



SOFTWARE SERVICES

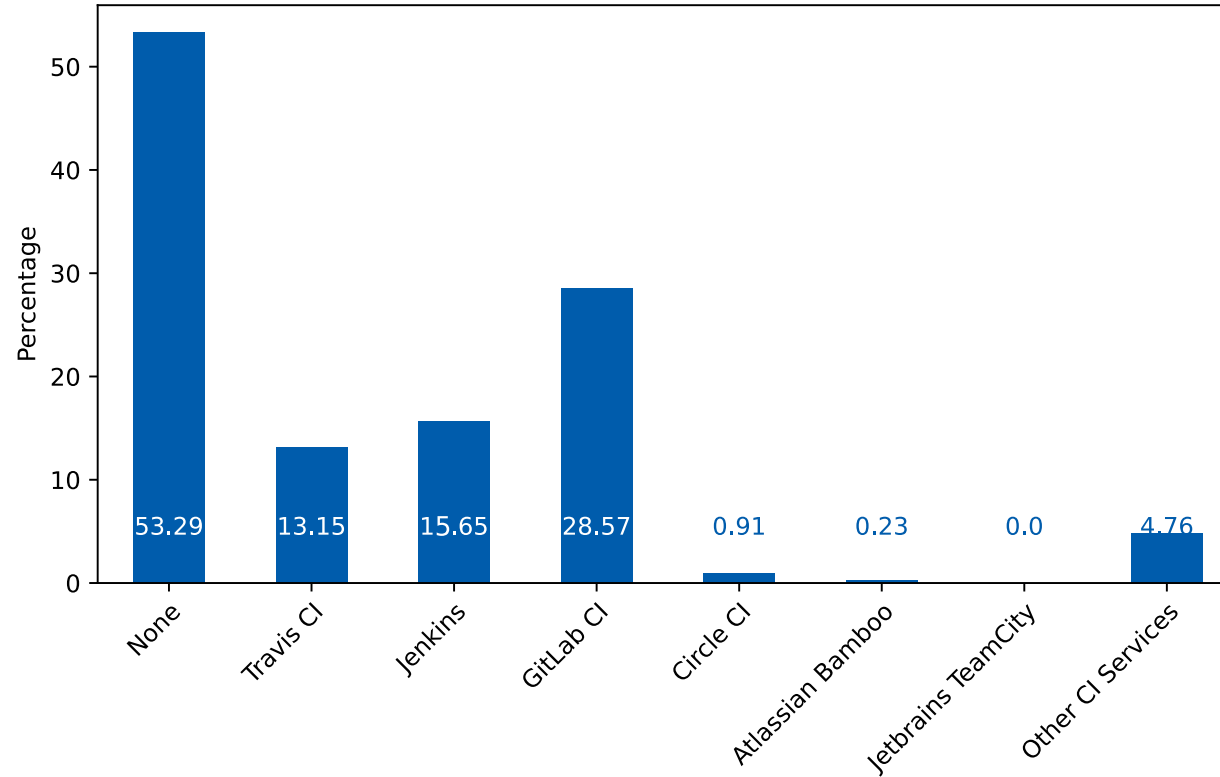
WP Consulting and Technology

IN THIS TALK

- 0 - Survey Insights
- 1 - Consulting
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- 3 - Q&A

SURVEY INSIGHTS

Which Continuous Integration service do you use to automate building and testing your code?



SURVEY INSIGHTS

VCS Usage per Research Field

Subversion	0.16	0.33	0.22	0.12	0.12	0.1
Git	0.75	0.63	0.66	0.69	0.74	0.81
CVS	0.03	0.02	0.02	0.05	0.01	0.02
None	0.05	0.01	0.1	0.14	0.13	0.06
	Earth and Environment	Aeronautics, Space and Transport	Energy	Matter	Health	Key Technologies

Programming Languages per Field (Relative)

Python	0.23	0.35	0.33	0.32	0.33	0.33
C++	0.23	0.15	0.23	0.27	0.17	0.18
R	0.04	0.15	0.03	0.02	0.25	0.08
C	0.12	0.09	0.12	0.16	0.06	0.18
MATLAB	0.19	0.08	0.11	0.09	0.08	0.08
Fortran	0.12	0.14	0.05	0.11	0.02	0.07
Java	0.07	0.05	0.12	0.04	0.09	0.09
	Energy	Earth and Environment	Aeronautics, Space and Transport	Matter	Health	Key Technologies

CONSULTING - CURRENT STATE

Infrastructure:

- Helpdesk set up
- Based on Zammad and DLR Limesurvey
- Integrated support request form on HIFIS website

CONSULTING - CURRENT STATE

Support requests:

- Currently 15 requests, 7 resolved, 8 open
- 2 main consultants (1 established, 1 recently hired)
- +10 supporting consultants

CONSULTING - EXAMPLES

- **ROFEX**: Setup CMake + GitLab CI, deploy on HZDR HPC infrastructure, Documentation
- **Shiny-R**: Containerize project, deploy at UFZ
- **TheiaX** (Spin-off): Consulting on technology choices
- **SUMO**: Investigation of parallelization issues
- Also: Licensing, CD, Project Refactoring, Controlling lab equipment via self-written software

CONSULTING - FUTURE PLANS

- Establish post-consultation surveys
 - Measure consultation impact and for QA
- Re-evaluate consultation process after 6 months
 - Adjust if required

TECHNOLOGY - CURRENT STATE

- Set up HIFIS Helpdesk system
 - Deployed via Ansible on HZDR infrastructure
- Providing the Helmholtz AI voucher system
 - Hosting and basic configuration
 - Technical support for implementation

TECHNOLOGY - FUTURE PLANS

- Establish Helmholtz-wide Gitlab instance
 - Availability expected around end of 2020
 - Integration into Helmholtz-Cloud
- Build up Ansible recipes portfolio
- CI as a service based on Openstack

THE LAST SLIDE

Time for Q&A, Suggestions and Comments