

Manual "Global Safety Database"

The GSD is subdivided into main sections, shown in Figure 4-2 and in the table below.

HOME	<ul style="list-style-type: none"> • Main information of the GSD • Current number of data sources and countries • Current news and publications • Contact information • Partners involved in the GSD
META-DATABASE	<p>The tab META-DATABASE is divided into four different subchapters:</p> <ul style="list-style-type: none"> • Overview <ul style="list-style-type: none"> ○ Overview of each data source ○ Select bar for each data source • Filter <ul style="list-style-type: none"> ○ Filter by Continent/Country ○ Filter by Country Facts (Population, Accidents (all), Accidents (injury), Accidents (fatal)) ○ Filter by accidents by vehicle type • Export <ul style="list-style-type: none"> ○ Export of data sources and associated records • Add Source (no GUEST rights) <ul style="list-style-type: none"> ○ Input mask for new data source • Edit Country (no GUEST rights) <ul style="list-style-type: none"> ○ Change mask for existing country
RESULT-MATRIX	<p>The tab RESULT-MATRIX is divided into four subchapters:</p> <ul style="list-style-type: none"> • Quick Search <ul style="list-style-type: none"> ○ Overview of each question ○ Select bar for each question • Filter <ul style="list-style-type: none"> ○ Filter by Question ○ Filter by Data Sources • Individual Question <ul style="list-style-type: none"> ○ Input mask for new question with all required variables selectable • Development (just user level "Developer") <ul style="list-style-type: none"> ○ Detailed matrix information of each question
ACCOUNT	<ul style="list-style-type: none"> • Information about the user (name, e-mail address, questions entered into GSD) • Possibility to change password
ADMINISTRATION (only SC)	<p>The tab ADMINISTRATION is divided into four subchapters:</p> <ul style="list-style-type: none"> • User <ul style="list-style-type: none"> ○ Overview of all users registered • Review <ul style="list-style-type: none"> ○ Recommended changes to the variables ○ Confirmation or Rejection of these changes • Change Log <ul style="list-style-type: none"> ○ Overview of the changes in variables of each source • Individual Quests <ul style="list-style-type: none"> ○ Overview of individual questions by user ID
CONTACT	<ul style="list-style-type: none"> • Contact information

Creating a new data source

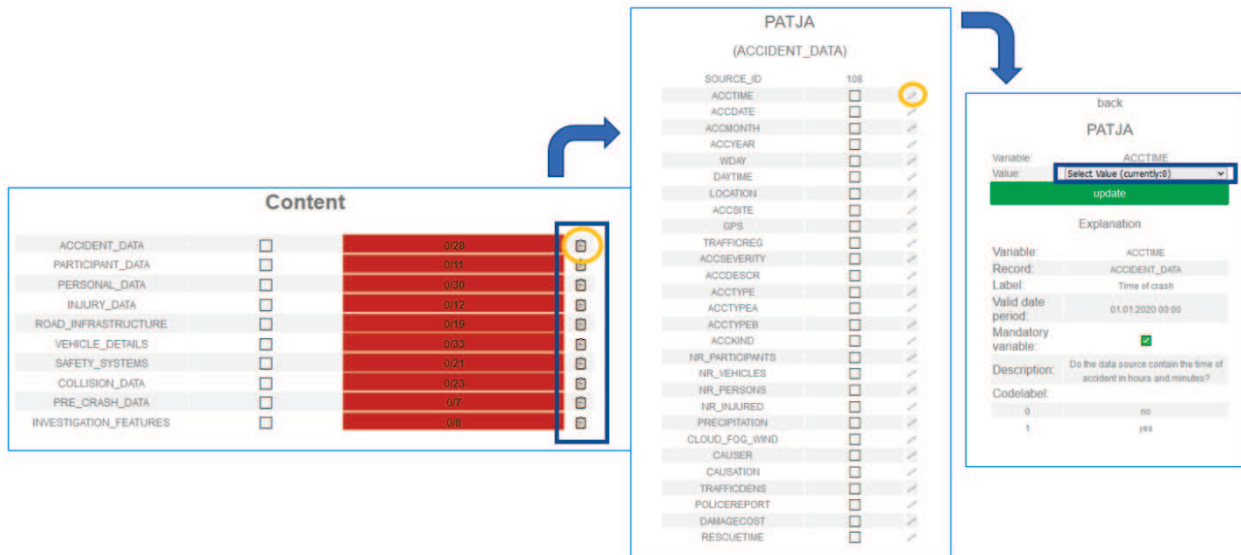
The first step in creating a new data source is to select the “Meta-Database” tab [I], followed by selecting the subchapter “Add Source” [II].

The screenshot shows the Global Safety Database website interface. At the top, there is a navigation menu with 'Home', 'Meta-Database' (highlighted with a box and labeled 'I.'), 'Result-Matrix', 'Account', 'Administration', and 'Contact'. Below the navigation, the main heading is 'Global Safety Database'. Underneath, there are links for 'Meta Database (Overview)' (labeled 'II.'), 'Overview | Filter', 'Add Source' (highlighted with a box), and 'Edit Country'. A 'Select Source' dropdown menu is visible, with a 'View Source' button below it. The main content area is divided into two columns: 'Data Source' and 'Country Facts'. The 'Data Source' column contains a table with fields like COUNTRY, TITLE, ACRONYM, PROVIDER, PROVIDER_TYPE, GENERAL_TYPE, FORMAT, ACCESS, and SPECIFICS. The 'Country Facts' column contains a table with fields like COUNTRY_ID, POPULATION, ACCIDENTS_ALL, ACCIDENTS_INJURY, ACCIDENT_FATAL, FATALLY_INJURED_PERSONS, FATALITY_RATE_MJO, YEAR_COUNTRY, and ICCR. At the bottom, there is a footer with 'Data Privacy | Contact | Imprint © VUFO 2022'.

Then all necessary information must be entered, either by selecting it or manually writing it in [III]. The last step is clicking the button “Add Source” to submit the changes to the Steering Committee [IV]. All changes must be approved by the Steering Committee or the Head of Steering Committee.

The screenshot shows the 'Add Source' form in the Global Safety Database website. The navigation menu is the same as in the previous screenshot. The main heading is 'Global Safety Database'. Below it, there are links for 'Meta Database - Add Source', 'Overview | Filter | Add Source | Edit Country'. The form is divided into two main sections: 'Data Source' and 'Fact Sheet & Focus'. The 'Data Source' section contains fields for SOURCE_ID, COUNTRY (with a dropdown menu), TITLE, ACRONYM, PROVIDER, PROVIDER_TYPE, GENERAL_TYPE, FORMAT, ACCESS, SPECIFICS, UPDATE_RATE, DATA_FORMAT, STATUS_REQUEST, STATUS_ACCESS, STATUS_AVAILABILITY, STATUS_ADD, STATUS_CHANGEBY, and STATUS_CHANGEDATE. The 'Fact Sheet & Focus' section contains fields for YEAR_START, YEAR_END, CASE_PER_YEAR, REPRESENTATIVENESS, INVESTIGATION_METHOD, LANGUAGE_ID, COSTS, CONTACT, LINK, FEATURES, CAR_ACCIDENTS, TRUCK_ACCIDENTS, BIKE_ACCIDENTS, FTRV_ACCIDENTS, CYCLIST_ACCIDENTS, and PEDESTRIAN_ACCIDENTS. A central box labeled 'III.' contains the text 'Select and fill in the information'. At the bottom of the form, there is a green 'Add Source' button labeled 'IV.'. The footer at the bottom of the page contains 'Data Privacy | Contact | Imprint © VUFO 2022'.

Once a new data source has been created, it can be found in the list of available data sources, after acceptance by the SC. In order for this to be evaluated subsequently, all available variables must then be entered individually in the “Content” and also confirmed by the SC.



Editing country information

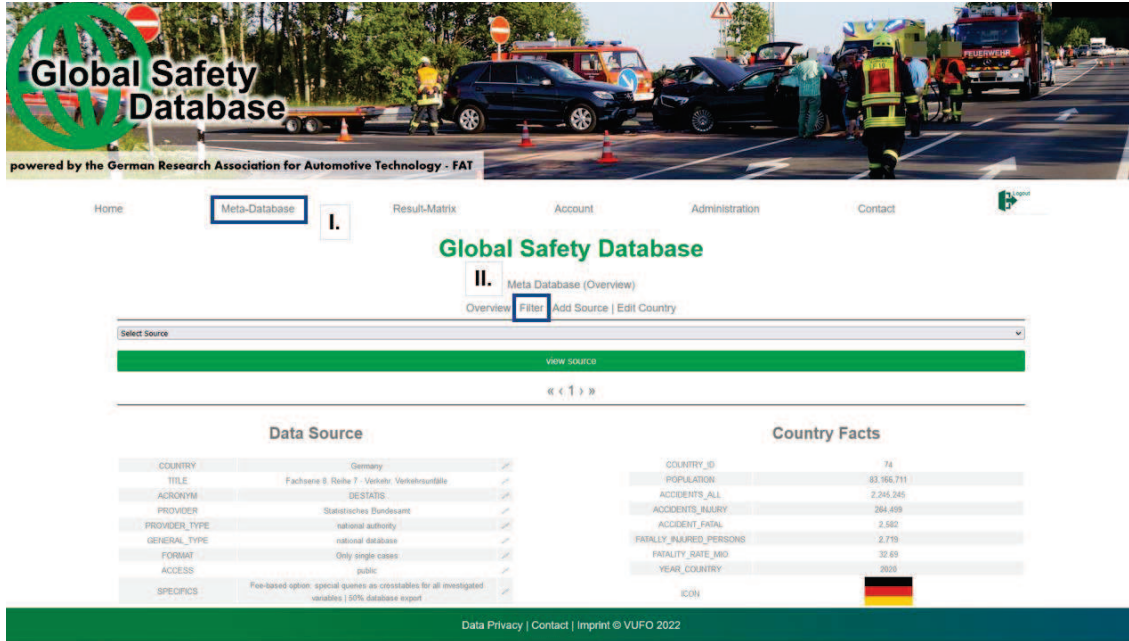
The first step in editing country information is to select the “Meta-Database” tab [I], followed by selecting the subchapter “Edit Country” [II].

The screenshot shows the Global Safety Database website interface. At the top, there is a navigation menu with the following items: Home, Meta-Database (highlighted with a blue box and labeled 'I.'), Result-Matrix, Account, Administration, and Contact. Below the navigation menu, the main heading is 'Global Safety Database' with a sub-heading 'Meta Database (Overview)'. A secondary navigation bar includes 'Overview | Filter | Add Source | Edit Country' (the 'Edit Country' link is highlighted with a blue box and labeled 'II.'). Below this, there is a 'Select Source' dropdown menu with a 'view source' button. The main content area is divided into two columns: 'Data Source' and 'Country Facts'. The 'Data Source' table lists various attributes for Germany, such as 'COUNTRY', 'TITLE', 'ACRONYM', 'PROVIDER', 'PROVIDER_TYPE', 'GENERAL_TYPE', 'FORMAT', 'ACCESS', and 'SPECIFICS'. The 'Country Facts' table lists attributes like 'COUNTRY_ID', 'POPULATION', 'ACCIDENTS_ALL', 'ACCIDENTS_INJURY', 'ACCIDENT_FATAL', 'FATALLY_INJURED_PERSONS', 'FATALITY_RATE_MGD', 'YEAR_COUNTRY', and 'ICON'. At the bottom of the page, there is a footer with 'Data Privacy | Contact | Imprint © VUFO 2022'.

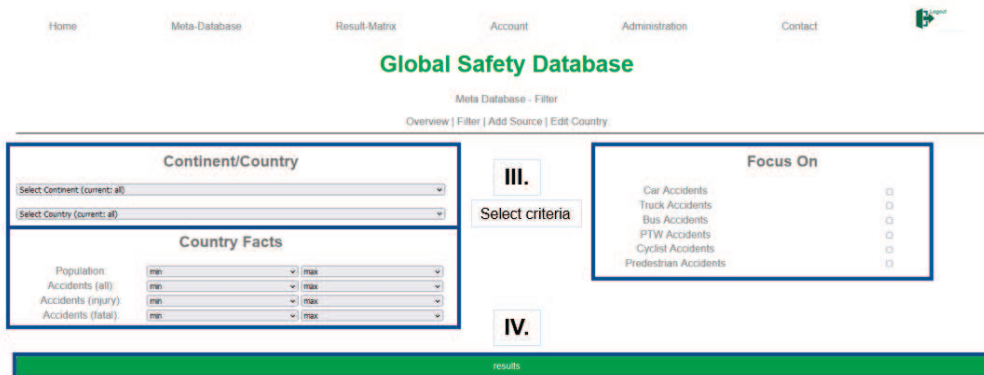
Then all necessary information must be entered [III]+[IV]. The last step is clicking the button “Edit Country” to submit the changes to the Steering Committee [V]. All changes must be approved by the Steering Committee or the Head of Steering Committee.

The screenshot shows the 'Edit Country' form on the Global Safety Database website. The navigation menu at the top includes 'Home', 'Meta Database', 'Result-Matrix', 'Account', 'Administration', and 'Contact'. The main heading is 'Global Safety Database' with a sub-heading 'Meta Database'. A secondary navigation bar includes 'Overview | Filter | Add Source | Edit Country'. Below this, there is a 'Select Country' dropdown menu with a 'view country' button. The main content area is divided into two columns: 'Country Facts' and 'Edit Country'. The 'Country Facts' table lists attributes like 'Country_ID', 'Country', 'Icon-Code', 'Icon', 'POPULATION', 'ACCIDENTS_ALL', 'ACCIDENTS_INJURY', 'ACCIDENT_FATAL', 'FATALLY_INJURED_PERSONS', 'FATALITY_RATE_MGD', 'YEAR_COUNTRY', and 'ICON'. The 'Edit Country' form has input fields for 'Country_ID', 'Country', 'Icon-Code', 'Icon', 'POPULATION', 'ACCIDENTS_ALL', 'ACCIDENTS_INJURY', 'ACCIDENT_FATAL', 'FATALLY_INJURED_PERSONS', 'FATALITY_RATE_MGD', 'YEAR_COUNTRY', and 'ICON'. Annotations are placed on the form: 'III. Select country' points to the 'Country' field; 'IV. Fill in the information' points to the 'POPULATION' field; and 'V.' points to the 'Edit Country' button at the bottom. At the bottom of the page, there is a footer with 'Data Privacy | Contact | Imprint © VUFO 2022'.

Searching for data source via filter option

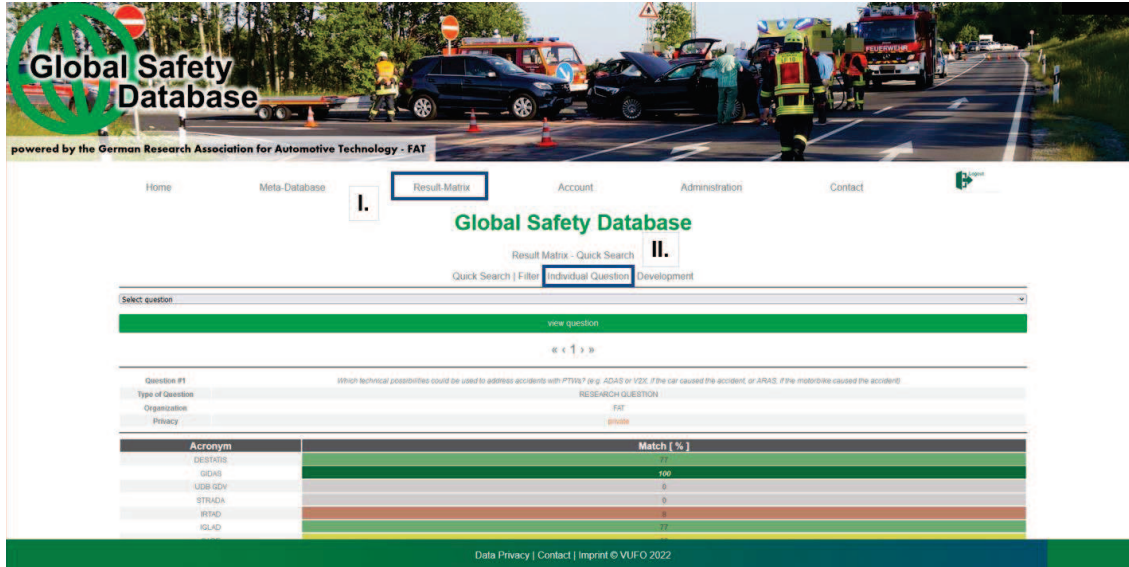


In the filter option, there are three main criteria according to which it is possible to filter (filter by Continent/Country, filter by Country Facts and filter by accidents by vehicle type). It is possible to filter by one criterion or by a combination of several criteria [III]. After setting the desired filters, the “results” button can be used to display the results [IV].



Adding Individual Question

The creation of an Individual Question is done via the tab “Result-Matrix” [I] and the subchapter “Individual Question” [II].



Then enter the question [III] and select all the variables required for the desired answer [IV].




To get the results of which database can answer the question, click the “view results” button [V].

AEB_SYSTEM	Autonomous emergency braking	crossing traffic and VRUs. Collision warning incorporating braking. No automated steering control - only braking. With the aid of radar, LIDAR and/or camera systems, this technology actively assesses the driving environment for potential hazards. In particular current systems address rear end collisions but an oncoming vehicle will also activate the system. Specific pedestrian and cyclist aspects are covered in the VRU. The collision is therefore avoided or the crash severity is reduced with the possibility of reduced injury severity.	<input type="checkbox"/>
AEB_ACTIVE	Autonomous emergency braking active	Do the data source contain details of AEBs and were these activated at the time of the accident? The activation can be determined by a driver interview or by information from an EDR protocol.	<input type="checkbox"/>
LDW	Lane departure warning	Do the data source contain information about existence of lane departure warning (LDW)? LDW is comparable to a virtual road curbline. Drivers who unintentionally cross a road lane marking or the edge of the road receive a visual, audible or haptic warning that allows them to correct the situation.	<input type="checkbox"/>
BSM	Blind spot monitor	Do the data source contain information about existence of blind spot monitor (BSM)? The camera based monitoring system keeps watch for other vehicles travelling in the blind spot. When another vehicle enters the monitored zone a warning light is illuminated near the exterior side mirror. Both sides of the vehicle are monitored in the same way. This visual warning gives the driver a clear indication that another vehicle is alongside.	<input type="checkbox"/>
EGALL	Ecall system	Do the data source contain information about existence of an ecall system in the vehicle?	<input type="checkbox"/>
ALCO_LOCK	Alcohol lock or breath alcohol ignition interlock device	Do the data source contain information about existence of an alcohol lock system or breath alcohol ignition interlock device?	<input type="checkbox"/>
ATTENTION_ASSIST	Attention assistance	Do the data source contain information about existence of an attention assistance system?	<input type="checkbox"/>
AUTOMATION_LEVEL	Automation level	Do the data source contain information about existence of an automatic drive systems in the vehicle?	<input checked="" type="checkbox"/>
MULTICOLLERNS	Multi-collision braking system	Do the data source contain information about multi-collision braking systems?	<input type="checkbox"/>
POPULATION	Population in the country	The population in the country is to be given.	<input type="checkbox"/>
ACCIDENTS_ALL	All road traffic accidents in the country	All road traffic accidents with injured persons and property damage is to be given.	<input type="checkbox"/>
ACCIDENTS_INJURY	All road traffic accidents with injured persons	All road traffic accidents with injured persons is to be given.	<input type="checkbox"/>
ACCIDENT_FATAL	All road traffic accidents with fatally injured persons	All road traffic accidents with fatally injured persons is to be given.	<input type="checkbox"/>
FATALLY_INJURED_PERSONS	Number of fatally injured persons	The number of all road traffic fatalities is to be given.	<input type="checkbox"/>
FATALITY_RATE_MD	Mortality rate	The mortality rate describes the number of fatal accidents per 1 million inhabitants of the country.	<input type="checkbox"/>
YEAR_COUNTRY	Year of the data	The year of publication of the country data is to be given.	<input type="checkbox"/>

[view results](#)

V.

All data sources and the corresponding hit rate are then displayed. Finally, there is still the possibility to submit this individual question to the SC [VI]. For this purpose, the type of question and the privacy settings must be adjusted as desired. After successful verification by the SC, this question is added to the existing question catalogue.



Global Safety Database
powered by the German Research Association for Automotive Technology - FAT

Home Meta-Database Result-Matrix Account Administration Contact

Global Safety Database

Result Matrix - Individual Question

Quick Search | Filter | Individual Question | Development

Question:	Automation Level?
Type of Question:	Main Research Question
Organization:	VUFO
Privacy:	Private

Required Variables

AUTOMATION_LEVEL

Submit question (Your question will be stored in your user profile. Public questions will be subsequently reviewed by the Steering Committee.)

Acronym	Match [%]
DESTATIS	0
ICDAS	100
UOB-IGN	0
STRADA	0
ESD	0

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VI.

Searching for Research Questions

To search for questions already implemented in the GSD using various criteria, select “Result-Matrix” [I] and the “Filter” subchapter [II]. Then select the desired criteria [III] and click the “results” button to display the results [IV].

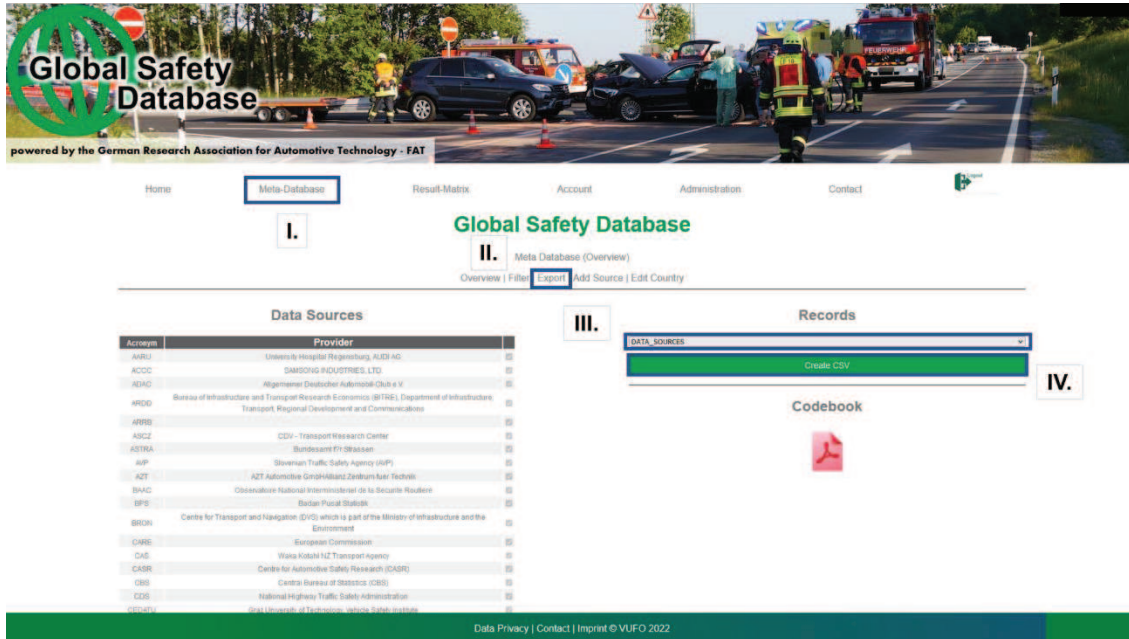
The screenshot displays the Global Safety Database website interface. At the top, there is a banner image of a car accident scene with the text "Global Safety Database" and "powered by the German Research Association for Automotive Technology - FAT". Below the banner is a navigation menu with links: Home, Meta Database, Result-Matrix (highlighted with a blue box and labeled 'I.'), Account, Administration, and Contact. The main content area is titled "Global Safety Database" and includes a sub-menu with "Result Matrix - Filter" (highlighted with a blue box and labeled 'II.') and "Quick Search". Below this, there are two columns of search criteria, each with a list of options and radio buttons:

- Question:**
 - Main Research Question
 - Research Question
 - Fact Sheet Information
 - Others / Analysis Question
- Others:**
 - Only fully audited data sources
- Data Sources:**
 - Global data sources
 - European data sources
 - Asian data sources
 - North american data sources
 - South american data sources
 - African data sources
 - Oceanic data sources
 - Antarctic data sources

At the bottom of the search area, there is a green bar with a "results" button (highlighted with a blue box and labeled 'IV.'). The footer of the page contains the text "Data Privacy | Contact | Imprint © VUJO 2022".

Export

To export the desired data sources click on the “Meta-Database” tab [I] and then on the “Export” subchapter [II]. If there are no further restrictions, all available data sources are selected first. If only certain data sources are to be considered, the data sources can be selected or deselected individually. When all the desired data sources have been selected, it is still necessary to select the records to be included [III]. To prepare the export file, click on the "Create CSV" button [IV].



After clicking the “Create CSV” button the file is prepared and can be downloaded [V]. Since the export file outputs the associated codes for each record, the GSD codebook can additionally be downloaded for assistance.

