






SYSMAS
a handy software to manage by SMS &
Web Interface notifications on HWC &
other wildlife events...




Prepared for the 8th International Congress for Wildlife
and Livelihood 'on Private and Communal Lands



 Sébastien Le Bel & David Chavernac




Human Wildlife Conflicts
Social Crisis & R&D Challenge?

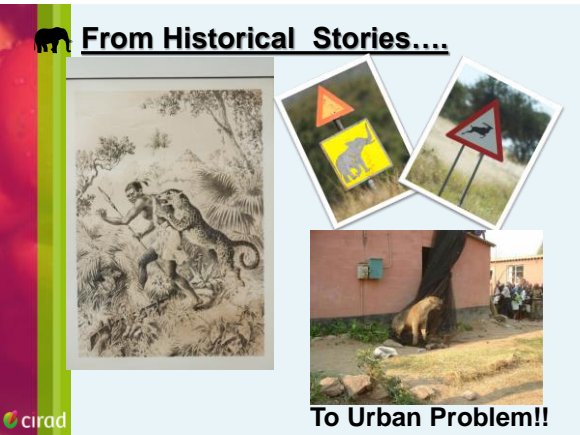
 


  



 


SysM@S
easy data System Management – V.dev






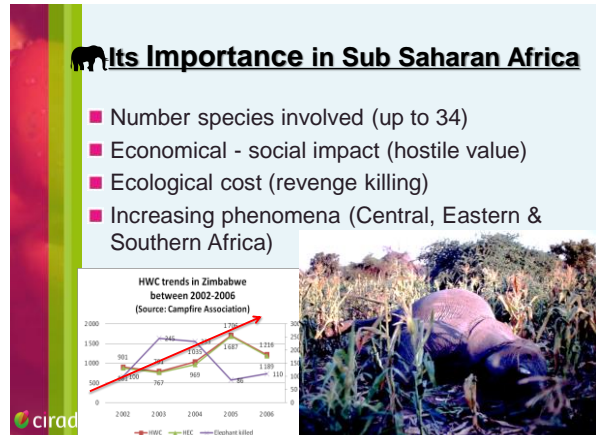
 **From Historical Stories....**


 



To Urban Problem!!







 **Its Importance in Sub Saharan Africa**

- Number species involved (up to 34)
- Economical - social impact (hostile value)
- Ecological cost (revenge killing)
- Increasing phenomena (Central, Eastern & Southern Africa)


HWC trends in Zimbabwe between 2002-2006
(Source: Campfire Association)

| Year | HWC | HEC | Elephant killed |
|------|------|-----|-----------------|
| 2002 | 500 | 100 | 100 |
| 2003 | 1000 | 200 | 200 |
| 2004 | 1500 | 300 | 300 |
| 2005 | 1000 | 200 | 200 |
| 2006 | 1200 | 300 | 300 |






Hopeless situation?




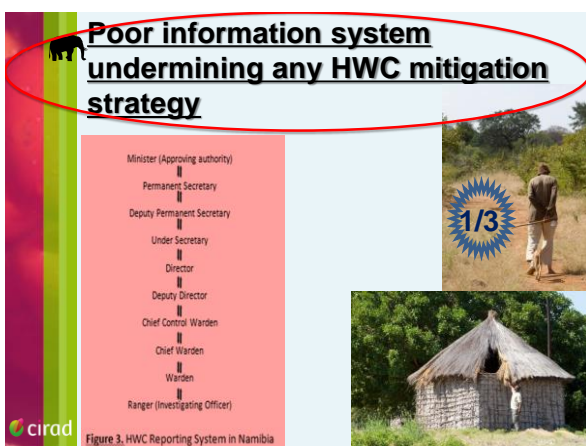
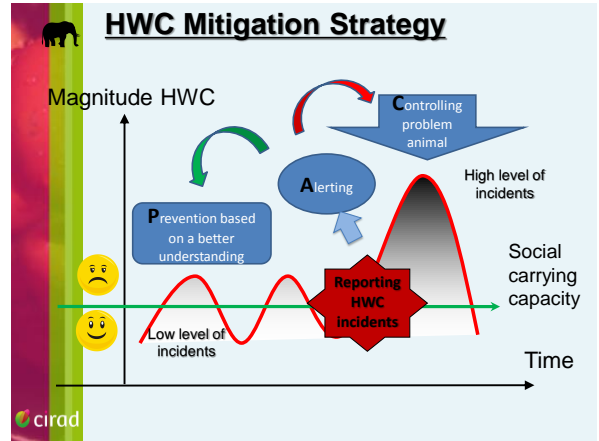
- On-going problem
- Negative impact
- Local specificities
- Human perception rather than facts

Decreasing the negative impact of HWC

Increasing the tolerance of local communities









Cell Phone Mania


- Cell Phone: a booming sector in SSA
 - 454 millions connections,
 - > 700 millions in 2016,
 - More than a communication channel.
- MDCS (Mobile Data Collection System)
 - Active development & user communities,
 - Technical complexity & ease of setup,
 - Appropriateness for rapid assessments.

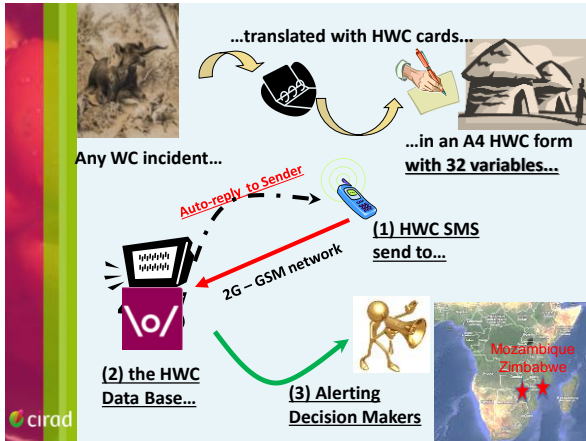
The NOMAD (Humanitarian Operations Mobile Acquisition of Data) ([Chris Jung 2011](#))

- FrontlineSMS
 - Open source,
 - Widely utilized by NGOs,
 - Managing SMS with GSM network.









Le Bel S., Chavernac D., Mapuvire G., Cornu. G. 2014. "FrontlineSMS as an early alert network for human-wildlife mitigation: lessons learned from tests conducted in Mozambique and in Zimbabwe." *Electronic Journal of Information Systems in Developing Countries*. 60(6).

- To start with **Keyword + space** >> informing the computer (auto-reply & forward message).

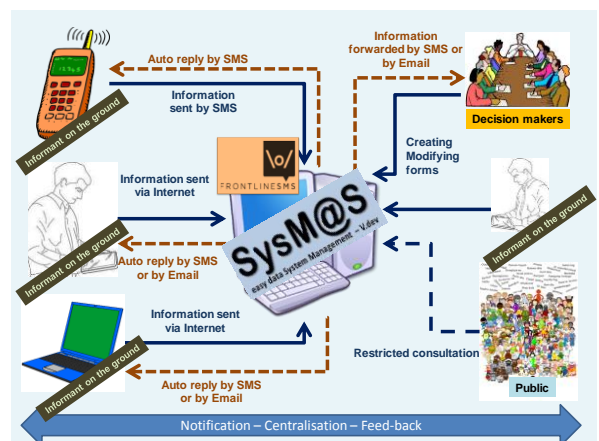
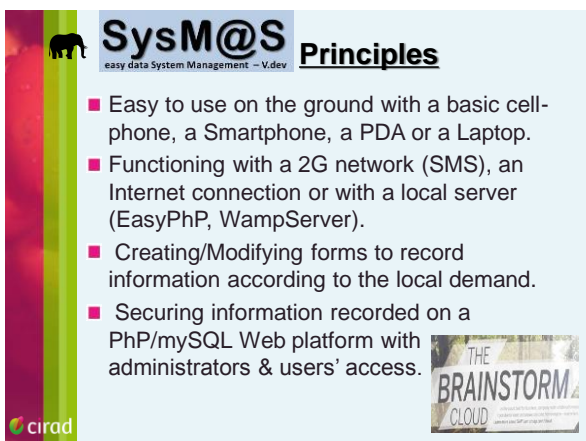
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- Recording **NO** information

- To separate each information by a comma

Typing errors

Transfer hiccups with commercial 3G keys



 **At work** **SysM@S**
easy data System Management – V.dev
[CONFLITO30](#) [CHFAC36](#) [Accueil | Admin](#)

Notification des conflits Homme - Faune Sauvage
Conflits Homme - Faune Sauvage (Mozambique et Afrique Centrale)

Pour ce projet, veuillez utiliser les modèles de sms ci-dessous (merci de respecter le reste du sms).

SMS Conflit HFS, site de GILE :

```
GILECHF [0]CONFLITO30[1]Nome[2]DataEvt[3]HoraEvt[4]Distrito
[5]Aldeia[6]LocalEvt[7]ZonaFreq[8]NomeEsp[9]NumEsp
[10]NomePessoa[11]NumPessoaMorta[12]NumPessoaFerida
[13]Sexo[14]Idade[15]TipoActividade[16]TipoCultural[17]ExtArea
[18]ExtAreaAfectada[19]GadoAfectado[20]NumAfectado
[21]SexoAfectado[22]IdadeAfectado[23]InfDest
[24]PrevencaoComm[25]ReaccaoComm[26]ReaccaoFiscais
[27]NumAnimAbatido[28]Longitude[29]Latitude[30]GILECHF[F]
```



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CONFLITO30
CHFAC36

Novelle Fiche

| id | Nome | DataEvt | HorEvt | Distrto |
|----|---------|------------|--------|---------|
| 1 | Joao | 18/5/2014 | NOIT | PEBANE |
| 2 | JOAO | 20/5/2014 | NOIT | PEBANE |
| 3 | JOA | 18/5/2014 | NOIT | PEBANE |
| 4 | JOAO | 19/5/2014 | NOIT | PEBANE |
| 5 | CURASSE | 01/06/2014 | NOIT | GILE |
| 6 | MUCUVA | 30/05/2014 | NOIT | PEBANE |
| 7 | NHOCA | 31/05/2014 | NOIT | PEBANE |
| 8 | MUCUVA | 04/06/2014 | NOIT | PEBANE |
| 9 | NHOCA | 21/05/2014 | NOIT | PEBANE |
| 10 | JOAO | 18/5/2014 | NOIT | PEBANE |
| 11 | JOAO | 17/5/2014 | NOIT | PEBANE |
| 12 | MUCUVA | 14/06/2014 | NOIT | PEBANE |

CONFLITO30
CHFAC36

Novelle Fiche

| id | Nome | DataEvt | HorEvt | Distrto |
|----|-----------------|-----------|--------|---------|
| 1 | joao | 18/5/2014 | NOIT | PEBANE |
| 2 | DataEvt | | | |
| 3 | HorEvt | | | |
| 4 | Distrto | | | |
| 5 | Aldeia | | | |
| 6 | LocalEvt | | | |
| 7 | ZonaFreq | | | |
| 8 | NomeEsp | | | |
| 9 | NumEsp | | | |
| 10 | NomePessoa | | | |
| 11 | NumPessoaMorta | | | |
| 12 | NumPessoaFerida | | | |
| 13 | Idade | | | |
| 14 | TipotActiv | | | |
| 15 | Tipocultura | | | ARRO |
| 16 | ExtArea | | | 150.100 |
| 17 | ExtAreaAfectada | | | 15. |
| 18 | GadoasAfectada | | | |
| 19 | NumAfectado | | | |
| 20 | SexoAfectado | | | |
| 21 | IdadeAfectado | | | |
| 22 | InfDest | | | |
| 23 | PrevencaoComm | | | VED |
| 24 | ReaccoComm | | | BAR |
| 25 | ReaccoFiscals | | | NAO |
| 26 | NumAnimAbatido | | | |
| 27 | Longitude | | | |
| 28 | Latitude | | | |
| 29 | MotCle | | | GILECHF |

[illegible]

SysM@S Further Development

easy data System Management – v4dev



**Thanks for your
attention!!**

Acknowledgement
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More information??
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