

Objectives

- What benefits did practitioners observe, and how do they rate their positive impact?
- What drawbacks did practitioner observe, and how do they rate their negative impact?
- How did practitioners compensate for drawbacks, and how effective have the used countermeasures been?

Key Data

- Structured Survey
- Conducted in Fall 2023
- Received 156 answers

Question Groups

- 1) About the Interviewee
- 2) Project Context
- 3) Architectural Decisions
- 4) Perceived Technical Benefits
- 5) Perceived Organisational Benefits
- 6) Perceived Technical Drawbacks
- 7) Perceived Organisational Drawbacks

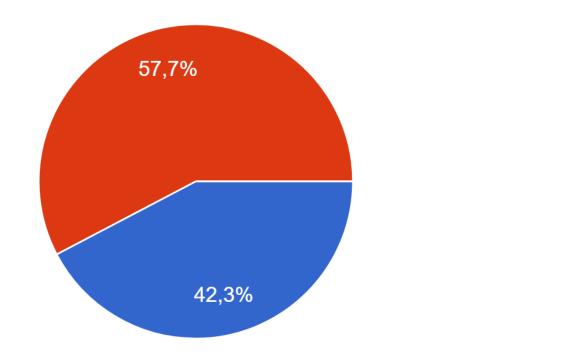
1) About the Interviewee





What was your role in the respective Micro Frontend project?

156 Antworten

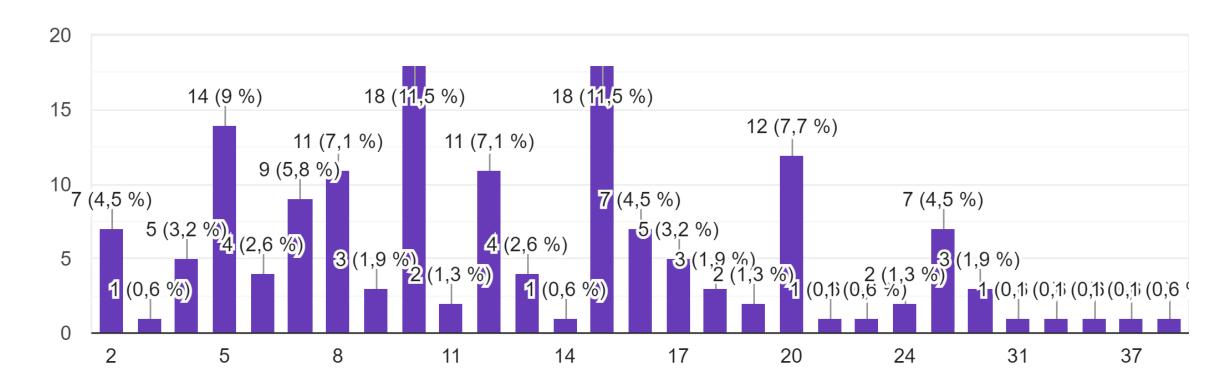


Software Developer

Software Architect

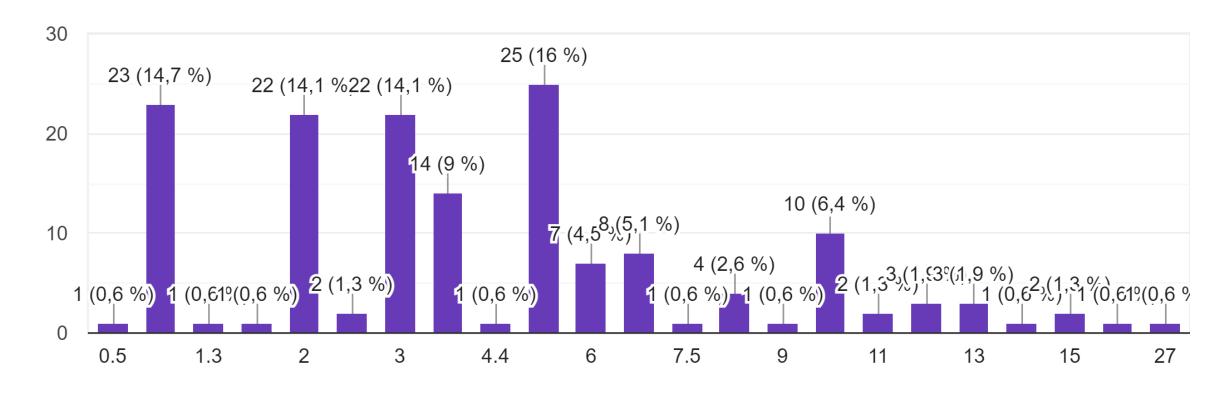
How many years have you been working as a developer and/ or architect in general?

156 Antworten



How many years have you been working in the company the project in question took place?

156 Antworten



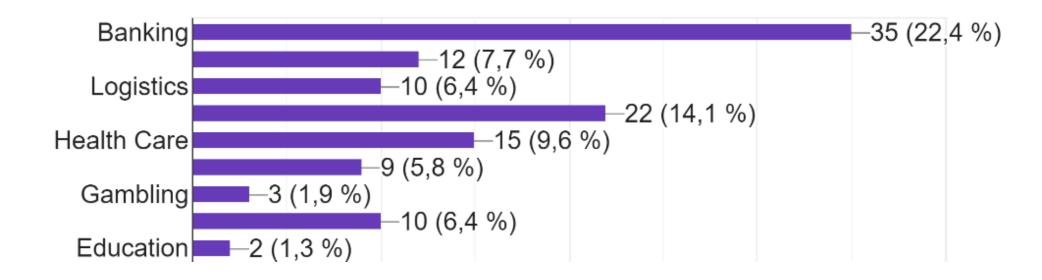
2) Project Context



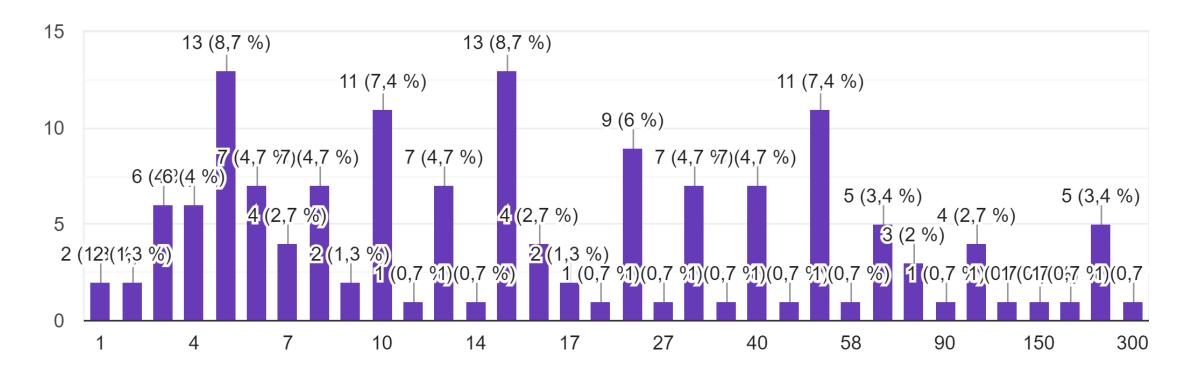


For which business area was the system developed?

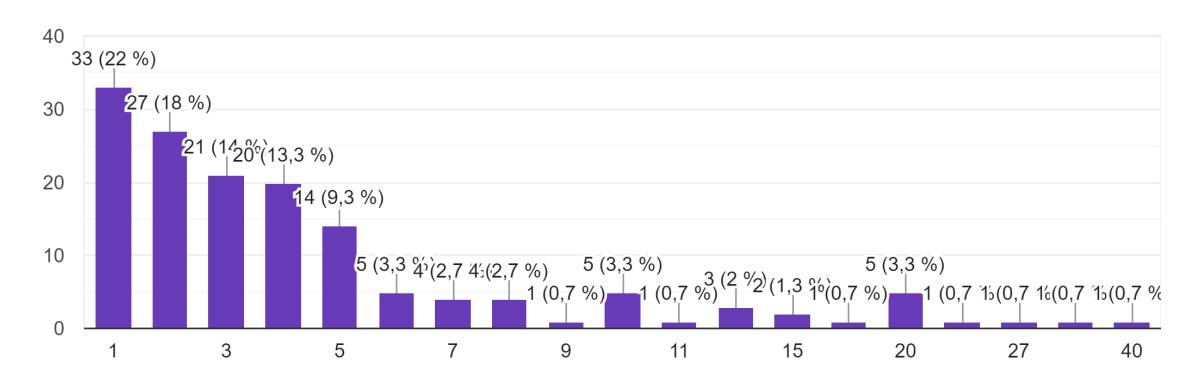
156 Antworten



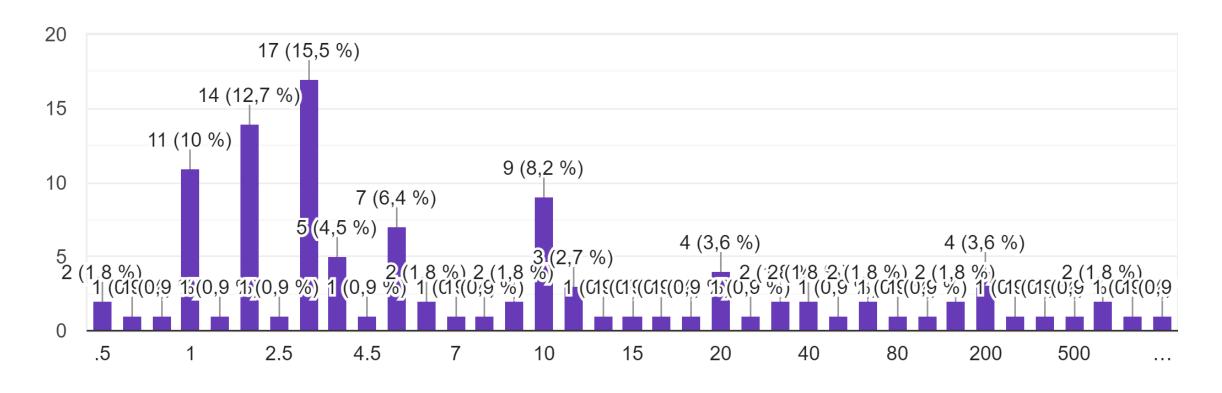
How many developers have been involved in implementing the overall system?



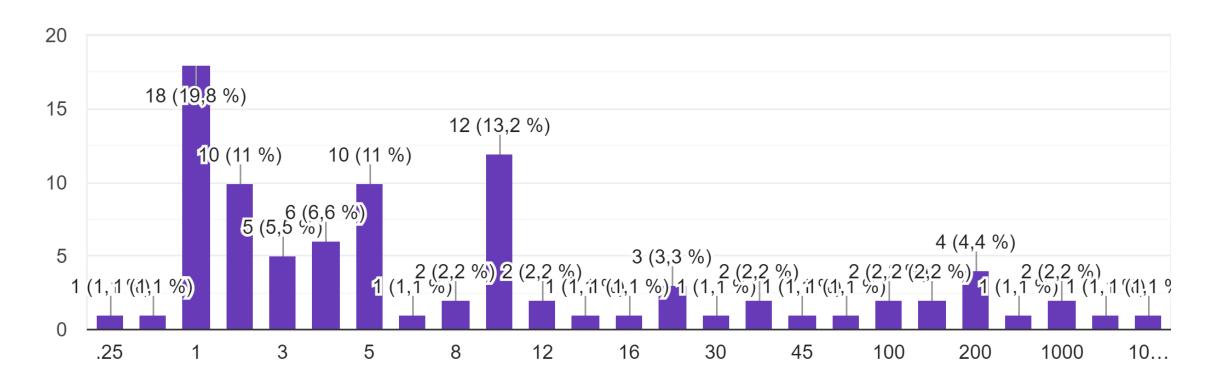
How many teams are these developers divided into?



How many person years have been invested?



How many additional person years will be invested?



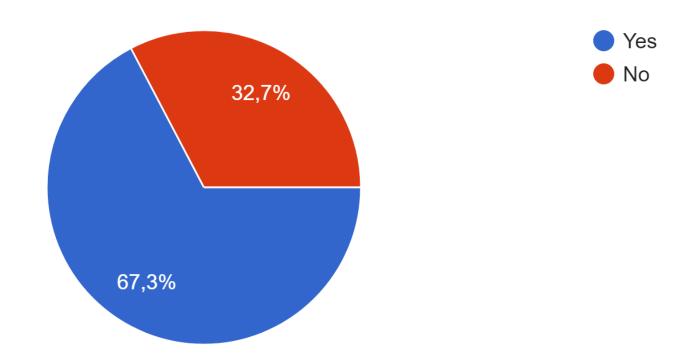
3) Architectural Decisions



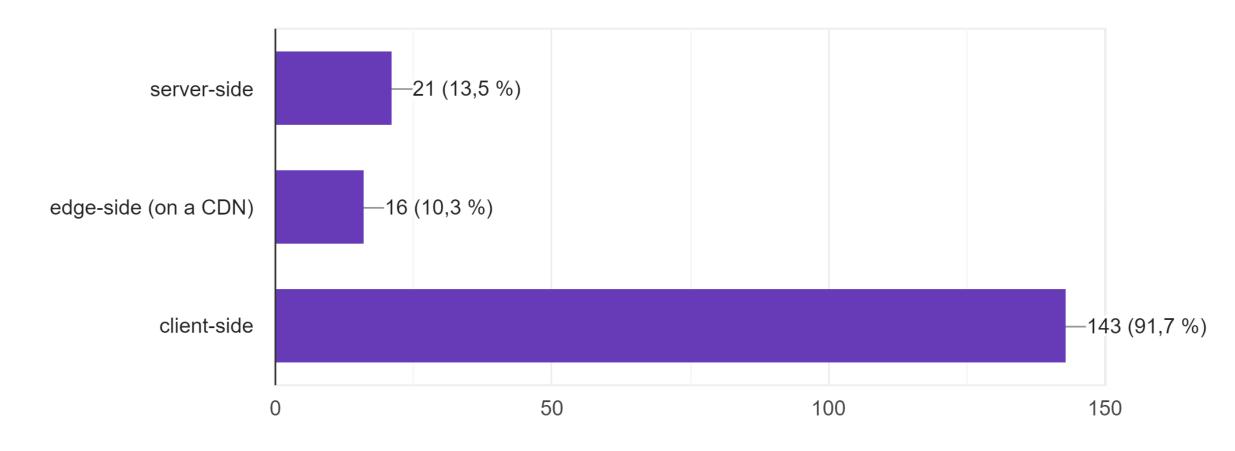


In your shell, do you display more than one Micro Frontend at the same time?

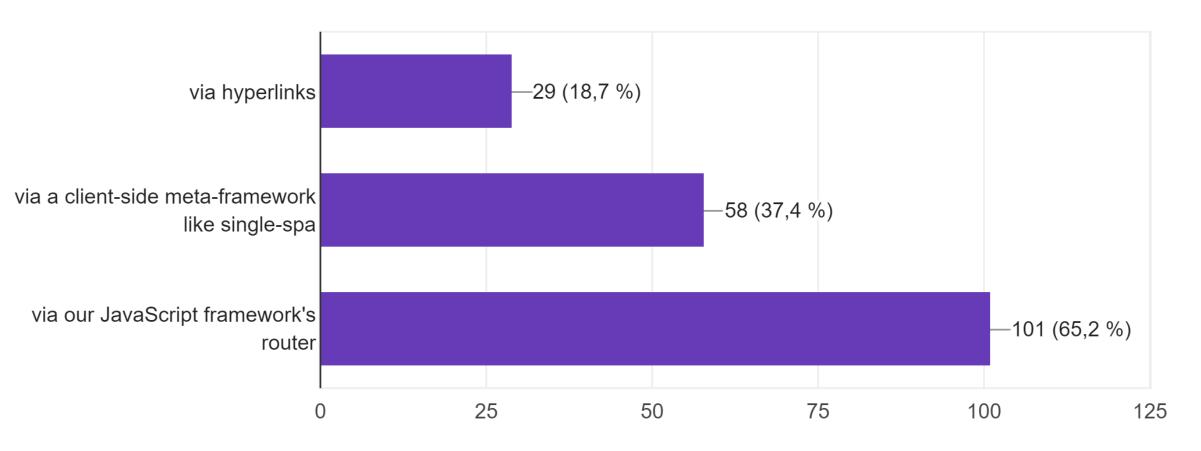
156 Antworten



Where are your individual Micro Frontends composed?

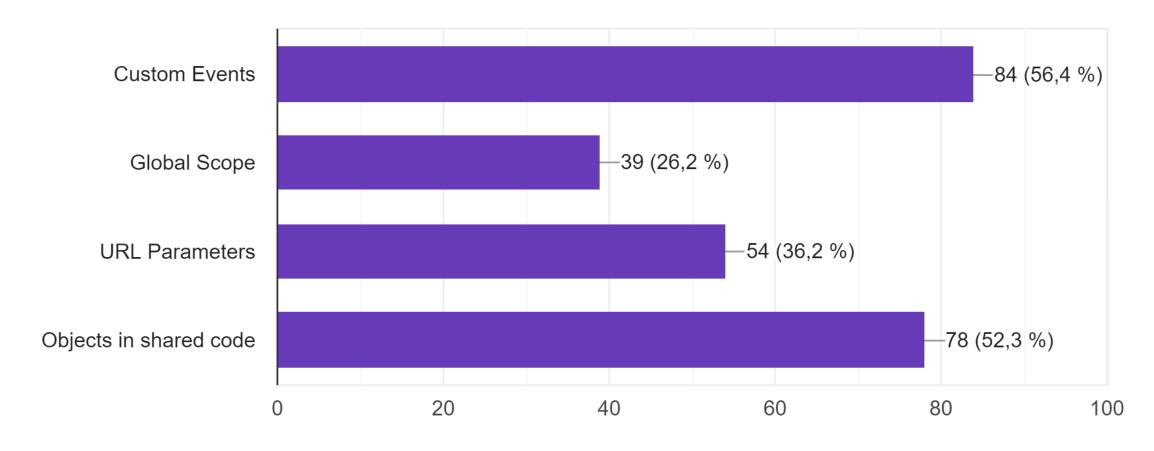


How does your solution decide when to display what Micro Frontend? 155 Antworten

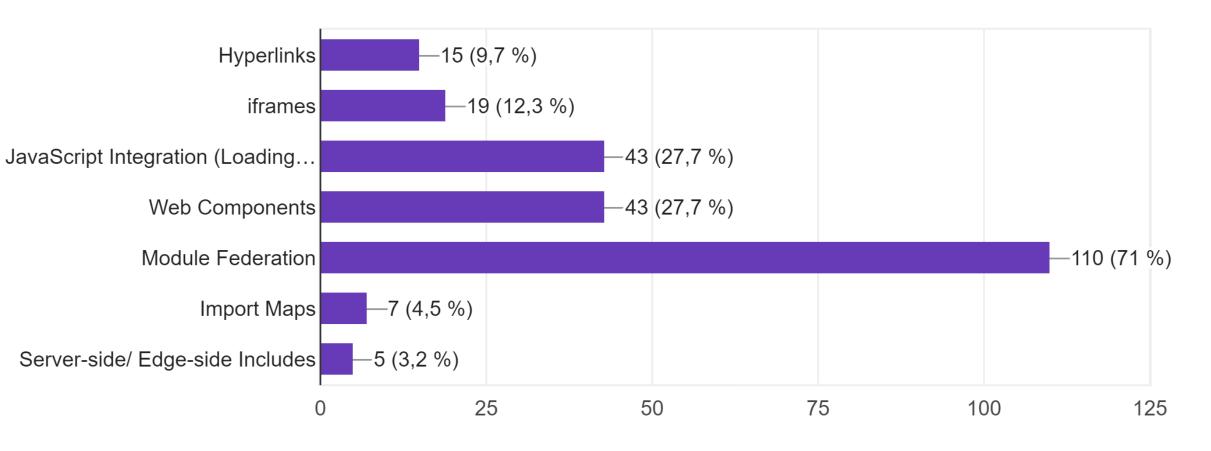


How do you implement communication between the individual Micro Frontends?

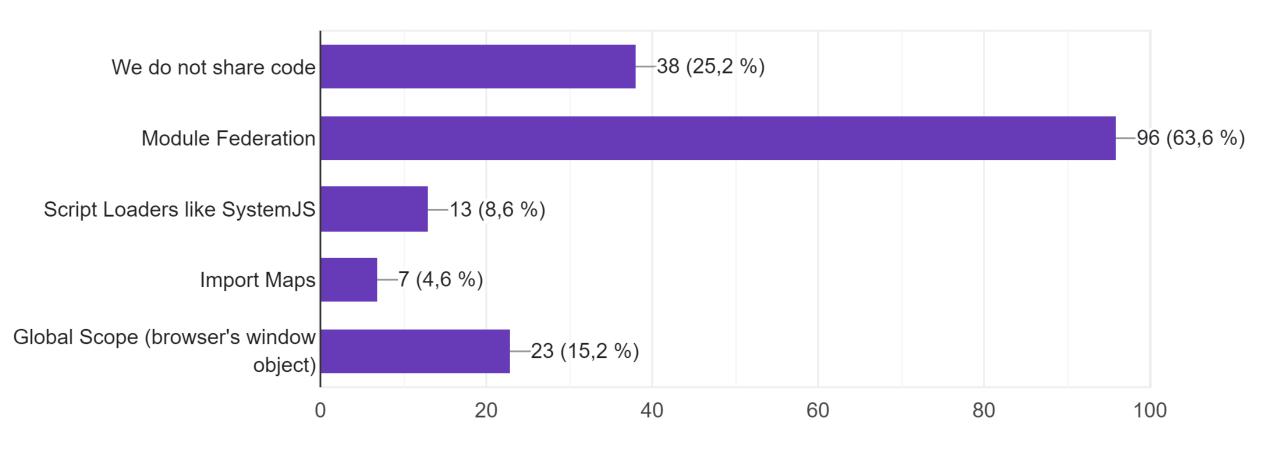
149 Antworten



How do you integrate individual Micro Frontends?

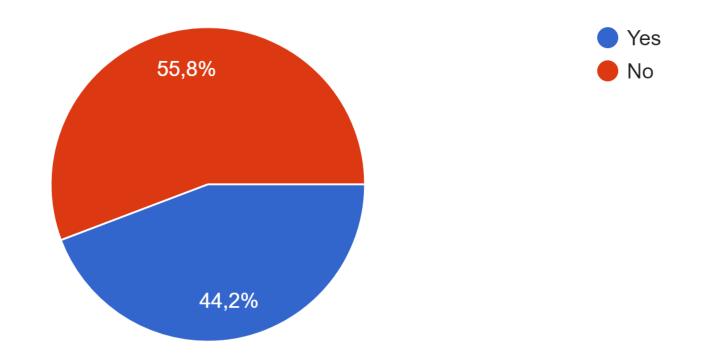


How do you share code between individual Micro Frontends? 151 Antworten



Is the source code of your Micro Frontends managed within one sole repository?

156 Antworten



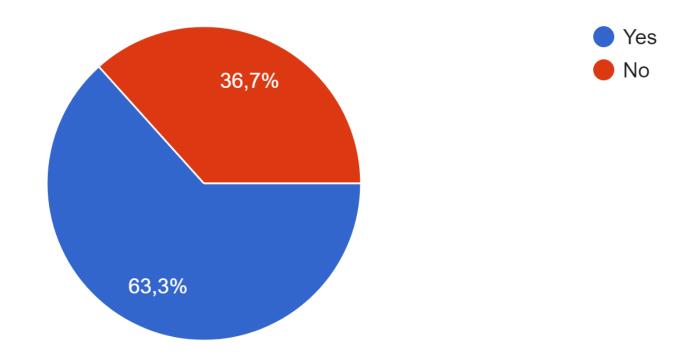
4) Perceived Technical Benefits



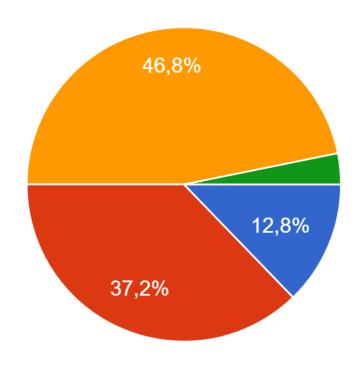


Did the Micro Frontend architecture improve the system's testability?

150 Antworten



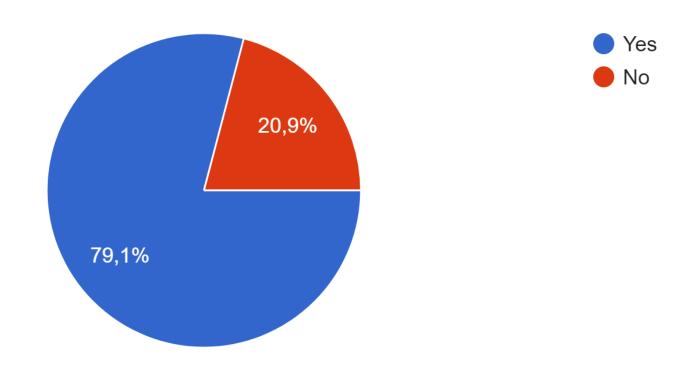
To what extent did the Micro Frontend architecture improve the system's testability 94 Antworten



- minor improvement
- moderate improvement
- major improvement
- extreme improvement

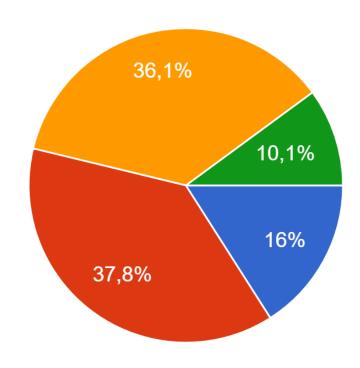
Did the Micro Frontend architecture improve the system's fault isolation?

153 Antworten



To what extent did the Micro Frontend architecture improve the system's fault isolation?

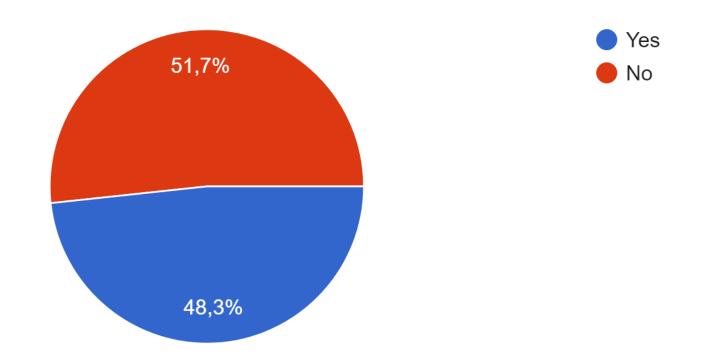
119 Antworten



- minor improvement
- moderate improvement
- major improvement
- extreme improvement

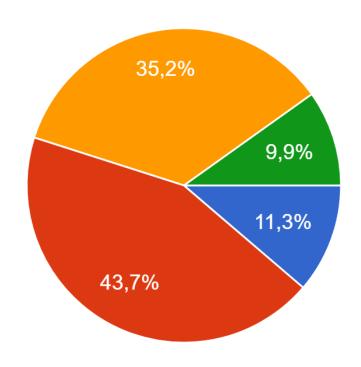
Did the Micro Frontend architecture improve the system's runtime performance?

147 Antworten



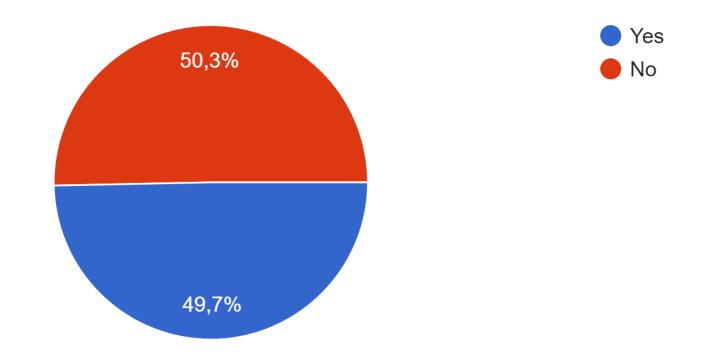
To what extent did the Micro Frontend architecture improve the system's runtime performance?

71 Antworten



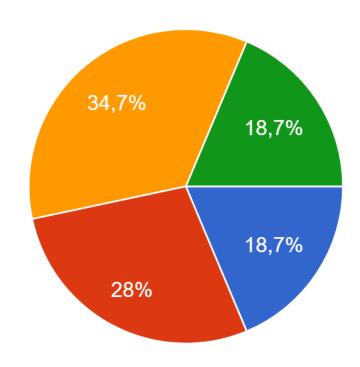
- minor improvement
- moderate improvement
- major improvement
- extreme improvement

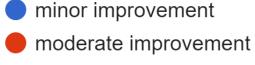
Did the Micro Frontend architecture improve your ability to use different technology stacks (in terms of frameworks or libraries) in different Micro Frontends?



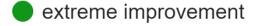
To what extent did the Micro Frontend architecture improve the capability to use different technology stacks (in terms of frameworks or libraries) in different Micro Frontends?

75 Antworten









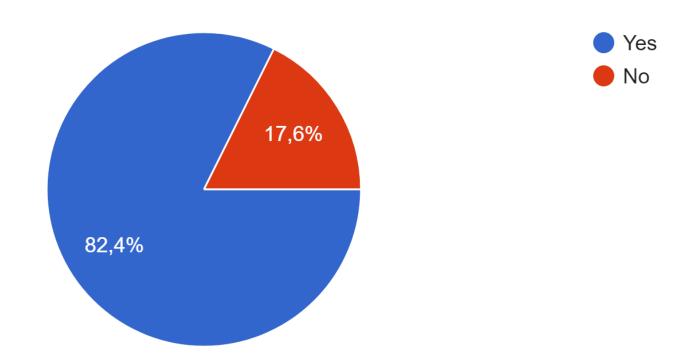
4) Perceived

Organisational Benefits



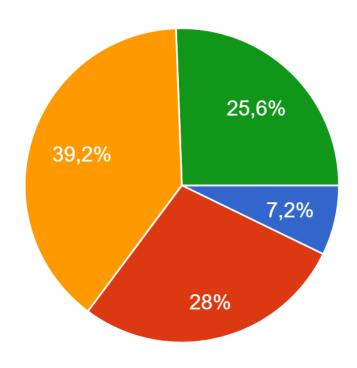
Did the Micro Frontend architecture improve the autonomy of the teams involved?

153 Antworten



To what extent did the Micro Frontend architecture improve the autonomy of the teams involved?

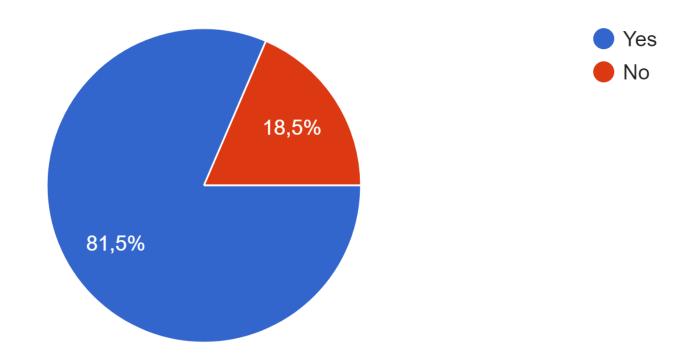
125 Antworten



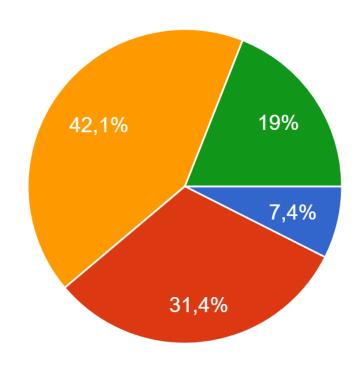
- minor improvement
- moderate improvement
- major improvement
- extreme improvement

Did the Micro Frontend architecture improve your ability to add additional teams to the project?

151 Antworten



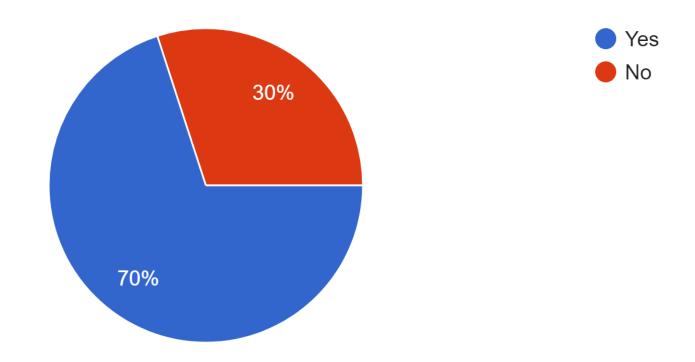
To what extent did the Micro Frontend architecture improve your ability to add additional teams to the project?



- minor improvement
- moderate improvement
- major improvement
- extreme improvement

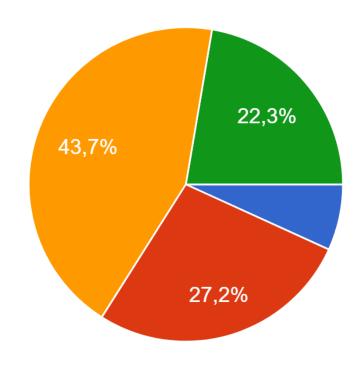
Did the Micro Frontend architecture improve your ability to ship new releases more often?

150 Antworten



How beneficial was the improved ability to ship new releases more often?

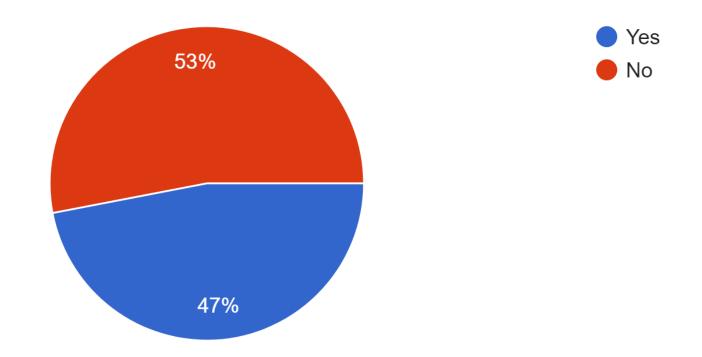
103 Antworten



- minor improvement
- moderate improvement
- major improvement
- extreme improvement

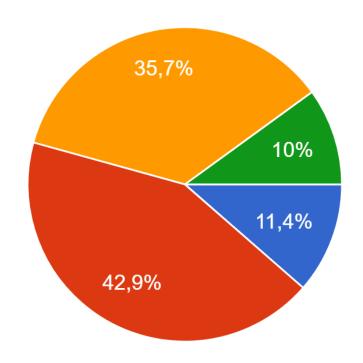
Did the Micro Frontend architecture improve the ability to onboard new team members?

149 Antworten



To what extent did the Micro Frontend architecture improve the ability to onboard new team members?

70 Antworten



- minor improvement
- moderate improvement
- major improvement
- extreme improvement

4) Perceived

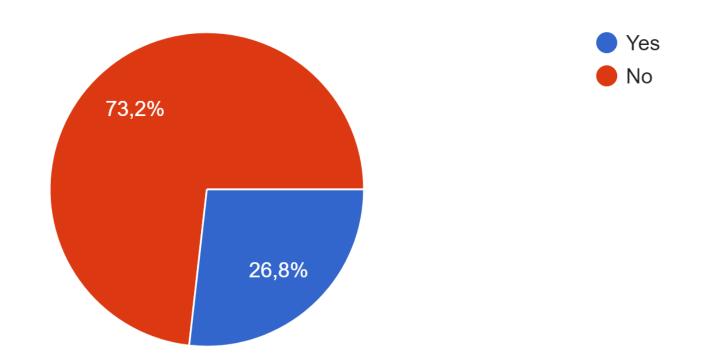
Technical Drawbacks





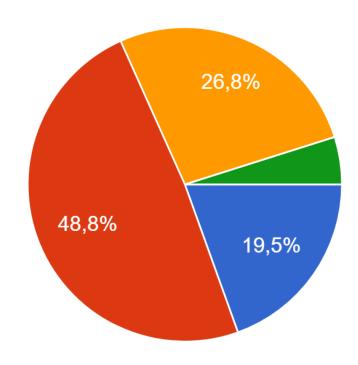
Did the Micro Frontend architecture have a negative impact on UI/UX?

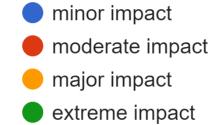
153 Antworten

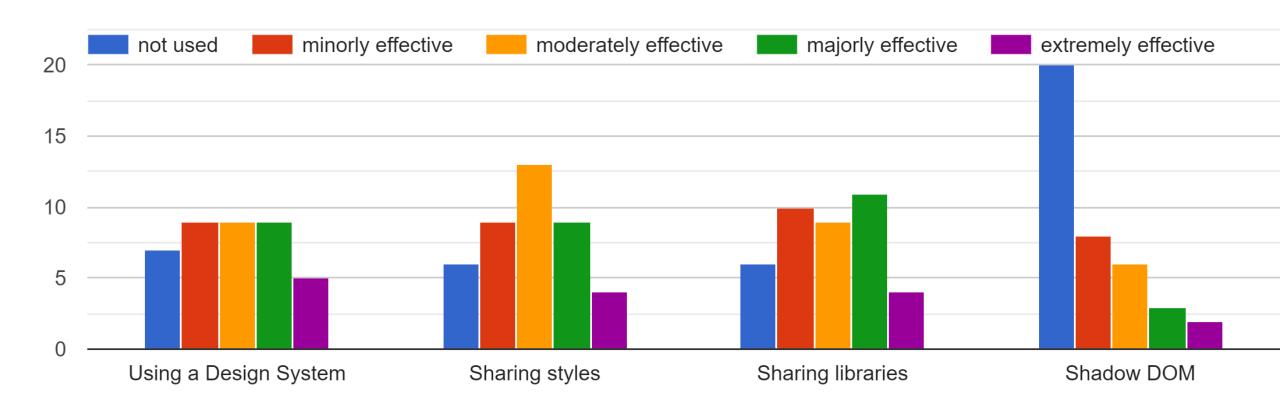


To what extent did the Micro Frontend architecture have a negative impact on UI/UX?

41 Antworten

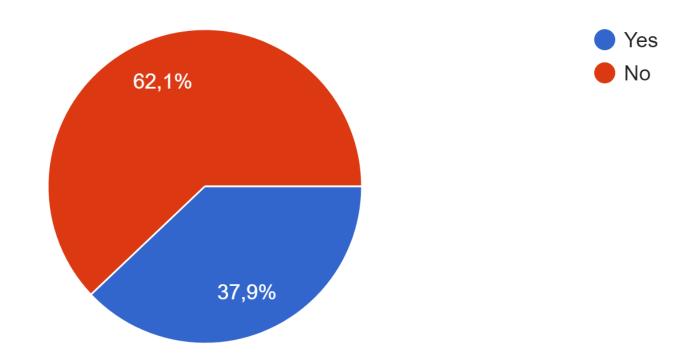






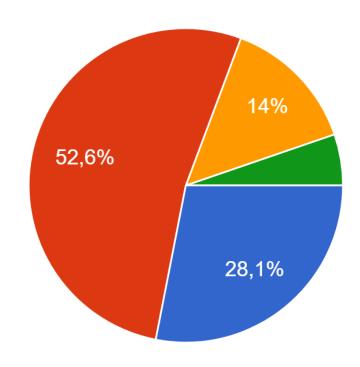
Did the Micro Frontend architecture have a negative impact on initial loading times?

153 Antworten



To what extent did the Micro Frontend architecture have a negative impact on initial loading times?

57 Antworten

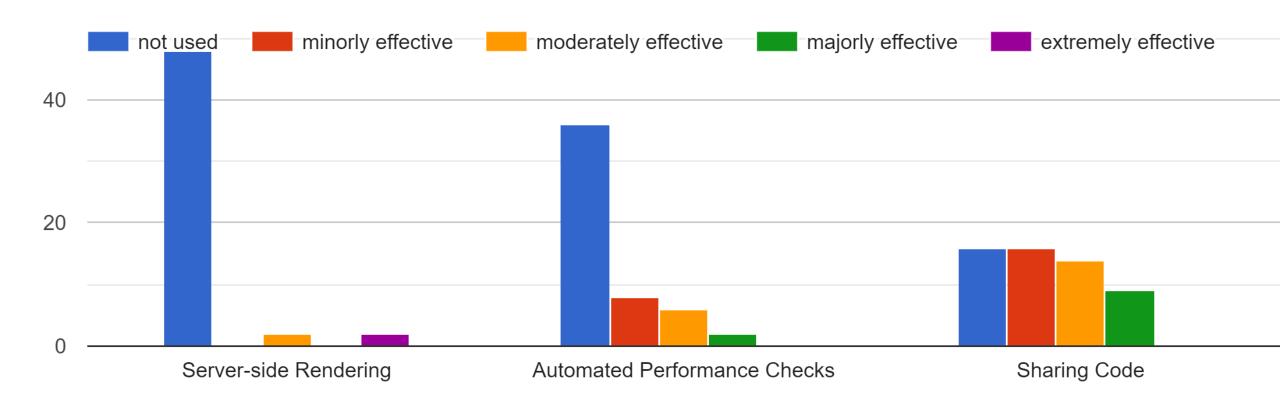






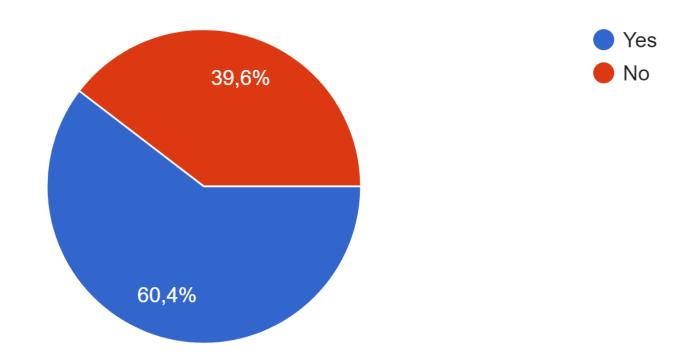






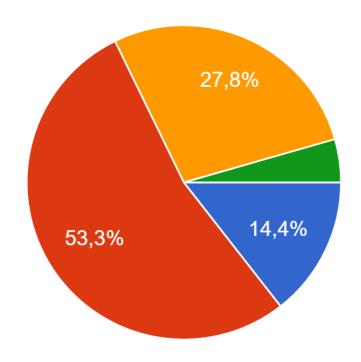
Did you experience difficulties preventing coupling between Micro Frontends?

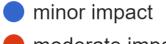
149 Antworten



How do you rate the difficulties with preventing coupling between Micro Frontends?

90 Antworten

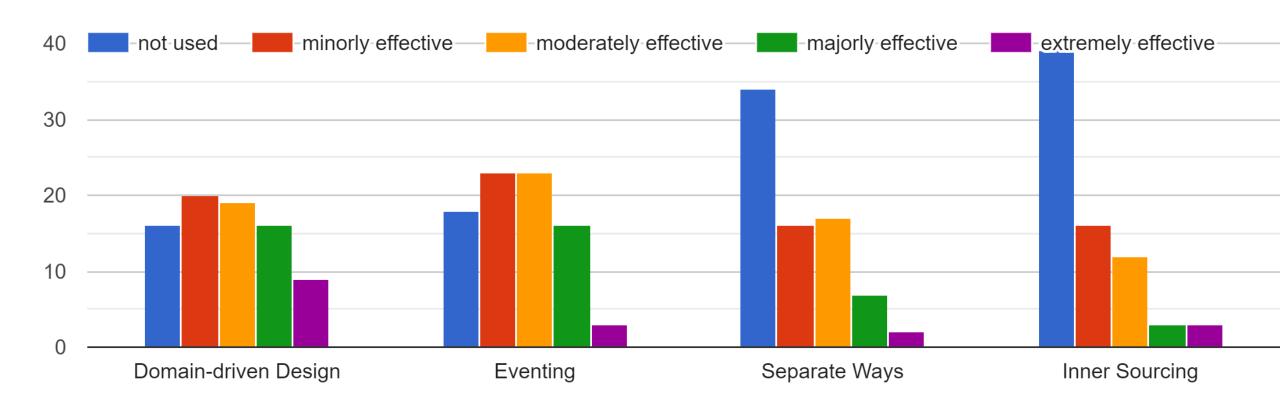






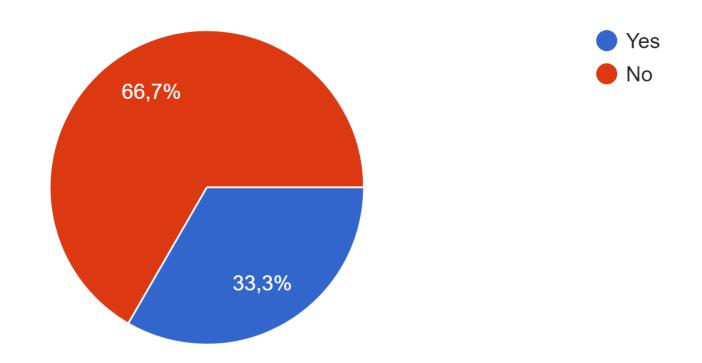




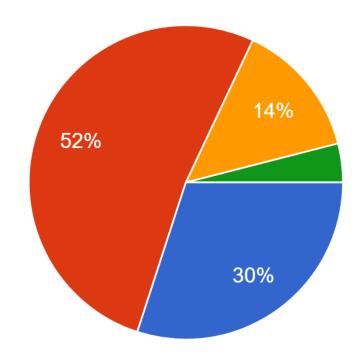


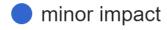
Did you experience conflicts between Micro Frontends in the sense of Micro Frontends negatively impacting each other?

153 Antworten



How do you rate the negative impact regarding conflicts? 50 Antworten

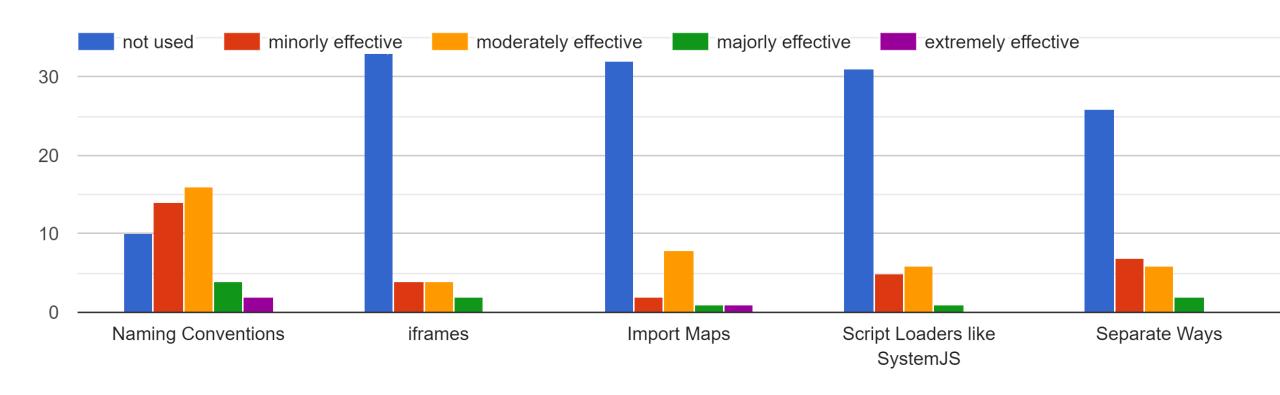












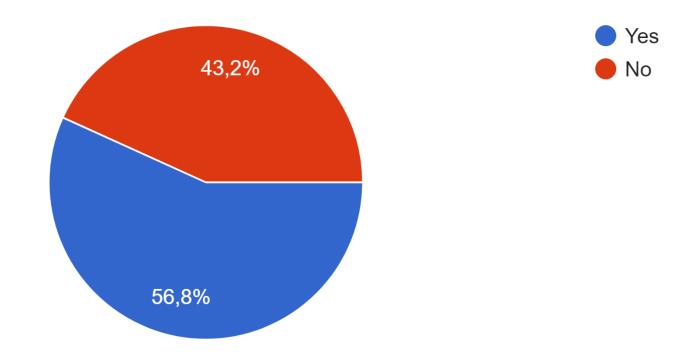
4) Perceived

Organisational Drawbacks



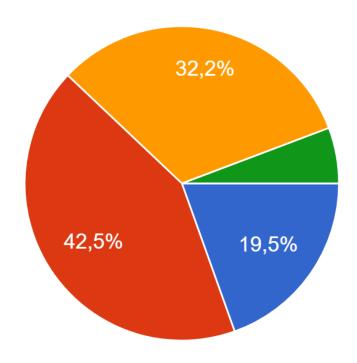
Did you experience an increase in code complexity?

155 Antworten



To what extent did the Micro Frontend architecture have a negative impact on complexity?

87 Antworten

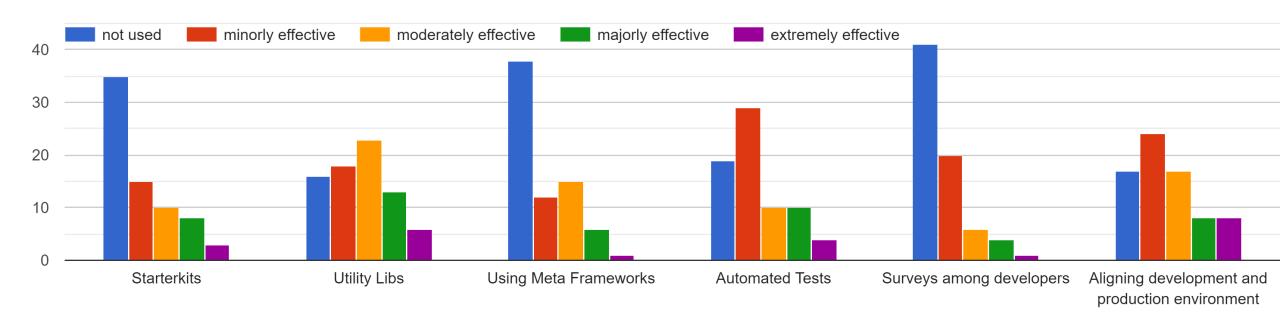


minor impact

moderate impact

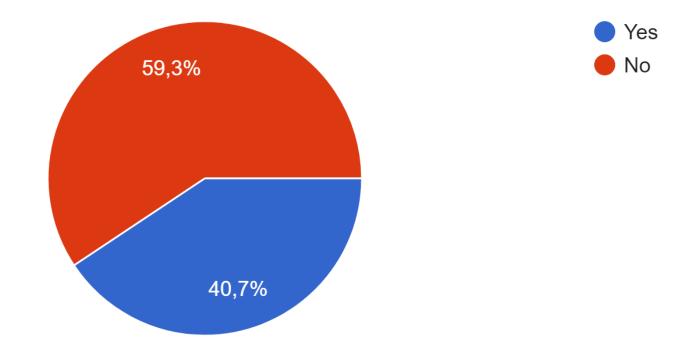
major impact

extreme impact

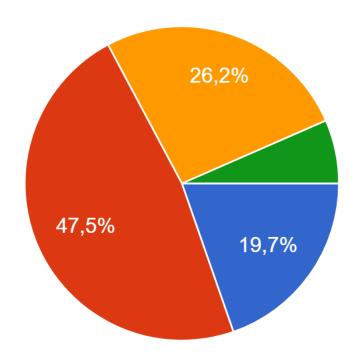


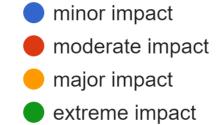
Did you experience diverging Micro Frontends?

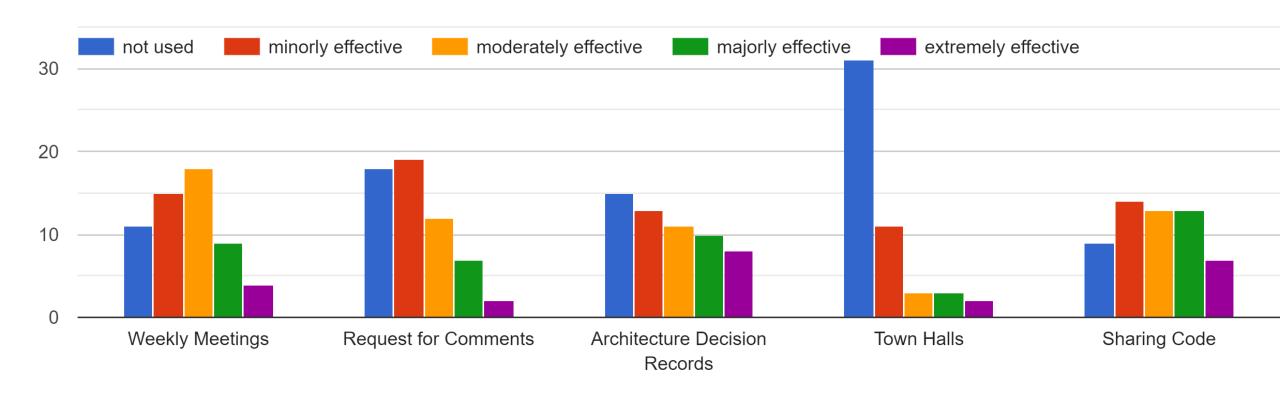
150 Antworten



How do you rate the impact regarding diverging Micro Frontends? 61 Antworten







More: Angular Architecture Workshop



Maintainable Architectures

Standalone Components & APIs

Micro Frontends and Module Federation

Signals and Your Architecture: CD, NGRX Signal Store, RxJS-Interop

Public or Company Training, Remote or On-Site

angulararchitects.io/workshop-de

Contact

[web] ANGULARarchitects.io
[twitter] ManfredSteyer



Remote Company Workshops and Consulting

http://angulararchitects.io