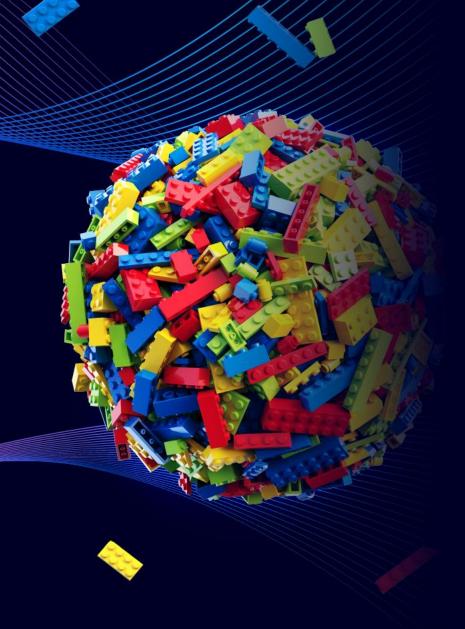
오픈소스와 클라우드 생태계 성장전략

NHN 클라우드, 김명신 CTO



CONTENTS

- Old Open Source is NOT
- 02 Open Source 활용
- **03** Open Source 참여
- **04** Open Source 적용
- **05** Becomes a business
- 06 Open Source + Cloud





Context Aware, K-칭찬

- 잘 그린 그림 : 사진 같다.
- 멋있는 사진 : 그림 같다.
- 진짜 같은 인형 : 사람 같다.
- 멋있는 사람: 인형 같다.
- 맛있는 집밥: 파는 음식 같다.
- 맛있는 외식: 집밥 같다.

Semantic Change

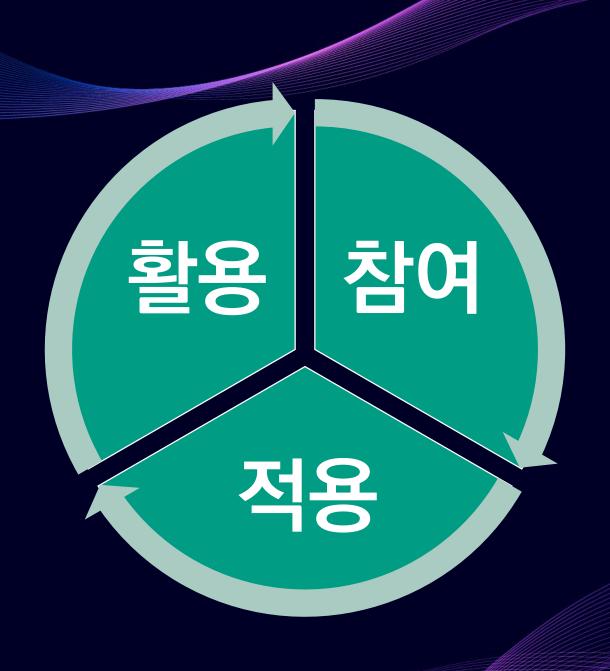
- 분식: 밀가루 음식 → 길거리 음식
- 양복: 서양식 옷 → 남성 정장
- 노트북: 공책 → 랩탑 컴퓨터
- 마초: 수컷을 의미하는 스페인어 → 외적으로 남성미가 넘치는 남성
- 쌍팔년도: 1955(단기 4288년), 현재시국 → 1988년 → 구시대적



Open Source is NOT

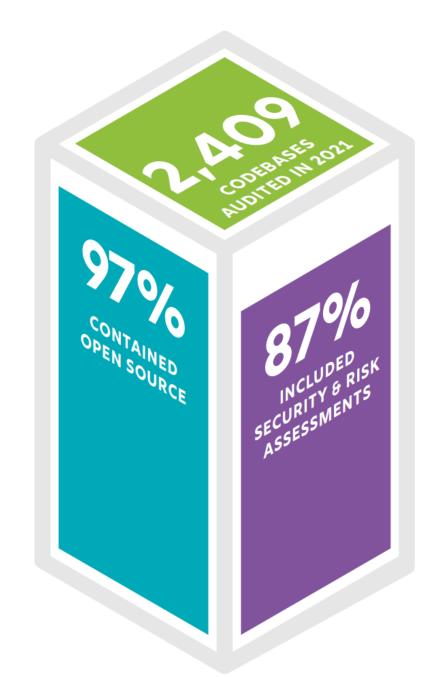
- Free, No License
- Buzzword
- Viewing Code
- Business Model

Open, Collaborative, Flexible Software Development Model



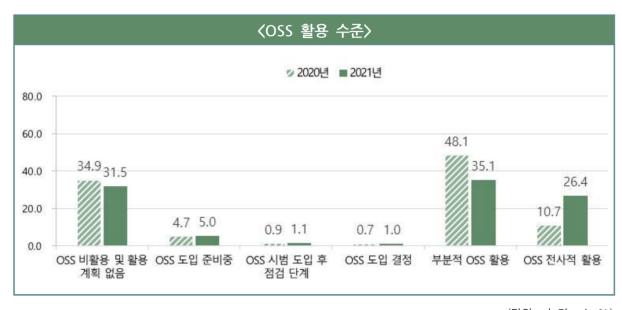


- 97% Contained Open Source
- 78% code in codebases was open source





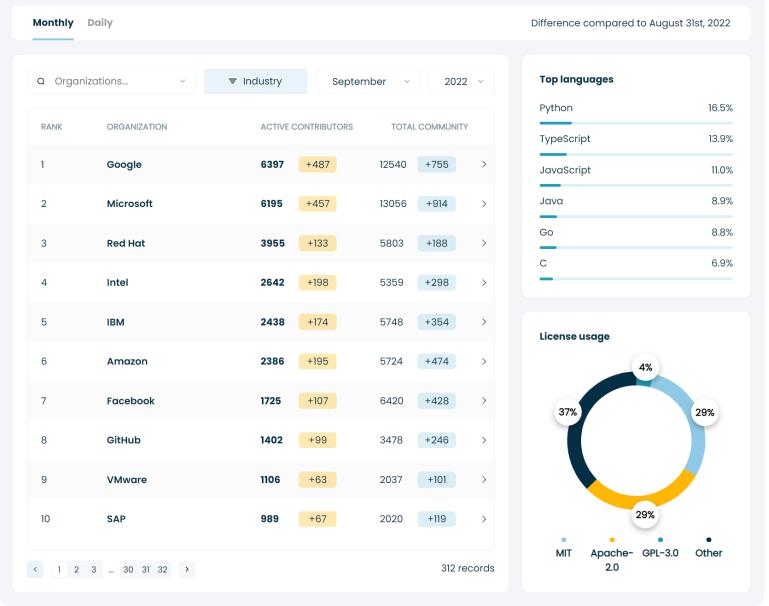
- OSS 활용률 61.5%
- OSS 활용,내부코드 비공개 58.5%
- 자사제품에서 OSS 사용 39.8%
- OSS 라이선스 조직 보유 6.6%



(단위 : 농가, ㎡, %)

구 분	사례 수	OSS 비활용 및 활용 계획 없음	OSS 도입 준비중	OSS 시범 도입 후 점검 단계	OSS 도입 결정	부분적 OSS 활용	OSS 전사적 활용
2020년	1,034	34.9	4.7	0.9	0.7	48.1	10.7
2021년	1,229	31.5	5.0	1.1	1.0	35.1	26.4
ЫSМ	985	36.1	4.1	0.5	0.8	35.2	23.2
SW	244	12.7	9.0	3.3	1.6	34.4	38.9

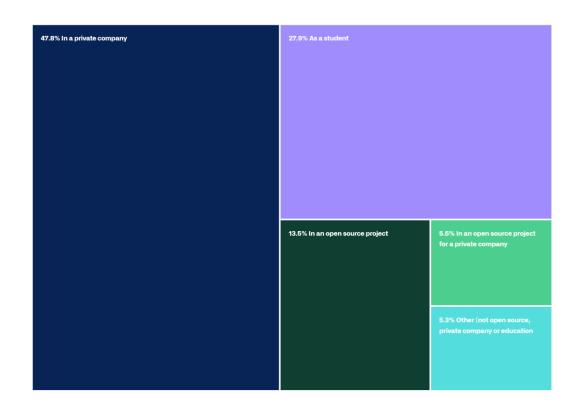
03 참여(Global)





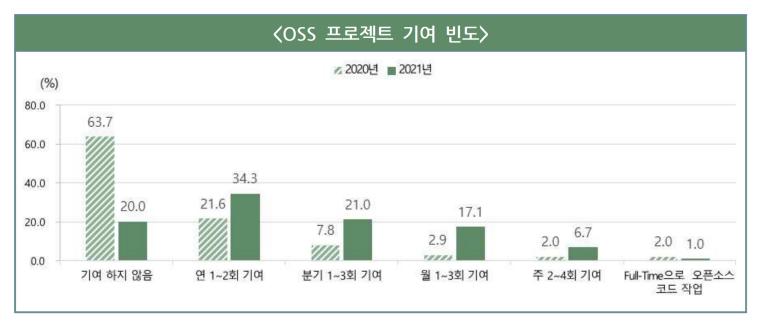
Where respondents contribute code, github

- 47.8% in a private company
- 27.9% as a student
- 13.5% in an open source project
- 5.5% in an open source project
 for a private company
 5.3% others



03 참여(Korea)

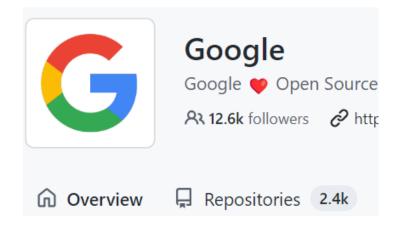
- OSS 관련 커뮤니티 활동률 15.4%
- OSS 핵심 참여자 17.1%
- 기여빈도 연1~2회 34.3%



(단위: 개, %)

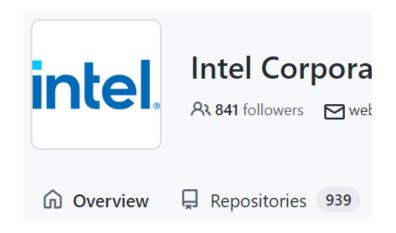
구 분	사례 수	기여 하지 않음	연 1~2회 기여	분기 1~3회 기여	월 1~3회 기여	주 2~4회 기여	Full-Time으 로 오픈소스 코드 작업
2020년	102	63.7	21.6	7.8	2.9	2.0	2.0
2021년	105	20.0	34.3	21.0	17.1	6.7	1.0

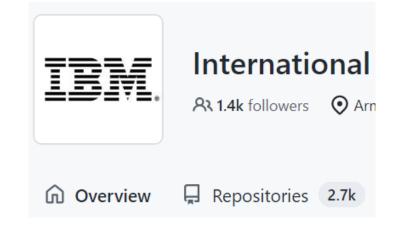


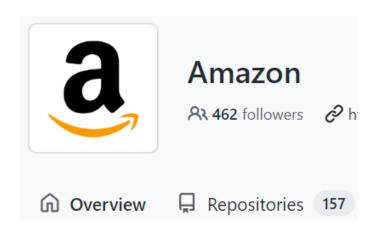






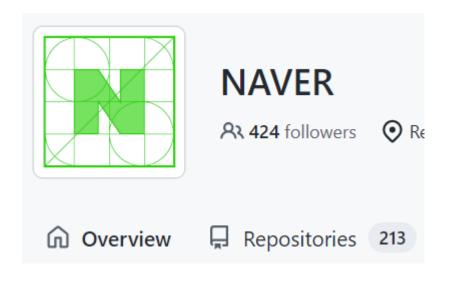


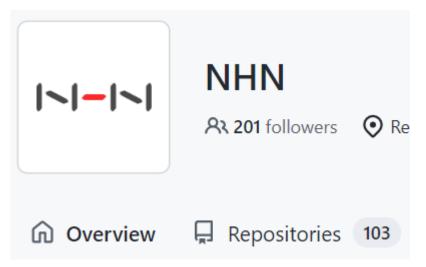




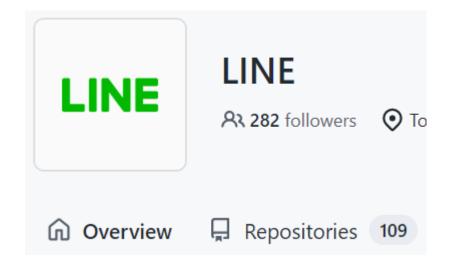


04 적용(Korea), github









Again, Open Source is

Software development model,

Not a Business Model, But

Economic value

Ranking	Project	Leading company	Market Value
1	Linux	Red Hat	\$16 billion
2	Git	GitHub	\$2 billion
3	MySQL	Oracle	\$1.87 billion
4	Node.js	NodeSource	?
5	Docker	Docker	\$1 billion
6	Hadoop	Cloudera	\$3 billion
7	Elasticsearch	Elastic	\$700 million
8	Spark	Databricks	\$513 million
9	MongoDB	MongoDB	\$1.57 billion
10	Selenium	Sauce Labs	\$470 million

Five Steps to Open Source Success











Get amazing idea

Write code

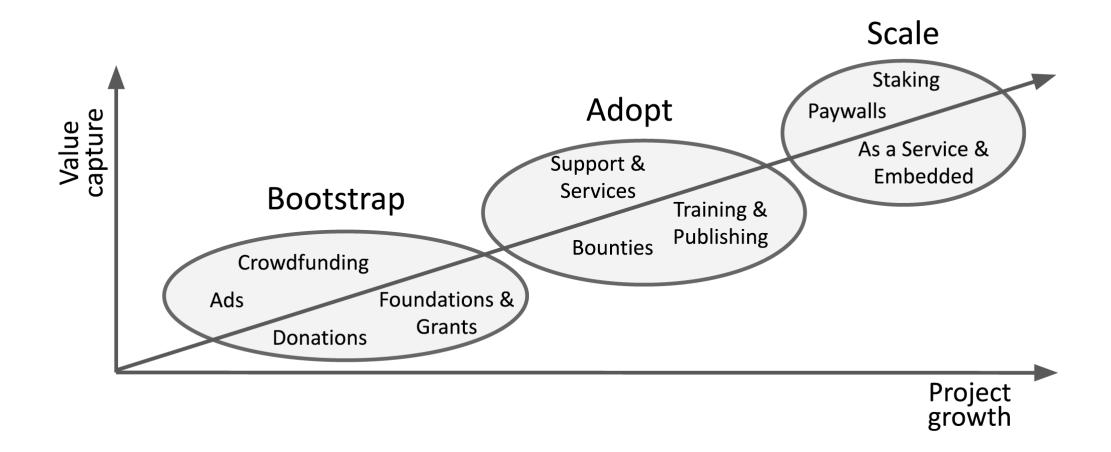
Publish project

Profit!

05 Becomes a business

- Support and Consulting Services
- Proprietary Features(a.k.a. open core)
- Support Plus Proprietary Features
- Distribution/Branding
- Dual Licensing(has become less popular)
- SaaS(Software As a Service)

Open source monetization journey



Open Source is

Software development model

Cloud is

Software distribution mechanism

06 Open Source + Cloud

- In Previous, Employed open source to complete with the incumbents
 - Red Hat used Linux to go against Microsoft Windows
 - Xen & KVM complete against VMWare
 - Postgres & MySQL against Oracle

- Now, built in a cloud-native ecosystem
 - Utilize cloud to distribute Open Source Software

MongoDB Atlas. Fully managed MongoDB in the cloud.

Harness the power of your data by building and managing your data in the cloud.



AWS, Microsoft Azure 및 Google Cloud의 관 리형 Elasticsearch와 Kibana

개발사가 제공하는 공식 Elasticsearch Service를 시작해 보세요. 선택하신 클라우드 서비스 제공자에서 완전히 로드된 배포를 이용하세요.



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An open and unified data analytics platform for data engineering, data science, machine learning, and analytics. From the original creators of Apache SparkTM, Delta lake, MLflow, and Koalas.









Open Source & Cloud is Not substitutes, complements



Good companies create products, but great companies create ecosystems based on open source.

Jim Zemlin

Executive Director at Linux Foundation

감사합니다

• 오픈소스와 클라우드 생태계 성장전략