Managing your Distributed Data
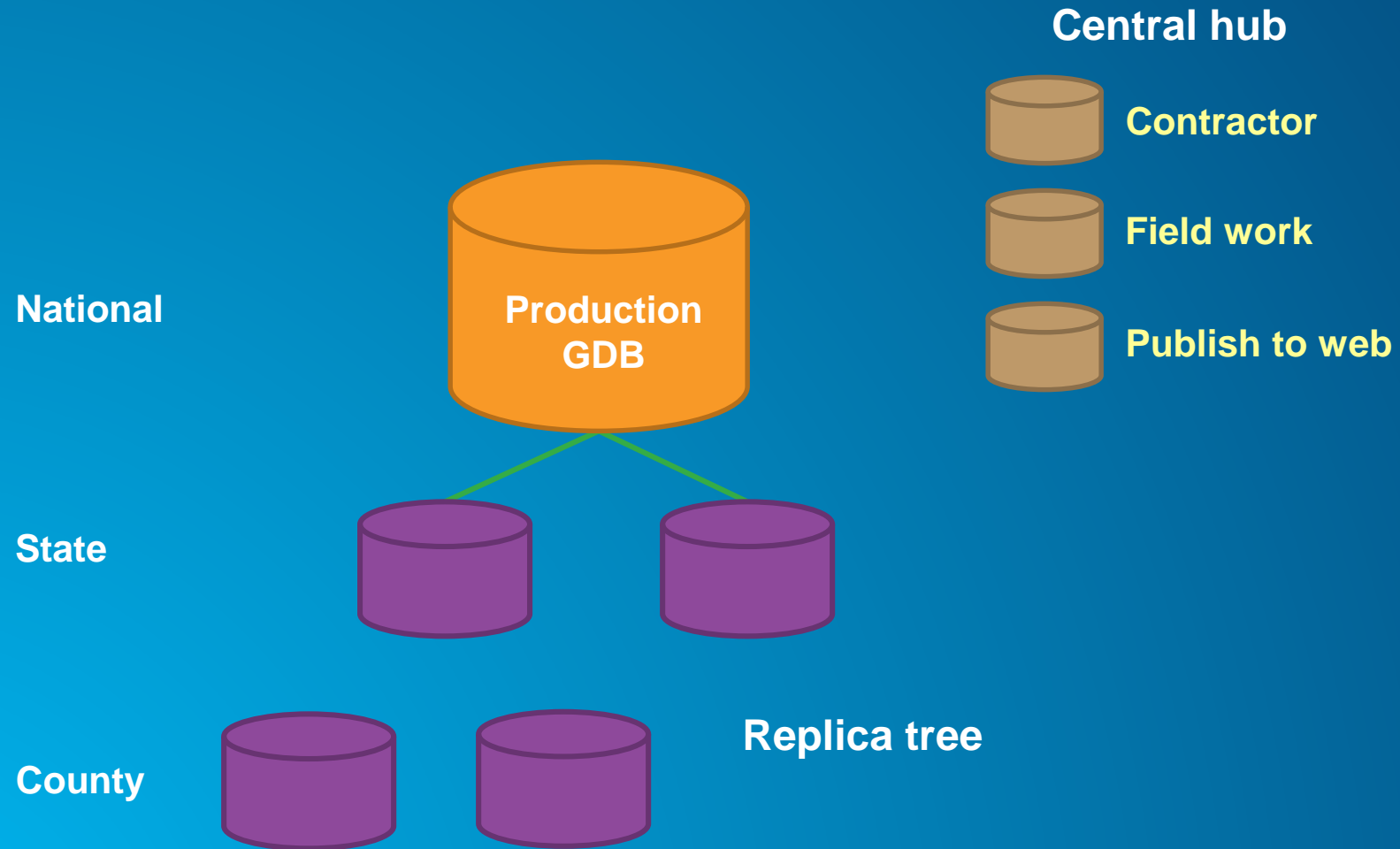
John Thieling

Jim Gough

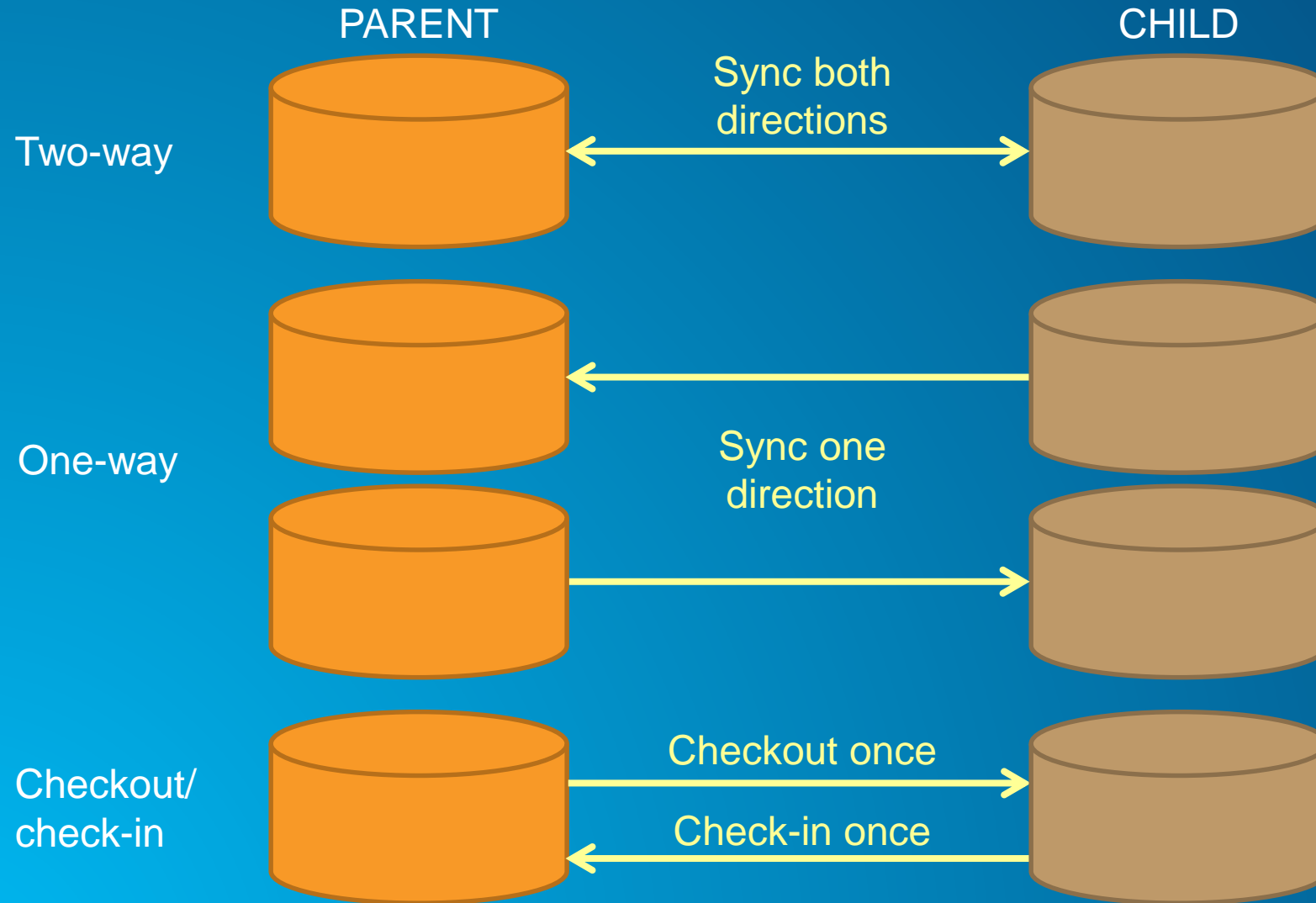# Overview

Why Distribute Data → Geodatabase Replication → Sync Engine (Offline Editing for Mobile Apps)

Why Distribute Data

Central hub

Contractor

Field work

Publish to web

Production GDB

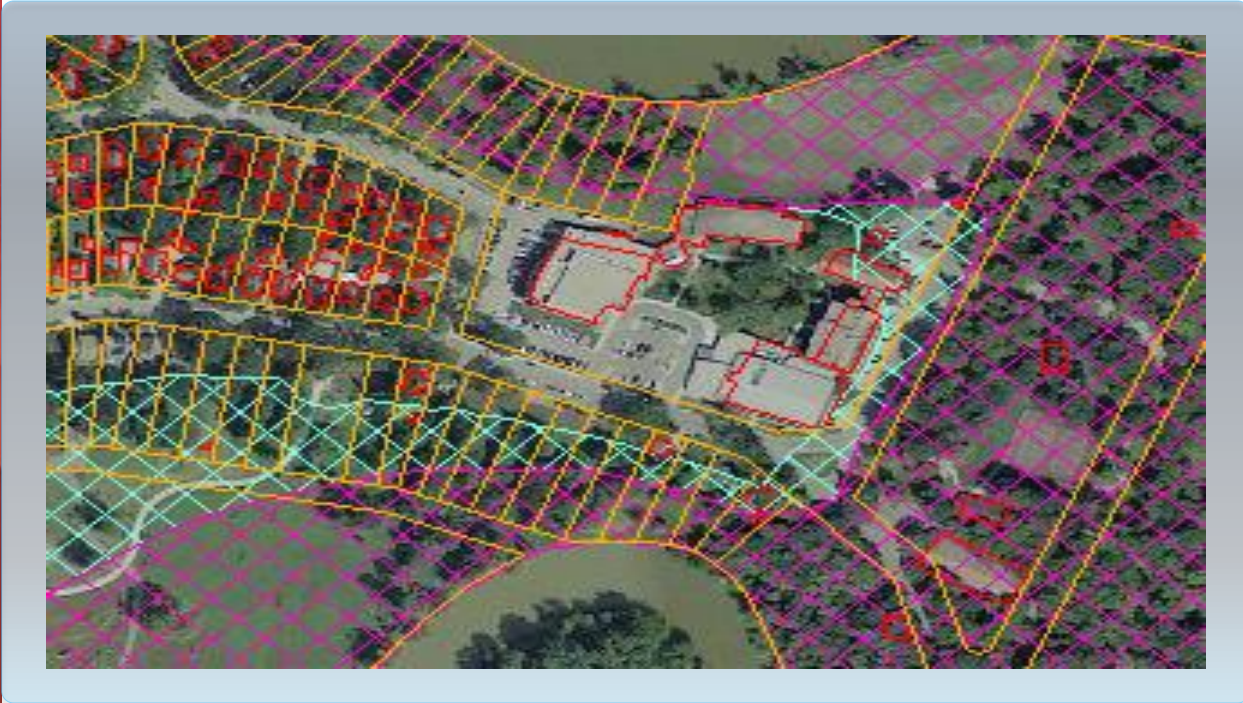**National**

State

Replica tree

County

Geodatabase Replication Overview

- Distribute data across 2 or more geodatabases

- Replica Pair

- Geodatabases are edited independently

- Synchronize edits
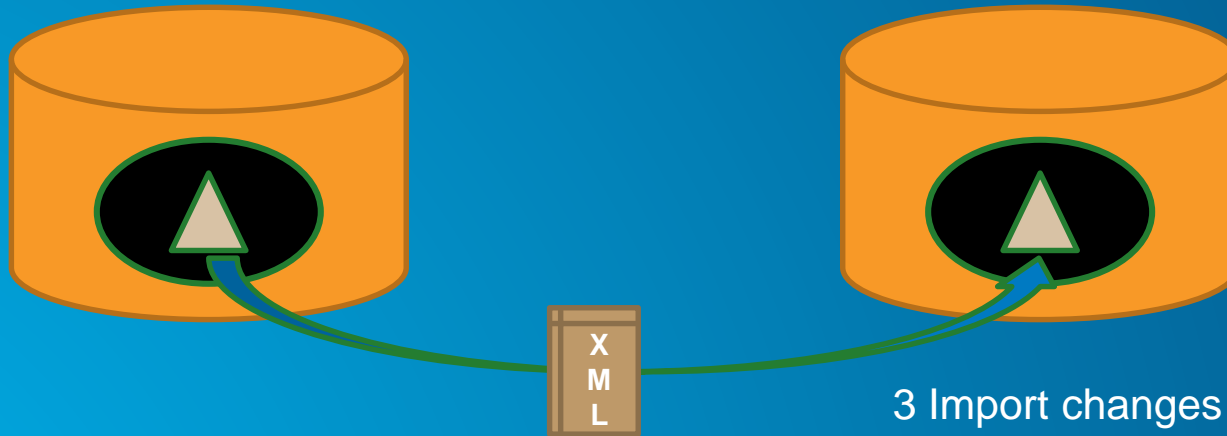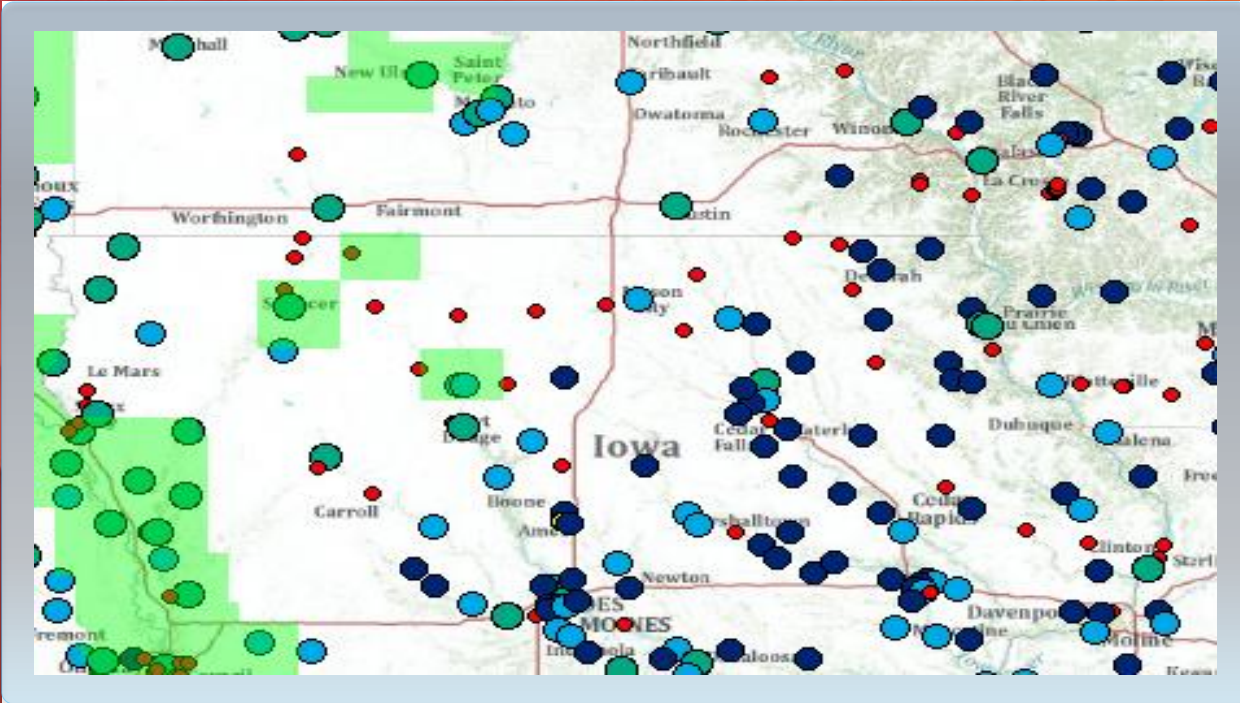
Three types of replication
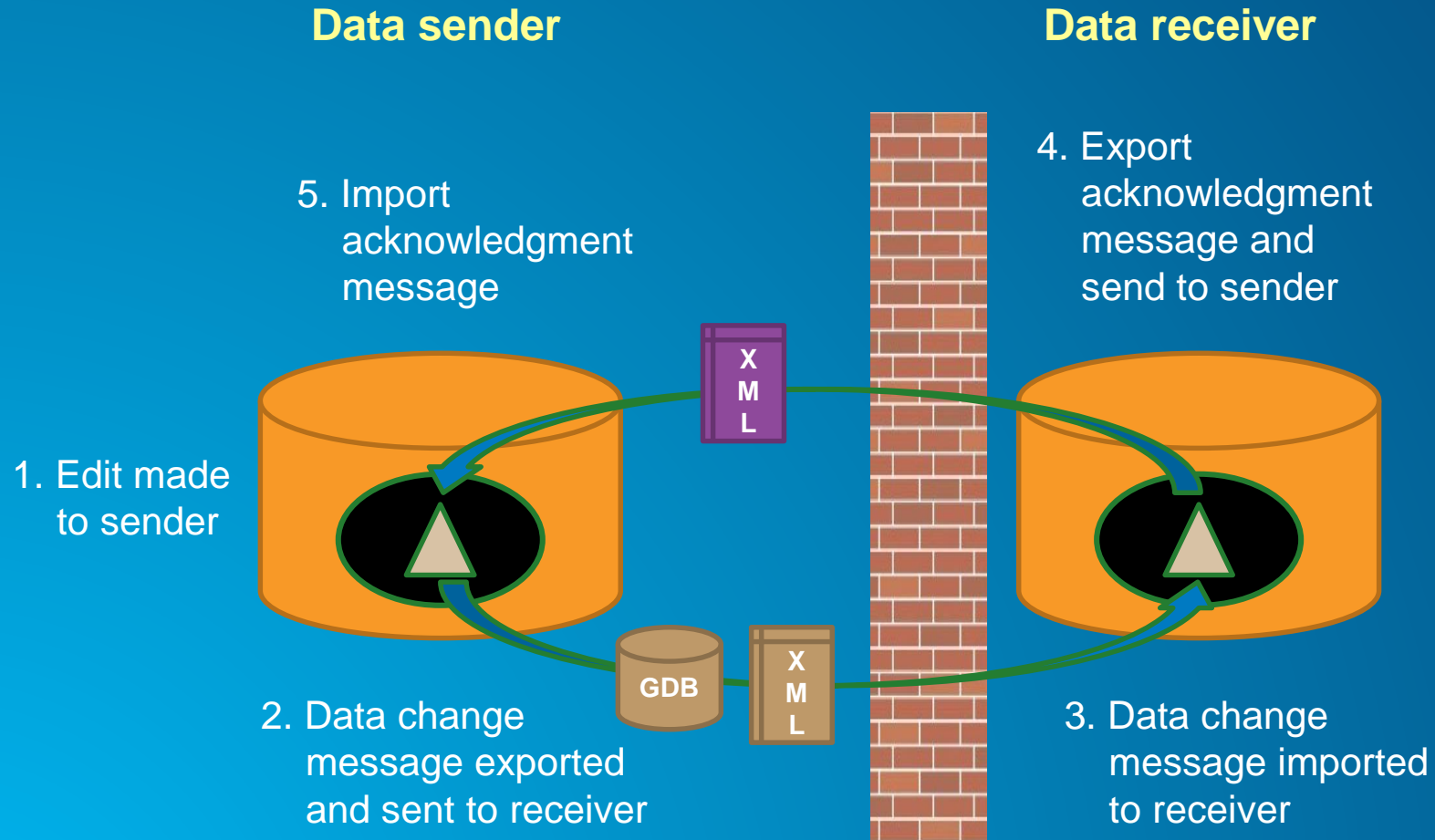
Replication Demo
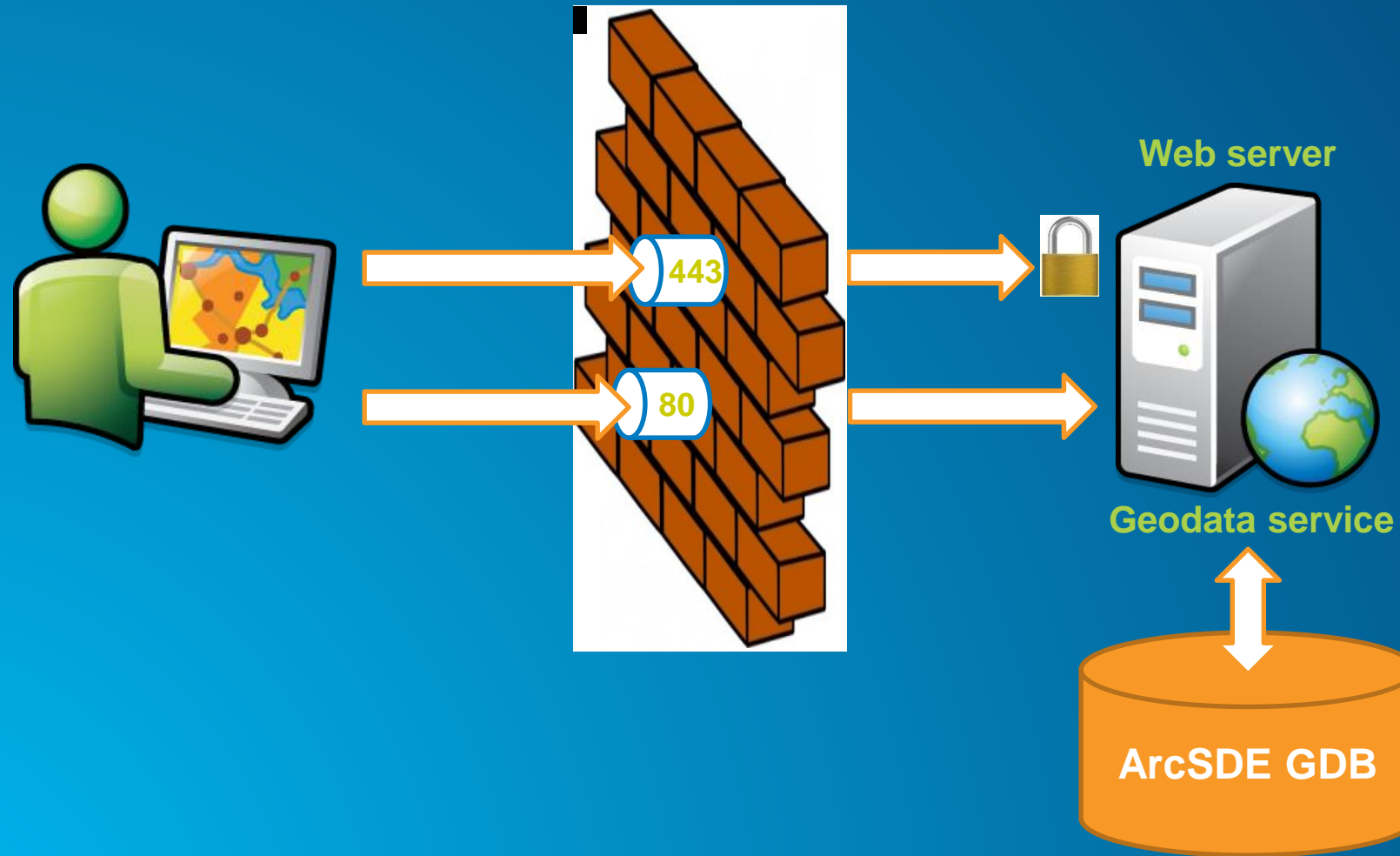
Schema Changes

1 Compare schemas
2 Export changes

X
M
L

3 Import changes

Schema
Changes
Demo

Disconnected replication

Data sender

Data receiver

5. Import acknowledgment message

4. Export acknowledgment message and send to sender

X M L

1. Edit made to sender

GDB

X M L

2. Data change message exported and sent to receiver
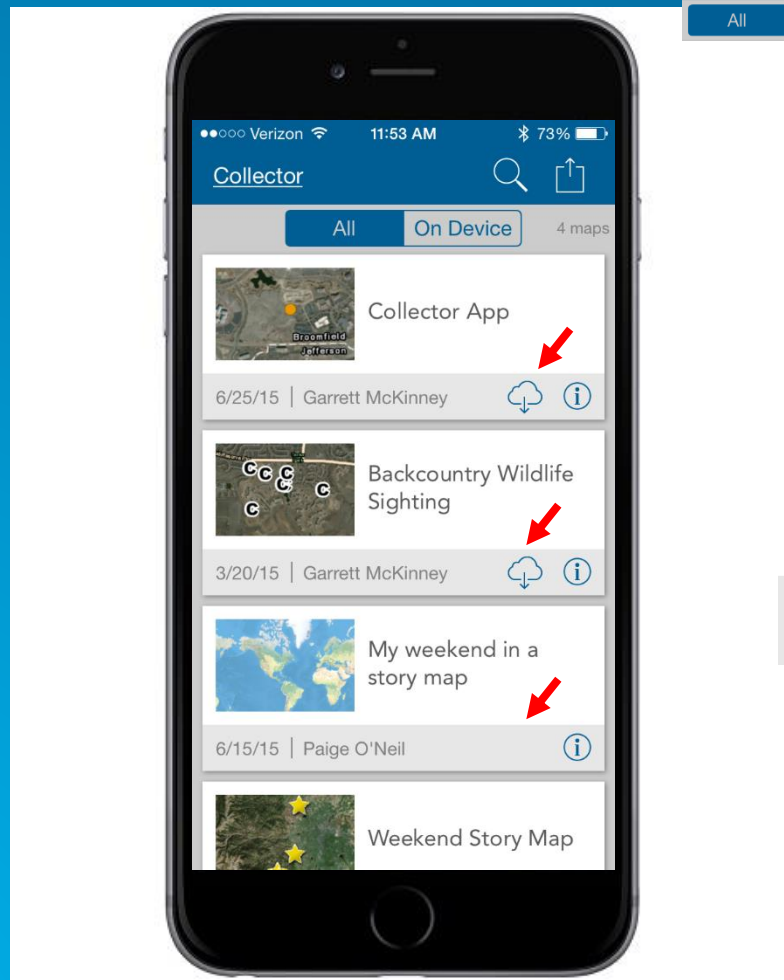
3. Data change message imported to receiver

How does a geodata service work?

Replication using a Geodata Service Demo

Webmaps the user has permissions to

Toggle between all maps and maps saved to your device

- **Cloud with down arrow indicates web map is offline capable**

- **Cloud with arrows going up and down indicate map is downloaded to device**

- **Cloud with a value in red indicates edits have been made and are available for syncing**

esri | THE SCIENCE OF WHERE