The 2021 State of Open Source in Financial Services

Fintech Open Source Foundation
Methodology & Segmentation
About the Survey Sample

Sample
- Sample size: N=331 overall
- Operational sample size: N=208 (see screening criteria below)
- Survey fielded: June–July 2021
- Scope: Worldwide
- Who Surveyed: Financial services enterprises and suppliers to it

Target Respondents
- A broad cross-section of financial services roles in IT and LoB
- Director, VP, or C-Level roles

Respondent Screening Criteria
Must be employed by the financial services industry or a supplier to it (q1, N=208)

MoE is +/- 5.2% with 90% confidence and +/- 6.2% with 95% confidence (N=250)
Demographics
Demographic Summary of Financial Services Respondents

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 208

Role:
- 67% IT & Engineering
- 9% Prod/Pgm Management
- 6% Business Operations
- 5% Mkt/Cust Suc/Sales
- 3% Compliance
- 10% Other

Title:
- 22% Architect
- 15% Engineer
- 14% Exec Dir/VP
- 11% Developer
- 8% Analyst
- 8% Director
- 22% Other

Organization Size:
- 14% 1–100 Employees
- 26% 100–5K Employees
- 15% 5K–10K Employees
- 15% 10K–30K Employees
- 37% 30K+ Employees
- 1% Don’t Know

Region:
- 30% North America
- 30% Europe
- 29% Asia Pacific
- 6% Middle East/Africa
- 5% Latin America

Years within the F/S Industry:
- 19% 0-2 years
- 21% 3-5 years
- 16% 6-10 years
- 14% 11-15 years
- 15% 16-20 years
- 15% 20+ years
Key Findings
Are you employed by the financial services industry or a supplier to it?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 208

100% Yes
0% No
What is your level of familiarity with your organization’s approach to open source?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 206

- 2% Not Familiar at All
- 17% Some Familiarity
- 29% Familiar
- 30% Very Familiar
- 22% Extremely Familiar
Please estimate how many total employees your organization has worldwide.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 207

- 14% 1 to 99
- 26% 100 to 4,999
- 7% 5,000 to 9,999
- 6% 10,000 to 14,999
- 9% 15,000 to 29,999
- 36% 30,000 or more
- 1% Don’t know / not sure
Which of the following best or most closely describes your title within your organization?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 207

- 22% Architect
- 15% Technician/Engineer/Tester
- 14% Executive Director/VP
- 11% Programmer/Developer
- 8% Analyst
- 8% Director
- 6% Associate Director
- 5% Managing Director/SVP
- 3% C-Level
- 8% Other
Which of the following best or most closely describes your primary role(s) within your organization?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 207

- 20% IT Development
- 15% Engineering
- 12% IT Consultant
- 9% IT Management
- 9% IT Operations
- 7% Product Management
- 4% Business Operations
- 3% Business Development/Sales
- 3% Audit/Risk/Compliance
- 2% IT Other
- 2% Program Management
- 1% Marketing
- 1% Customer Success
- 1% Corporate Finance/M&A
- 0.5% Portfolio/Asset Management
- 0.5% Branch Management
- 2% None of the above
- 6% Other
What geographic region do you live in?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 207

- 30% North America (Canada/US)
- 25% Western Europe
- 13% India
- 11% Asia
- 5% Latin America (e.g. Mexico, Brazil, Argentina, etc.)
- 5% Eastern Europe
- 4% Africa
- 2% China
- 2% Middle East (e.g. Turkey, Egypt, Israel, etc.)
- 2% Australia/Oceania
- 1% Japan
What is your gender (acknowledging that gender can be fluid)?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 204

- 84% Male
- 7% Female
- 8% Prefer not to answer
- 0% Nonbinary
Which of the following best describes you? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 206, Valid Cases = 206, Total Mentions = 216

38% Asian
38% Caucasian / White
11% Prefer not to answer
9% Hispanic / Latinx
6% Black
3% Self-Identify
0.5% Indigenous Peoples
How many years have you been working in the financial services sector or been a supplier to it?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 207

- 19% 0 to 2
- 21% 3 to 5
- 16% 6 to 10
- 14% 11 to 15
- 14% 16 to 20
- 14% 16 to 20
- 9% 21 to 25
- 2% 26 to 30
- 4% More than 30 years
Do you have an open source policy?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 168

- 67% Yes
- 21% No
- 11% Don't know
Do you have an Open Source Program Office (OSPO) or formal review board?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 168

- 35% Yes
- 43% No
- 22% Don’t know
Are your developers required to get policy training?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 168

- 45% Yes
- 36% No
- 19% Don’t know
When do you scan your code (SCA/binary) specifically for open source licensing, IP, compliance, and security issues using tools like Black Duck, Nexus, Whitesource, FOSSA, etc.?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 168

- 24% Pre-production
- 11% Pre-ingestion
- 4% Other
- 1% Post-production
- 24% All of the above
- 37% Don't know
Does your policy restrict what types of open source licenses you can use?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 168

- 46% Yes
- 29% No
- 24% Don't know
Does your policy mandate a flow of steps (process) to be checked before releasing code outside your organization? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 166, Valid Cases = 166, Total Mentions = 286

- 72% Reviews (security, quality, compliance, privacy)
- 52% Legal approvals
- 25% Communications (PR, analyst relations, etc.)
- 24% Don’t know
How do you provide support for the open source components your organization uses? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 162, Valid Cases = 162, Total Mentions = 295

- 58% We depend upon the community for support
- 50% We have developers providing support
- 46% We only use commercially supported open source
- 28% We use a third-party consulting firm for support
Is there a single leader responsible and accountable for any of the following? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 111, Valid Cases = 111, Total Mentions = 283

- **52%** Owning and overseeing the execution of open source strategy
- **50%** Fostering an open source culture within the organization
- **46%** Communicating open source strategy within and outside the company
- **41%** Developing and delivering open source training, resources, and documentation
- **39%** Engaging with developer communities, so the company contributes back to other projects effectively
- **27%** Ensuring high-quality and frequent releases of code to open source communities
What seniority is your open source leadership?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 145

- 18% Senior Enterprise Architect/Chief Architect
- 13% Don’t know
- 12% Executive Director / VP
- 12% Managing Director / SVP
- 12% No identified leader
- 9% Director
- 8% C-Level
- 7% Manager/Team Lead
- 6% Multiple
- 1% Other
What open source behaviors are championed in your organization to establish trust and transparency to drive increased open source / inner source collaboration? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 139, Valid Cases = 139, Total Mentions = 283

- 65% Collaboration
- 51% Individual contribution
- 47% Peer review
- 18% Meritocracy
- 15% None
- 6% Share the splats (failures) of the week/month
- 1% Other
Do you have a policy on consumption?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 141

- 38% Yes, it’s permitted under strict guidelines
- 21% Yes, it’s encouraged
- 17% Don’t know / not sure
- 13% Yes, it’s restricted
- 11% No
Are you an open source first organization?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 141

- 25% Yes
- 56% No
- 19% Don't know
If your organization has an open source first strategy, does it do any of the following? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 85, Valid Cases = 85, Total Mentions = 145

- **72%** Commit to evaluating open sources considering other alternatives
- **56%** Use commercial software where no open source equivalent exists
- **24%** Prioritize scenarios that require higher upfront investment
- **19%** Encourage your vendors to go open source
What are your most common challenges when using open source? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 132, Valid Cases = 132, Total Mentions = 435

- 72% Making good decisions about which components and versions to use
- 52% Making good decisions about when to upgrade components and frameworks
- 34% Unclear which open source components are safe/approved at my organization
- 34% Understanding which licenses can be used together vs. which are in conflict
- 30% Finding unbiased information that objectively compares open source and proprietary solutions
- 25% Identifying and resolving security vulnerabilities
- 24% Resolving licensing issues or complying with the organization’s license policy
- 23% Requesting to use new open source components is a lengthy or confusing process
How confident are you that the open source components you use are maintained and up-to-date?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 139

- 17% Extremely confident
- 58% Somewhat confident
- 19% Not very confident
- 6% Not at all confident
Where are you seeing the most use of open source software in your organization? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 137, Valid Cases = 137, Total Mentions = 338

- 81% DevOps tooling
- 59% Infrastructure
- 37% Line of Business applications
- 31% Security
- 22% Mobile applications
- 17% Accessibility
Please select the statement closest to your current employer’s policy on using open source applications or infrastructure.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 139

- 42% Use of open source libraries or code is acceptable if it is the best tool
- 22% Use of open source libraries or code is encouraged
- 15% No clear policy
- 11% Not sure
- 10% Use of open source libraries or code is rarely, if ever, permitted
Please select the statement closest to your current employer’s policy on incorporating open source libraries or code into your code base.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 139

- **42%** Use of open source libraries or code is acceptable if it is the best tool
- **25%** Use of open source libraries or code is encouraged
- **13%** Not sure
- **13%** No clear policy
- **6%** Use of open source libraries or code is rarely, if ever, permitted
What are the macroeconomic motivations for using open source software? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 132, Valid Cases = 132, Total Mentions = 452

- 63% Lower total cost of ownership
- 48% Shift developers from low-value to high-value work
- 46% Open source is the future
- 43% Reduce duplication of effort
- 42% Attract talent
- 40% Code quality
- 23% Force multiplier
- 20% Upstream improvements
- 13% Patch on your own schedule
- 4% Don't know / not sure
What are the microeconomic motivations for using open source software? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 131, Valid Cases = 131, Total Mentions = 228

<table>
<thead>
<tr>
<th>Motivation</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency</td>
<td>69%</td>
</tr>
<tr>
<td>Shared innovation</td>
<td>65%</td>
</tr>
<tr>
<td>Thought leadership</td>
<td>33%</td>
</tr>
<tr>
<td>Don’t know / not sure</td>
<td>8%</td>
</tr>
</tbody>
</table>
What are the moral motivations for using open source software?
Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 128, Valid Cases = 128, Total Mentions = 196

- **48%** Free as in speech, not as in beer
- **45%** Obligation to give back
- **43%** Teaching the next generation
- **17%** Don't know / not sure
What are the transparency motivations for using open source software? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 128, Valid Cases = 128, Total Mentions = 214

60% Build trust
48% Developer branding
41% Increase security
18% Don’t know / not sure
What are the participatory motivations for using open source software? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 129, Valid Cases = 129, Total Mentions = 199

- 57% Collaborative secondary innovation
- 42% Customer feedback and involvement
- 33% Direct democracy / meritocracy
- 23% Don’t know / not sure
What is your personal motivation for using open source software? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 120, Valid Cases = 120, Total Mentions = 217

- 63% It's a project I have personal interest in
- 54% Learn to code
- 53% It's fun
- 12% Other
What are your current employer’s principles and policies on open source contributions?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 123

- 28% Encouraged
- 20% Not allowed when private or work-related
- 17% Not allowed when work-related
- 15% Don’t know / not sure
- 13% Allowed anytime
- 8% My full-time job entails active participation
At work, you or your colleagues contribute to work-related software projects that are:

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 123

- 19% Open to your team only
- 24% Only to your business unit (inner source)
- 35% Open to your entire company (inner source)
- 23% Open to the world
What do you feel are the main reasons your company participates in open source from the culture point of view: Recruitment?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 111

- 21% Strongly Agree
- 50% Agree
- 23% Neutral
- 4% Disagree
- 3% Strongly Disagree
What do you feel are the main reasons your company participates in open source from the culture point of view: Talent Retention/Job Satisfaction?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 115

- 26% Strongly Agree
- 48% Agree
- 19% Neutral
- 3% Disagree
- 3% Strongly Disagree
What do you feel are the main reasons your company participates in open source from the culture point of view: Brand?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 115

- 17% Strongly Agree
- 50% Agree
- 23% Neutral
- 7% Disagree
- 3% Strongly Disagree
What do you feel are the main reasons your company participates in open source from the culture point of view: Innovation?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 117

- 43% Strongly Agree
- 41% Agree
- 9% Neutral
- 5% Disagree
- 3% Strongly Disagree
What do you feel are the main reasons your company participates in open source from the culture point of view: Time to Market / Increased Velocity?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 116

- 30% Strongly Agree
- 53% Agree
- 13% Neutral
- 3% Disagree
- 2% Strongly Disagree
What do you feel are the main reasons your company participates in open source from the culture point of view: Total Cost of Ownership?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 119

- 29% Strongly Agree
- 53% Agree
- 8% Neutral
- 7% Disagree
- 3% Strongly Disagree
What do you feel are the main reasons your company participates in open source from the culture point of view: Quality?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 118

- 19% Strongly Agree
- 47% Agree
- 23% Neutral
- 8% Disagree
- 3% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Individual contributors in technology?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 116

- 32% Strongly Agree
- 48% Agree
- 14% Neutral
- 4% Disagree
- 2% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Managers in technology functions?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 114

- 23% Strongly Agree
- 52% Agree
- 17% Neutral
- 6% Disagree
- 3% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Executives in technology functions?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 117

- 35% Strongly Agree
- 42% Agree
- 15% Neutral
- 5% Disagree
- 3% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Individuals in business functions?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 109

- 13% Strongly Agree
- 35% Agree
- 30% Neutral
- 15% Disagree
- 7% Strongly Disagree

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Who do you think has significant influence over the direction of open source engagement within your organization: Managers in business functions?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 113

- 9% Strongly Agree
- 32% Agree
- 34% Neutral
- 18% Disagree
- 8% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Executives in business functions?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 114

- 16% Strongly Agree
- 29% Agree
- 32% Neutral
- 17% Disagree
- 7% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Industry analyst firms?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 112

- 13% Strongly Agree
- 24% Agree
- 39% Neutral
- 13% Disagree
- 11% Strongly Disagree
Who do you think has significant influence over the direction of open source engagement within your organization: Management consulting firms?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 112

- 11% Strongly Agree
- 30% Agree
- 35% Neutral
- 12% Disagree
- 13% Strongly Disagree
In what other ways does your employer support open source culture? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 112, Valid Cases = 112, Total Mentions = 286

- 68% Allowing staff to attend conferences or other events
- 46% Documentation
- 39% Project Management support
- 38% Financial support
- 29% (Co-)Organizing conference or other events
- 24% Legal support
- 10% Venture capital investing into startups that have an open source business model
Please select the statement closest to your current employer’s policy on contributing upstream (e.g., sending changes you make to an open source project, external to your organization, back to the original maintainers for inclusion into an upcoming release)

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 120

- 24% Contribute upstream under some conditions
- 22% No clear policy
- 18% Not sure
- 17% Contribute upstream if it is required by the open source license
- 9% No, do not contribute upstream
- 8% Always contribute upstream
- 3% Not applicable
Do you spend any time contributing to projects managed by other teams within your organization?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 119

- 40% No
- 33% Yes, a few hours a month
- 16% Yes, a few hours a week
- 4% Yes, a few days a week
- 7% Yes, as a full-time assignment
Do you spend any time at work contributing to externally distributed open source projects that your employer founded, adopted, or sponsors?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 121

- 54% No
- 22% Yes, a few hours a month
- 13% Yes, a few hours a week
- 8% Yes, a few days a week
- 2% Yes, as a full-time assignment
Do you spend any time at work contributing to third-party open source projects (e.g. those in which your employer has no commercial relationship)?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 119

60% No
24% Yes, a few hours a month
10% Yes, a few hours a week
6% Yes, a few days a week
1% Yes, as a full-time assignment
Do you spend any personal time contributing to open source projects?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 121

- 40% Yes, a few hours a month
- 35% No
- 20% Yes, a few hours a week
- 5% Yes, a few days a week
- 1% Yes, as a full-time assignment
Why do you think your employer should invest in open source software (from the wider community) and encourage contributions: To improve the overall quality of the open source software that they are currently using?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 116

46% Strongly Agree
42% Agree
12% Neutral
0% Disagree
0% Strongly Disagree
Why do you think your employer should invest in open source software (from the wider community) and encourage contributions: They have a moral obligation?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 115

- 27% Strongly Agree
- 37% Agree
- 30% Neutral
- 3% Disagree
- 2% Strongly Disagree
Why do you think your employer should invest in open source software (from the wider community) and encourage contributions: For employee career development and improved culture?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 115

- 39% Strongly Agree
- 50% Agree
- 7% Neutral
- 3% Disagree
- 0% Strongly Disagree
Why do you think your employer should invest in open source software (from the wider community) and encourage contributions: To become a more attractive employer?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 114

- 49% Strongly Agree
- 37% Agree
- 11% Neutral
- 4% Disagree
- 0% Strongly Disagree
Why do you think your employer should invest in open source software (from the wider community) and encourage contributions: Improved security?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 115

- 29% Strongly Agree
- 44% Agree
- 23% Neutral
- 3% Disagree
- 1% Strongly Disagree
What do you think limits your employer’s open source investment and/or discourages contribution: There is a lack of clear return on investment?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 114

- 16% Strongly Agree
- 45% Agree
- 24% Neutral
- 11% Disagree
- 5% Strongly Disagree
What do you think limits your employer’s open source investment and/or discourages contribution: A fear of leaking IP?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 114

- 31% Strongly Agree
- 39% Agree
- 18% Neutral
- 10% Disagree
- 4% Strongly Disagree
What do you think limits your employer’s open source investment and/or discourages contribution: Legal or licensing concerns?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 110

- 25% Strongly Agree
- 35% Agree
- 26% Neutral
- 11% Disagree
- 3% Strongly Disagree
What do you think limits your employer’s open source investment and/or discourages contribution: A lack of understanding of the open source value proposition?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 115

- 24% Strongly Agree
- 30% Agree
- 26% Neutral
- 14% Disagree
- 5% Strongly Disagree
What do you think limits your employer’s open source investment and/or discourages contribution: Technology constraints and challenges?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 114

- 13% Strongly Agree
- 46% Agree
- 21% Neutral
- 16% Disagree
- 4% Strongly Disagree
What do you think limits your employer’s open source investment and/or discourages contribution: Lack of published industry analyst research and industry case studies?

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Sample Size = 113

- 13% Strongly Agree
- 37% Agree
- 29% Neutral
- 12% Disagree
- 8% Strongly Disagree
Which of the following do you think can/does increase your productivity at work? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 115, Valid Cases = 115, Total Mentions = 373

- 69% Consumption of open source software
- 61% Using open source standards
- 59% Internal re-use of code developed within your organization
- 55% Collaboration with industry peers
- 40% Contribution to third party open source software/standards
- 40% Contribution, and open sourcing, of internally developed products
- 1% None

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Where do you think your employer should provide greater support or make additional investment to improve the use of open source in your organization? Check all that apply.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 111, Valid Cases = 111, Total Mentions = 320

- 54% Training on open source software/standards policies, tooling, and best practices
- 50% Consumption policies and tooling for open source software/standards
- 49% Developing incentives to encourage open source software/standards contribution by its employees
- 46% Policies and processes to promote collaboration and re-use of code within your organization (inner source)
- 43% Consumption policies and tooling enabling contribution to third-party open source software/standards
- 42% Consumption policies and tooling enabling contribution to internally developed software projects
- 5% None
In which of the following areas do you think open source engagement could bring the most benefit to the financial services industry (including through improvement of existing processes/technology or delivering innovative new approaches)? Select three.

2021 State of Open Source in Financial Services Survey, May, June, July, 2021
Multiple Response Variable Sample Size = 115, Valid Cases = 115, Total Mentions = 568

- DevOps: 64%
- Cloud: 57%
- AI/ML: 52%
- Regulatory compliance: 40%
- Common workflows (specific to financial services): 39%
- Standards: 37%
- Open data: 37%
- Distributed ledger technology (DLT): 33%
- Digital Identity: 32%
- Interoperability: 32%
- Risk management: 30%
- User experience: 22%
- Robotic process automation (RPA): 13%
- Don't know / not sure: 3%
- Other: 1%