



→ 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 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

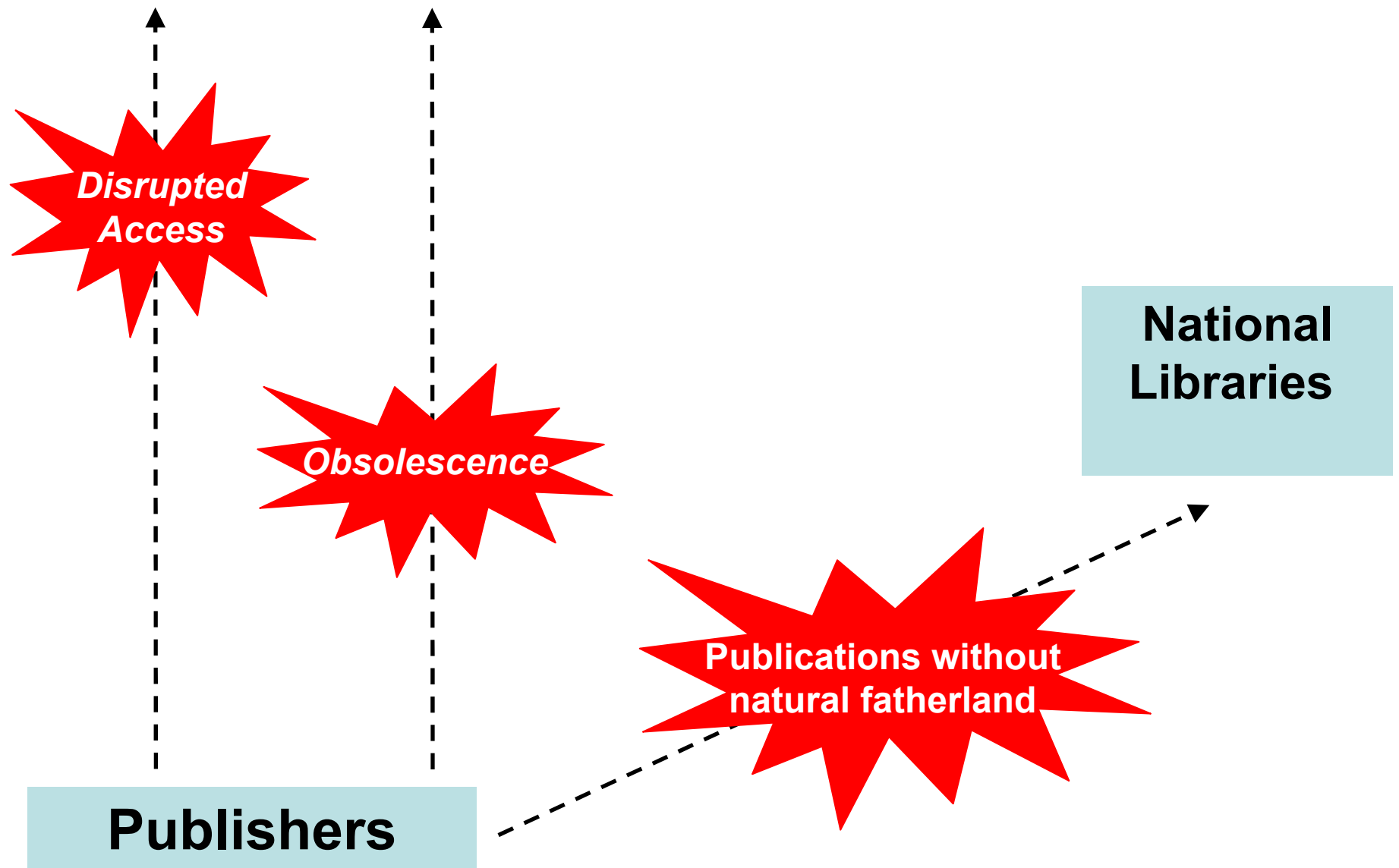
Technological Obsolescence

- Inaccessible file formats

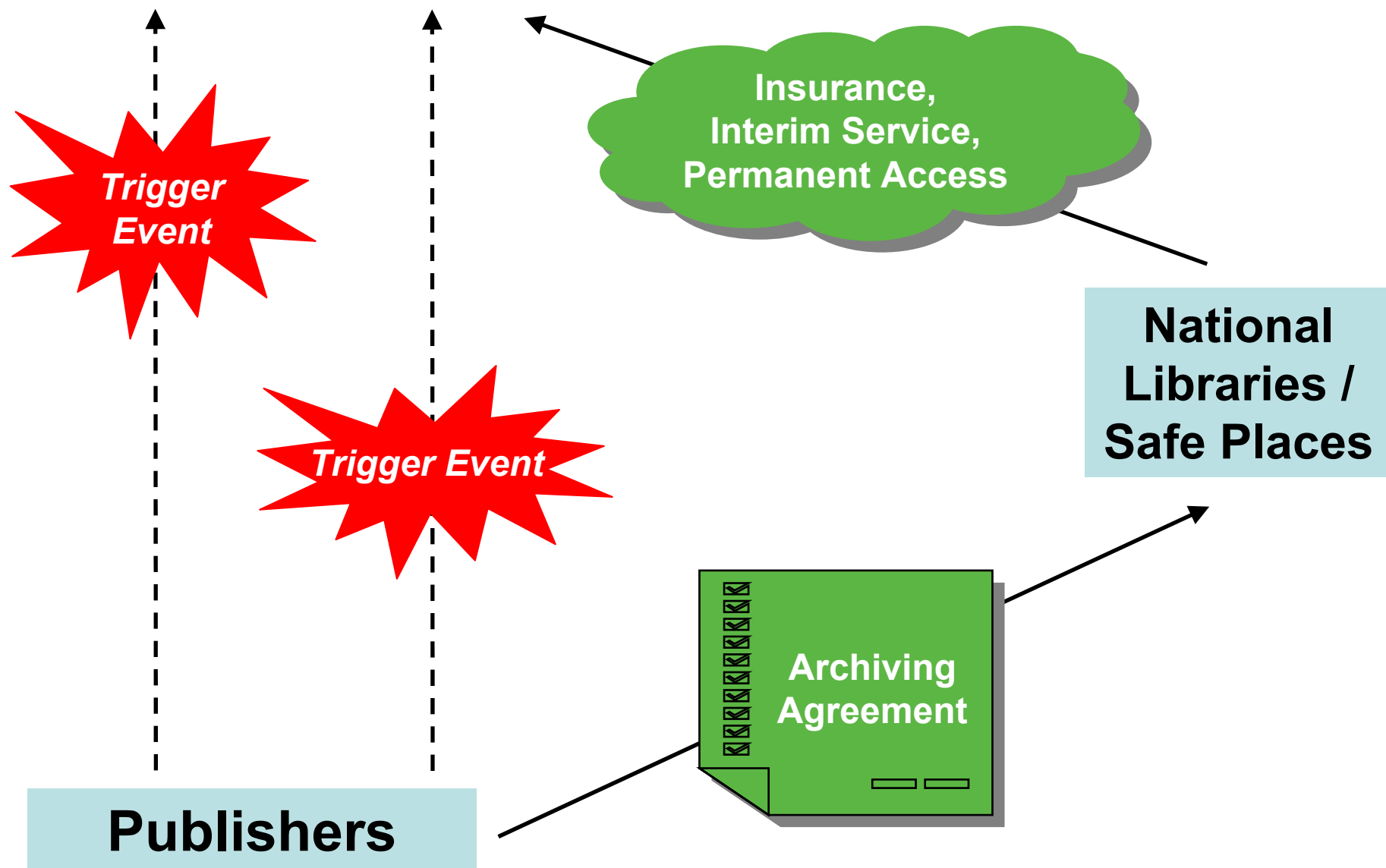
The KB Policy: addressing risks

- 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



Research Libraries, End Users



***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



The KB e-Depot

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