



**National Persistent Identifier for Digital Objects system  
(NPIDOS) of National Library and Archives of Islamic  
Republic of Iran (NLAI):  
A project for ensuring preservation of documentary  
heritage for future generations**



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# Introduction



- **Strategic plan of National Library and Archives of Islamic Republic of Iran**
- **Wealth of the documentary heritage**
- **Web Archive of Iran**
- **Digital National Library and Archives of Iran (DNLAI)**
- **long-term preservation**
- **Developing national protocols and standards, virtual infrastructures, strategic cooperation and improving the quality of services**
- **National Persistent Identifier for Digital Objects system (NPIDOS)**



# Persistent Identifiers Systems



- Handle, 1994
- Persistent URL (PURL), 1995
- Uniform Resource Name (URN), 1997
- Digital object identifier (DOI), 1997
- Archival Resource Keys (ARK), 2001
- Extensible Resource Identifier (XRI), 2005

# Handle



## Advantages:

- Stable and well-established
- Independent and interoperable
- Syntax is straightforward
- Adaptable to the different levels of access
- Distributed model
- Scalable

## Disadvantages:

- An initial fee and an annual charge
- Strong emphasis on identifying resources which are openly available
- Optional metadata elements
- The character set for Handles is much broader than is permissible for URIs



# PURL



## **Advantages:**

- Cheap and easy
- Compatible
- Library cataloguing context
- Well-established and widely used
- Scalable

## **Disadvantages:**

- Open, web-based resources
- Access restrictions
- Partial resolution

## **Advantages:**

- Flexible and easy to construct
- Technology independent
- Enabling users to resolve URNs using a standard web browser

## **Disadvantages:**

- Lack of a universal resolver
- Ongoing lack of consensus about the value of URNs
- Not be suitable for dealing with personal digital archives



## **Advantages:**

- Sustainable in the long-term
- Adopted by libraries as well as commercial organizations
- Used in a non-public digital repository environment or dark archive as well as an open environment
- Maximize interoperability

## **Disadvantages:**

- Strong emphasis in the DOI member list on the commercial sector ,or very large information institutions
- Extensive metadata is already produced for each digital object
- To identify only resources & associated with intellectual property transactions

## Advantages:

- Technology independent
- Simple identification scheme
- To identify different types of entity
- Library context
- Closed environment & dark archive or an open publicly-accessible environment
- Importance of organizational commitment
- No commercially motivated background
- More flexible than some of the other PID schemes
- The technical requirements for participation are relatively low
- Can feed into and shape this development

## Disadvantages:

- It is difficult to gauge at this stage how popular and long-lived it might be
- Some elements of the scheme are probably superfluous to the requirements of digital archives
- Duplication of metadata



# Extensible resource identifier (XRI)



- It is difficult to know how many users XRI has independent and interoperable
- A simple tool for describing and discovering resources.
- Based on both URI and IRI
- “Dumbing” IRIs down to URIs

# Strategies to select a Persistent Identifier system



- Technical interoperability among institutions
- Synergy effects it should be noted



# Final results



- Written policy and procedure method
- Ability to set different levels of access,
- Centralized system for assigning identifiers appropriate system for NLAI is ARK

# Final results



- The primary study and selection appropriate system(s)
- Devising the Technical details of the project
- Providing the general infrastructure
- Organizing Working Group/ Preparation of Plans and Policy Committee
- Supplying and Training of specialists for the Plan
- Designing and implementing the software
- Designing and implementing of the information system and services





Thank you.

