MTX Database
History

MTX is about spatially referenced project based ecological data

- **Originally named for the many taxa-based studies housed**
- **Includes much more**
  - **Habitat**
  - **Weather**
  - **Chemical/Physical properties, etc.**
  - **Negative data**
- **Data are integrated but have record level metadata**
  - **Data can be meaningfully queried across studies**
  - **Data have lifetime in database beyond project end**
  - ***Data have controlled access***

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MTX Database
Overview

- **Relational database**
  - Microsoft SQL Server 2008
- **History tables capture all data changes and deletions**
- **Data are backed up to the minute**
- **Security**
  - ALL users must have an account to login to MTX
  - Then must have permission on each separate project
  - Similar concept to be applied to website login (more on this later…)
- **Data Dictionary defines the tables and fields. Formalization and completion is on-going.**
  - Tables and fields affected by SDMMP datasets will be completed.
- **Look up lists (tables) often used to enforce value domains for fields.**

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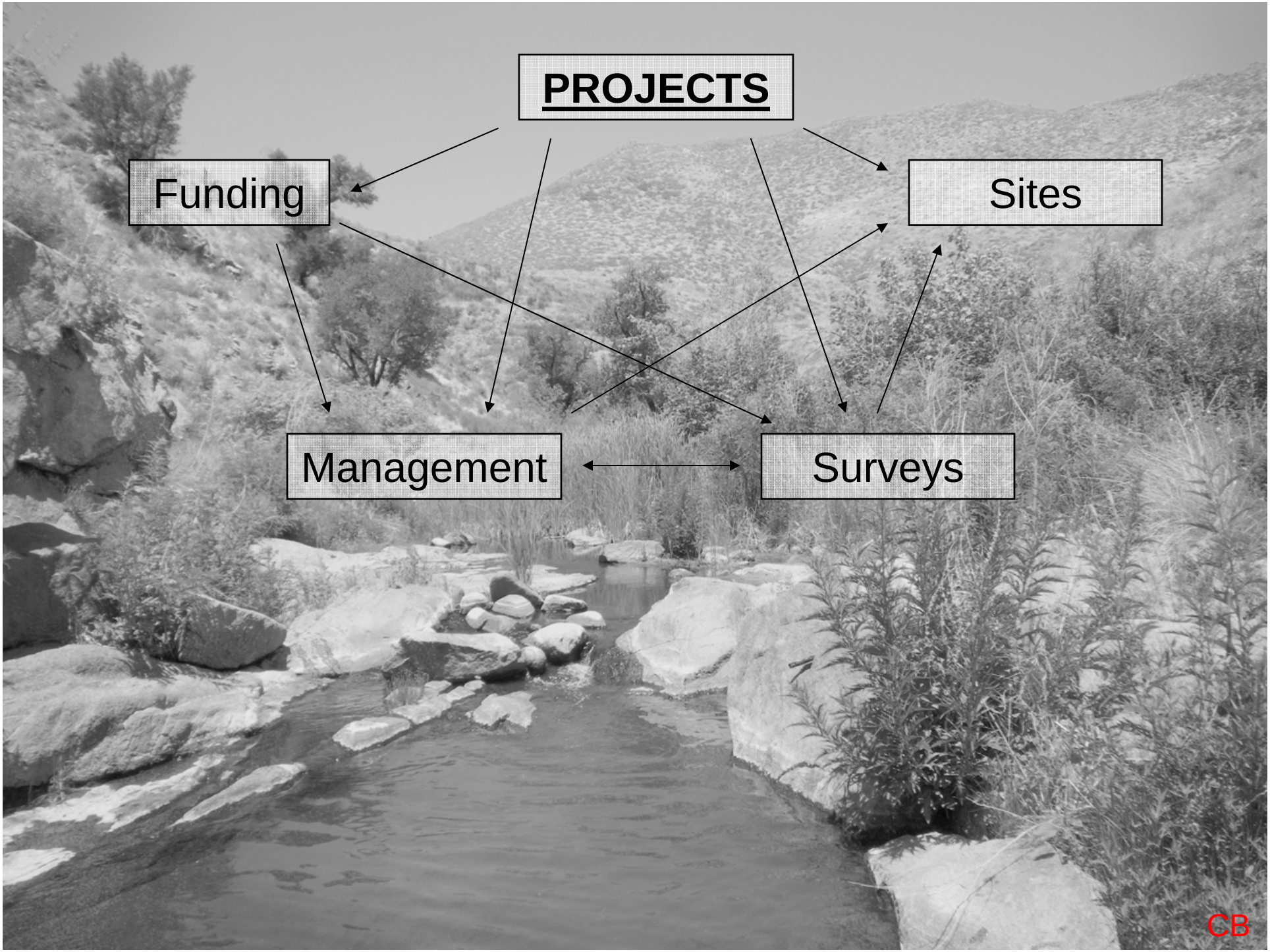
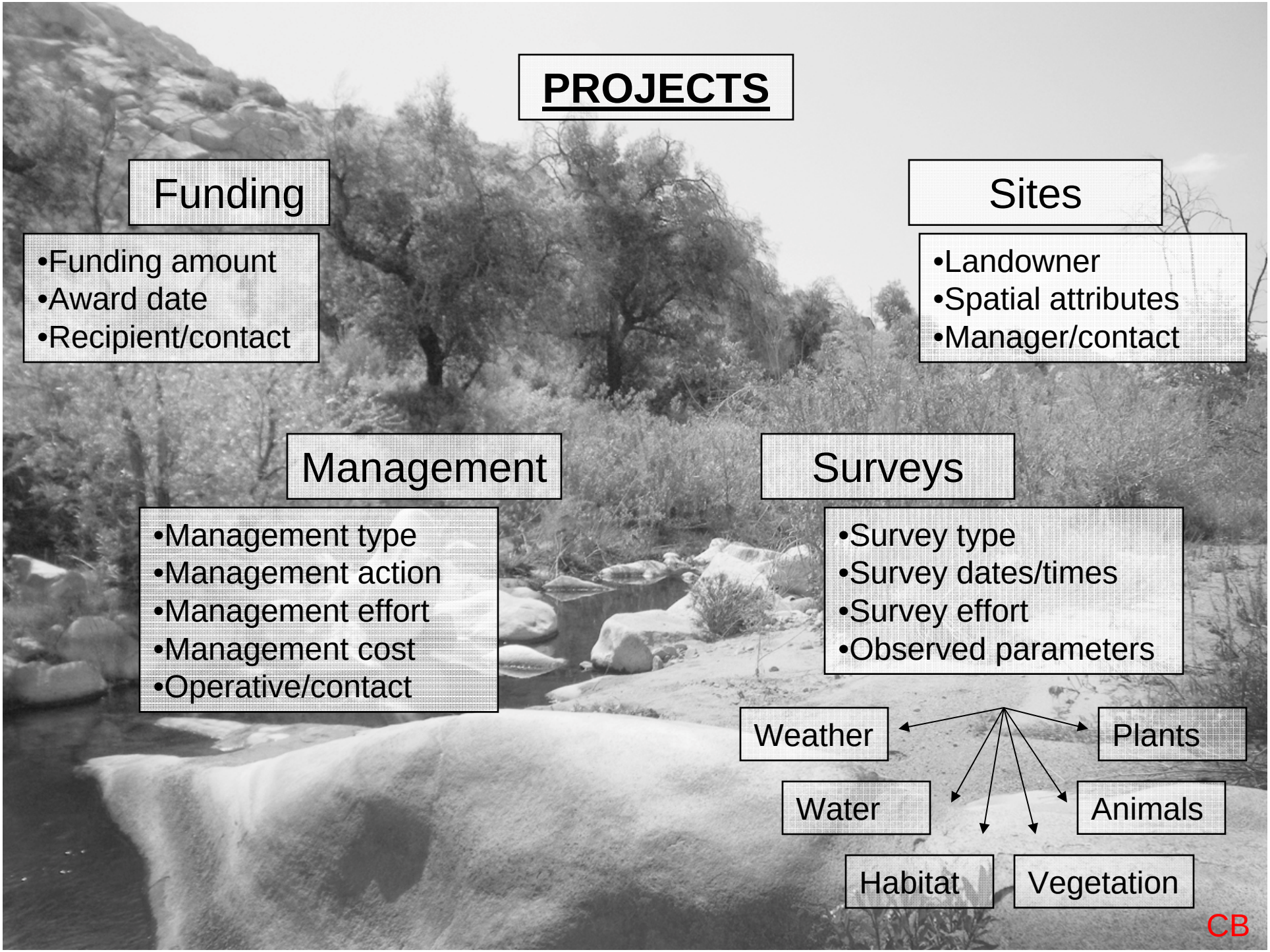

PROJECTS
Funding
Sites
Management
Surveys
CB


PROJECTS
Funding
•Funding amount
•Award date
•Recipient/contact
Sites
•Landowner
•Spatial attributes
•Manager/contact
Management
•Management type
•Management action
•Management effort
•Management cost
•Operative/contact
Surveys
•Survey type
•Survey dates/times
•Survey effort
•Observed parameters
Weather
Plants
Water
Animals
Habitat
Vegetation
CB

MTX Database
Enhancements

SDMMP standards

- **Fields defined consistently across projects**
  - **in terms of meaning and domain (allowable values)**
  - **Adhere to Data Dictionary**
- **“Minimum”/required fields established (templates…)**
- **Datatype and size**

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MTX Database
Enhancements

Templates

- **Spreadsheet templates used for submitting survey data to SDMMP**
  - **“minimum”/required fields identified**
  - **Ensure smooth migration of data to MTX**
  - **More on templates in a few minutes…**

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MTX Database
Enhancements

Website Portal

- **Public access via internet!**
- **Password protected access to sensitive data**

- **Select project data**
  - **View it on screen**
  - **Download as file**

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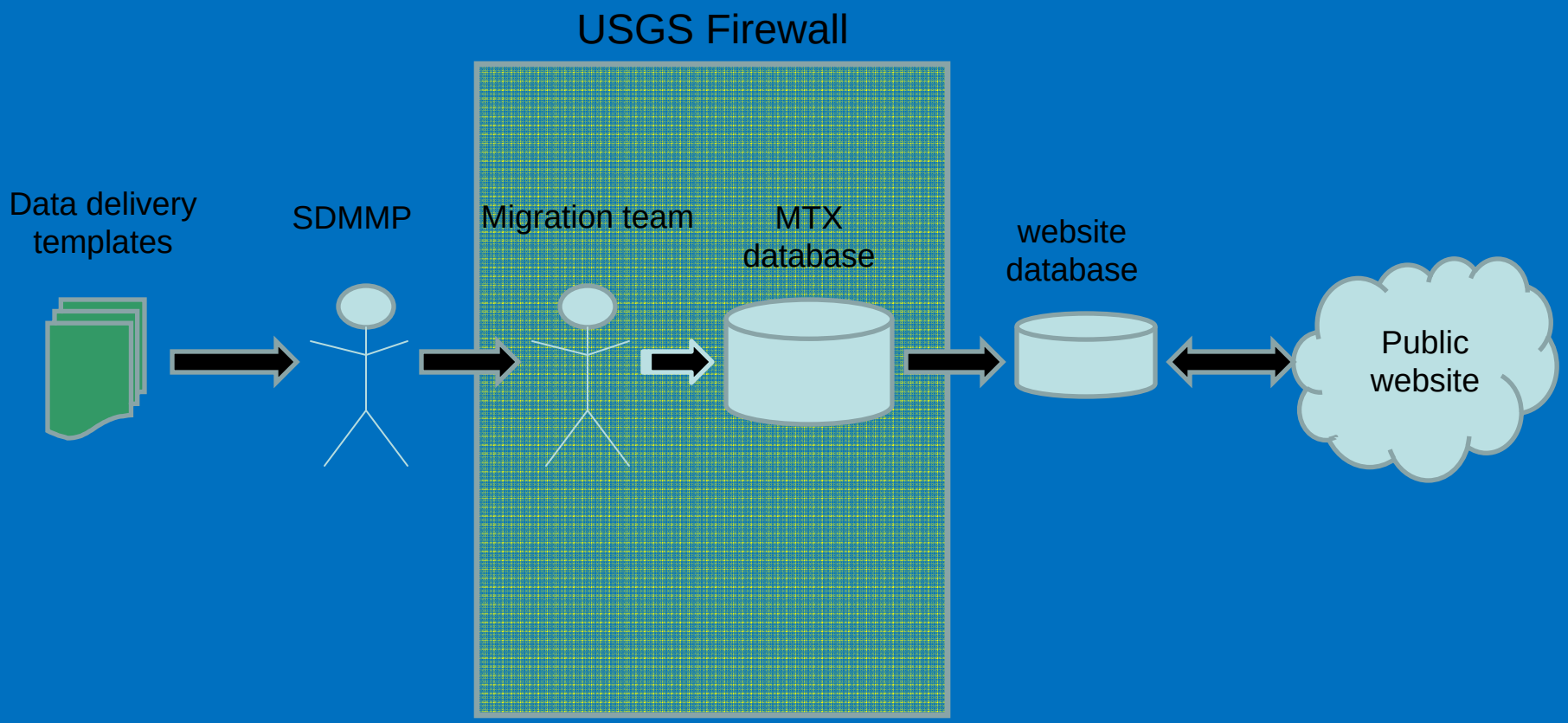
MTX Database
Enhancements

Survey data workflow



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