

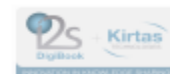
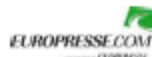


IFLA International Newspaper Conference

“Newspaper Digitization and Preservation.  
New prospects.  
Stakeholders, Practices, Users and Business Models”

11-13 April 2012  
BnF, Paris

With the support of:





# Post Digitization: Challenges in Managing a Dynamic Dataset

Jasper Faase, 12 April 2012



## Mission

- The Koninklijke Bibliotheek is the national library of the Netherlands: we bring people and information together.
- Our core values are: accessibility, sustainability, innovation and cooperation.

## Vision

We

- Offer everyone everywhere access to everything published in the Netherlands
- Promote permanent access to digital information nationally and internationally
- Play a central role in the (scientific) information infrastructure of the Netherlands

## From vision to practice

- Mass-digitisation: both with public funding and in public-private partnerships (Metamorfoze, Google, Proquest)
- Between 2009 and 2013 10% of all Dutch publications (60 million pages) will be digitized. This will be sped up by designating digitization part of the library's primary process
- Target for newspaper digitization: 9 million pages by the end of 2012

## Results so far

- Digitized: 7.4 million pages of Dutch national, colonial, regional and local newspapers (1618-1995)
- Contracts with 19 publishers and representative bodies of freelancers (photographers, journalists) to clear 105 titles for free online access
- 5 million pages published online via [www.kranten.kb.nl](http://www.kranten.kb.nl); this figure will grow to 9 million pages by November 2012
- Around 50,000 unique visitors and 80,000 visits a month

## Post Digitization challenges

1. Improving results of Optical Character Recognition
2. Preserving large amounts of digital objects in order to guarantee access in the long term
3. Setting up a viable model for cooperation at national level to improve accessibility and completeness of digital collections

## **Challenge 1: Improving OCR**

- Target groups (especially linguists) value high quality OCR
- Poor recognition rates of software means OCR of pre-1850 historical texts can often not be used for research
- Current situation at KB: OCR is a static dataset. No method in place to improve this data structurally
- Language technology is evolving quickly



## Challenge 1: Improving OCR

- Develop a method for management of OCR as a dynamic dataset
- Use results of the European Project IMPACT (<http://www.impact-project.eu/>) within KB's digitization workflow (2012)
- Introduce crowdsourcing to improve OCR of individual texts to a high degree of accuracy (2013)
- Implement a toolset so language technology can be used to structurally improve OCR of existing datasets (2013-2014)

## Challenge 2: Digital preservation

- Digital preservation in order to guarantee permanent access
- Use of digital copies is replacing use of originals
- Permanent access is not self evident and is not the main priority for many of our partners
- Risks:

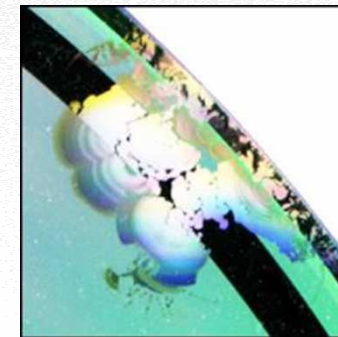


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H:INTRO PAGE 1 LINE 9 COL 11          INSERT ON
<<<  M A I N  M E N U  >>>
--Cursor Movement--  -Delete-  -Miscellaneous-  -Other Menus-
^S char left ^O char right ^G char ^L Tab ^B Reform (from Main only)
^R word left ^F word right ^BEL chr lf ^V INSERT ON/OFF ^J Help ^K Block
^E line up ^X line down ^T word rt ^L Find/Replce again ^O Quick ^P Print
--Scrolling--
^Z line down ^W line up ^V line ^RETURN End paragraph ^O Onscreen
^C screen up ^R screen down ^U Stop a command ^
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1. Introducing WordStar

WordStar is highly flexible and very visible. Watch the
screens as you give commands, and information in various
parts of the screen will guide you. You won't see all the
information all the time, but it will be there when you need
it.

WHERE YOU ARE

The seven WordStar menus are your greatest aids. They are
like signposts at the top of your screen, showing you where
you are.
1:HELP: 2:INTENT 3:SET LM 4:SET RM 5:INDLN 6:LD:CFE 7:REGRX 8:ENDBLK 9:REGETI 10:ENDFI
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## Challenge 2: Digital preservation

- At the moment KB is only preserving born digital data in its E-Depot
- Extending scope to digitized collections will mean building a new scalable E-Depot for long-term & safe storage for over 500 TB of data
- This new depot has to provide the library with one infrastructure for processing, access and storage



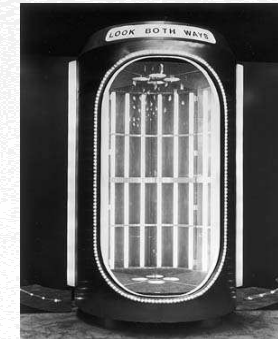
Safe storage

+



Preservation metadata

+



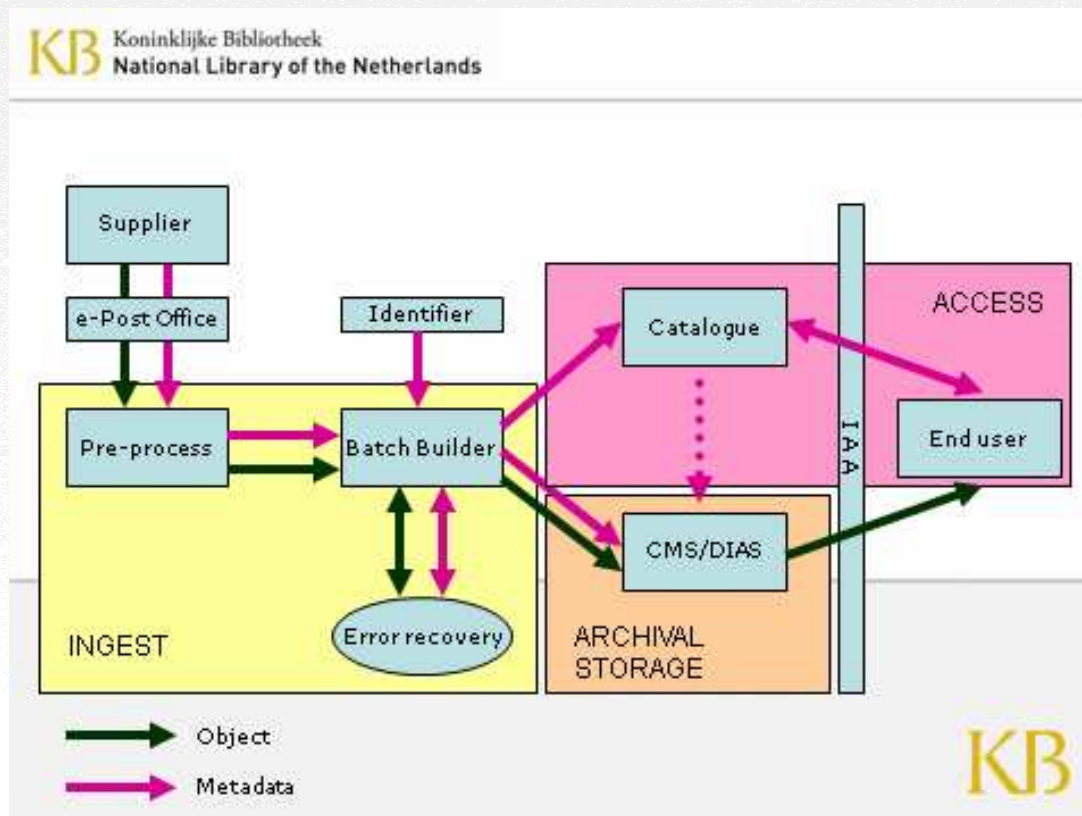
Permanent access

## **Challenge 2: Digital preservation**

- Requirements for the new system:
  - Can be scaled up to deal with the enormous growth of digital collections
  - Able to deal with a growing diversity of digital collections
  - New functionality: tools for characterisation, format-conversion and other preservation functionality now available

## Challenge 2: Digital preservation

- Requirement for the library: Preservation and data management at the core of library processes



## **Challenge 3: Cooperation**

- Fragmented access to digital publications; especially digitized newspapers
- Lack of standardization and limited use of metadata standards (such as ALTO and protocols for sharing data OAI and SRU)
- Lack of coordination of digitization efforts

## Challenge 3: Cooperation

- Centralizing mass-digitisation of books, magazines and newspapers - financed by Metamorfoze (National Programme for Preservation of Cultural Heritage)
- Starting a joint project between academic libraries and KB to develop a platform for digitized publications, including newspapers
- Developing a model for cooperating to provide permanent access to digitized heritage from libraries and newspaper archives
- And the biggest internal challenge: merging the National Library and the National Archive



Thanks for your attention

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