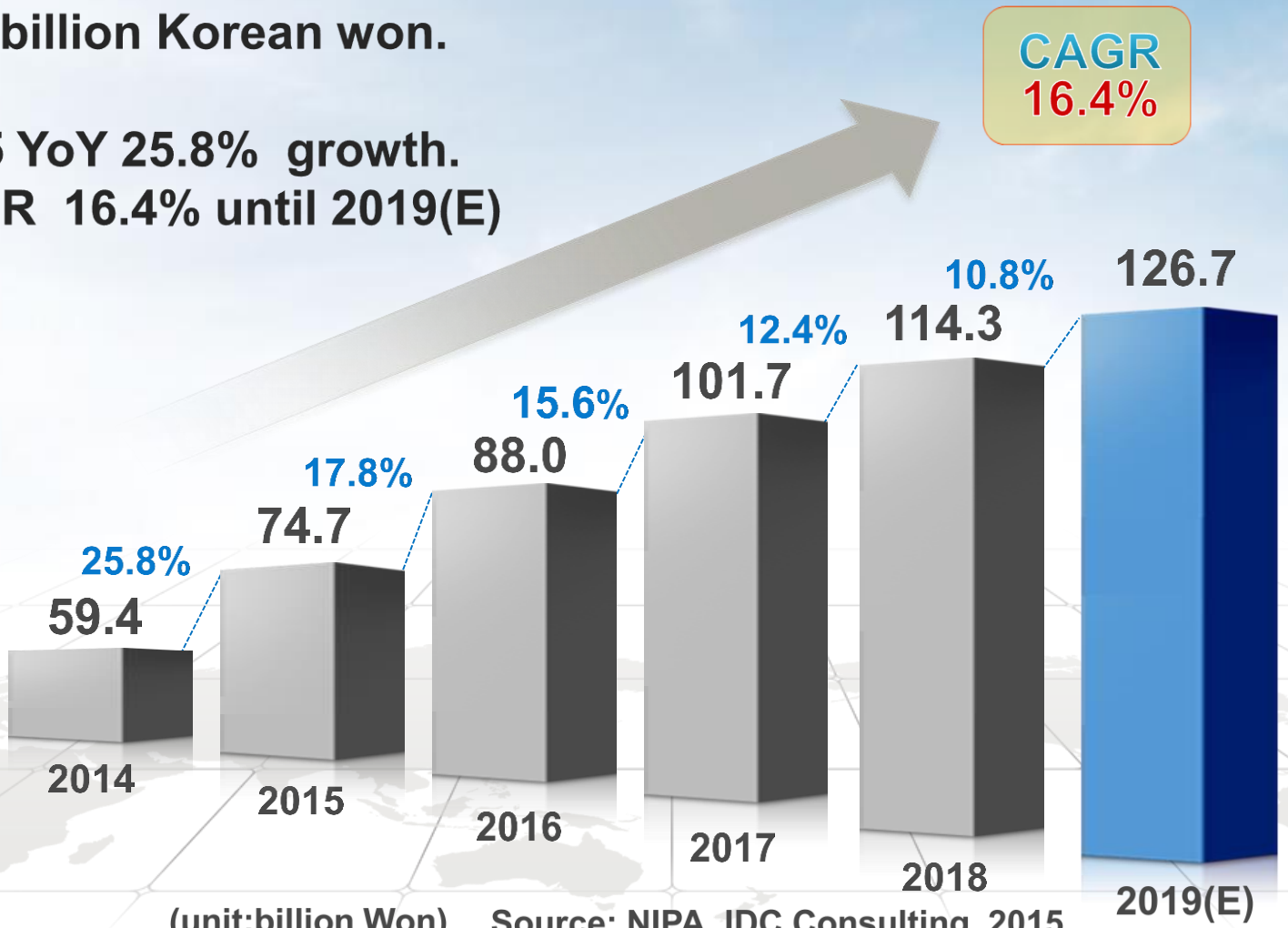
03 Successful Cases of OSS Adoption

04 Best OSS Project Top 5

1. Korea OSS Market Overview

Korea Open Source Software & Service Revenue

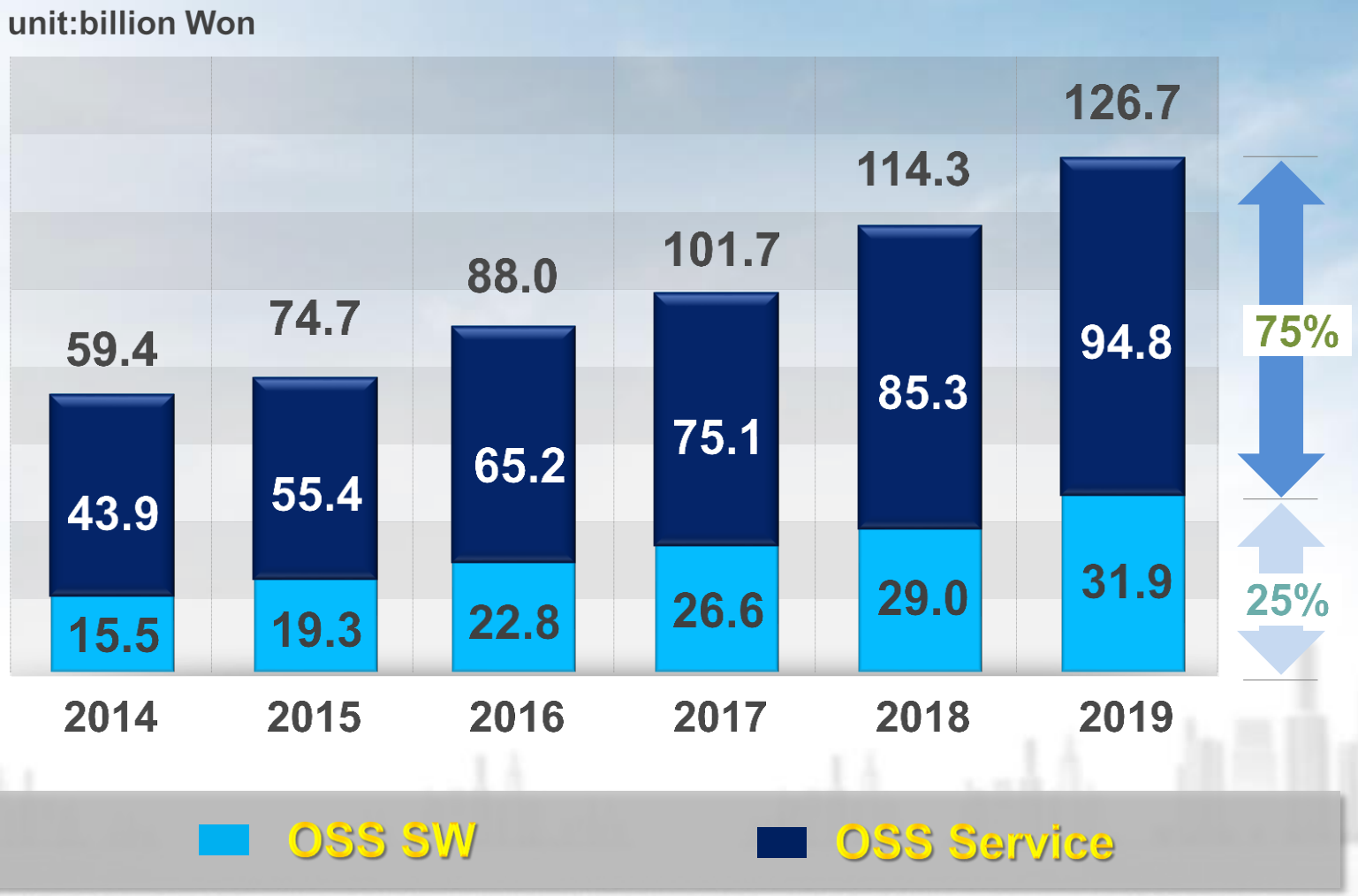
- 2015 Local OSS market reached 74.7 billion Korean won.
- 2015 YoY 25.8% growth.
  CAGR 16.4% until 2019(E)



(unit:billion Won) Source: NIPA, IDC Consulting, 2015

1. Korea OSS Market Overview

Korea OSS Revenue Forecast by SW & Service



Source: NIPA, IDC Consulting, 2015

2. OSS Trends in Korea

Flow of Korean OSS Trend

Internet of Things

Everything that can be Connected, will be Connected!

Mobile

Information anywhere Anytime!

Cloud

Infinite power of Computation in your Pocket!

Big Data

Insights about every Aspect of our lives!

VR GAME AI

3. Successful Cases of OSS Adoption

National Police Application

Korean National Police Agency

Improvement of traffic enforcement (camcorder image editing program)

[HamoniKR, MySQL, Tomcat, JSON]

- Image processing time reduced by 87.5%
- Overall efficiency increased by 267%

Entering information

Crackdown on scenes of violation

- ▶ USB
- ▶ Micro SD
- ▶ Securing images on violation

Interlinked with the system

Analyses Client

Image Editing SW, Evidence Management SW

- ▶ Video Extraction/Analysis
- ▶ Editing of extracted information
- ▶ Based on development-oriented OS (HamoniKR)

Traffic Control System

- ▶ Previously-built System
- ▶ Interlinked with the system
- ▶ Providing processing information

Uploading of extracted information ⇓ ⇑ **Providing processed result**

DB Server

Saving data on violation details

- Police station in charge of crackdown
- Details on violation
- Place of violation, etc.

⇔

Information Processing Server

Evidence Management SW, Manager SW

-Providing result of processing and analysis
-Saving details on violation in DB Server
-Providing information to TCS System

3. Successful Cases of OSS Adoption

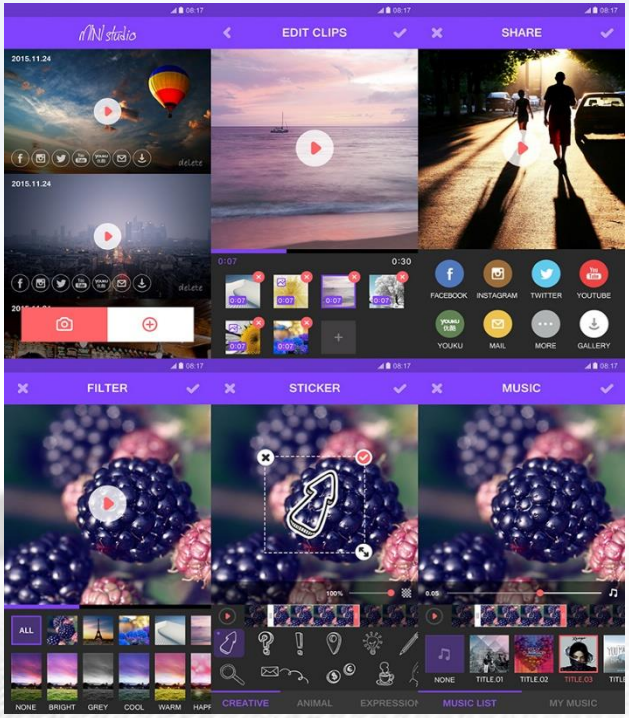
Contents Management

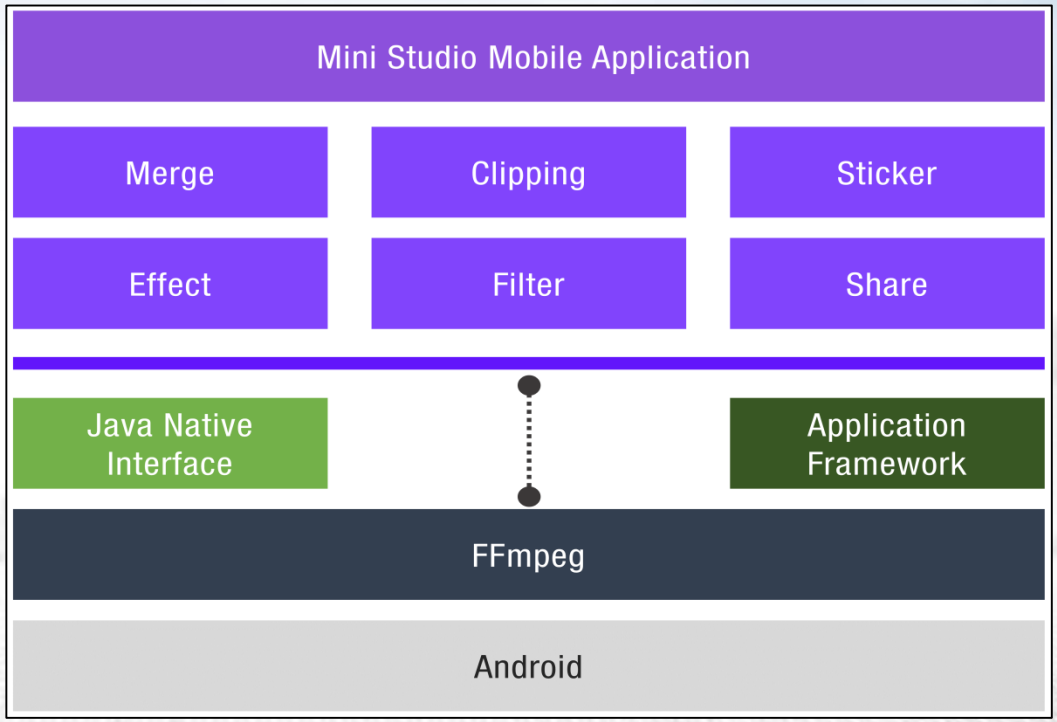
Challengers for the future
FLYON

MCN (Multi Channel Network) platform

[Ffmpeg, MySQL, Ark Linux, Apache Tomcat]

- Supports programming, funding, cross-promotion, partner management, copyright management, monetization and sales
- No need to transfer images shot on mobile devices to PC, so they can be made as contents and shared in high quality in many places





3. Successful Cases of OSS Adoption

Education

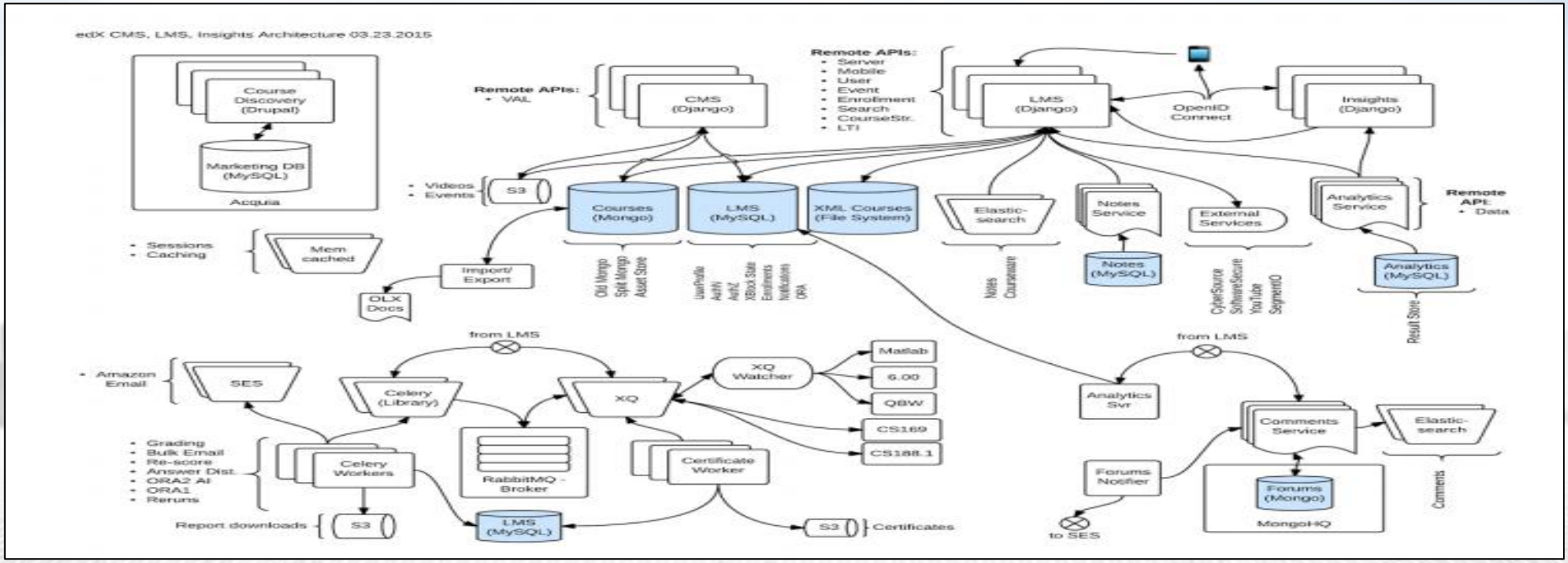
국가평생교육진흥원
National Institute for Lifelong Education

National Institute For Lifelong Education

K-MOOC (Korean Massive Open Online Course)

[Open edX(Python), MongoDB, MySQL, ElasticSearch, Ruby On Rails, Nginx, Django]

- Provides free online lectures for everyone
- Excellent function optimized for online education, reduction of SW purchasing cost, shortened development period, and ease of future globalization of contents



3. Successful Cases of OSS Adoption

Education

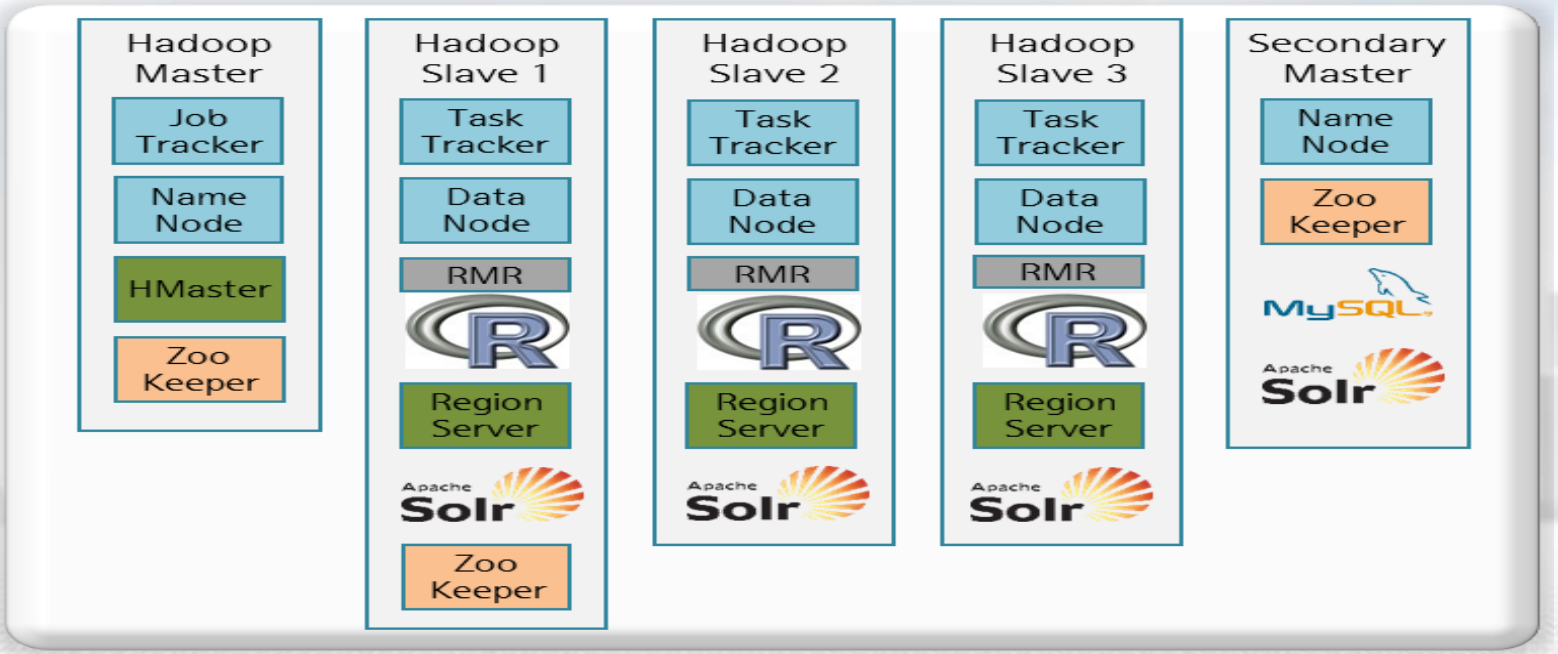
KiSTi
www.kisti.re.kr

Korea Institute of Science and Technology Information

"Library Data Analysis Utilization System"

[Hadoop, apache mahout, MySQL, SOLR]

- Librarian Decision Support System
- Customized book recommendation service
- Library Data Sharing Center



4. Best OSS Project Top 5

Best OSS Project Top 5

1st
- **Swift3**
  (Programing Language, Apple)

2nd
- **Yarn**
  (Dependency Management of JAVA, Facebook/Google/Tilde)

3rd
- **TensorFlow**
  (Machine Learning Library, Google)

4th
- **React Native**
  (Framework, Facebook)

5th
- **Material Design Lite**
  (Code for Material Design, Google)

All major OSS Project sponsored by Apple, Google, Facebook.

What should we do?

15th North East Asia Open Source Software Promotion Forum 2016

谢谢

ありがとうございました

감사합니다.