## 2017 IFLA Project Report Digitization Workshop IFLA News Media Section IFLA PAC Southern Africa

## University of Nairobi College of Agricultural and Veterinary Sciences

## Nairobi, Kenya February 14-16, 2017

February 14-16 the University of Nairobi College of Agricultural and Veterinary Sciences hosted a digitization workshop presented by the IFLA News Media Section. Also collaborating on the workshop was the Information Training and Outreach Centre for Africa ITOCA (<a href="http://www.itoca.org/">http://www.itoca.org/</a>) and the National Library of South Africa (<a href="http://www.nlsa.ac.za/">http://www.nlsa.ac.za/</a>) IFLA Preservation and Conservation (PAC) Centre for Anglophone speaking countries in Southern Africa. Sponsors - organizations that paid money to defray conference costs - included Digital Divide Data (<a href="http://digitaldividedata.com/">http://digitaldividedata.com/</a>), Sabinet (<a href="https://www.sabinet.co.za/">https://www.sabinet.co.za/</a>), and Bibliothèquenationale de Luxembourg (<a href="https://www.bnl.public.lu/">https://www.bnl.public.lu/</a>). Debra Hanken Kurtz, Executive Director of DuraSpace (<a href="https://duraspace.org/">http://duraspace.org/</a>), also volunteered at the last minute to do a virtual presentation about its open source software repositories

Thirty-eight people from Kenya, Uganda, Nigeria, Malawi, Tanzania, and South Africa attended the 3 day workshop.

Before the workshop, the National Library of South Africa circulated a simple survey to its network in Africa. The intent of the survey was to measure the amount of interest in the workshop and digitization experience of the respondents More than one hundred people answered the survey.

As one would expect, experience levels varied from none to very experienced. Experience levels are summarized in the *Digitization Experience* table below; experience level of 1 indicates inexperienced, 5 indicates very experienced.

## Digitization experience

| Experience level | Number of responses |
|------------------|---------------------|
| 1                | 15                  |
| 2                | 34                  |
| 3                | 33                  |
| 4                | 18                  |
| 5                | 3                   |
| Total responses  | 103                 |

In the mornings the workshop was lectured with questions and answers and during the afternoon practical, hands-on activities or demonstrations using open source software tools. Here's a summary of the program:

Day 1 at University of Nairobi

09.00 Introduction University of Nairobi and Sponsors

09.30 Review of OAIS reference model [Frederick Zarndt]

10.00 Review of digitization programs around the world [Frederick Zarndt and LondekaDlamini from National Library of South Africa]

11.00 Selection of Materials [Yves Maurer]

11.45 Digitization tools, open source and commercial [Yves Maurer]

12.30 Lunch

14.00 Hands-on activities [Yves Maurer and Frederick Zarndt]

- 1. usingIrfanView to view images
- 2. using Gimp to manipulate images
- 3. understanding image compression and using open source tools to compress sample images

15.15 Hands-on activities [Yves Maurer and Frederick Zarndt]

- 4. using Kakadu software to create, inspect, and manipulate JPEG2000 images
- 5. understanding EXIF data
- 6. viewing, adding, and editing TIFF tags

17.00 Day 1 Finish

Day 2 at University of Nairobi

09.00 Review of standards for digitized materials [Frederick Zarndt]

09.45 Digitization workflow [Yves Maurer]

11.00 Project management, quality assurance, and acceptance criteria [Yves Maurer]

11.45 Digital preservation considerations [Frederick Zarndt]

12.30 Lunch

13.30 Hands-on activities [Yves Maurer and Frederick Zarndt]

- 7. usingImageMagick to inspect and manipulate images
- 8. creating and verifying bagit data bags

16.00 Digital repositories: DuraSpace virtual presentation [Debra Hanken Kurtz]

17.00 Day 2 Finish

Day 3 at University of Nairobi and Digital Divide Data

09.00 Digital repositories case study: AgEcon [ChipoMsengezi from ITOCA]

10.30 Break

11.00 Digital repository demonstration: Islandora [Yves Maurer]

12.00 Lunch

13.00 Travel to Digital Divide Data

13.30 Visit Digital Divide Data

- 1. tour digitization production facility
- 2. presentation of Digitization Workshop Completion Certificates by

Dr.Maisela "Eddy" Maepa, Executive Director, Core Programmes, National

Library of South Africa

17.00 Day 3 Finish

Following the workshop the participants were asked about their view of the workshop itself.

Overall the workshop was rated 4.14 on a 1-5 scale, where 1 is "workshop was not at all useful" and 5 is "workshop was invaluable".

Informal verbal surveys during and following the workshop as well as survey questions (questions 3 and 4) indicate that future workshops should have more hands-on, practical experience.

One surprise in the survey: We debated whether to include the OAIS overview, and if we included it, whether we should begin the workshop with the overview. As it turns out survey respondents mentioned the OAIS overview as one of the *most useful* workshop sections. In future we shall develop this module even more. And of course add more handson practical activities.

Speaking of future workshops, three of the workshop participants have already asked if this workshop could be repeated at their organizations in Malawi, Nigeria, and in Kisumu, Kenya. We already have begun planning for a digitisation workshop in Francophone Africa.

We are grateful to the IFLA Professional Committee and the IFLA News Media for providing travel funds for the workshop, to the National Library of South Africa for its organizational support, to Digital Divide Data and Sabinet for financially supporting the workshop, and most of all to the University of Nairobi and especially to ITOCA without whose support the workshop would never have happened. Thank you! Asante!

Frederick Zarndt IFLA Governing Board Consultant, Digital Divide Data CxO Global Connexions

Yves Maurer Manager Webharvesting Programme Bibliothèquenationale de Luxembourg

Douwe Drijfhout

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