

















# **Key takeaways**

Follow along:

https://dora.dev/research/2023/



# **Key insights from 2023**







## Healthy culture

All the tech, process, and capabilities wouldn't get you far with unhealthy culture



## User centricity

Fast, stable, and reliable is great. But if you don't know who you build for the org, the team, and the employees will struggle



## Quality documentation

Quality documentation not only leads to favorable outcomes and the establishment of technical capabilities, but provides the grounds for technical capabilities to have an impact

### Flexible infrastructure

Creating a flexible infrastructures how cloud computing differentiates itself

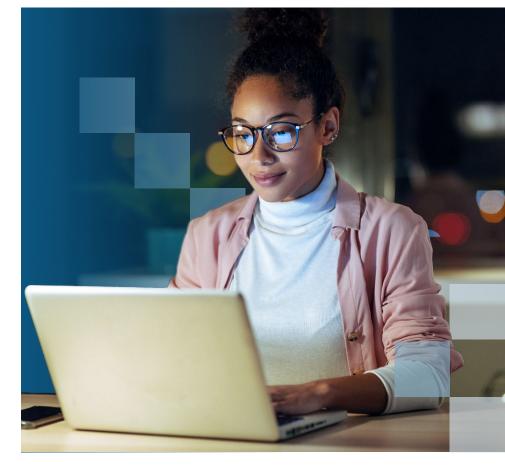
Those who identified as women or self-described their gender and people who identify as underrepresented have higher levels of burnout due to more toil and less-recognized work

Underrepresented groups





# **BONUS: 6th finding**



# Teams with faster code reviews have **50% higher** software delivery performance



join the <u>dora.community</u> discussion on code reviews **this week**:

Nov 8th: **20:00 UTC** | 3pm ET | 12pm PT Nov 9th **10:00 UTC** | 21:00 ACT | 19:00 JST | 15:30 IST | 12:00 FFT



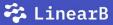
- Are peer code reviews embedded in your process?
- How long is the duration between code completion and review?
- What is the average batch size of your code reviews?
- How many **teams** are involved in your reviews?
- How many different geographical locations are involved in your reviews?
- Does your team improve code quality automation based on code review suggestions?

# **About LinearB's Benchmarks**

- 2,022 Dev Teams
- 3,694,690 Pull Requests
- 103,807 Active Contributors
- Time Frame: 08/01/22 08/01/23
- 14 Metrics Studied

<b>₩</b> ELITE	<b>Top 10%</b>
STRONG	11% - 30%
FAIR	31% - 60%
NEEDS FOCUS	Last 40%





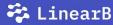
# Benchmarking DORA by org size

Startup: 0-200 employees

Scale-up: 200-1000 employees

Enterprise: 1000+ employees

Metric	Elite	Good	Fair	Needs Improvement
Cycle Time (hours)	< 19	19 - 66	66 - 218	> 218
Deployment Frequency (per service)	> 1/day	> 2/week	1 - 2/week	< 1/week
Change Failure Rate (%)	< 1%	1% - 8%	8% - 39%	>39%
MTTR (hours)	< 7	7 - 9	9 - 10	> 10



# **R&D Investment Benchmarks**

Investment Profile	Percentage
New Value	55%
Feature Enhancement	20%
Developer Experience	15%
KTLO	10%

#### **New Value**

This is defined as the actions performed to invest in new features that increase revenue and growth by new customer acquisition or expansion.

#### **Feature Enhancements**

This is defined as actions taken to enhance features or deliver a product that ensures customer satisfaction.

#### **Developer Experience**

This is defined as the actions performed to improve the productivity of development teams and their overall experience of work.

#### KTLO (Keeping the Lights On)

This is defined as the minimum tasks a company is required to perform in order to stay operational on a daily level while maintaining a stable level of service.

# **Key Data Insights: LinearB + DORA**



# **Insight #1**

# Pickup Time, Handoffs vs. Review Time

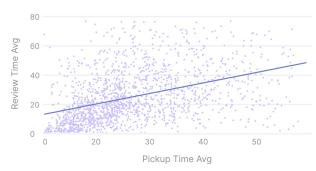


#### **Key Takeaway**

There is a positive correlation between longer PR pickup/handoff times and longer review times.

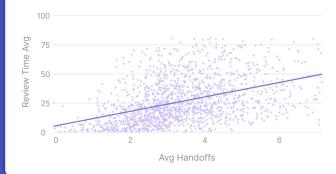
#### Pickup Time vs Review time

Correlation of 0.37



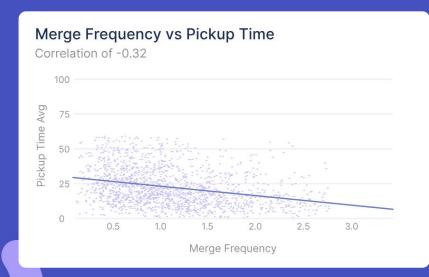
#### Handoffs vs Review time

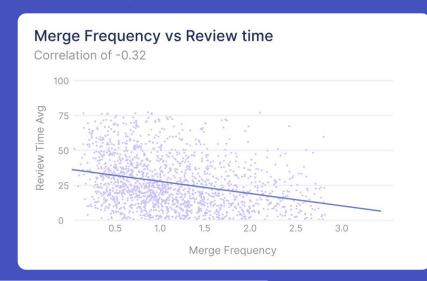
Correlation of 0.4



# Insight #2

# Merge Freq. vs. PR Review Cycle

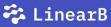






### **Key Takeaway**

Long PR review cycles are a key obstacle to achieving high merge frequency.



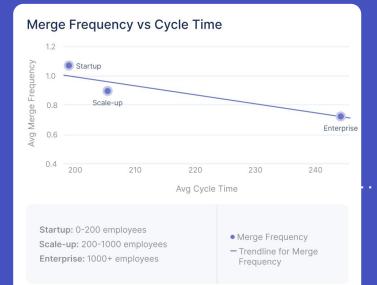
# **Insights #3 & #4**

# **Cycle Time by Org Size**

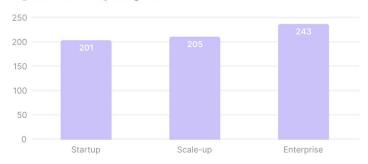
## 9

#### **Key Takeaway**

Enterprises have longer cycle times than startups and scale-ups.



#### **Cycle Time By Org Size**



Startup: 0-200 employees
Scale-up: 200-1000 employees
Enterprise: 1000+ employees



### **Key Takeaway**

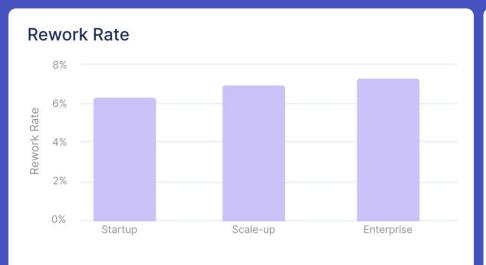
Teams with shorter cycle times are able to achieve higher merge frequency.



# Insight #5 Rework vs. Cross Team PRs



Enterprises have far less cross-team collaboration on PRs than startups and scale-ups.



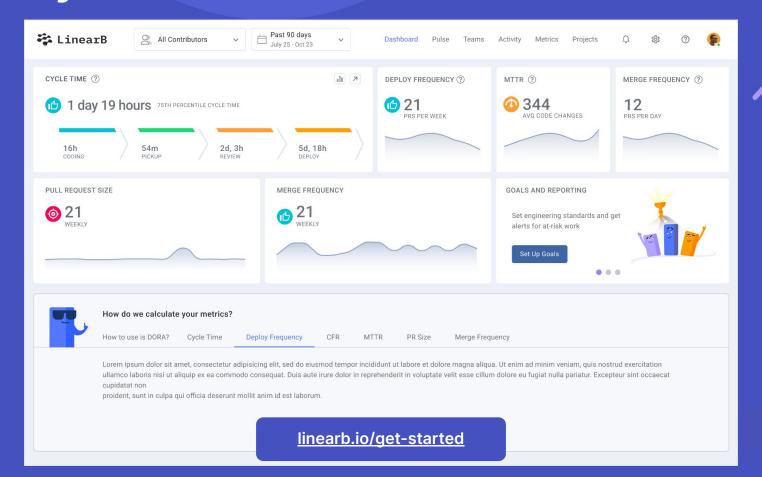




# What to do with these insights?



# Get your team's DORA Metrics - for free

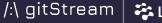


# **Drive Code Review Efficiency**

Standardize your PR review process with Programmable Workflows



<u>linearb.io/platform/gitstream</u>





# **Appendix**



# Insight #6

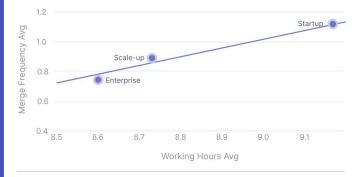
# Merge Freq. vs. Working Day



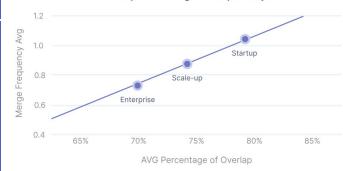
#### **Key Takeaway**

Startups work longer hours than scale-ups and enterprises, and have a higher Merge Frequency.

#### Merge Frequency vs Avg Working Day



#### Work Hours Overlap vs Merge Frequency in Teams



#### Benchmarks by number of employees

Startup: 0-200 employees Scale-up: 200-1000 employees Enterprise: 1000+ employees Merge FrequencyTrendline for Merge Frequency

# gitStream Improvement by the numbers

Repos that have gitStream see an average 61% decrease in **Cycle Time** 

Decrease in **Cycle Time** 

61% 1 56% 1

Decrease in **Pickup Time** 

38% ↓ 28% ↓

Decrease in **Review Time** 

Decrease in PR Size

## **New Metrics**

# Merge Frequency & Capacity Accuracy





> 2 /week



2 - 1.5



1.5 -1



•

< 1

# Capacity Accuracy per sprint



85% - 115%

**Potential Under Commit** 

116 - 130%

**Potential Over Commit** 

70 - 84%

**Under Commit** 

> 130%

