

## → **The International e-Depot**

*e-Journal Archiving at the national library of the Netherlands*

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## Overview

### 1) Setting and Scope

- Koninklijke Bibliotheek
- History of the e-Depot
- System characteristics
- Scale

### 2) Archiving e-journals: The KB Business Model

- Identifying and addressing risks
- Trigger Events
- Who are we serving?



# Setting and Scope

## Governance, funding, organizational structure

- Koninklijke Bibliotheek
  - Medium-sized national library, founded in 1798
  - Financed by Ministry of Education, Culture and Science
  - Annual budget € 50 million, 270 fte
- Digital archiving and R&D Permanent Preservation:
  - € 1,1 million structurally allotted to staff, system maintenance
  - € 1,2 million permanently dedicated to research
  - Research funding increases every year
- Digital archiving and preservation embedded in organization
- Departments: e-Depot, Digital Preservation, IT

## Director General

### Corporate Management

Communication

Planning & Control

Human Resources

Finance

Building & Facilities

Information  
Technology

### Collections & Services

#### Acquisitions & Cataloguing

Acquisitions

Cataloguing &  
Metadata

e-Depot

#### Information & Collections

Collection Care

Research Collection

Special Collections

#### User Services

Online Services

Front Desk

Storage & Control

### Innovation

Product & Service  
Development

(Inter) National  
Programmes

Digital  
Preservation

## History of the KB e-Depot

- 1993: Decision to start e-Depot
- 1995: Experiments with Elsevier, Dutch Publishers Association
- 2002: Landmark archiving agreement with Elsevier
- More archiving agreements:
  - Kluwer Academic Publishers, BioMed Central (2003)
  - Blackwell, Oxford University Press, Taylor & Francis (2004)
  - Sage, Springer, and Brill Academic Publishers (2005)
  - General agreement Dutch Publishers Association (updated 2005)
  - IOS Press (2007)

## The e-Depot system

- Experiments with AT&T, IBM from 1995-2002
- DIAS: OAIS-compliant, developed with IBM, implemented in 2002
- Integrated with other library modules
- Functionalities:
  - Ingest of e-journals, e-books, digitized publications, and CD-roms
  - Authentic publications archived, standard formats (PDF, XML)
  - Automatic validation (checksum, JHOVE), error handling
  - Metadata conversion
  - Batch delivery
  - Web archiving



## Scale

### Volume

- 11 million e-publications (PDFs, based on current agreements)
- 10 million digitized publications to be expected (TIFFs)

### Size

- 1 PDF equals 1 Mb on average: 11 terabyte e-publications
- 1 TIFF equals 200 Mb on average: 200 terabytes TIFFs

### Capacity

- e-publications: 50,000 objects ingested per day
- TIFFs: ?

# Archiving e-Journals: The KB Business Model

## The KB Policy: identifying risks

### No obvious guardian for international publications

- Who ensures long-term accessibility of international e-Journals?
- Most current e-Journals lack a natural a fatherland
- Geographic model not sufficient for systematic approach
- Risk of information getting lost forever

### Disrupted Access

- Calamities damaging publisher's services
- Withdrawal of publications, journals (commercial motivation)
- No successor

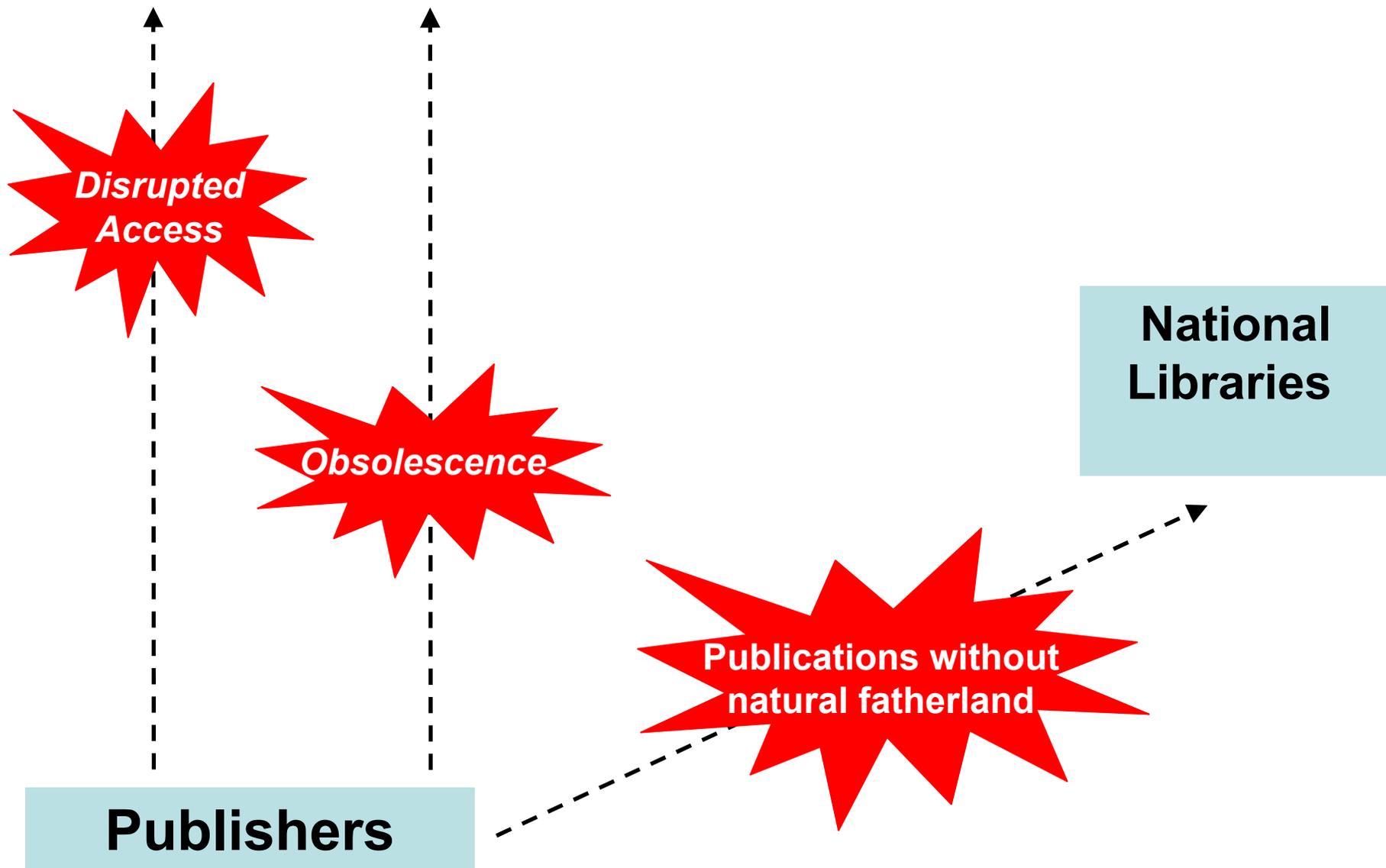
### Technological Obsolescence

- Inaccessible file formats

## The KB Policy: addressing risks

- Publishers are unlikely to deposit at large number of places
- Spread the (geopolitical) risk and identify trustworthy partners
- Collaboration and coordination
- Centers of expertise may emerge: the Safe Places Network
  
- Safe Places Network secures systematic, coordinated preservation
- In case of loss, libraries know where to go
- Permanent archiving calls for
  - Substantial investment
  - Permanent commitment
  - Continuous efforts and permanent R&D

**Research Libraries, End Users**



*Disrupted  
Access*

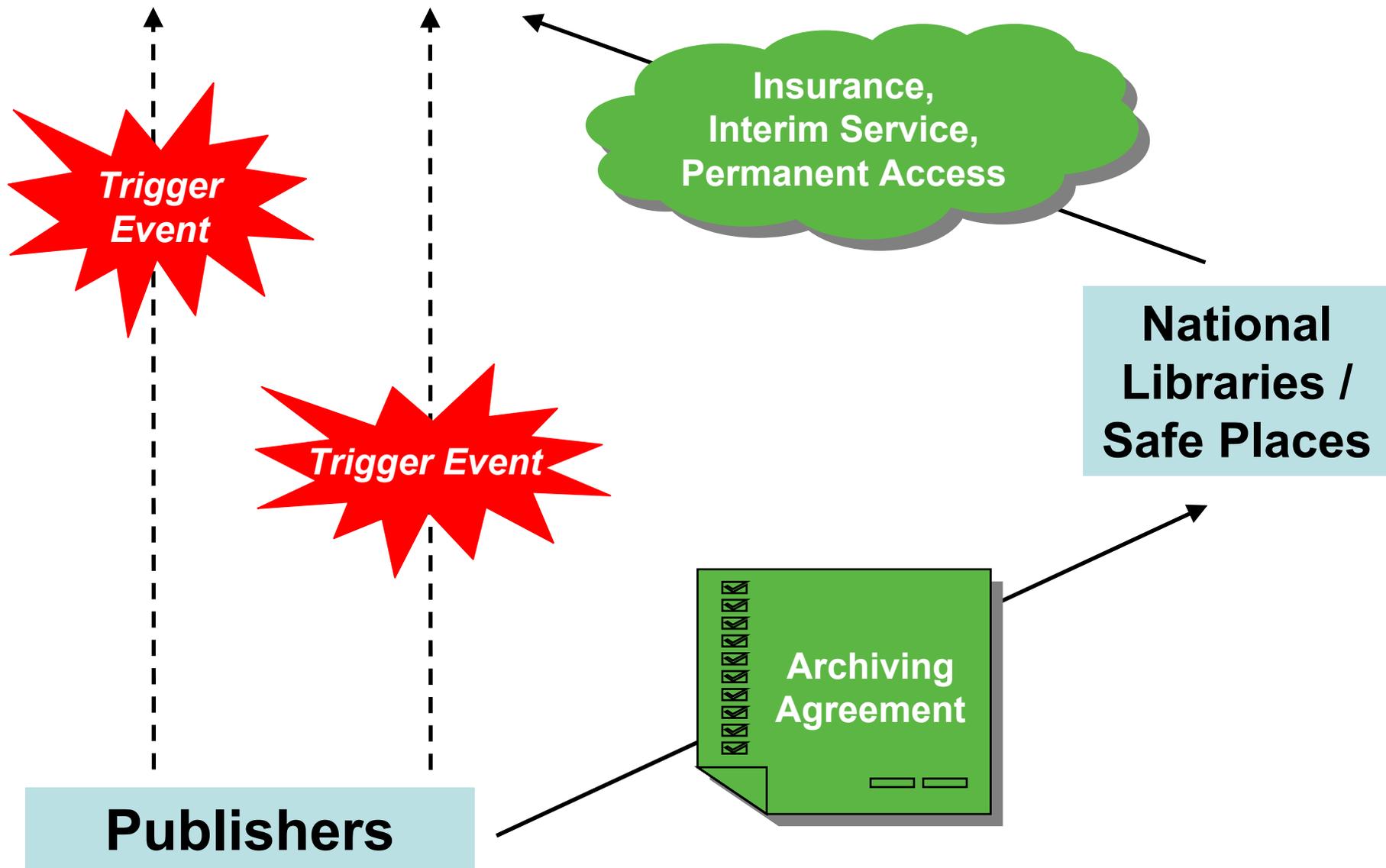
*Obsolescence*

**Publications without  
natural fatherland**

**National  
Libraries**

**Publishers**

**Research Libraries, End Users**



*Trigger Event*

Insurance,  
Interim Service,  
Permanent Access

**National  
Libraries /  
Safe Places**

*Trigger Event*

Archiving  
Agreement

**Publishers**

## ***Who are we serving?* Designated Community (I)**

### **Libraries, end users**

- The e-Depot is a safe place for the scientific community
- On site access for KB visitors, ILL supply within the Netherlands
- Exceptional use: Trigger events cause broader access
- If a publisher stops making journals available: Open access to all
- In case publishers cannot meet obligations: Part of interim service

## *Who are we serving?* Designated Community (II)

### **Publishers**

- The e-Depot is a safe place for the scientific community
- Additional service for publisher's customers
- e-Depot access does **not** compete with publisher-provided access
- Retrieval, access, printing, downloading *for private use only*
- Systematic reproduction is not allowed
- COUNTER compliant

### **Cost Model**

- Eventually, preservation and archiving costs will be part of licensing fees

## Summary

- E-Journals: range of possible disruptions
- E-Journals must be preserved by institutions who take responsibilities;
- Systematic and coordinated by means of Safe Place Network
- KB is committed to be part of the Safe Places Network: substantial R&D, permanent commitment
- The ultimate business model requires cooperation



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