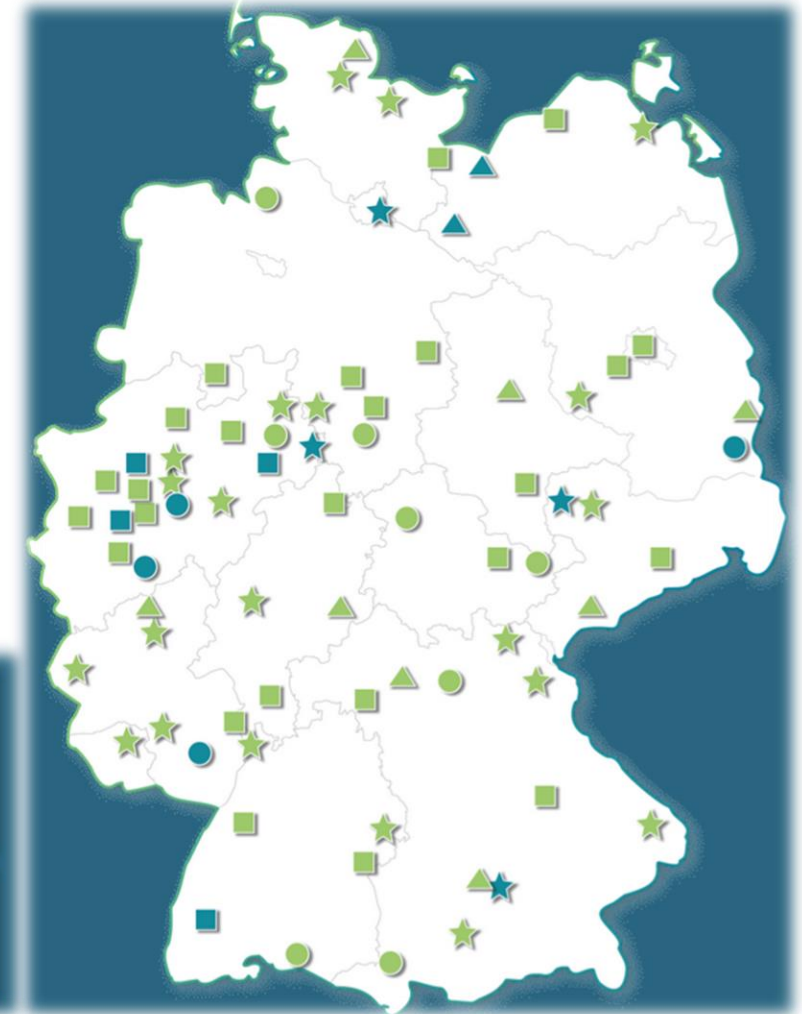
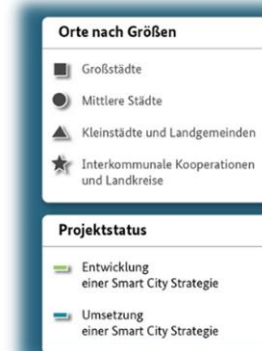


Werkstattbericht: Urbane Datenplattform

- Förderprogramm des BMWSB (BM Wohnen, Stadtentwicklung, Bauwesen)
 - derzeit 73 Modellprojekte seit 2019 in drei Staffeln
 - Volumen gesamt: 820 Mill. €
- Münster: „Digitalisierung findet Stadt“
 - Aufnahme in die dritte Staffel im Sommer 2021
 - 01/2022 bis 06/2023 | Phase A
Strategieentwicklung und 5 Startprojekte
 - 01/2023 bis 12/2026 | Phase B
Umsetzungsphase (6 Fokusprojekte)
 - Volumen: ca. 11 Mio. €, davon 8 Mio. €
Fördermittel

Abbildung:
BMWBSB | Modellprojekte Smart Cities



Anlage 1 zu V/0243/2023



Durch den Rat beschlossen am 20.9.2023.





- Urbane Datenplattform für den gesamten Stadtkonzern
 - Kooperationsprojekt Stadt (Federführung: 62/Smart City) mit Stadtwerken
- Projektvolumen insgesamt: 800.000 €
 - 2023 – 2026
 - 65% Förderung durch den Bund
- Erarbeitung einer Referenzarchitektur mit Civitas Connect e.V.





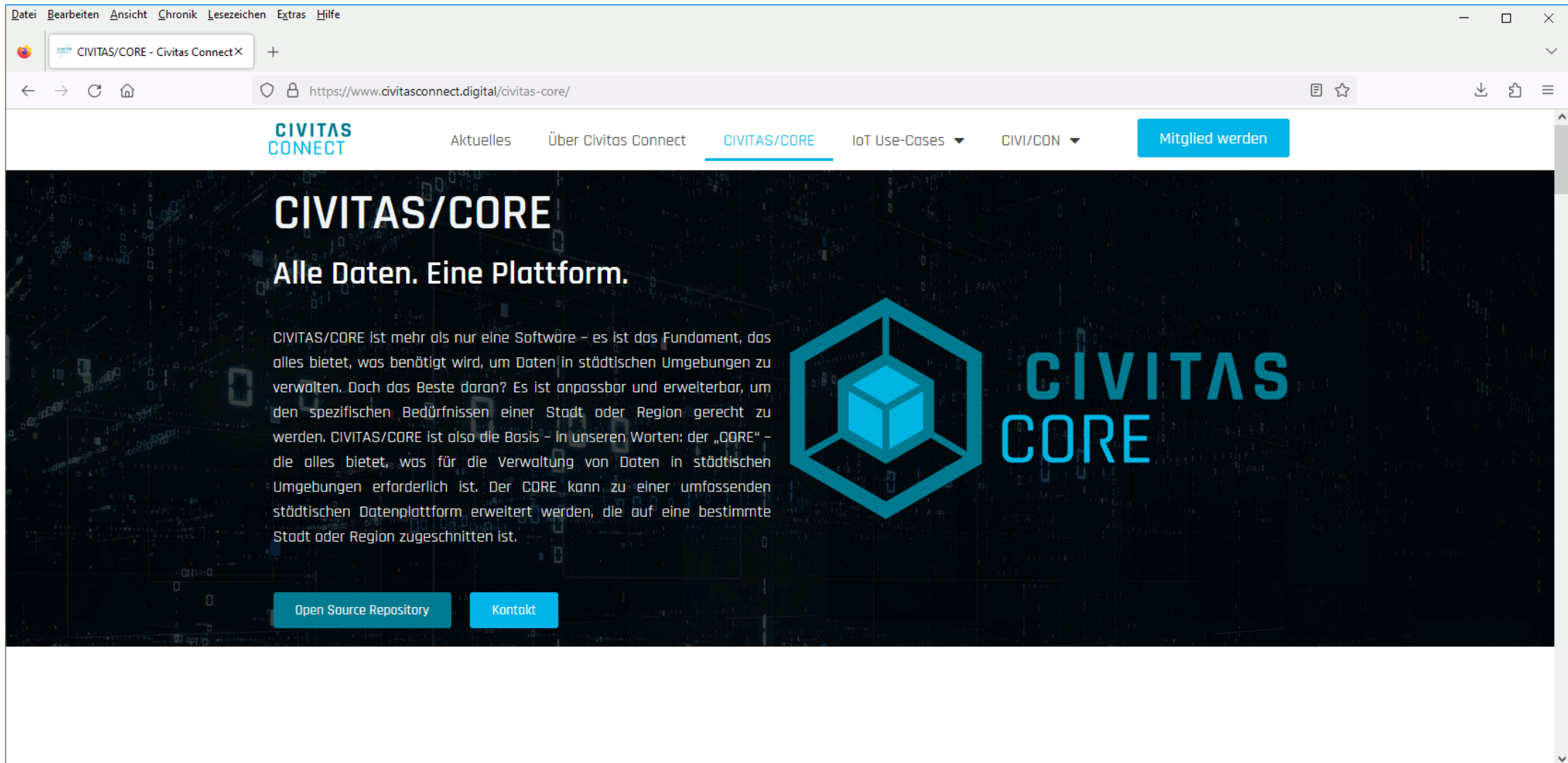
The screenshot shows a web browser window with the URL <https://www.civitasconnect.digital>. The website header includes the "CIVITAS CONNECT" logo, navigation links for "Aktuelles", "Über Civitas Connect", "CIVITAS/CORE", "IoT Use-Cases", and "CIVI/CON", and a blue button labeled "Mitglied werden". The main content area features a large teal box with the text "VERNETZT & NACHHALTIG LEBENSRAÜME ENTWICKELN" overlaid on a map background. Below this, there is a paragraph of text describing the organization's mission and a second paragraph about its collaborative work.

CIVITAS CONNECT Aktuelles Über Civitas Connect CIVITAS/CORE IoT Use-Cases CIVI/CON Mitglied werden

VERNETZT & NACHHALTIG LEBENSRAÜME ENTWICKELN

Civitas Connect wurde am 22. Juni 2020 als Verein gegründet. Wir verstehen uns als neutrale und leistungsstarke Kooperationsplattform kommunaler Unternehmen und Kommunen. Unsere Vereinsmitglieder, zu denen mehrere Städte und Kreise sowie kommunale Versorgungsunternehmen gehören, möchten zusammen aktiv die Smart City bzw. Smart Region gestalten. Überdies soll den zugehörigen Kommunen der Regionen eine Plattform des Austauschs und der Mitwirkung geboten werden. Unsere Basis wird durch Arbeitsgruppen gebildet, welche durch die Vereinsmitglieder besetzt werden. Aufbauend auf diesen Ergebnissen soll das Themenfeld der digitalen Daseinsvorsorge gemeinsam entwickelt und als überregionale Plattform die Position der Mitglieder gestärkt werden.

Eine aktive Mitarbeit aller Vereinsmitglieder ermöglicht das Erarbeiten von Lösungen und die eigenständige Umsetzung in den jeweiligen Kommunen durch die Mitglieder. Die in den Arbeitsgruppen erarbeiteten Daten werden in einer zentralen Wissensdatenbank rund um das Thema Smart City und Smart Region gebündelt und allen Vereinsmitgliedern zur Verfügung gestellt.



File Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

CIVITAS/CORE - Civitas Connect X

https://www.civitasconnect.digital/civitas-core/

**CIVITAS
CONNECT** Aktuelles Über Civitas Connect **CIVITAS/CORE** IoT Use-Cases CIVI/CON Mitglied werden

CIVITAS/CORE

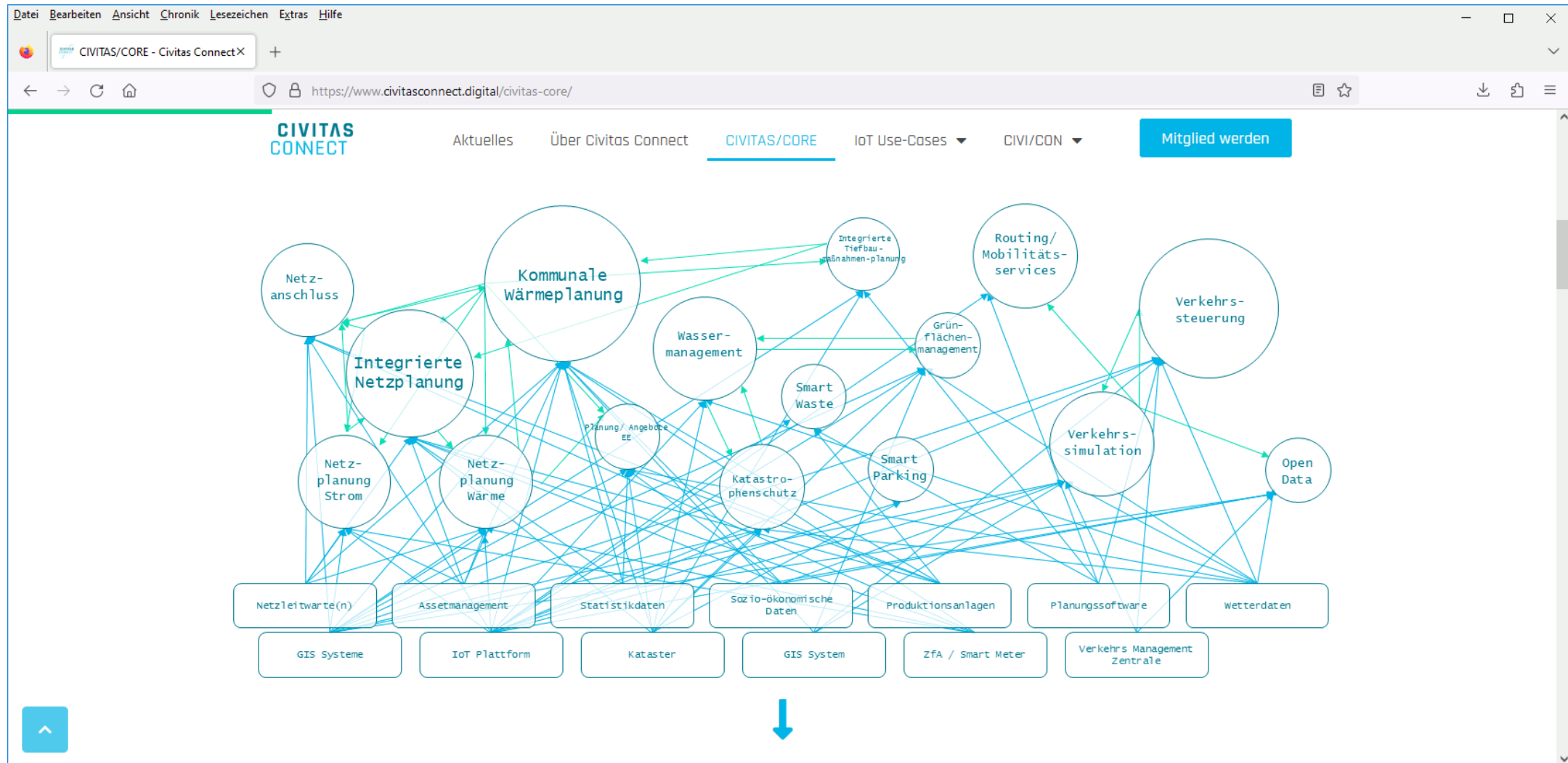
Alle Daten. Eine Plattform.

CIVITAS/CORE ist mehr als nur eine Software – es ist das Fundament, das alles bietet, was benötigt wird, um Daten in städtischen Umgebungen zu verwalten. Doch das Beste daran? Es ist anpassbar und erweiterbar, um den spezifischen Bedürfnissen einer Stadt oder Region gerecht zu werden. CIVITAS/CORE ist also die Basis – in unseren Worten: der „CORE“ – die alles bietet, was für die Verwaltung von Daten in städtischen Umgebungen erforderlich ist. Der CORE kann zu einer umfassenden städtischen Datenplattform erweitert werden, die auf eine bestimmte Stadt oder Region zugeschnitten ist.

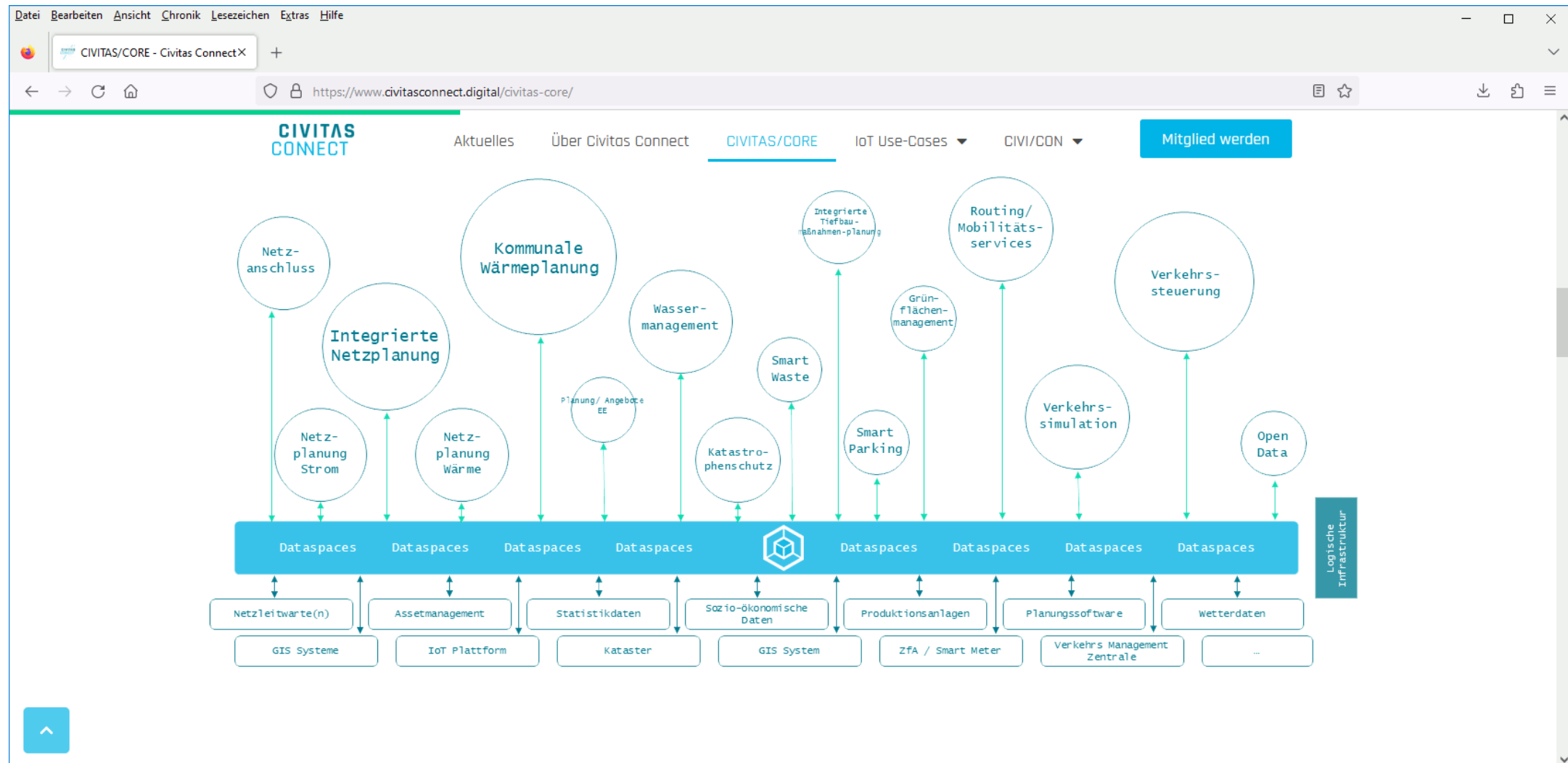
**CIVITAS
CORE**

Open Source Repository Kontakt

Warum eine Urbane Datenplattform ?



Warum eine Urbane Datenplattform ?



- Dashboards / Datenvisualisierungen
- Parkplatzbelegung – Parksensoren
- Smart Water
- Verkehrszählung
- Straßenlaternen
- Ladestationen
- Pegelmessungen
- Kommunale Wärmeplanung
- Digitale Zwillinge
- Netzdaten
- Netzplanung
- Statistikdaten
- Datengateway
- Sensordaten
- ...

The screenshot displays the GitLab interface for the 'CIVITAS CORE Platform' repository. The left sidebar contains navigation links for 'Verwalten', 'Planen', 'Code', 'Build', 'Bereitstellung', 'Betreiben', and 'Überwachen'. The main content area shows the repository details, including a recent merge commit and a table of files.

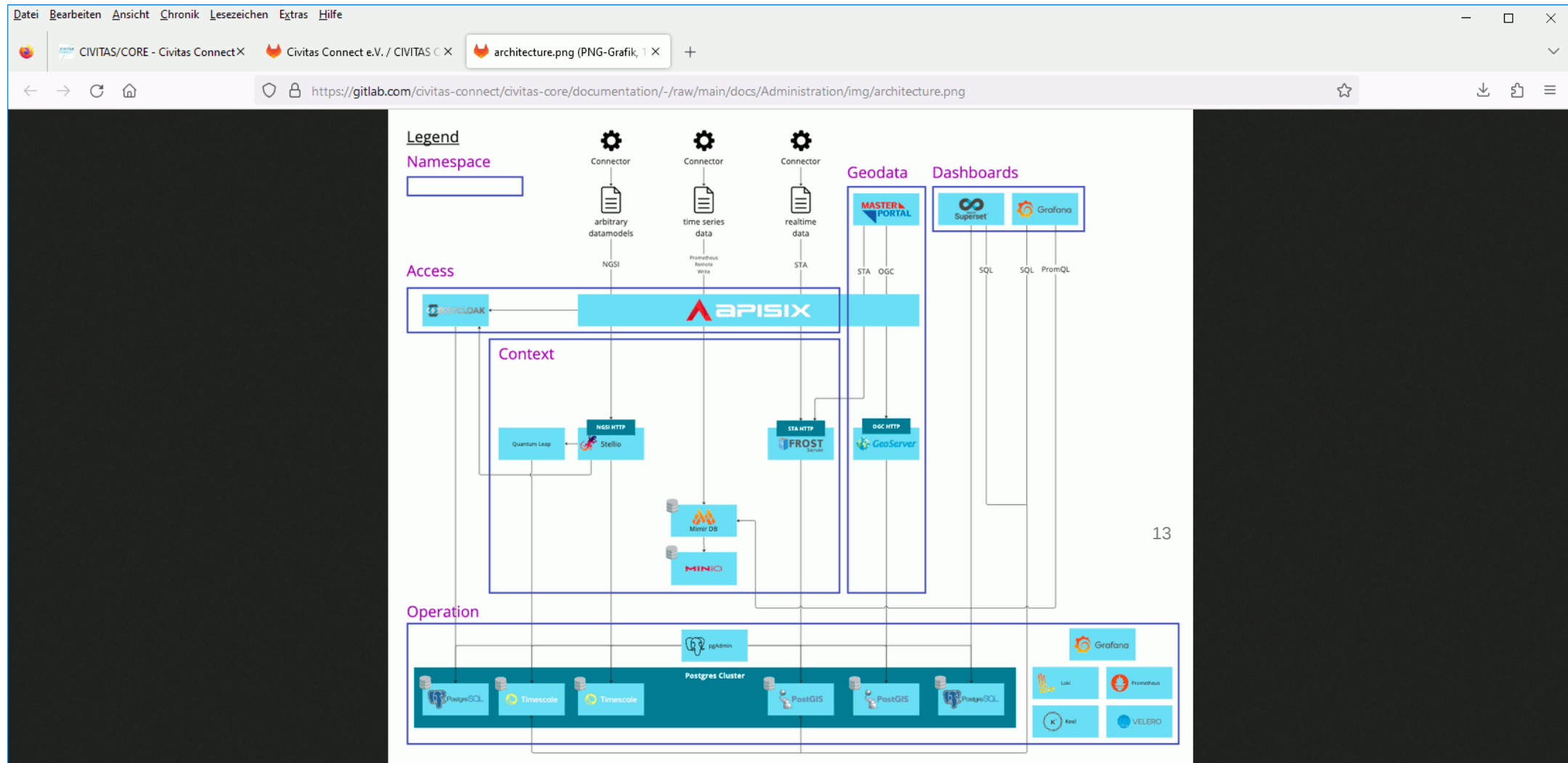
Project Information:

- 834 Commits
- 2 Branches
- 1 Tag
- 1 Veröffentlichung

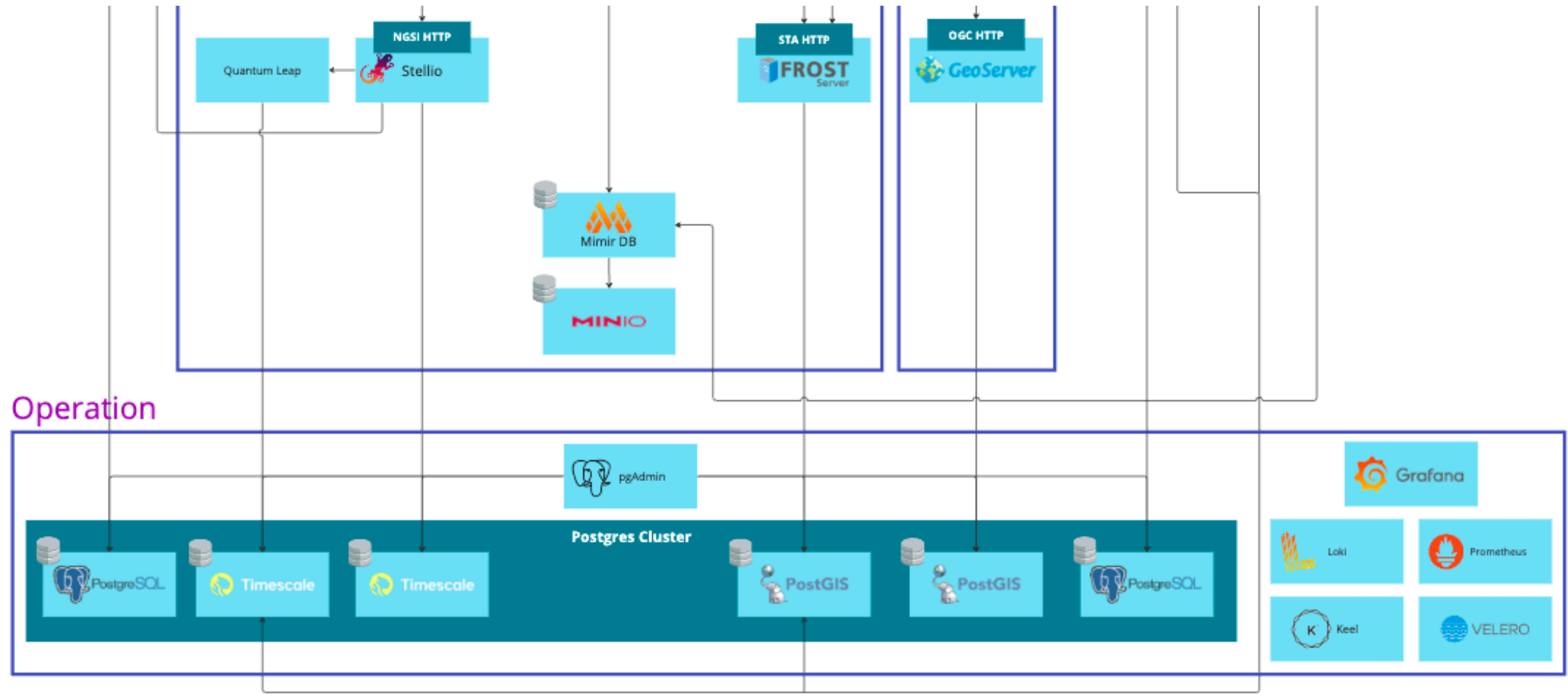
Files and Commit History:

Name	Letzter Commit	Letzte Aktualisierung
.gitlab/agents/htag-demo-cl...	test: container scanning	vor 3 Wochen
core_platform	Merge branch '#19-Configure-and-test-...	vor 2 Tagen
tests/api_tests	fix: remove print	vor 3 Wochen
tools	feat: Integrate DNS Challenge Playbook...	vor 2 Wochen
.gitignore	Merge branch 'main' into '24-enable-m...	vor 1 Woche
.gitlab-ci.yml	feat: Setup Vulnerability Scanning of so...	vor 3 Wochen

The screenshot shows the GitLab interface for the release of Civitas Core Platform v1.0.0. The browser address bar shows the URL: <https://gitlab.com/civitas-connect/civitas-core/civitas-core/-/releases>. The page header includes navigation links like 'Gründe, die für GitLab sprechen', 'Preise', 'Vertrieb kontaktieren', and 'Erkunden', along with buttons for 'Anmelden' and 'Kostenlose Testversion anfordern'. The left sidebar contains a 'Projekt' menu with options like 'Verwalten', 'Planen', 'Code', 'Build', 'Bereitstellung', 'Releases' (selected), 'Paket-Registry', 'Container-Registry', 'Betreiben', and 'Überwachen'. The main content area displays the release details for 'v1.0.0', indicating it is '100 % abgeschlossen'. It shows a progress bar, a 'Meilenstein' (Milestone) of 'Version 1.0', and 'Tickets' (61 total, 0 open, 61 closed). Under the 'Assets' section, there are four download links for the source code: 'Quellcode (zip)', 'Quellcode (tar.gz)', 'Quellcode (tar.bz2)', and 'Quellcode (tar)'. Below this, under 'Sonstige' (Other), there are links for 'Documentation' and 'Product Website'. The 'Beweissammlung' (Evidence Collection) section shows a file named 'v1.0.0-evidences-8317891.json' with a commit hash 'a0aa2fa4' and a timestamp 'Gesammelt 5 days ago'. A note states: 'This is the first stable Release of CIVITAS/CORE.' The 'Highlights' section mentions that the release is based on the 'FUTR HUB platform' of the project Berlin TXL resp. 'Urban Dataspace Platform', with some minor extensions by the City of Paderborn. A link is provided for more details about previous works.



13

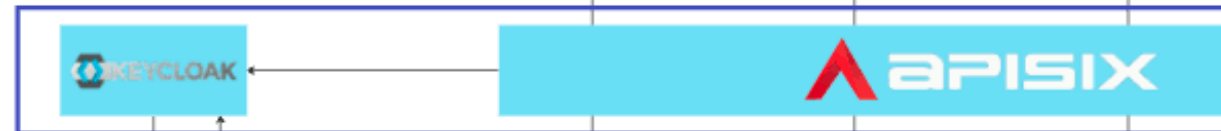


Legend

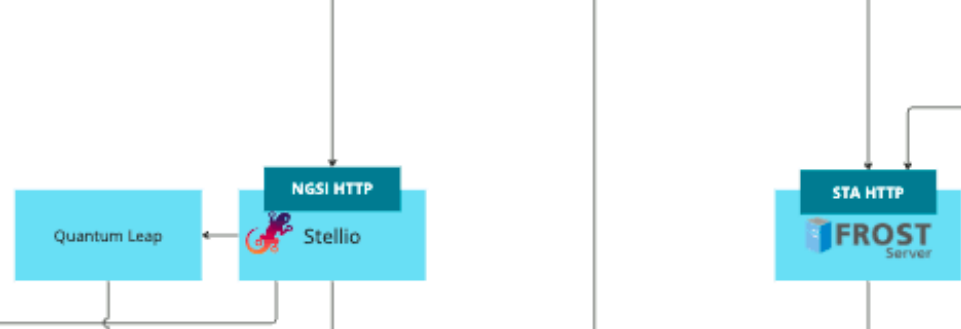
Namespace



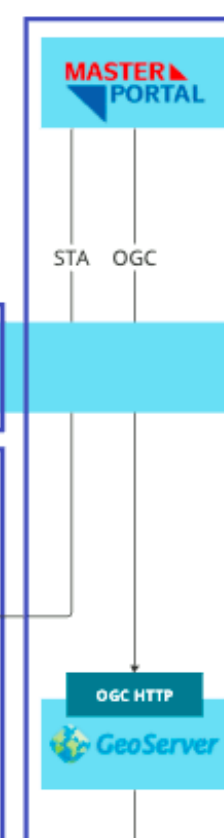
Access



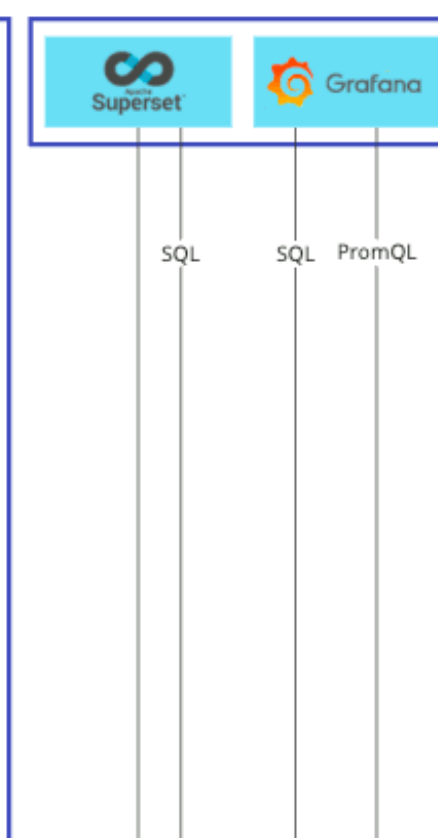
Context



Geodata



Dashboards



The screenshot shows a web browser window displaying the 'Deployment Requirements' page of the Civitas Core Platform documentation. The browser's address bar shows the URL: <https://docs.core.civitasconnect.digital/docs/Deployment/Deployment-Requirements>. The page header includes the 'CIVITAS/CORE Documentation' logo and navigation links for 'Deployment', 'Administration', and 'API'. A search bar is located in the top right corner. The left sidebar contains a list of navigation items: 'Deployment Guide', 'Installation of CIVITAS/CORE', 'Deployment Requirements' (highlighted), 'Inventory Customization Guide', 'Further Customization Guide', 'Enabling MQTT with TLS Encryption', and 'IT-Security'. The main content area features the title 'Deployment Requirements' with a 'Version: 1.0' tag. Below the title, a paragraph states: 'The following document describes different sizing scenarios for the core platform components, that can be used to get a first guess of the needed hardware and software for running the data platform.' Another paragraph follows: 'Important to consider is the fact, that the recommendations regarding sizing can only be a starting point for the right sizing of the platform. The concrete figures depend on the use cases executed on the platform, the generated load from the use cases, and the hardware architecture and generation on which the platform is run.' A section titled 'General requirements' is introduced with the text: 'A few requirements have to be met/prepared in order to create the installation process.' This is followed by a bulleted list of requirements:

- A running kubernetes cluster, we recommend a managed kubernetes service.
- An ingress controller installed on the cluster as well as a cert-manager.
- A general admin kubeconfig with full access rights.
- A (wildcard) domain name for the ingress controller.
- An external email server, that can be used as email relay with authentication.
- At least one usable RWO-Storage Class.

At the bottom of the visible text, it says: 'It is advised to create the configuration (inventory) first, so you get an understanding which namespace(s) you might need prepared by the k8s hoster and which additional information you need.'

The screenshot shows the GitLab repository page for the Civitas CORE Platform. The browser address bar displays the URL <https://gitlab.com/civitas-connect/civitas-core/civitas-core>. The page header includes navigation links like 'Gründe, die für GitLab sprechen', 'Preise', 'Vertrieb kontaktieren', and 'Erkunden', along with buttons for 'Anmelden' and 'Kostenlose Testversion anfordern'.

The main content area is titled 'Who?' and describes the collaborative development of the Civitas/CORE platform by 13 members of Civitas Connect e.V. Below the text, a grid of logos represents the member organizations:

- SWO Netz GmbH
- WW Netz Westfalen Weser
- kvv Kasseler Verkehrs- und Versorgungs-GmbH
- OSNABRÜCK DIE | FRIEDENSSTADT
- STADT MÜNSTER
- Stadtwerke Münster
- HA FURT Smart. Green. City.
- Stadtwerke Lübeck digital
- items
- Paderborn.de Paderborn überzeugt.
- Kassel
- STADT BAMBERG
- JENA LICHTSTADT.

On the right side, the 'Projektinformation' section provides details about the repository:

- This is the main repository of the CIVITAS/CORE platform.
- 834 Commits
- 2 Branches
- 1 Tag
- 1 Veröffentlichung
- README
- European Union Public License 1.2
- CHANGELOG
- Erstellt am February 01, 2024

A left sidebar contains a 'Projekt' menu with options: 'Verwalten', 'Planen', 'Code', 'Build', 'Bereitstellung', 'Betreiben', and 'Überwachen'.

The screenshot shows the GitLab interface for the `CIVITAS CORE Platform` repository. The browser address bar shows `https://gitlab.com/civitas-connect/civitas-core/civitas-core`. The page layout includes a sidebar with navigation options like 'Verwalten', 'Planen', 'Code', 'Build', 'Bereitstellung', 'Betreiben', and 'Überwachen'. The main content area is titled 'Releases & Roadmap' and contains the following text:

Releases & Roadmap

Stable versions will be released once per quarter, i.e. 4 times per year. The current state of development can be followed on our [issue board](#).

The project planning envisages product feature development AND maintenance for its newest stable version for at least 8 years until 2032.

Version 1.0 (current) and later versions (1.x) will enable cities, regions and municipal companies to implement use cases of low to mid-level complexity. These are use cases that integrate IoT data with geographical data. In simple words: all use cases that visualise sensor data on maps. To learn more about its technical components and features, please see the [documentation](#).

Version 2.0 and later versions (2.x) will be a large upgrade. It will enable implementing use cases of any kind of complexity, even for large organisations, and with user interfaces that support users to manage all aspects of their data. The three main features to be developed are:

- Model-centric approach: managing a single source of truth of datasets for any kind of data and data models by using the abstract concept of "models".
- User interfaces: manage data in the platform along all of its lifecycle will be supported with user interfaces.
- Extensive access management: Multi-tenancy and fine-grained access control to comply with complex organisational structures in cities and regions.

The release of version 2.0 is currently planned in the first half of 2025.

How to contribute

You found a bug, want to report an issue or contribute code or a feature request? -> [Contribution guide](#)

The right sidebar contains project information:

Projektinformation
This is the main repository of the [CIVITAS/CORE](#) platform.

Progress bar: [Progress indicator]

834 Commits
2 Branches
1 Tag
1 Veröffentlichung

README
European Union Public License 1.2
CHANGELOG

Erstellt am
February 01, 2024



The screenshot shows a web browser window with the URL <https://software.opencode.de>. The browser has two tabs: 'Open CoDE' and 'OpenCoDE Software'. The website has a dark blue header with navigation links: 'Softwareverzeichnis', 'OpenCoDE', 'Software' (highlighted), 'Wiki', 'Diskussion', 'Gitlab', and 'Machbarkeitsnachweise'. A user profile icon is on the right. Below the header, there's a search bar and a 'Sortieren nach:' dropdown. On the left, there are filter sections: 'Entwicklungsstand', 'Plattform', 'Kategorie' (with a list of categories like 'Abrechnung und Rechnungserstellung', 'Buchhaltung', etc.), 'OSS-Allowlist', and 'CVE Security'. The main content area displays a grid of software project cards. The first row shows 'KERN - UX-Standard für d..', 'CIVITAS/CORE', and 'openDesk - Der Souveräne..'. The second row shows three more cards, each with a red warning icon in the top left corner.