

# STANDARDIZATION OUTLINE



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# Reasons for Standards



## Portability of applications

need the ability to move developed applications to new hardware platforms in order that development efforts are not duplicated and can be shared

## Data networks

need ability to access digital data which is distributed through various offices and agencies

## Common environments

if applications use similar operating environments, learning curves are reduced and productivity is increased



# Why Are Geo-Information (GI) Standards Necessary?



- For data documentation, collection and exchange of geospatial data



# Who Wants GI Standards ?



- all businesses that produce, distribute or utilise spatial information benefit from spatial standards
- ranges from decision support, data warehousing to modelling and simulation
- application areas include automated mapping, geo-engineering, computed-aided drafting and design which support planning and infrastructures such as communication, transportation and utilities



# Objectives Of ISO / TC 211



- increase the understanding and usage of geographic information
- increase the availability, access, integration, and sharing of geographic information
- promote the efficient, effective, and economic use of digital geographic information and associated hardware and software system
- contribute to a unified approach to addressing global ecological and humanitarian problems



# TYPES OF STANDARDS FOR GIS



- Operating system standards
- User interface standards
- affect the "look and feel" of GIS programs
- Networking standards
- are critical to allow communications between remote computers
- o networked environments are increasingly popular for GIS as the technology and data becomes widely used within organizations



# TYPES OF STANDARDS FOR GIS



- Database query standards
- SQL (standard query language) is emerging as a standard across the data processing spectrum
- Display and plotting standards
- several standards have emerged in this area simply as a result of the popularity of specific hardware devices
- Data exchange standards
- the largest standardization effort is currently being directed at this area



# Strengthening and promotion of Ideal GIS

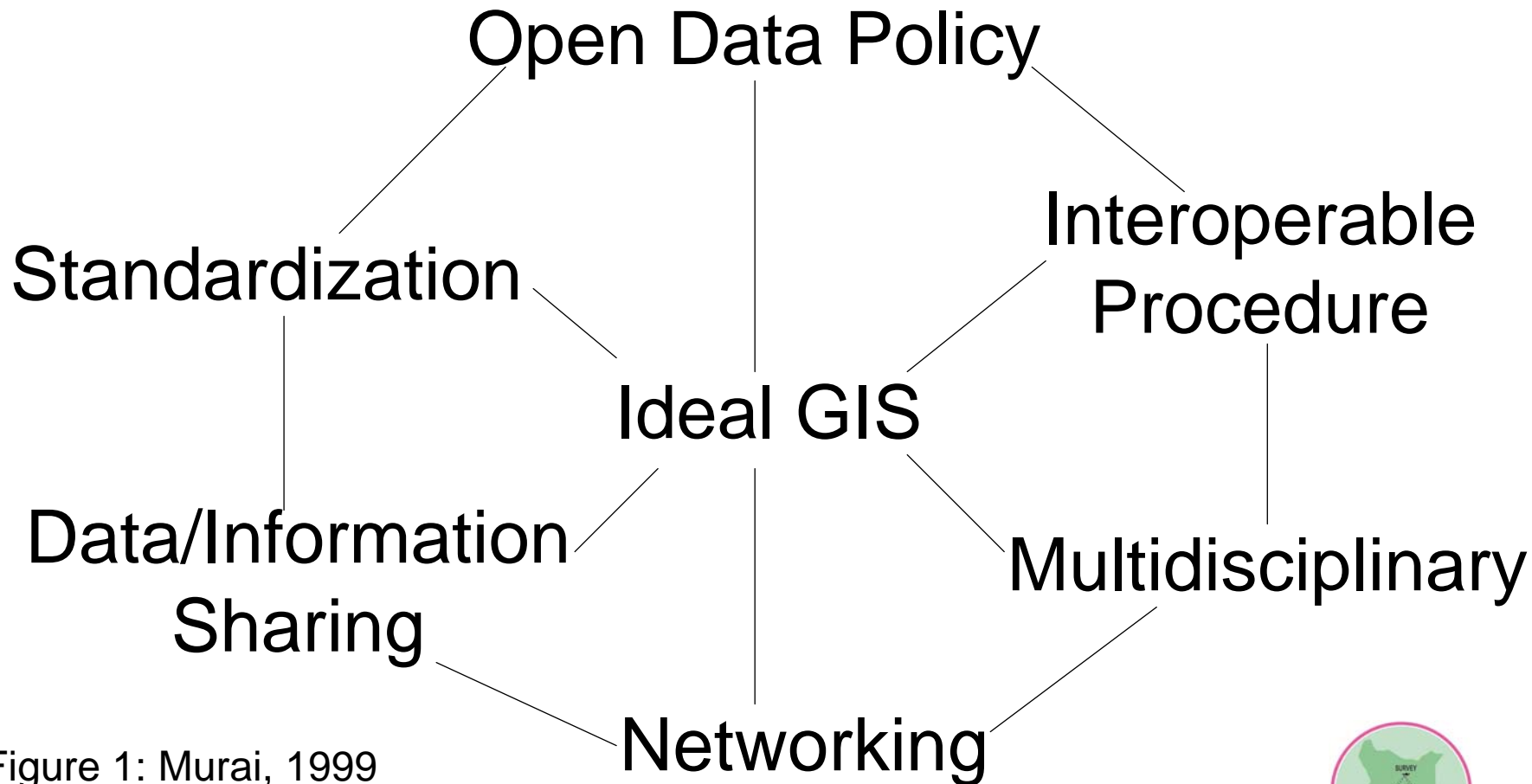
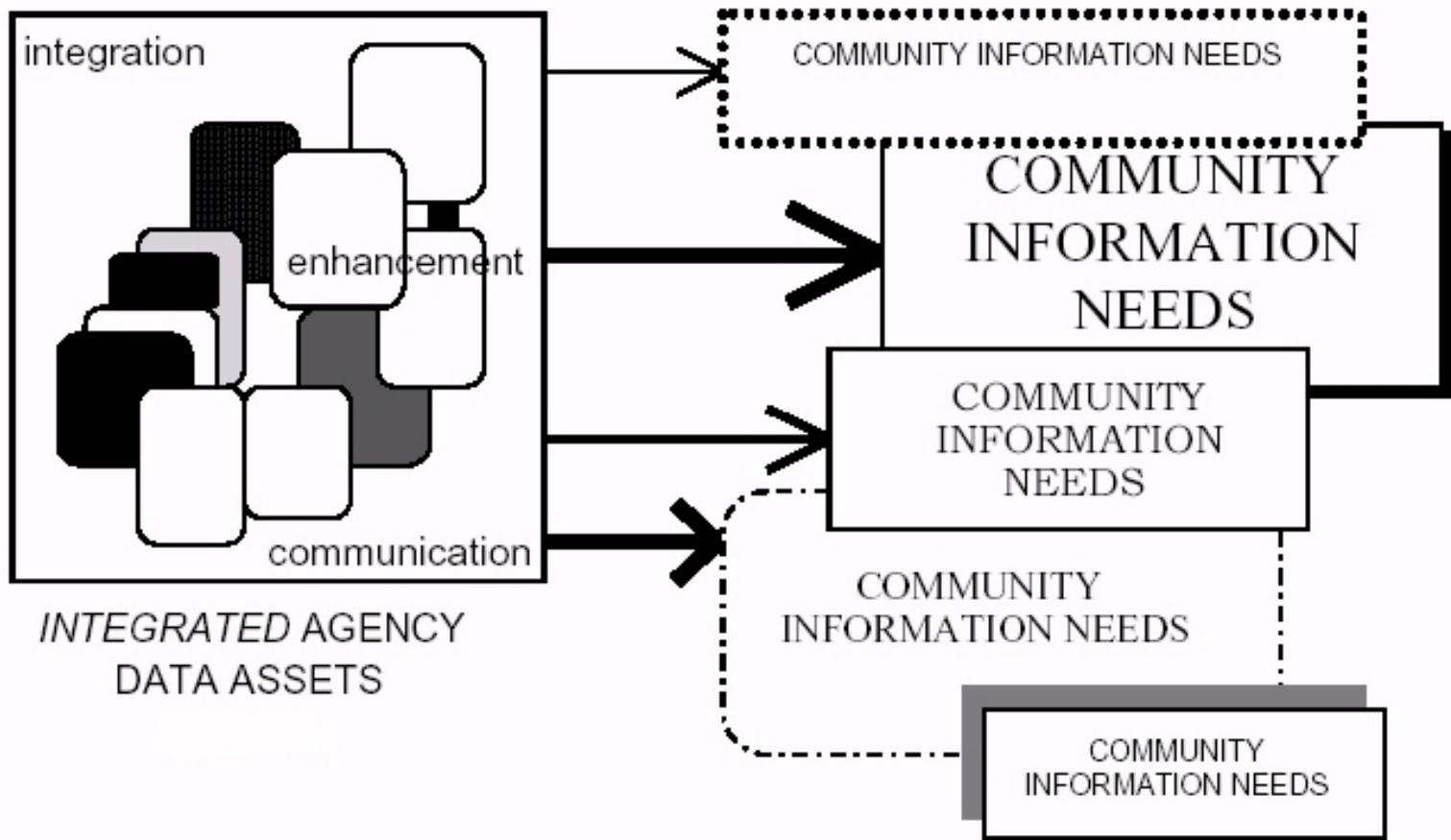


Figure 1: Murai, 1999



# Access of GI data With NSDI Enabled



adapted from CANRI 1999





**THANK YOU**

