

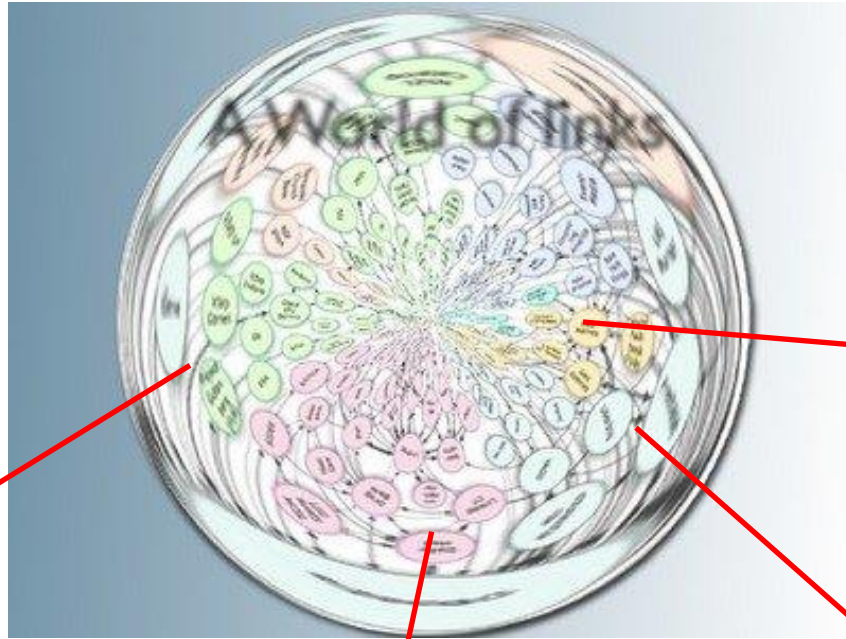
Linked Data @ NLB

Fiesole Retreat

12 Aug 2013



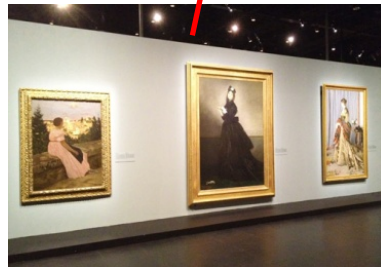
A World of Linked Open Data: enabling data integration on the web



Other..



National Library



Museums



National Archive



Un-linked closed data

Library
Collection

- Collections are **underutilised** because they are not visible enough on the web
- Methods used by libraries, archives, museums, etc. to organise collections are bound to their collections but **not to the larger Web**

Archive
Collection

Museum
Collection

Other
Agency
Collections

Application-specific Origins

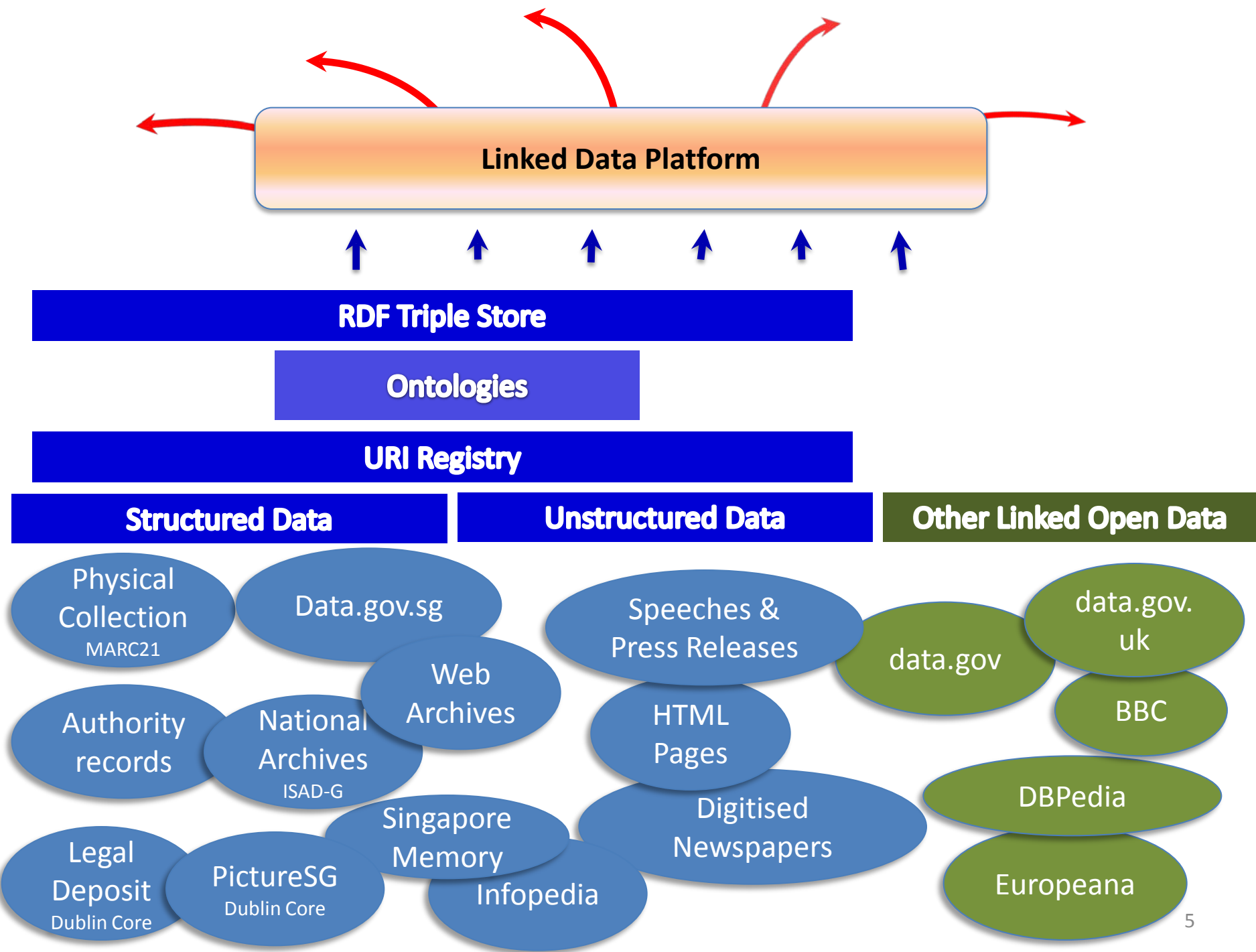
Tightly coupled, less re-usable data:

One-time Use

Deep Linking

Front-end Focus

Data Hardcoding



1



[Surreal objects : three dimensional works from D](#)

2011

2



Descharnes, Robert.
[Salvador Dali : 1904-1989](#)

2010

3



Dali, Salvador, 1904
[Salvador Dali : the late work](#)

2010



4



Klingsohr-Leroy, Cat
[Surrealism](#)

2009

5



Porcu, Costantino.
[Dali](#)

2009

Title [Surreal objects](#) : three dimensional works from Dalí to Man Ray / edited by Ingrid Pfeiffer and Max Hollein ; with contributions by Karoline Hille ... [et al].

Publisher Ostfildern, Germany : Hatje Cantz Verlag, c2011.

Physical 278 p. : ill. (some col.) ; 29 cm.

Description

Notes Published in conjunction with an exhibition at Schirn Kunsthalle Frankfurt, Feb. 11-May 29, 2011.

Other [Hollein, Max.](#)

Contributors

[Pfeiffer, Ingrid.](#)

[Hille, Karoline.](#)

[Schirn Kunsthalle Frankfurt.](#)

Search by [Sculpture, Modern 20th century Exhibitions.](#)

Subjects

[Surrealism Exhibitions.](#)

[Dalí, Salvador, 1904-1989.](#)

[Man Ray, 1890-1976.](#)

Where to find it

Branch

[Lee Kong Chian Reference
Library Lvl 8](#)

Location Date

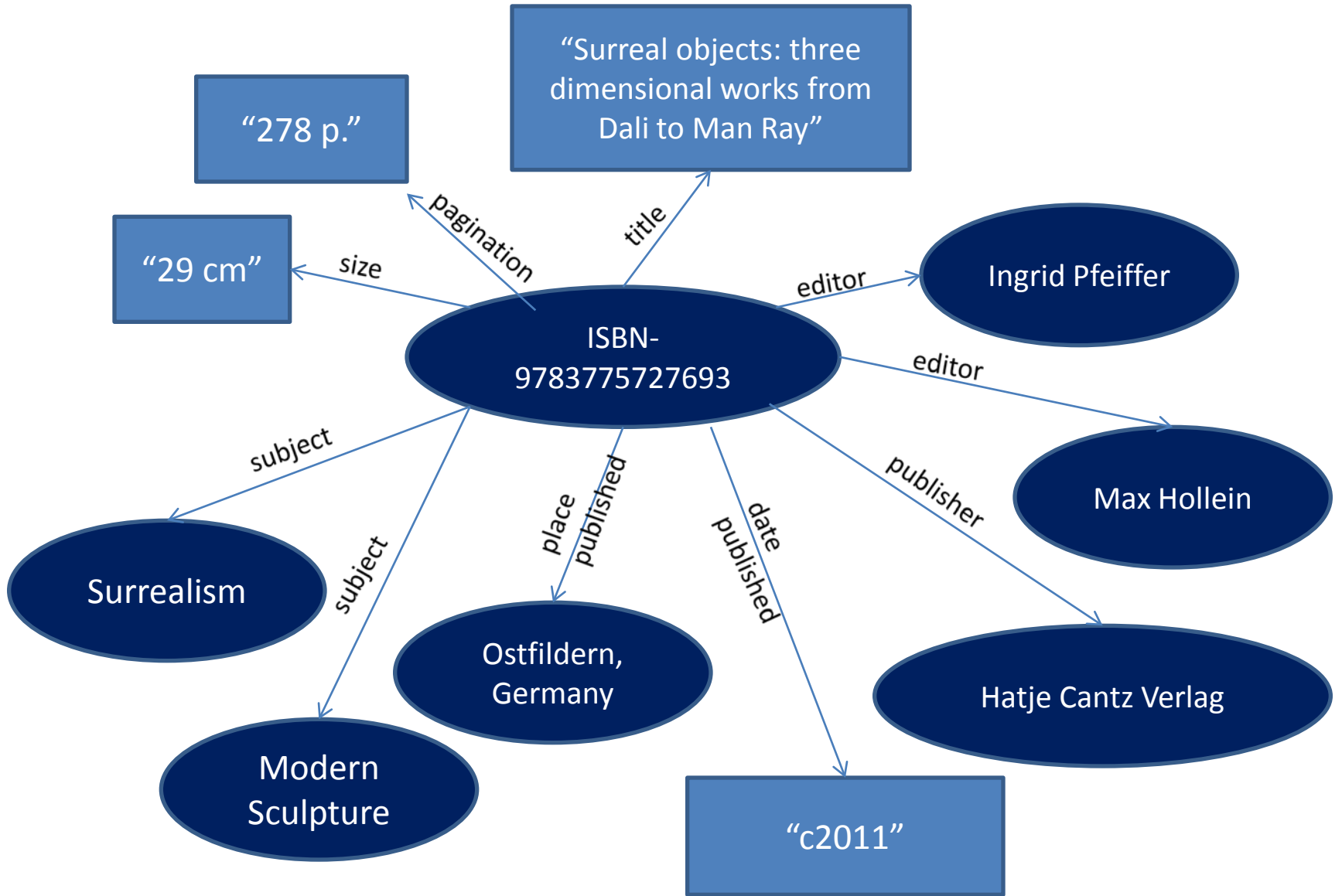
RART 22-07-
11

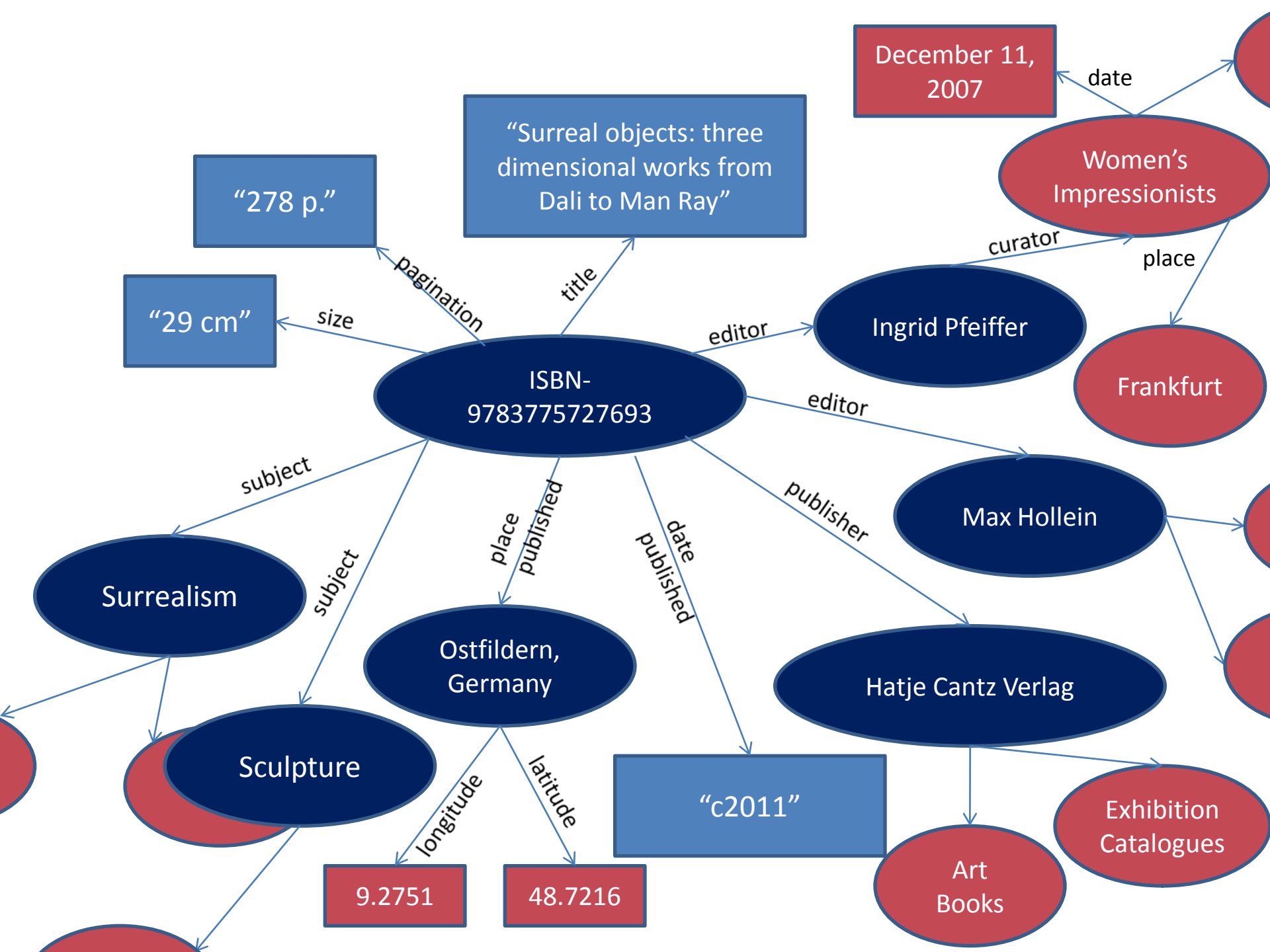
Call Number

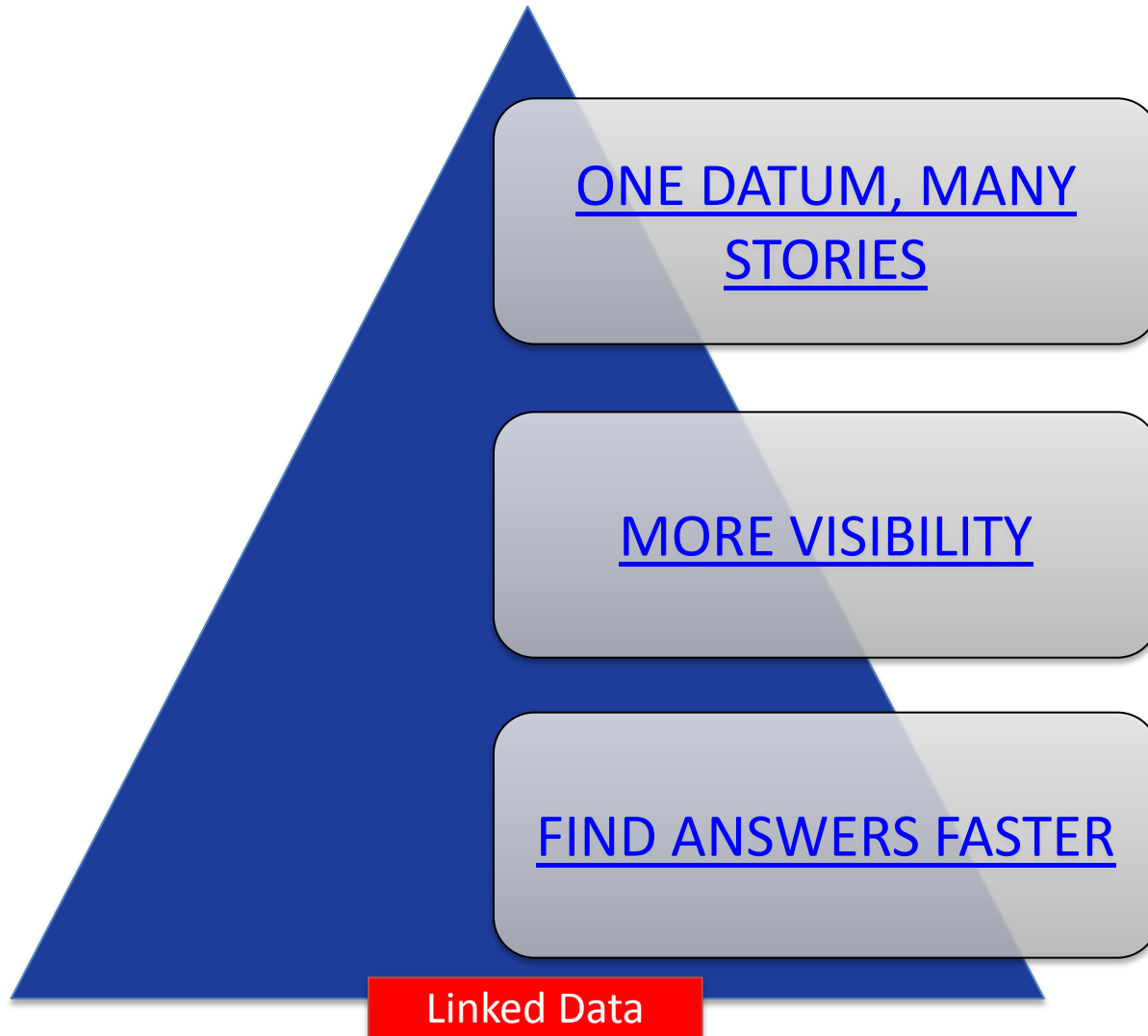
English 735.230463
SUR

Status

For Reference
Only







Benefit 1 : Find Answers Faster

A dark blue circle containing the word "Researcher" in white text.

Researcher

I am doing **research on Singapore Port**, about how the **Singapore Government** helped in setting the targets, bringing **stability to the port**, enforced the policies that helped to direct the port towards its prosperity now. The years I am focusing are from **1960s to the early 1990s**. The materials I want to consider are mainly **newspaper** articles and some books.

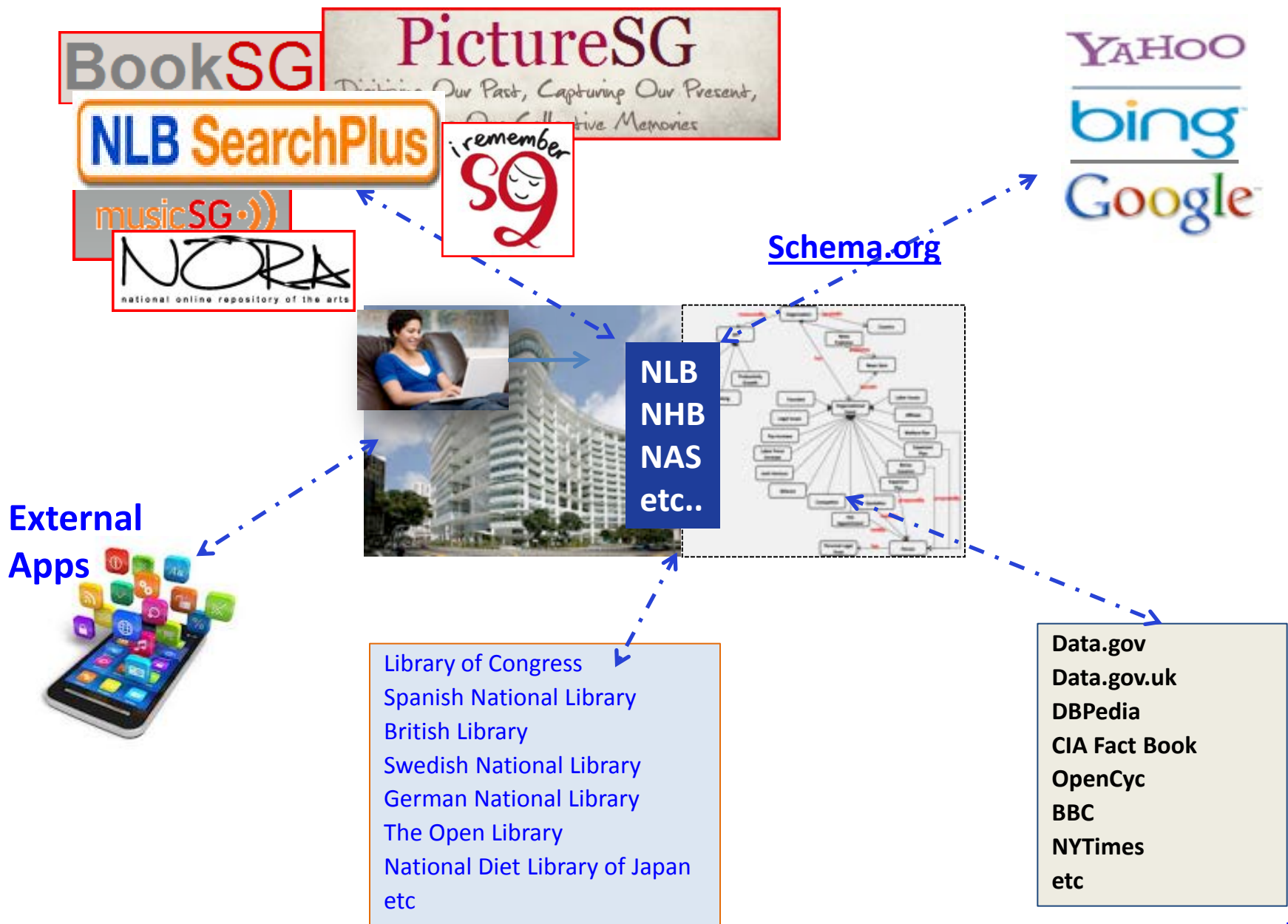
A dark blue circle containing the NLB logo, which consists of a stylized book icon with a red and blue flame-like shape above it, and the letters "NLB" in white to the right.

NLB

We would **suggest search strategies** for you but a comprehensive listing of resources would be **beyond the scope of this service**. To begin with, perhaps you can use the references in relevant books as a starting point to guide you to the right articles.....

My Personal Experience in Information Seeking

Benefit 2 : More Visibility



[Back](#)

Benefit 3 : One Datum, Many Stories

NLB Internal



idea idea idea

18 Months to 2 Years

- Information silos
- Limited reuse

Developers
Community



idea idea idea idea idea idea idea idea idea idea

Weeks to Months

Increased Breadth

NLB Internal



data.gov.uk Example

NYTimes Example

Target Audience

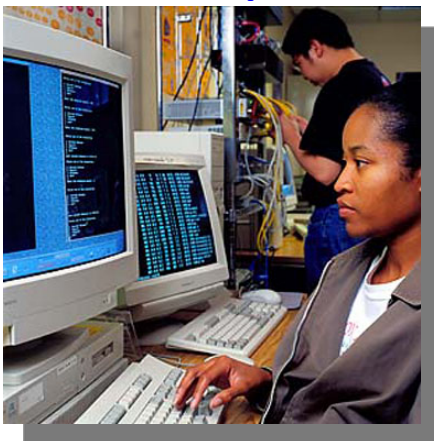
Researchers



General Library User



External Developers



Staff – Librarians/Archivists





THE 1960'S

Mr Lee Kuan Yew said in 1966 that if the Port had gone down with strikes and inefficiency, Singapore would today be a poorer place. Find out here how the then Government helped the port to become Number 1.



Lee Kuan Yew



Toh Chin Chye



Goh Keng Swee



S Rajaratnam



Ong Pang Boon



Yong Nyuk Lin



Lim Kim San



Jek Yeun Thong



Othman Wok



E W Barker




1960's 1970's 1980's



Lee Kuan Yew



Category	Property	Values
Attribute	type	Person
	Name	Lee Kuan Yew
	Nationality	Singapore
	Person Type	Politician
	Salutation	Mr
	Gender	Male
	Photo	http://www.biography.com/imported/images/Biography/Images/Profiles/K/Lee-Kuan-Yew-9377339-2-402.jpg
Resource 	Audio Association	6
	Book Association	5
	Web Asset Association	5
	Video Association	3
Organization Related Event	Quotation	5
	Bonus Issuance	2
	Expansion Plan	2
	Labor Issues	2



EXPANSION PLAN

type [Expansion Plan](#)

Status **Proposed**

For Organization [Singapore Harbour Board](#)

News Synopsis **The government is to set up a Port Authority of Singapore and recruit the chairman and chief executive officer from abroad.**

Event Date 1960-02-27T16:30:00Z

Source Article [GOVT. TO SET UP A PORT AUTHORITY](#)

Announcer [Lee Kuan Yew](#)

Objective **New Board**

owl:sameAs

Expansion Plan
27 Feb 1960

Ranking
15 Jun 1960

Key Appointment
16 Jun 1961

THE ORIGINS


Expansion Plan
27 Feb 1960

Ranking
15 Jun 1960

Key Appointment
16 Jun 1961



1960's 1970's 1980's
Signal Volume



WELFARE PLAN

type [Welfare Plan](#)

For Organization [Singapore Harbour Board](#)

News Synopsis [The Singapore Government is to push through a plan for higher pay and better working conditions for 10,000 port workers](#)

Event Date [1963-05-27T16:30:00Z](#)

Source Article [Port pay plan to go through](#)

Beneficiary [Port Workers](#)

Plan [higher pay and better working conditions](#)

[owl:sameAs](#)

Welfare Plan 27 May 1963	Quotation 18 Jul 1963	Quotation 19 Jul 1963	Labor Issues 20 Jul 1963	Bonus Issuance 22 Jul 1963
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ST
ION

INITIATION

Welfare Plan 27 May 1963	Quotation 18 Jul 1963	Quotation 19 Jul 1963	Labor Issues 20 Jul 1963	Bonus Issuance 22 Jul 1963
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Decade View 

Event	Detail	Eventdate
Expansion Plan	GOVT. TO SET UP A PORT AUTHORITY	Feb 27, 1960 4:30:00 PM
Ranking	TRADE IS FLOURISHING-BUT NOW THE ACCENT IS ON INDUSTRY	Jun 15, 1960 4:30:00 PM
Key Appointment	YONG NAMED CHAIRMAN OF SHB	Jun 16, 1961 4:30:00 PM
Welfare Plan	Port pay plan to go through	May 27, 1963 4:30:00 PM
Quotation	Lee: I don't want any trouble before M-Day	Jul 18, 1963 4:30:00 PM
Quotation	TRIUMPH FOR LEE. Thunderous cheers by Harbour Board men	Jul 19, 1963 4:30:00 PM
Labor Issues	Port men to vote on strike	Jul 20, 1963 4:30:00 PM
Bonus Issuance	Malaysia Bonus	Jul 22, 1963 4:30:00 PM
Organization Legal Issue	Premier Lee announces the cancellation of harbour staff union	Jul 22, 1963 4:30:00 PM
Bonus Issuance	\$500,000 'BONUS' SURPRISE FOR SHB WORKERS	Dec 13, 1963 4:30:00 PM
Organization Legal Issue	SHB Union now to ban all politicians	Jan 13, 1964 4:30:00 PM

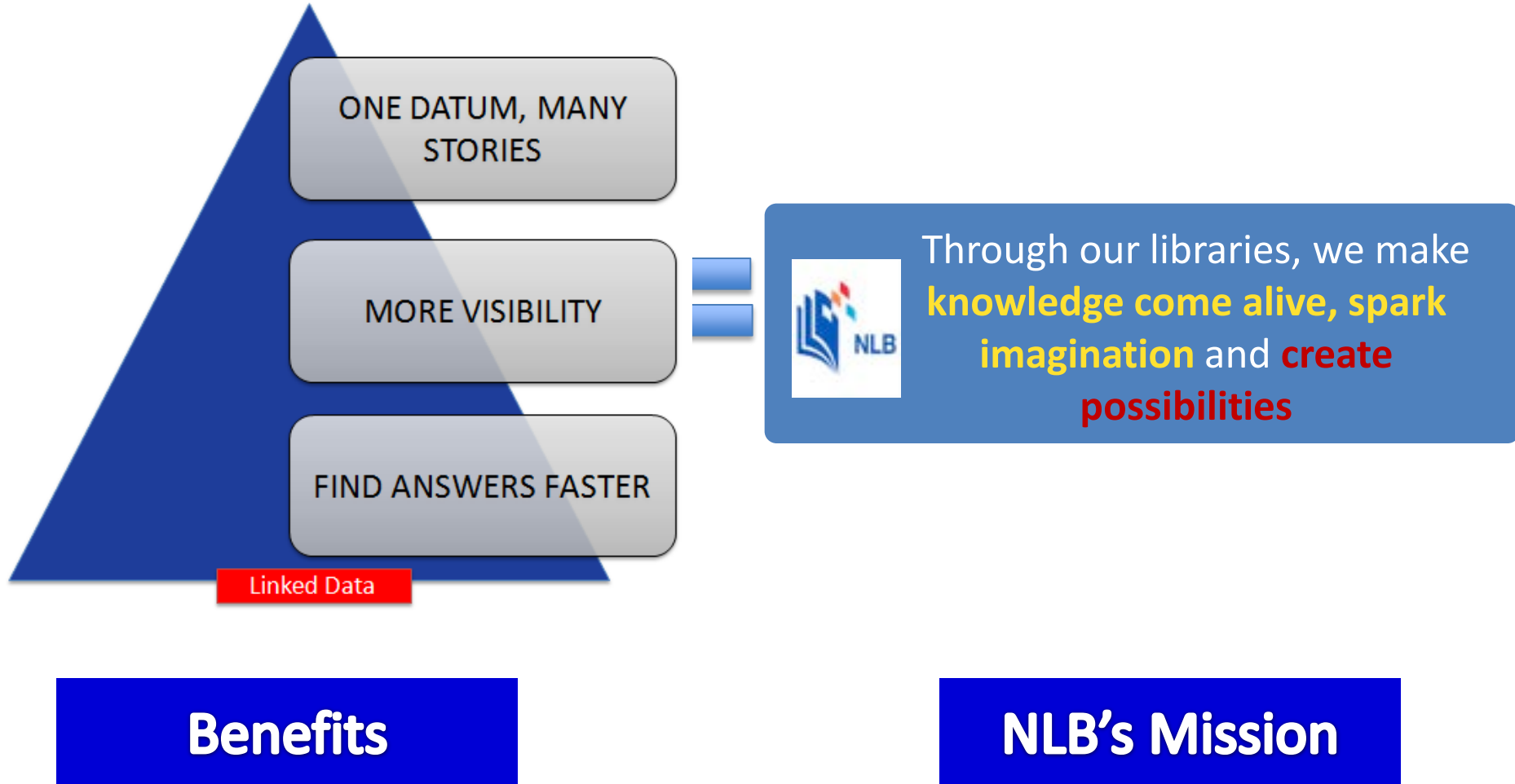
Decade View

Decade View --> Achieves one million TEUs in a single year for first time. --> Port Authority of Singapore

Category	Property	Values
Attribute	type	Organization
	Name	Port Authority of Singapore
	Nationality	Singapore
	Organization Function	Port
	Photo	http://www.singaporepsa.com/images/content/business_main.png
Organization Related Event	Expansion Plan	8
	Labor Issues	6
	Performance	4
	Quotation	3
	Ranking	3
	Alliance	2
	Joint-Venture	2
	Labor Force Increase	2
	Technology Adoption	2
	Founded	1
	Pay Increase	1
	Rank Target	1

Technology Adoption	Computers. A vital part of operations	Jun 22, 1962 4:00:00 PM
Performance	Passes 5 million TEUs a year mark and becomes worlds largest container port for the first time.	Dec 31, 1989 4:00:00 PM
Ranking	Passes 5 million TEUs a year mark and becomes worlds largest container port for the first time.	Dec 31, 1989 4:00:00 PM

Linked Open Data



The Power of One

- Bridging the Cultural Divide:



- Connecting Singapore Content to the World seamlessly

Current Projects:

data.gov.sg Pilot

➤ Mobile App



➤ Web App

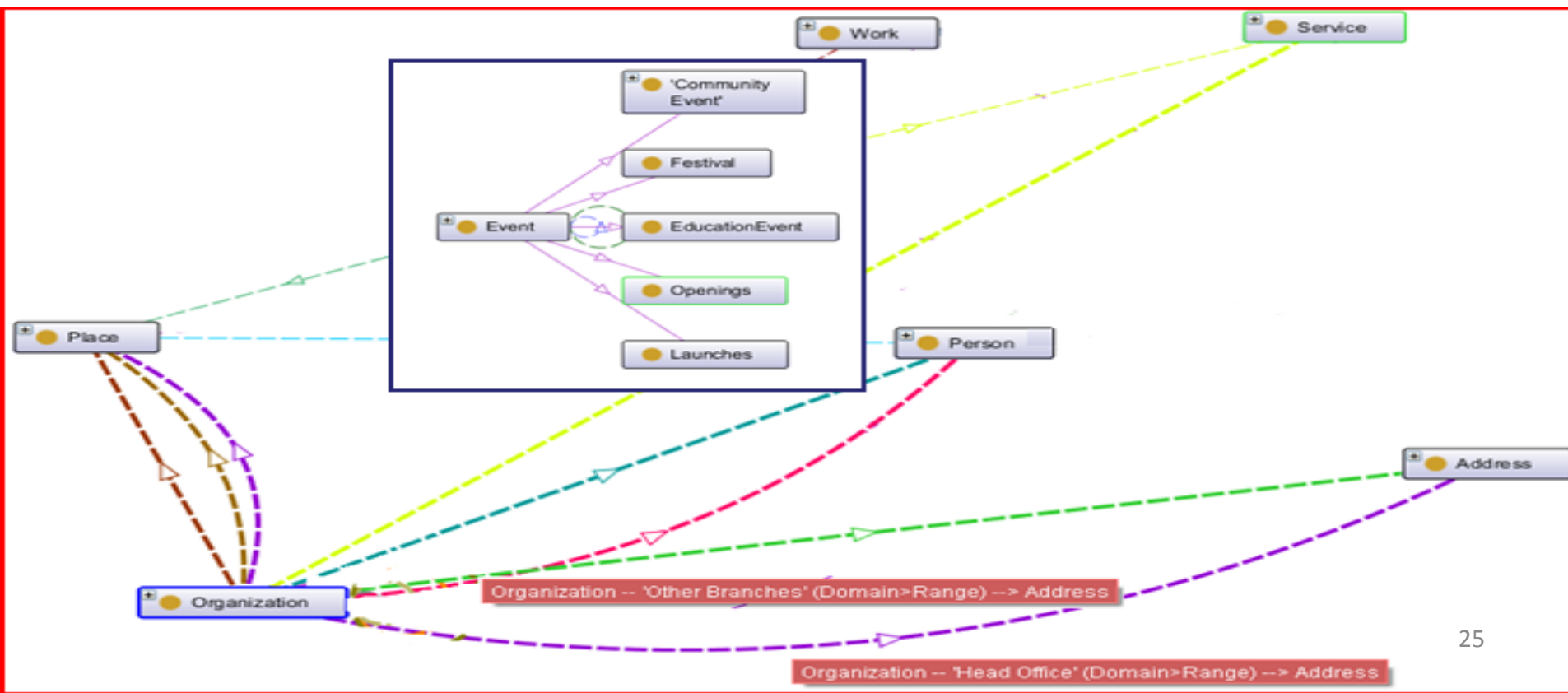


Using 23 govt and 23 non-govt datasets

Current Projects:

FamilyHistory Database

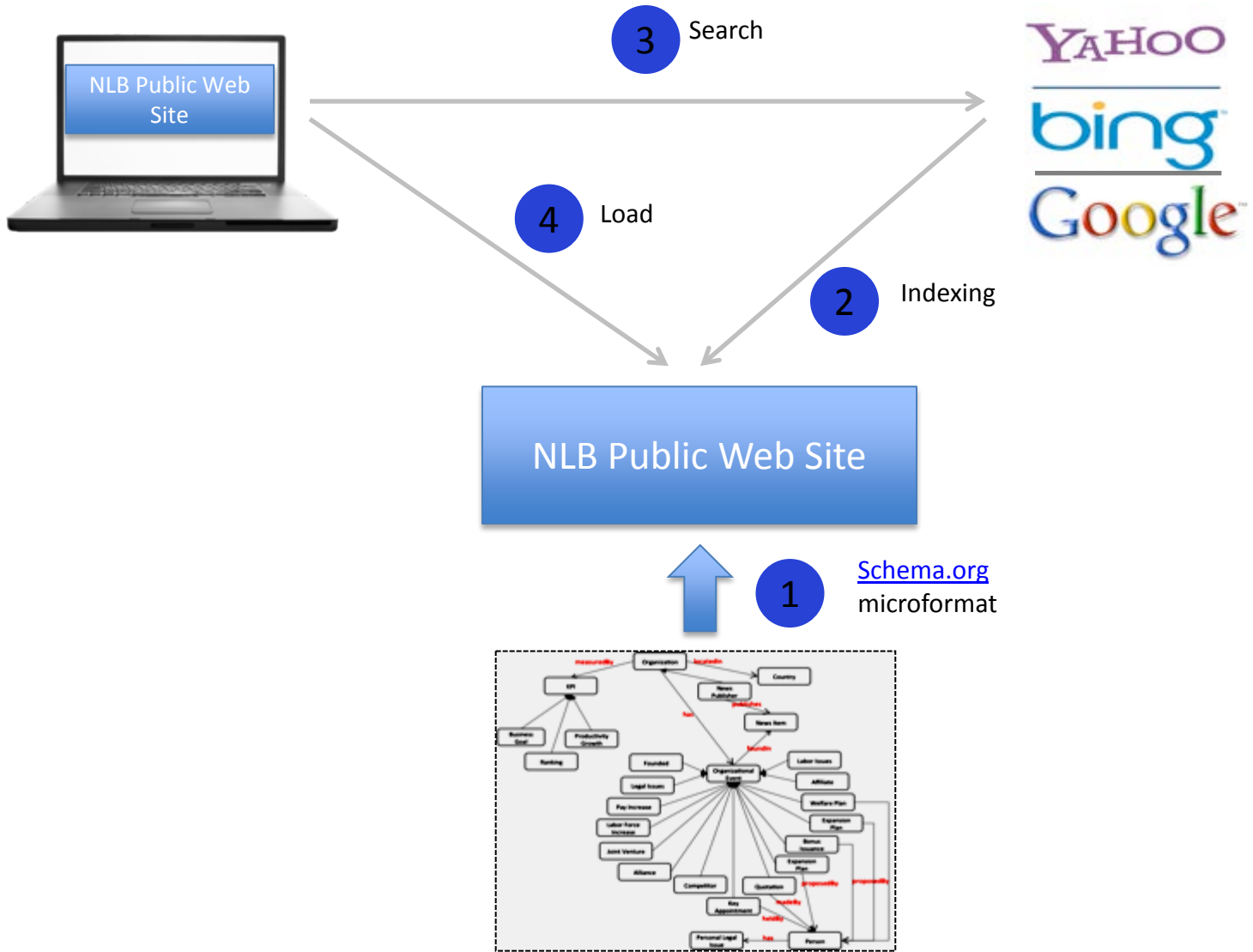
- data transformation (Dublin Core)
- named entity recognition (1,800 articles)
- ontology : 340 classes/sub-classes & 320 relationships



A stack of several books is visible on a shelf in the background. The books are of various thicknesses and colors, mostly in shades of brown and tan. The text is overlaid on the right side of the image.

*Thank You..
for your attention*

haliza@nlb.gov.sg



[Back](#)