







Q



Home ► All Journals ► Information Science ► Journal of Map & Geography Libraries ► List of Issues Volume 11, Issue 2 ► A Needs-Assessment Process for Designing

Journal of Map & Geography Libraries >

Advances in Geospatial Information, Collections & Archives

Volume 11, 2015 - Issue 2: Geospatial Data Management, Curation, and Preservation

370 2 Views CrossRef citations to date Altmetric **Original Articles**

A Needs-Assessment Process for Designing Geospatial Data Management Systems within Federal Agencies

Jordan W. Smith , William S. Slocumb, Charlynne Smith & Jason Matney

Pages 226-244 | Published online: 04 Sep 2015

66 Cite this article ▶ https://doi.org/10.1080/15420353.2015.1048035



Sample our Information Science journals, sign in here to start your FREE access for 14 days

Full Article

Figures & data

References

66 Citations

Metrics

➡ Reprints & Permissions

Read this article

Share

Abstract

Many federal agencies face challenges with designing geospatial data management systems. This paper presents and documents a needs-assessment process that can be employed to prioritize agencies' geospatial information needs; identify agencies' capacity to manage a centralized geodatabase; determine agencies' capacity to deliver Web-mapping services to the public; and identify barriers, such as data security and limited financial resources, that constrain agencies' ability to design and manage a geospatial data management system. The paper details the needs-assessment process and documents its application to the National Park Service (NPS) Conservation and Outdoor Recreation (COR) Branch programs. The NPS COR Branch is comprised of nine disparate programs, such as the National Trails System and the Rivers, Trails, and Conservation Assistance program, each of which has specific geospatial data management and delivery needs. The needs-assessment process, tested through its application to the NPS COR Branch programs, provides a comprehensive and logical

workflow for system developers and administrators to use as they create or refine geospatial data management systems.

KEYWORDS:



Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up











Accessibility



Copyright © 2025 Informa UK Limited Privacy policy Cookies Terms & conditions



Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG