Technologies and Projects

Since October 2022, we have invested in the following technologies and projects. They exemplify digital infrastructure that we aim to strengthen with our mission.

195
critical technologies worthy of investment identified

54
technologies supported since October 2022

23.50
m € invested in commissioned work

Current Investments (#current-investments)

FreeBSD   (https://www.sovereigntechfund.de/tech/freebsd)

Improving the infrastructure, security, regulatory compliance,
and developer experience of an open source operating system

GNU libmicrohttpd   (https://www.sovereigntechfund.de/tech/libmicrohttpd)

Building high-performance HTTP servers in applications reliably, securely, and efficiently

JUnit   (https://www.sovereigntechfund.de/tech/junit)

Making automated testing for the Java ecosystem and JVM more reliable, efficient, and sustainable

Mamba   (https://www.sovereigntechfund.de/tech/mamba)

Enabling secure software package management for science and industry on major operating systems

Samba   (https://www.sovereigntechfund.de/tech/samba)

Enhancing the security, scalability, and functionality of an essential implementation of SMB and IAM protocols

PHP   (https://www.sovereigntechfund.de/tech/php)

Improving the long-term sustainability and security of the PHP ecosystem

GNOME   (https://www.sovereigntechfund.de/tech/gnome)

Improving accessibility, tooling, and security for the Linux desktop ecosystem

Domain

(https://www.sovereigntechfund.de/tech/domain)

Expanding a comprehensive, memory-safe library for building privacy and security-conscious DNS applications

Reproducible Builds

(https://www.sovereigntechfund.de/tech/reproducible-builds)

Ensuring the security and integrity of open source software throughout its lifecycle, from source to binary code

GFortran

(https://www.sovereigntechfund.de/tech/gfortran)

Advancing an open-source Fortran compiler, to enable modern, efficient
capabilities for high-performance computing and scientific research.

systemd

(https://www.sovereigntechfund.de/tech/systemd)

Improving the development and release testing infrastructure of a component used in many Linux distributions

FFmpeg

(https://www.sovereigntechfund.de/tech/ffmpeg)

Maintaining the sustainability, security, and innovation of a leading multimedia processing framework

coreutils

(https://www.sovereigntechfund.de/tech/coreutils)

Creating memory-safe replacement for GNU coreutils

ActivityPub Test Suite

(https://www.sovereigntechfund.de/tech/activitypub-test-suite)

Strengthening interoperability in the ecosystem of decentralized, federated social networks

GStreamer

(https://www.sovereigntechfund.de/tech/gstreamer)

Re-implementing a multimedia framework's low-level network
protocol for increased security, maintainability, and sustainability

Log4j

(https://www.sovereigntechfund.de/tech/log4j)

Enhancing security, stability, and confidence in Java logging

Drupal

(https://www.sovereigntechfund.de/tech/drupal)

Advancing software production security and enhancing developer tools of a widely used content management system

OpenJS Foundation

(https://www.sovereigntechfund.de/tech/openjs)

Improving Javascript ecosystem infrastructure and security

Pendulum

(https://www.sovereigntechfund.de/tech/pendulum)

Providing accurate time on millions of devices and networks
fundamental to the internet and other critical infrastructure.

Fortran

(https://www.sovereigntechfund.de/tech/fortran)

Modernizing an established programming language to become
more performant and user-friendly for scientific communities

RubyGems & Bundler (2023)

(https://www.sovereigntechfund.de/tech/rubygems-bundler-2023)

Package management for Ruby, a popular programming language

Logback

(https://www.sovereigntechfund.de/tech/logback)

Maintaining, improving, and securing a Java logging library

Prossimo

(https://www.sovereigntechfund.de/tech/prossimo)

Securing critical and vulnerable internet infrastructure by moving it into memory-safe code

Python Package Index

Improving Python ecosystem security in collaboration with Trail of Bits

(https://www.sovereigntechfund.de/tech/python-package-index)

OpenBLAS

Keeping high performance linear algebra computation accessible and open for all

(https://www.sovereigntechfund.de/tech/openblas)

The Yocto Project

Creating flexible, custom operating systems for embedded and IoT devices

(https://www.sovereigntechfund.de/tech/yocto)

Sequoia PGP (2023)

Secure communication, signatures, and authentication, in Rust

(https://www.sovereigntechfund.de/tech/sequoia-pgp-2023)

Contribute Back Challenges (#contribute-back-challenges)

OpenPGP documentation for application developers

Providing up-to-date OpenPGP documentation for application developers

(https://www.sovereigntechfund.de/tech/openpgp-documentation)

Securing Apache Airflow

Enhancing the security model of a pivotal workflow orchestration component in the Python ecosystem.

(https://www.sovereigntechfund.de/tech/airflow)

Nix ecosystem supply chain security

Reinforcing the security framework of an an open source build and configuration management system across the full software development life cycle

(https://www.sovereigntechfund.de/tech/nix)

RuntimeTypeInspector.js

A tool that allows JavaScript projects of any kind to enable runtime type checking

(https://www.sovereigntechfund.de/tech/runtime-type-inspector)

Haskell Cabal

Build system and package manager for the Haskell programming language

(https://www.sovereigntechfund.de/tech/haskell-cabal)

Rusty SBOMs

cyclonedx-rust-cargo is emerging as the standard for creating Software Bill of Materials for the Rust ecosystem and the CycloneDX standard

(https://www.sovereigntechfund.de/tech/rusty-sboms)

p5.js Documentation Organization & Accessibility

A free, open source JavaScript library for creative coding, with a focus on making coding accessible and inclusive for artists, designers, educators, and beginners

(https://www.sovereigntechfund.de/tech/p5js)

Open Web Docs

Documenting accurate compatibility data for web technologies and maintaining tools that support this documentation

(https://www.sovereigntechfund.de/tech/open-web-docs)

conda-store

An open source tool for managing data science environments in collaborative teams.

(https://www.sovereigntechfund.de/tech/conda-store)

Past Investments (#past-investments)

Bundler & RubyGems (2022)

(https://www.sovereigntechfund.de/tech/bundler-rubygems)

Package management for a popular programming language

curl

(https://www.sovereigntechfund.de/tech/curl)

Powering data transfers

OpenMLS

(https://www.sovereigntechfund.de/tech/openmls)

A new standard for better encryption in group chats

WireGuard

(https://www.sovereigntechfund.de/tech/wireguard)

Better protected internet access

OpenPGP.js/GopenPGP

(https://www.sovereigntechfund.de/tech/openpgpjs)

Secure emails and secure signatures in the browser

OpenSSH

(https://www.sovereigntechfund.de/tech/openssh)

Secure connections for administrators

Sequoia PGP (2022)

(https://www.sovereigntechfund.de/tech/sequoia-pgp-2022)

Secure communication, signatures and authentication, in Rust

OpenBGPd

(https://www.sovereigntechfund.de/tech/openbgpd)

Making internet routers independent

STF

info@sovereigntechfund.de (mailto:info@sovereigntechfund.de)

Sovereign Tech Fund

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