



Universität Bayreuth
Lehrstuhl für Angewandte Informatik IV
Datenbanken und Informationssysteme

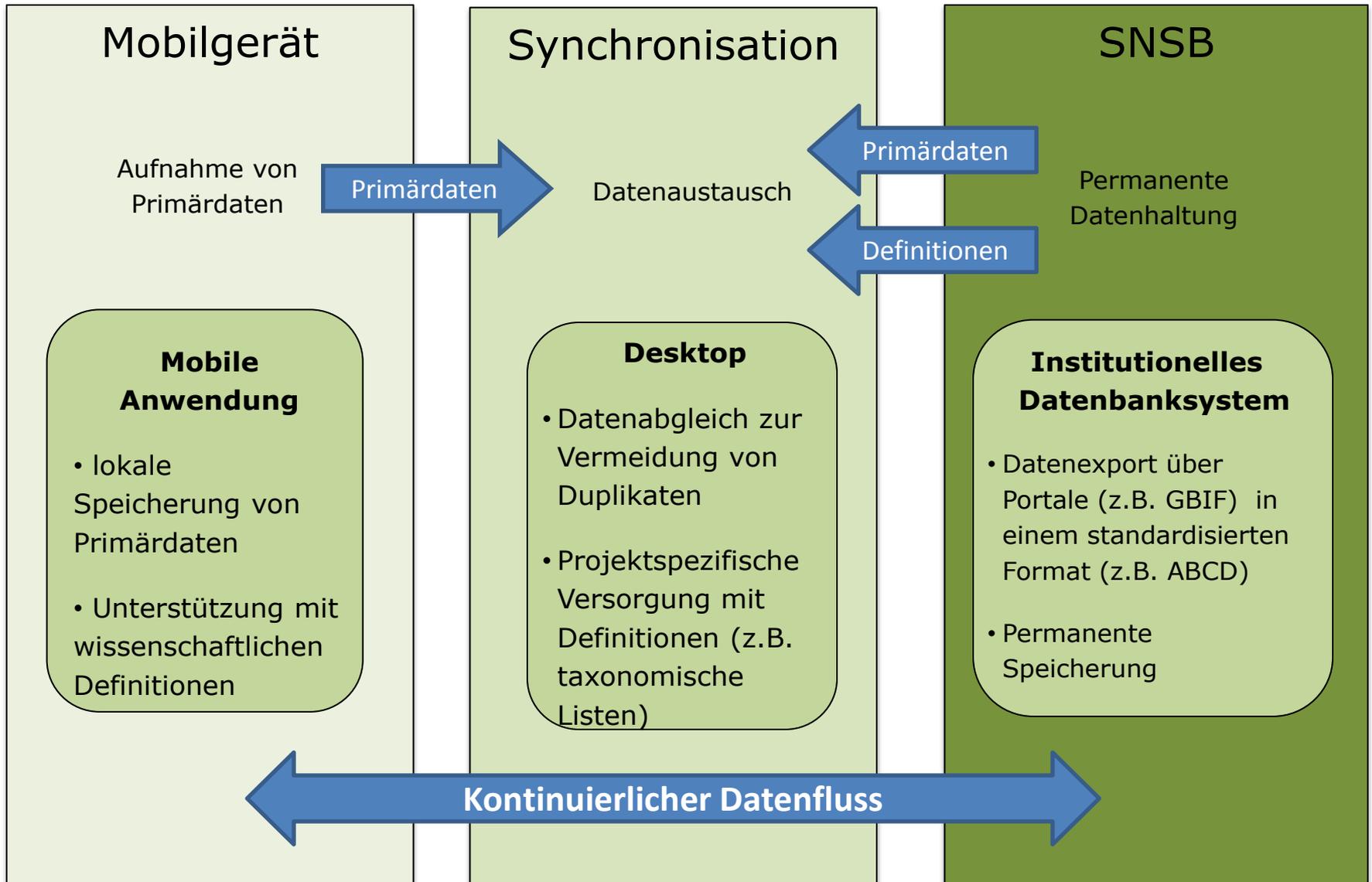
Prof. Dr.-Ing. Stefan Jablonski

Datensynchronisation mit DiversitySynchronization

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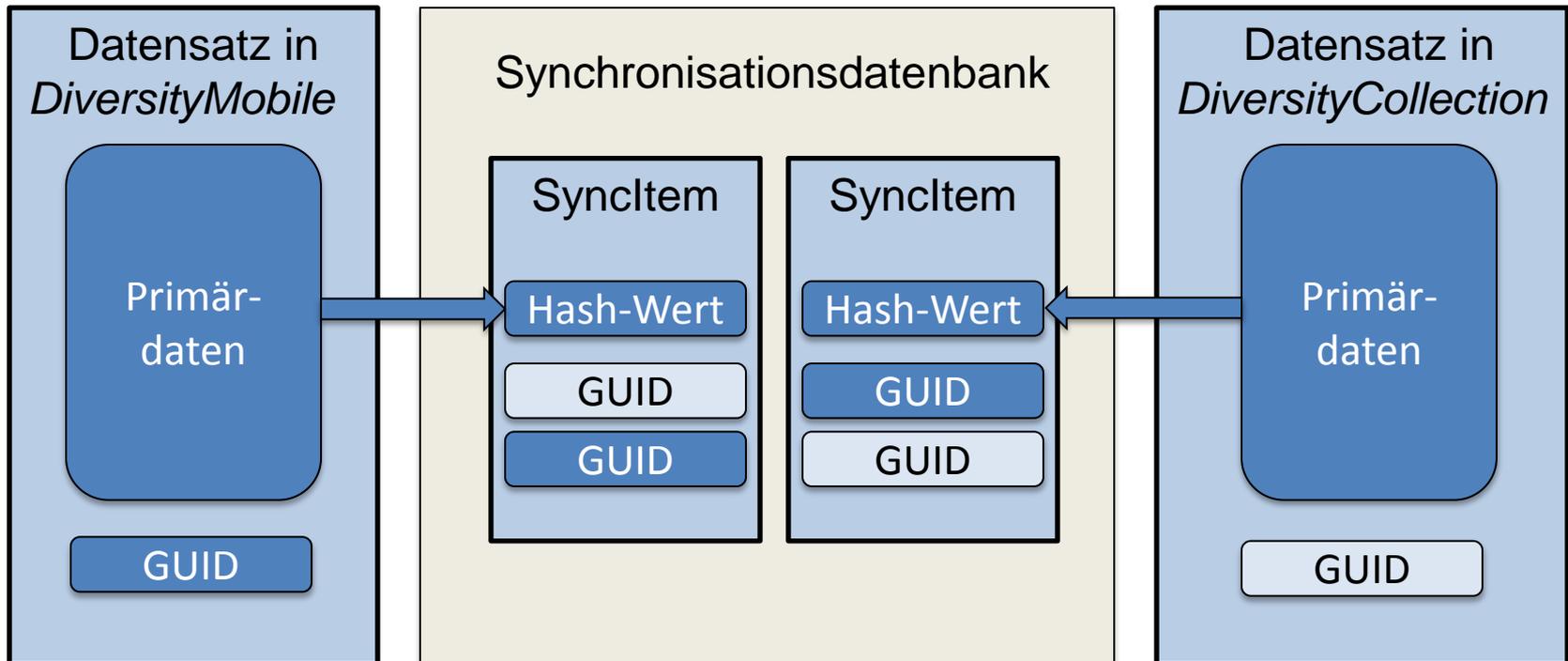
Kontinuierlicher Datenfluss



Altes Konzept Synchronisation

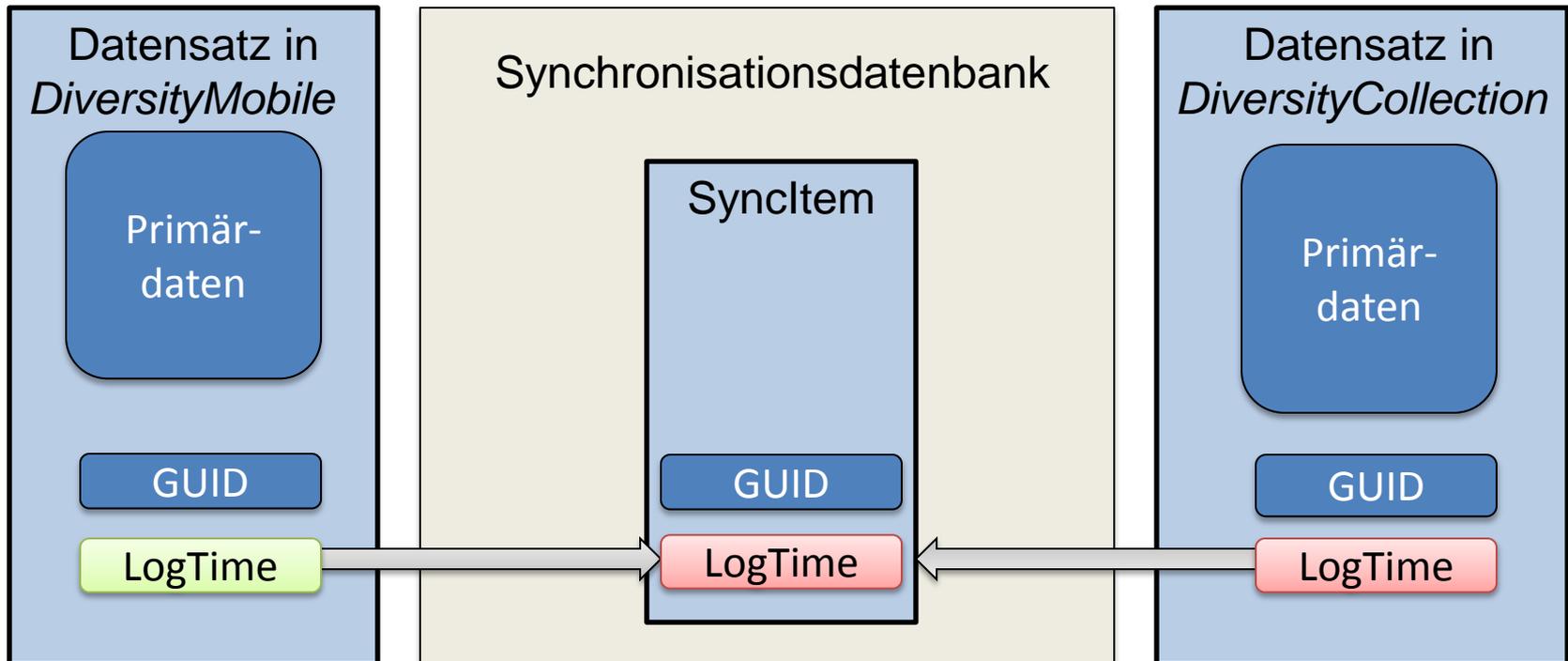
Identifizierung von Datensätzen über GUIDs im Microsoft Universally Unique Identifier (*UUID*) Standard

Berechnung von Hashwerten aus den Primärdaten



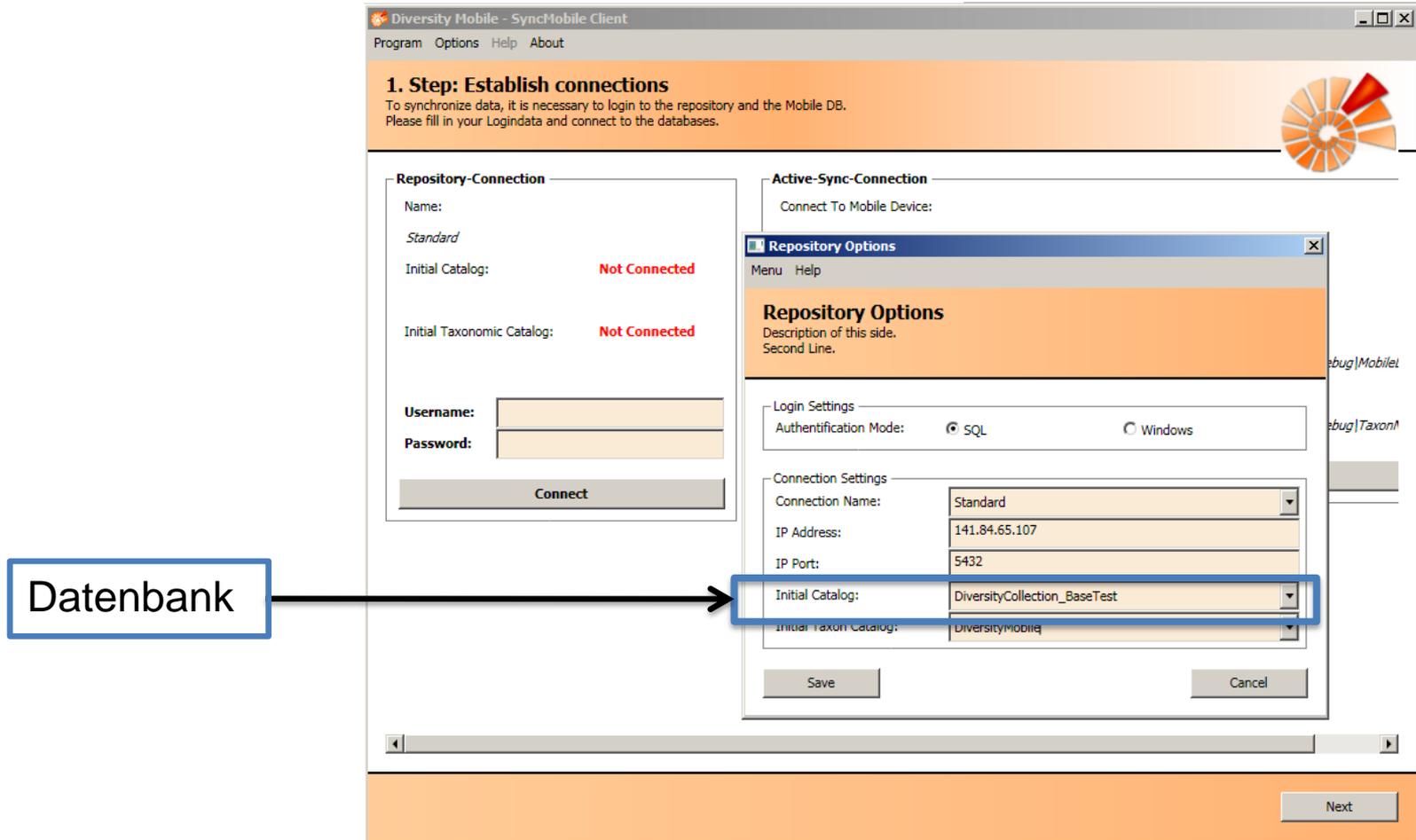
Aktuelles Konzept Synchronisation (Update)

Identifizierung von Datensätzen über GUIDs im Microsoft Universally Unique Identifier (*UUID*) Standard
 Loggen, wann sich ein Datensatz ändert.



Anmeldung: Einstellung zur Verbindung an das SNSB

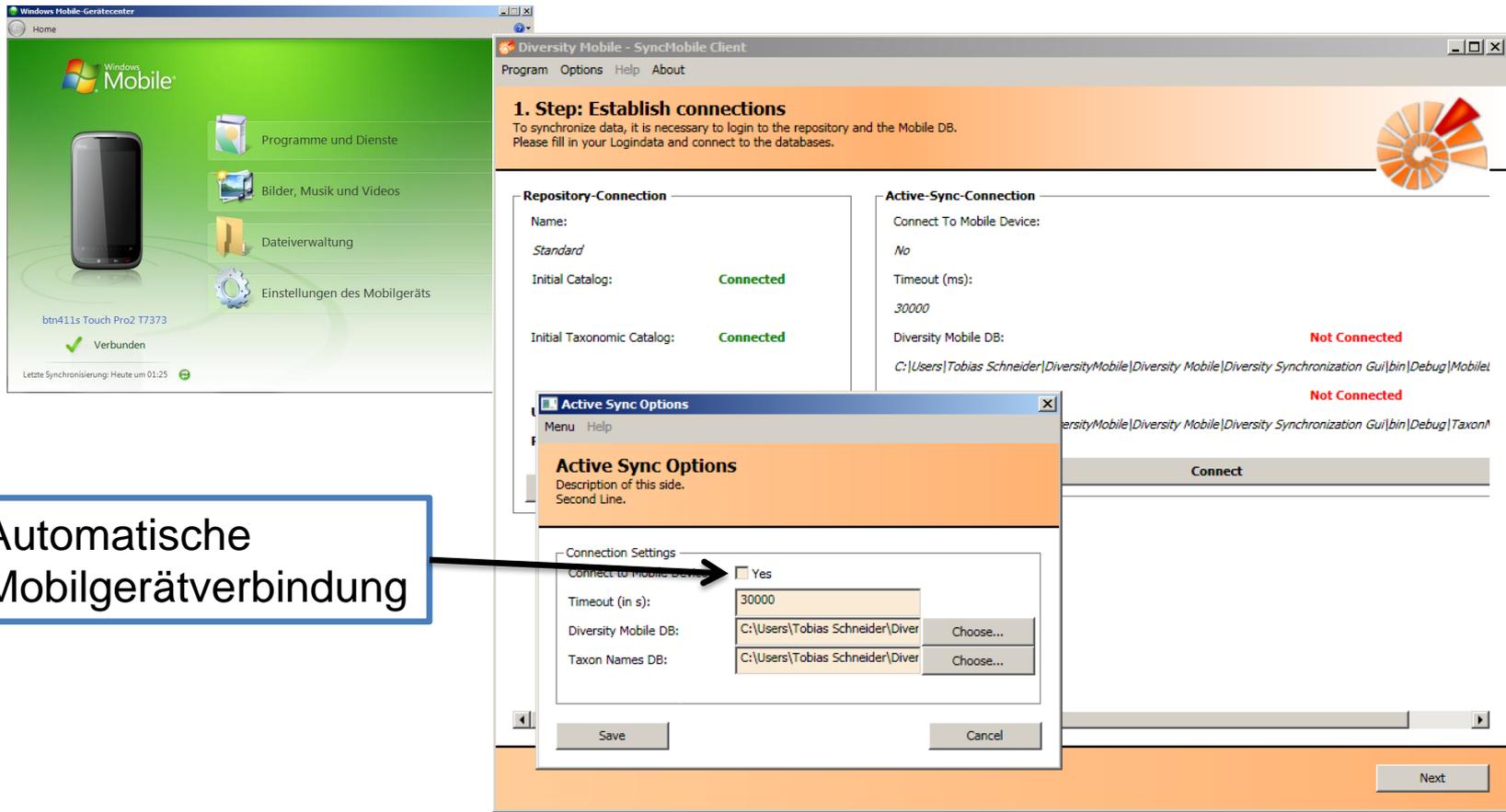
- Hier wird die Partner-Datenbank a, SNSB ausgewählt.
- Diese sollte im Allgemeinen ihr Projektdatenbank sein.



The screenshot shows the 'Diversity Mobile - SyncMobile Client' window. The main window has a title bar with 'Program Options Help About' and a menu bar. Below the title bar is a section titled '1. Step: Establish connections' with instructions: 'To synchronize data, it is necessary to login to the repository and the Mobile DB. Please fill in your Logindata and connect to the databases.' There are two main sections: 'Repository-Connection' and 'Active-Sync-Connection'. The 'Repository-Connection' section has fields for 'Name' (Standard), 'Initial Catalog' (Not Connected), 'Initial Taxonomic Catalog' (Not Connected), 'Username', and 'Password', with a 'Connect' button. The 'Active-Sync-Connection' section has a 'Connect To Mobile Device:' button. A 'Repository Options' dialog box is open, showing 'Login Settings' (Authentication Mode: SQL, Windows) and 'Connection Settings' (Connection Name: Standard, IP Address: 141.84.65.107, IP Port: 5432). The 'Initial Catalog' dropdown is highlighted with a blue box and labeled 'Datenbank', and is set to 'DiversityCollection_BaseTest'. The 'Initial Taxon Catalog' is set to 'Diversitymobile'. There are 'Save' and 'Cancel' buttons at the bottom of the dialog. A 'Next' button is visible at the bottom right of the main window.

Anmeldung: Verbindungseinstellungen zum Mobilgerät

- Der automatische Datentransfer setzt Microsoft Activesync bzw. das Windows Mobile GeräteCenter voraus.



The image shows two windows. On the left is the 'Windows Mobile - Gerätecenter' window, which displays a mobile phone icon and a 'Verbunden' (Connected) status. On the right is the 'Diversity Mobile - SyncMobile Client' window, which is in the '1. Step: Establish connections' phase. It has two main sections: 'Repository-Connection' and 'Active-Sync-Connection'. The 'Repository-Connection' section shows 'Name: Standard', 'Initial Catalog: Connected', and 'Initial Taxonomic Catalog: Connected'. The 'Active-Sync-Connection' section shows 'Connect To Mobile Device: No', 'Timeout (ms): 30000', and 'Diversity Mobile DB: Not Connected'. A 'Connect' button is visible at the bottom right of the main window.

An 'Active Sync Options' dialog box is overlaid on the main window. It has a title bar 'Active Sync Options' and a menu 'Menu Help'. The main content area is titled 'Active Sync Options' and contains a description: 'Description of this side. Second Line.' Below this is a 'Connection Settings' section with the following fields:

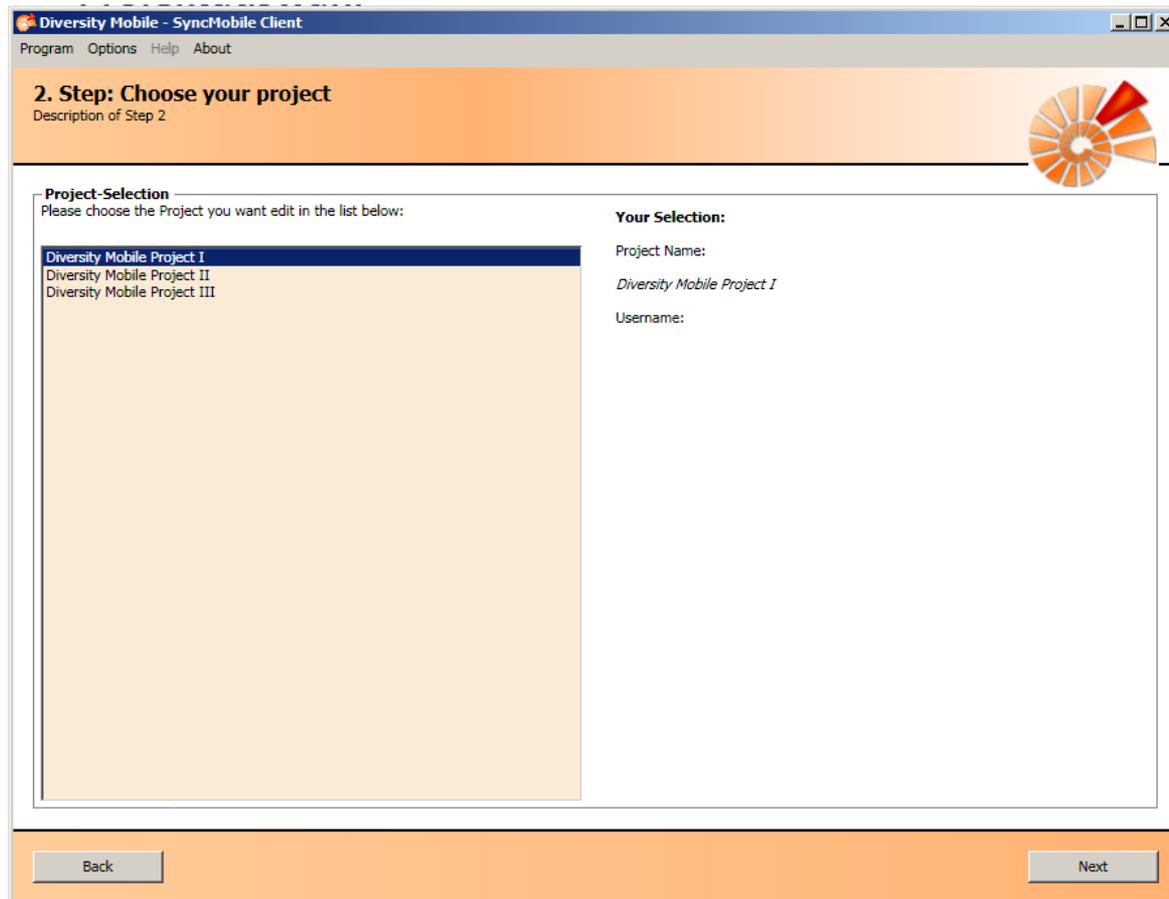
- 'Connect to mobile device' with a checked checkbox and a 'Yes' button.
- 'Timeout (in s):' with a text box containing '30000'.
- 'Diversity Mobile DB:' with a text box containing 'C:\Users\Tobias Schneider\Diver' and a 'Choose...' button.
- 'Taxon Names DB:' with a text box containing 'C:\Users\Tobias Schneider\Diver' and a 'Choose...' button.

 At the bottom of the dialog are 'Save' and 'Cancel' buttons.

A blue-bordered box on the left contains the text 'Automatische Mobilgerätverbindung' with an arrow pointing to the 'Connect to mobile device' checkbox in the 'Active Sync Options' dialog.

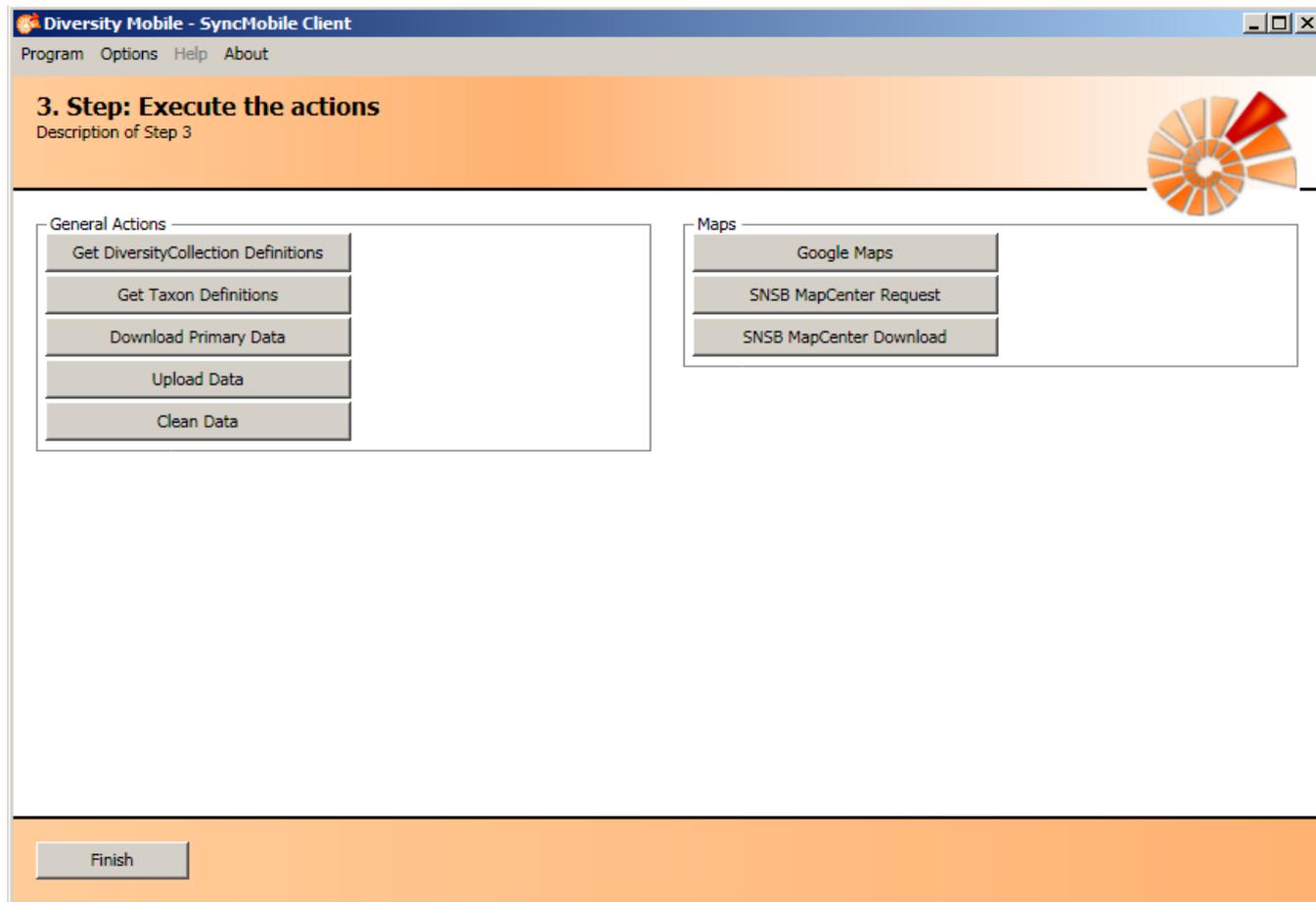
Projektauswahl

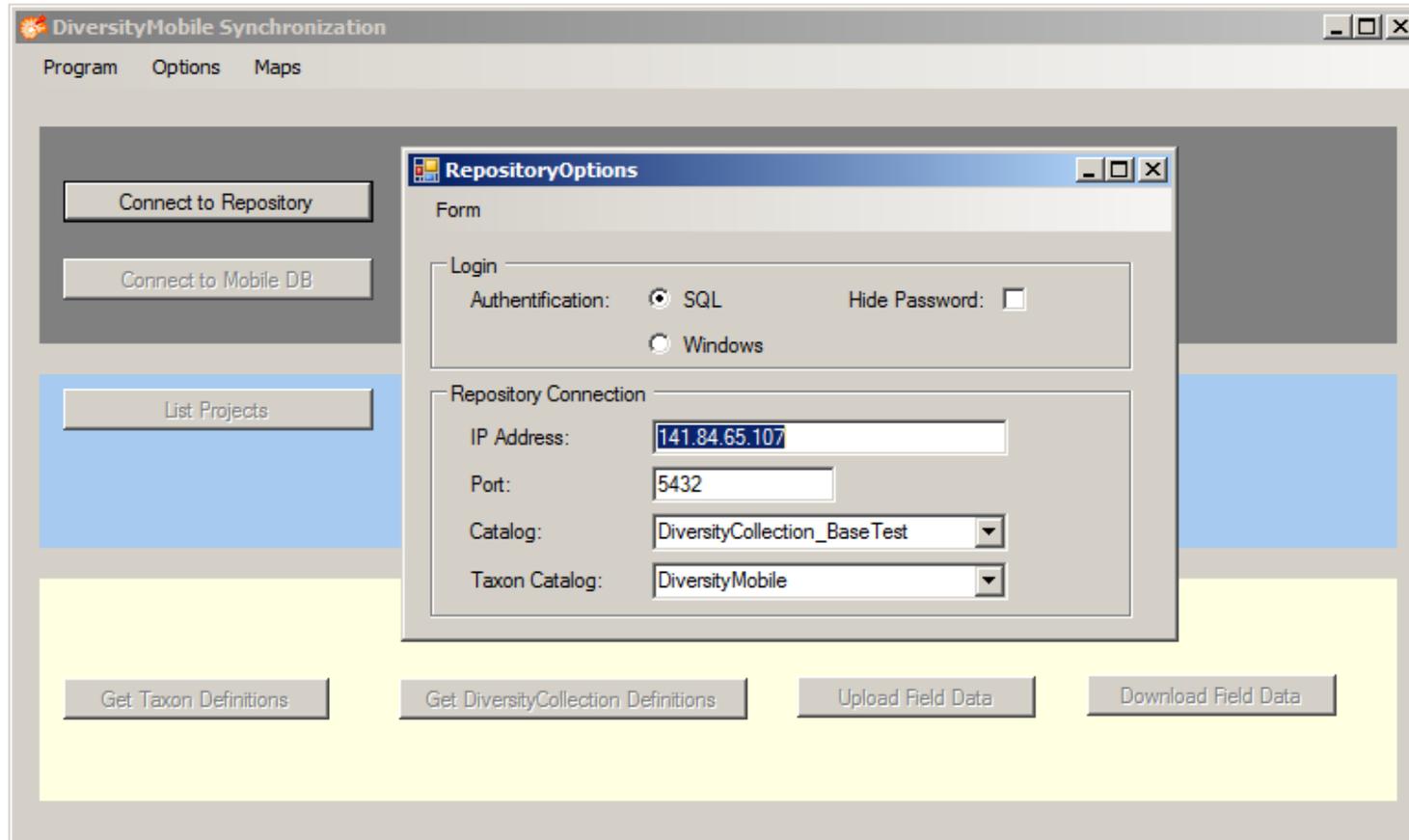
- Jeder Nutzer ist einem Projekt zugeordnet.
- Die Auswahl des Projektes ist entscheidend für die auswählbaren Daten.



Mögliche Aktionen

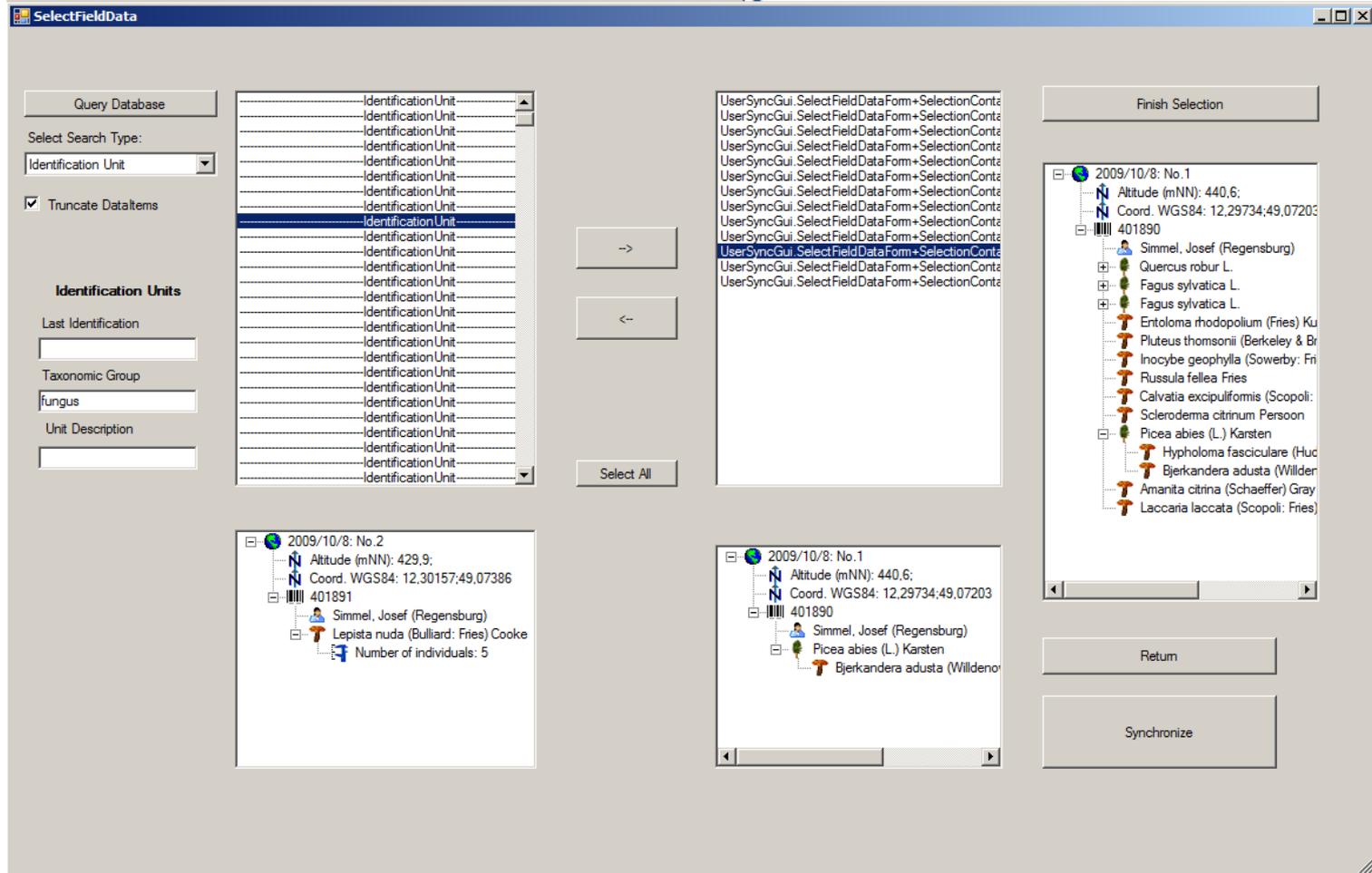
- Auf der Aktionsseite können verschiedene Aktionen zum Datentransfer gewählt werden.





Auswahl von Daten

- Es können Daten aus dem eigenen Projekt mit anderen Projektteilnehmern ausgetauscht werden.



Auswahl von Daten

Ergebnis der Suchanfrage

Aktuelle Auswahl

Komplettdarstellung der Datenauswahl

The screenshot shows the 'SelectFieldData' application interface with three panels illustrating the selection process:

- Ergebnis der Suchanfrage (Search Results):** A list of 'Identification Unit' entries. Below the list, a detailed view for '2009/10/8: No.2' is shown, including altitude (429.9), coordinates, and a list of species: Simmel, Josef (Regensburg), Lepista nuda (Bulliard: Fries) Cooke, and Number of individuals: 5.
- Aktuelle Auswahl (Current Selection):** A list of 'UserSyncGui.SelectFieldDataForm+SelectionContz' entries. Below the list, a detailed view for '2009/10/8: No.1' is shown, including altitude (440.6), coordinates, and a list of species: Simmel, Josef (Regensburg), Picea abies (L.) Karsten, and Bjerkandera adusta (Willdenow).
- Komplettdarstellung der Datenauswahl (Full Data Display):** A detailed view for '2009/10/8: No.1' showing a comprehensive list of species: Quercus robur L., Fagus sylvatica L., Entoloma rhodopolium (Fries) Ku, Pluteus thomsonii (Berkeley & Br), Inocybe geophylla (Sowerby: Fri), Russula fellea Fries, Calvatia excipuliformis (Scopoli: Persoon), Scleroderma citrinum Persoon, Picea abies (L.) Karsten, Hypholoma fasciculare (Hud), Bjerkandera adusta (Willdenow), Amanita citrina (Schaeffer) Gray, and Laccaria laccata (Scopoli: Fries).

Navigation buttons include 'Finish Selection', 'Return', and 'Synchronize'. A 'Select All' button is also present between the first and second panels.

Kartenmaterial

- Anbindung an Google-Maps
- Die GPS-Daten der Ecken werden gespeichert.
- Somit kann die Karte auf dem Mobilgerät verwendet werden.

```

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