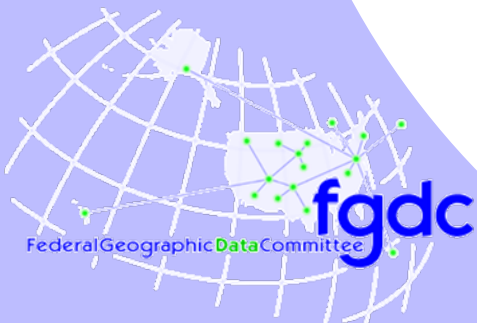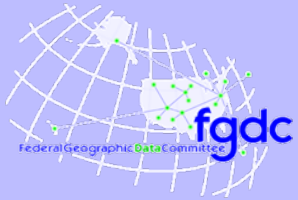# Introduction to Metadata
What is Metadata?

An overview of geospatial metadata, presentation formats, and role as a critical data component

fgdc
Federal Geographic Data Committee
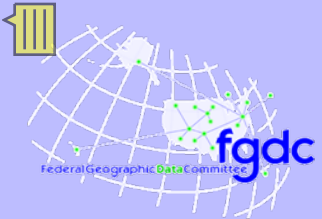
fgdc
Federal Geographic Data Committee

Learning Objectives

After completing this module the student can:

- ▶ explain the concept of metadata through the use of analogies

- ▶ describe metadata as the contextual component of the data set

- ▶ explain the role of metadata in the National Spatial Data Infrastructure

What is Metadata?

Data 'reporting'

- **WHO** created the data?

- **WHAT** is the content of the data?

- **WHEN** was it created?

- **WHERE** is it geographically?

- **HOW** was the data developed?

- **WHY** was the data developed?

What is Metadata ?

title ——————

supplemental
information

abstract ———————

time period

author

sources

(file) size

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What is Metadata?

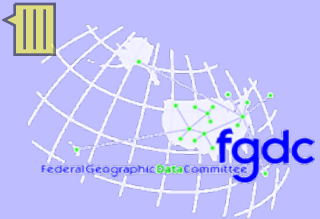entity

attributes

Nutrition Facts

Serving Size ½ cup (114g)
Servings Per Container 4

Amount Per Serving

Calories 90   Calories from Fat 30

	% Daily Value*
Total Fat 3g	**5%**
Saturated Fat 0g	**0%**
Cholesterol 0mg	**0%**
Sodium 300mg	**13%**
Total Carbohydrate 13g	**4%**
Dietary Fiber 3g	**12%**
Sugars 3g	
Protein 3g	

Vitamin A 80%	•	Vitamin C 60%
Calcium 4%	•	Iron 4%

* Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:

		Calories:	2,000	2,500
Total Fat	Less than		65g	80g
Sat Fat	Less than		20g	25g
Cholesterol	Less than		300mg	300mg
Sodium	Less than		2,400mg	2,400mg
Total Carbohydrate			300g	375g
Dietary Fiber			25g	30g

Calories per gram:
Fat 9 • Carbohydrate 4 • Protein 4

national spatial data infrastructure training program

Metadata Formats

document type   presentation

then

text

html

now

xml

xsl

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Exercise
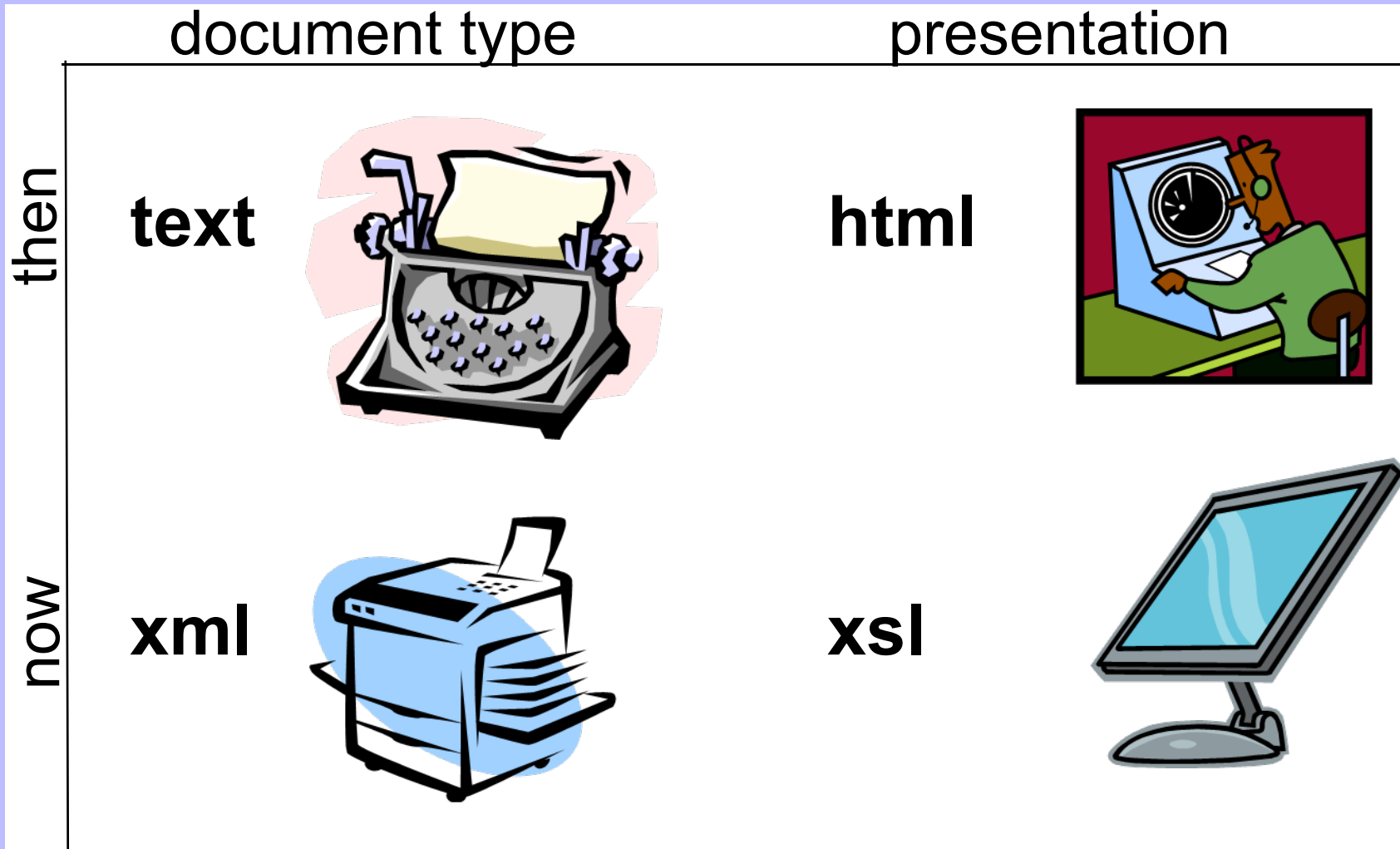
Create metadata about another participant or co-worker
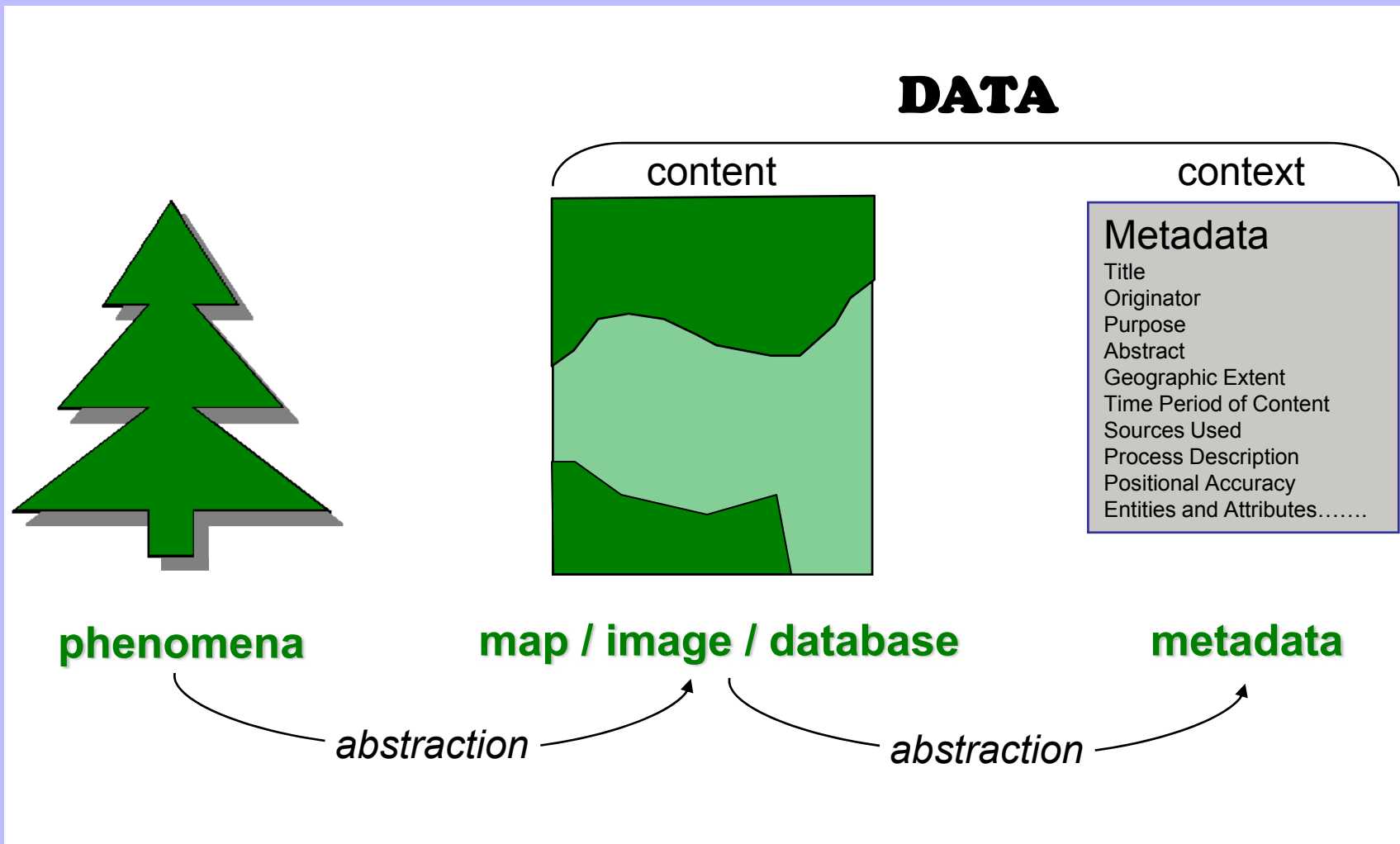
Title:

individuals name

Theme Keywords:

expertise (professional and personal)
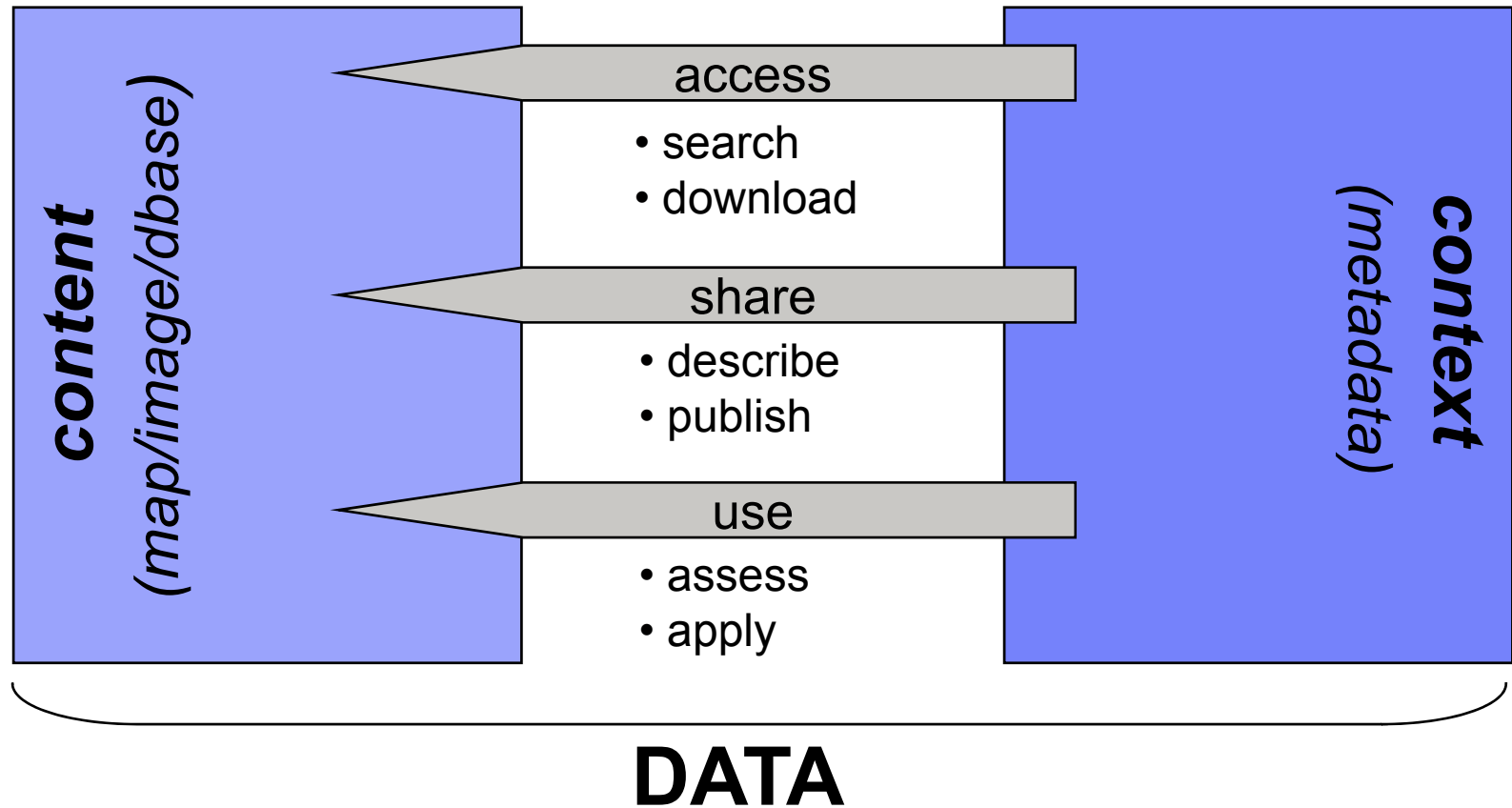
Supplemental Information:

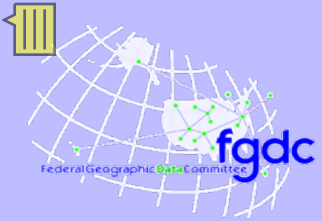special skills, event, history, or quality that makes him/her unique

Metadata as a Data Component

DATA

content | context

Metadata
Title
Originator
Purpose
Abstract
Geographic Extent
Time Period of Content
Sources Used
Process Description
Positional Accuracy
Entities and Attributes…….

phenomena   **map / image / database**   **metadata**

abstraction   *abstraction*

Metadata as a Data Component

content
(map/image/dbase)

context
(metadata)

access
- search
- download

share
- describe
- publish

use
- assess
- apply

DATA
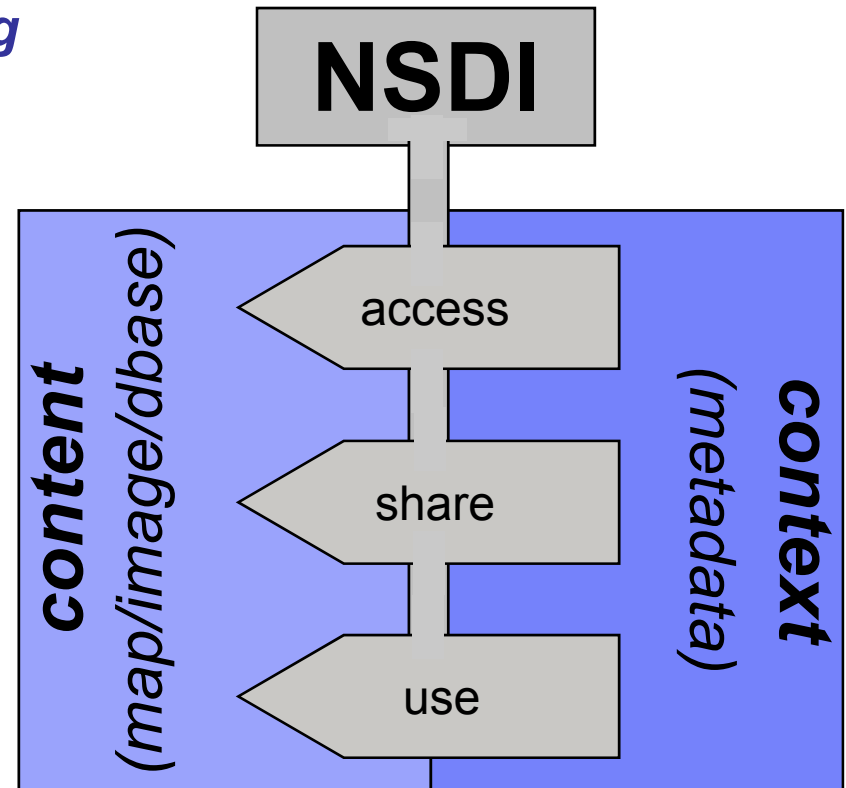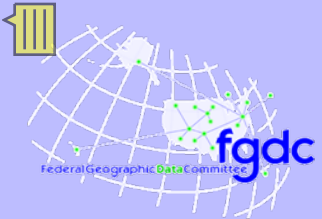
Metadata: Building Block of the NSDI

National Spatial Data Infrastructure

*…a set of actions and new ways of **accessing, sharing** and **using** geographic data that enables far more comprehensive analysis of data to help decision-makers choose the best course(s) of action.*

NSDI

content
(map/image/dbase)

access

share

use

context
(metadata)

Metadata: Building Block of Your OWN

Summary
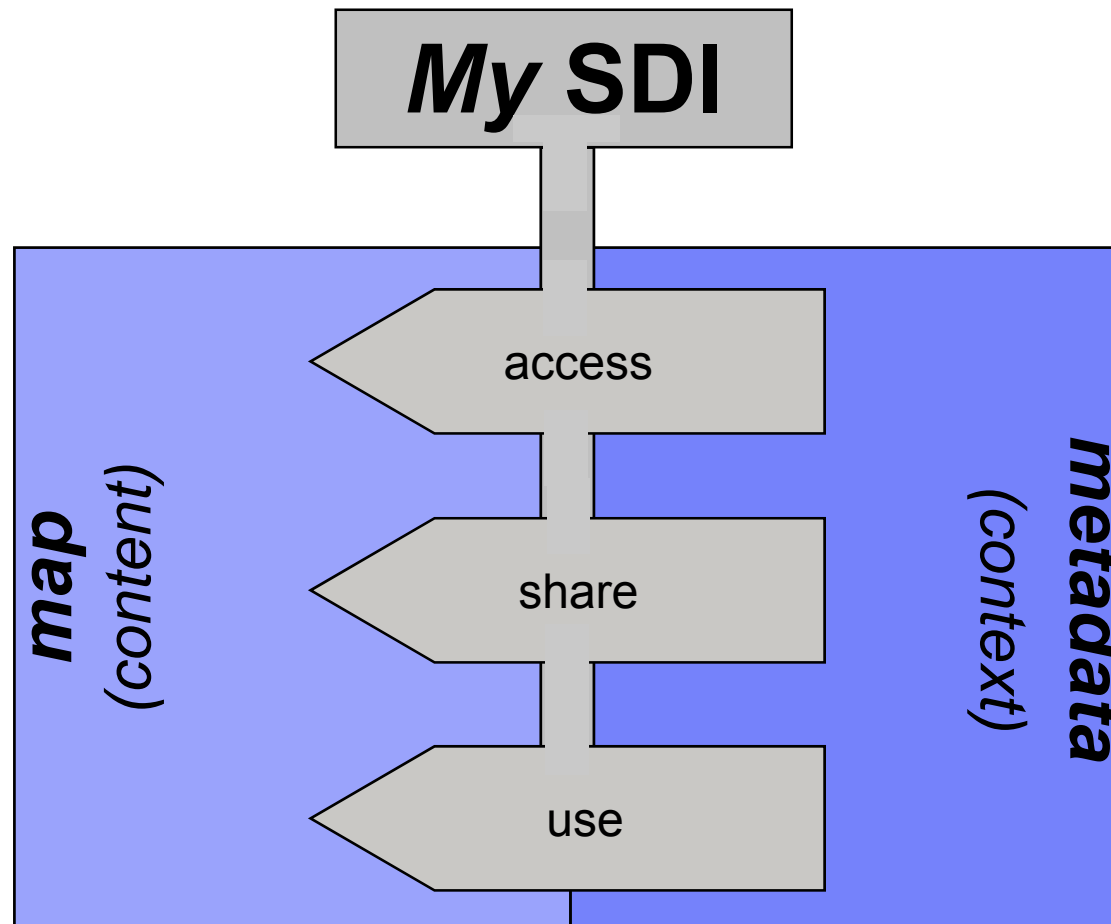
This is the conclusion of: What is Metadata. You should be able to:

- ▶ explain the concept of metadata through the use of analogies

- ▶ describe metadata as the contextual component of the data set

- ▶ explain the role of metadata in the National Spatial Data Infrastructure

Other Lessons

<u>Geospatial Metadata</u>

The Value of Metadata

North American Profile Development of ISO 19115

More metadata lessons coming soon.