LFENERGY

Recommended Practices for Improving the Impact of Enterprise Open Source Development and Participation

Ibrahim Haddad, Ph.D.

VP Strategic Programs, Linux Foundation

Executive Director, LF AI Foundation

This deck was contributed by Ibrahim Haddad to LF Energy and is licensed under <u>CC BY 4.0</u>.

@IbrahimAtLinux
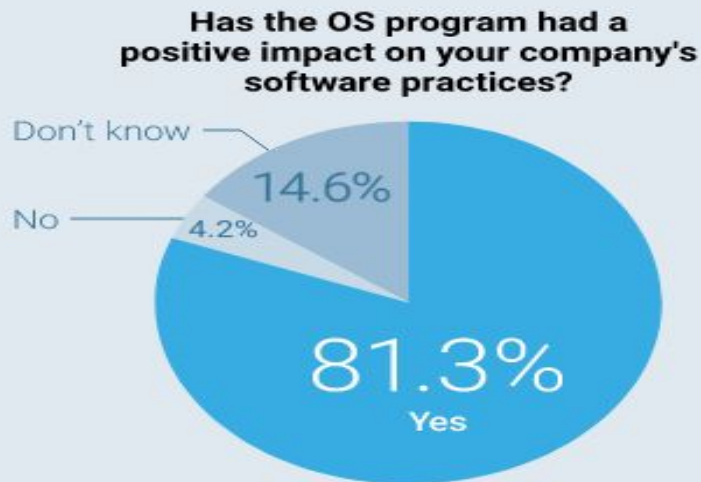
linkedin.com/in/ibrahimhaddad/

github.com/ibrahimhaddad

IbrahimAtLinux.com

Ibrahim@Linux.com

LFENERGY

Smart companies have an open source strategy

The rise of open source program offices
https://github.com/todogroup/survey/tree/master/2019

Open Source Programs are Overwhelmingly Beneficial

Has the OS program had a positive impact on your company's software practices?

- Don't know — 14.6%
- No — 4.2%
- Yes — 81.3%

In which ways?

Better license compliance	9.2%
Better code quality/review	8.3%
Time to market/better agility	7.9%
Better security	6.1%
Cost savings	3.9%
Recruitment and training	3.9%
Better product development	3.5%
Open source awareness	3.1%
CI/CD	2.6%
Better programming practices	2.2%
Open source culture	1.8%

Source: "Open Source Programs in the Enterprise - 2019" Survey.
Q: Has the open source program had a positive impact on your company's software practices? n=576.
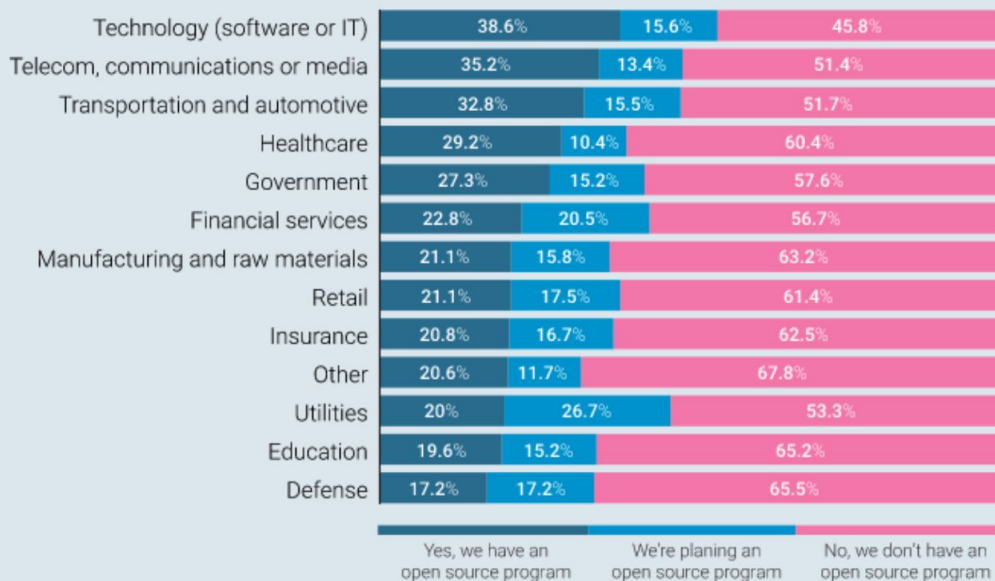Q: If yes, please provide one or two specific examples. n=228.

LINUX TODO
© 2019 THENEWSTACK

Best Practices

Create an open source program office

Tech and Telecom Firms Most Likely to Have an OSS Program

Industry	Yes, we have an open source program	We're planing an open source program	No, we don't have an open source program
Technology (software or IT)	38.6%	15.6%	45.8%
Telecom, communications or media	35.2%	13.4%	51.4%
Transportation and automotive	32.8%	15.5%	51.7%
Healthcare	29.2%	10.4%	60.4%
Government	27.3%	15.2%	57.6%
Financial services	22.8%	20.5%	56.7%
Manufacturing and raw materials	21.1%	15.8%	63.2%
Retail	21.1%	17.5%	61.4%
Insurance	20.8%	16.7%	62.5%
Other	20.6%	11.7%	67.8%
Utilities	20%	26.7%	53.3%
Education	19.6%	15.2%	65.2%
Defense	17.2%	17.2%	65.5%

Source: "Open Source Programs in the Enterprise - 2019" Survey. Q. Does your company have an open source program (either formal or informal) or management initiative? Defense, n=29; Education, n=112; Financial services, n=127; Government, n=66; Healthcare, n=48; Insurance, n=24; Manufacturing and raw materials, n=38; Other, n=180; Retail, n=57; Technology (software or IT), n=712; Telecom, communications or media, n=142; Transportation and automotive, n=58; Utilities, n=30.

© 2019 THE NEW STACK

Has the OS program had a positive impact on your company's software practices?

Don't know — 14.6%
No — 4.2%
81.3% Yes
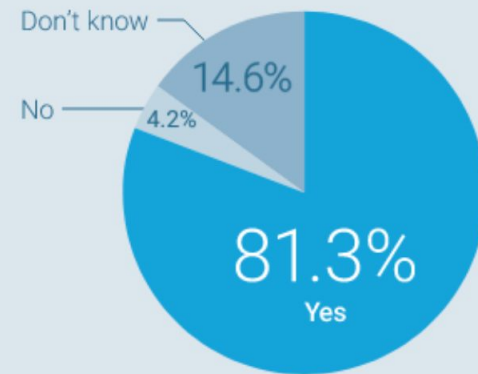
Hire or promote a leader for the OSPO

Identify your reliance on open source software

› What components are you using? Where?
› How important are they to your software stack/product/service?
› One option is to focus on software used by many business units or incorporated in several products. Such an approach will allow you to show a return on investment across multiple business units or across high risk areas.

LFENERGY

Identify current and target open source position

› Consumer, Participant, Contributor, Leader.
› Each position requires a specific set of investment and action plan.

Develop and execute an open source strategy

› Technical, legal, product, ecosystem and business considerations.
› Open source strategy is a core component of any software strategy.
› How can open source strategy accelerate your organization?
› How can an open source strategy help you achieve overall corporate objectives?
› How can an open source strategy help you achieve your IP strategy?
› How can it an open source strategy help you grab opportunities that are otherwise unattainable?

Implement an open source enabling environment

›   Policies
›   Processes
›   Tools
›   Development environment
›   Dedicated team
›   Educational resources
›   Open standards
›   Open source foundations
›   Compliance initiatives
›   Communication
›   Human resources
›   Etc.

Provide a flexible IT infrastructure

Build expertise in key areas

› Technical
› Ecosystem
› Strategy
› Evangelism
› Community
› Etc.

Create meaningful metrics to track your progress

› If you can't measure it, you can't improve it.
› Some exceptions apply!

LF ENERGY

Create and outsource open source training

› Create training on company strategy, policies, guidelines, etc.
› Outsource technical and development training.

Establish relationships with open source foundations

› Get involved.
› Become a member.
› Influence discussions, policy making, be in the know, etc.

Establish a framework for open sourcing internal code

› Policy
› Process
› Due diligence (technical, business, legal)
› Checklists
› Tooling
› Etc.

LF ENERGY

Encourage internal collaborations

Enable them via inner sourcing practices

Participate and host open source events

› Be visible
› Show your work
› Seek collaborators

Establish open source R&D projects with universities

LF ENERGY

Update your outsourcing agreements, your M&A practices

› Ensure compliance within your software supply chain.

Closing Thoughts

Challenge Areas

Culture	Processes	Tools	Continuity	Education
Development model	Governance	IT infrastructure	Strategy	Executive education
Collaboration	Usage	Development tools	Projects	Knowledge transfer
Transparency	Compliance	Metric/KPI tracking	Priorities	Technical training
Meritocracy	Contribution	Knowledge sharing	Funding	Compliance training
Team formation	Approvals	Code reuse	Executive support	Mentorship program
Hiring practices	Operational model			
Right success metrics				

References

TODO

THE LINUX FOUNDATION

Using Open Source Code

Ensure that your organization meets its legal obligations when integrating open source code in your commercial products.

VIEW GUIDE

Improving Your Open Source Development Impact

Discover how you and your company can improve your internal development process and prepare to contribute to the open source projects that matter most to your company.

VIEW GUIDE

THE LINUX FOUNDATION

Enterprise Open Source: A Practical Introduction

By The Linux Foundation

www.linuxfoundation.org

LF ENERGY

Recommended Practices for Improving the Impact of Enterprise Open Source Development and Participation

Ibrahim Haddad, Ph.D.

VP Strategic Programs, Linux Foundation

Executive Director, LF AI Foundation