Technology Choices in Crisis

Challenges in deploying effective software technology amidst crisis occasioned by the post election violence in Kenya ICT4D DOHA



Section

- 1. When all was well
- 2. The Chaos
- 3. The TOR
- 4. The Choice
- 5. The Solution
- 6. Lessons Learned



Section

1. The Beginning – When all was well

- 2. The Chaos
- 3. The TOR
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Business as usual until 26th December 2007

- Kenya had prepared for General Elections in a very jovial mood with pomp in campaigns
- For the first time all parties had websites for the parties and candidates. Official functions were held to launch the campaign websites
- On the eve of the General Elections 12 million Kenyans had cell phones meaning 1 out of 3 Kenyans could be reached by either phone call or text
- Some websites included <u>www.raila07.com</u> <u>www.kibakitena.co.ke</u> <u>www.kalonzofoundation.org</u>
- On 26th December 2007 Kenyans closed business for holiday and elections





Business as usual until 26th December 2008





Section

1. The Beginning

2. The Chaos – Can't believe this is Kenya

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Sins of Cheating – Still political – We cared less!





Eye for an Eye? Not Political Differences Any More!!



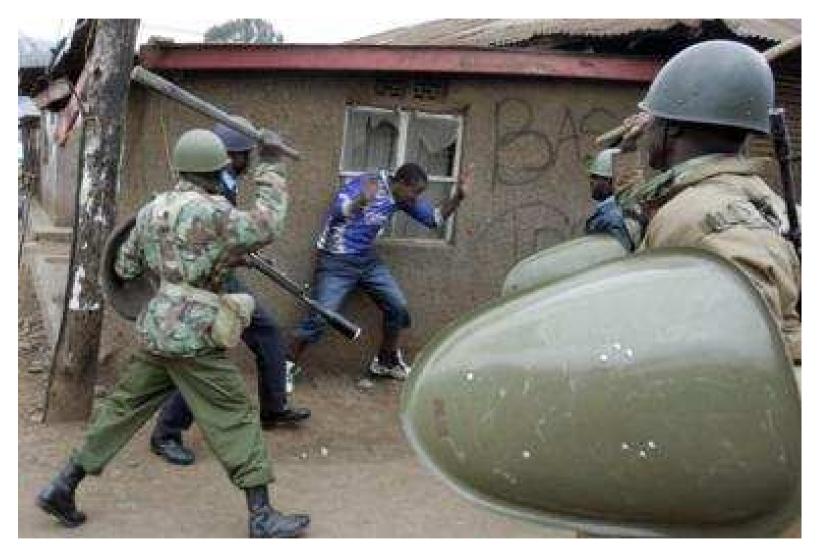


The Impunity – Aggressor - Civilians





The impunity – Aggressor - Authorities





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3. The TOR – Do whatever, deliver the database now

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Cooperation in crisis

- The Kenya National Commission on Human Rights (<u>www.knchr.org</u>) sent an SOS for partners to assist in documenting the crisis with the goal of ensuring that it does not happen again and bringing those responsible to justice.
- No Peace Without Justice (<u>www.npwj.org</u>) who have worked in similar situations in Kosovo, Iraq and Sierra Leone responded to the distress call.
- NPWJ hired MediaCorp to develop a solution within 10 days that will help document the crisis.
- The client/s did not care what software we used until...



Choice comes in

- NPWJ that is based in Brussels called for a fully open source bespoke solution.
- KNCHR (of course based in Nairobi) had not experienced FOSS before and were worried time would be wasted in training people on new technology rather than focusing on the job.
- Sensitivity of the work demanded customised security deployed such that;
- -Data Clerks could only view and edit the information they individually had entered.
- -Analysts could only view and not edit any data
- -Data had to be encrypted especially to avoid political interference during the investigations.



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Foss vs Proprietary

"Windows is a very important platform, and our justifiable pride in Linux and the GNU stack shouldn't blind us to the importance of delivering software that is widely useful. I believe in bringing free software to people in a way that is exciting and empowering to them, and one of the key ways to do that is to show them amazing free software running on their familiar platform, whether that's Windows or the MacOS. "Mark Shuttleworth

http://www.markshuttleworth.com/archives/143



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Blending Windows, FireBird, Apache, PHP and Mozilla



'User Interface' – Using FOSS or Windows?? I don't care!!

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Bringing it all together in Foss/Windows

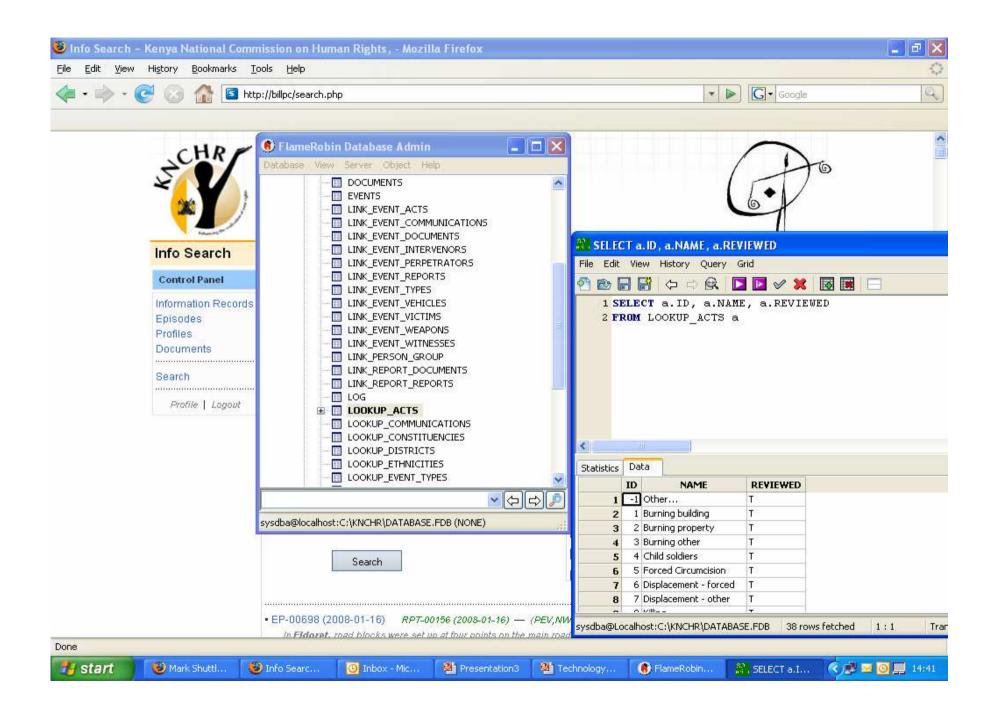
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| | Weapons | Documents | Information Records | |
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| Control Panel | 305 results | |
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| | Displacement - other Dog bite Forced Circumcision Forced Violence Harassment Hate Speech Hostage Kidnapping Killing | Baringo East Constituency |

• EP-04463 (2007-12-27) RPT-01026 (2007-12-27) - (PEV,IVR,MAR,816)

Ruto for **Eldoret** North had organised the oaths. Dogs and cows slaughtered in **Eldoret**. I am the Chairman of displaced people so I have all the evidence. Ruto gave the twenty five cows. We even have the pamphlets that they were using. Mine is in the house I can give you. Ruto and Kones drinking the blood of the slaughtered five dogs and twenty five cows and dressed in



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Strength and weaknesses

| Strength | Weaknesses |
|---|--|
| Best solution to circumvent choice issues especially for the client. Use hybrid solutions for the client is always right. | Porting issues with Windows preferences. Windows services are given priority in port allocation. E.g. IIS will start by default before giving Apache the opportunity to be allocated the port first. |

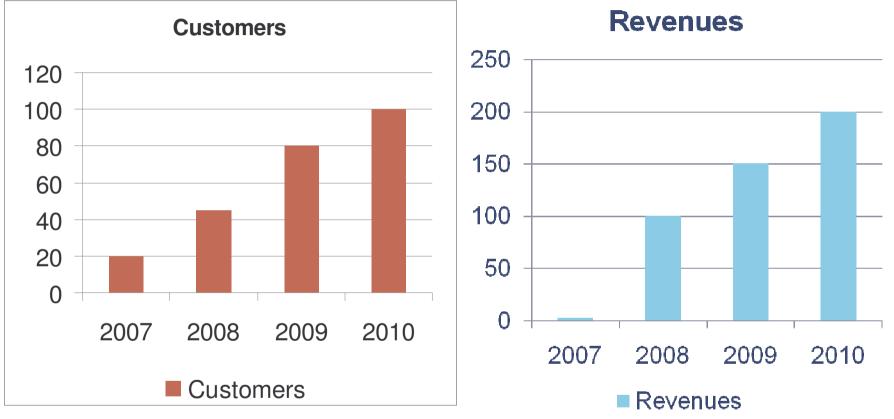


Opportunities and threats

| Opportunities | Threats |
|--|---|
| Excellent Business Opportunities where both FOSS and Proprietary software collaborate to deliver turnkey solutions for clients. | Reluctance by Windows to play fairly makes the gap for cooperation between FOSS and Proprietary Software (Windows) widen. |



MediaCorp Customers appreciating hybrid FOSS/Windows Solutions - Forecast





Our contacts

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