South Sudan

Integrated Disease Surveillance and Response (IDSR)

Epidemiological Update W24 2018 (Jun11- Jun17)

Annexes W24 2018 (Jun 11 – Jun 17)



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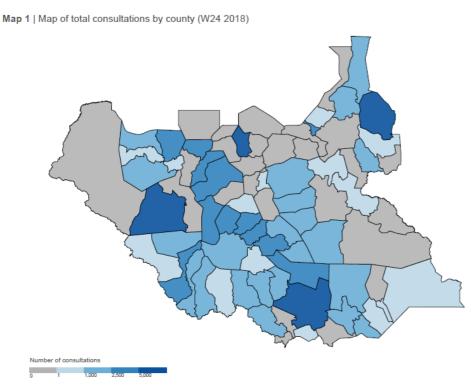
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Sources of data

1. Weekly IDSR Reporting Form

2. Weekly EWARS Reporting Form

Access and Utilization | Map of consultations by county

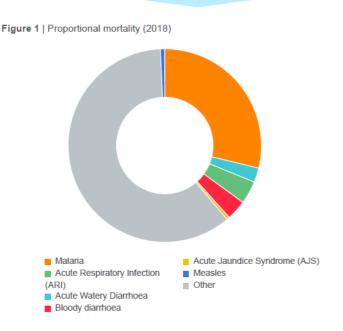


| Hub | W24 | 2018 |
|-------------|---------|-----------|
| Aweil | 6,653 | 287,817 |
| Bentiu | 6,749 | 356,847 |
| Bor | 7,328 | 243,357 |
| Juba | 13,730 | 260,330 |
| Kwajok | 13,585 | 541,584 |
| Malakal | 16,482 | 291,798 |
| Rumbek | 19,546 | 386,157 |
| Torit | 6,252 | 132,635 |
| Wau | 8,495 | 205,267 |
| Yambio | 15,239 | 276,275 |
| South Sudan | 114,059 | 2,982,067 |

The total consultation in the country since week 1 of 2018 is 2,982,067 by hub, Kwajok registered the highest number of consultations as indicated in the table above. The total number of consultations by county is indicated in the map above. See the key for more information.



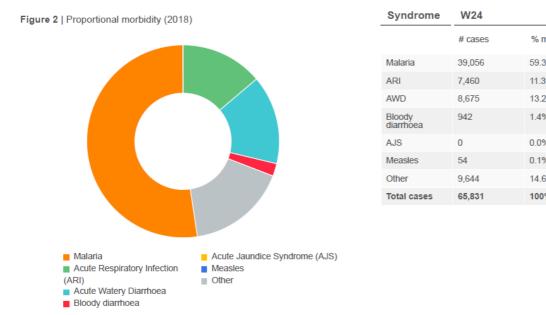
Proportional mortality



| Syndrome | W24 | | 2018 | | | | |
|---------------------|----------|-------------|----------|-------------|--|--|--|
| | # deaths | % mortality | # deaths | % mortality | | | |
| Malaria | 6 | 60.0% | 120 | 28.8% | | | |
| ARI | 1 | 10.0% | 16 | 3.8% | | | |
| AWD | 1 | 10.0% | 10 | 2.4% | | | |
| Bloody diarrhoea | 0 | 0.0% | 14 | 3.4% | | | |
| AJS | 0 | 0.0% | 2 | 0.5% | | | |
| Measles | 0 | 0.0% | 3 | 0.7% | | | |
| Other | 2 | 20.0% | 252 | 60.4% | | | |
| Total deaths | 10 | 100% | 417 | 100% | | | |

Figure 1, above shows the proportional mortality for 2018, with malaria being the main cause of mortality accounting for 28.8% of the deaths since week 1 of 2018, followed by bloody diarrhoea, and acute watery diarrhoea.

Proportional morbidity

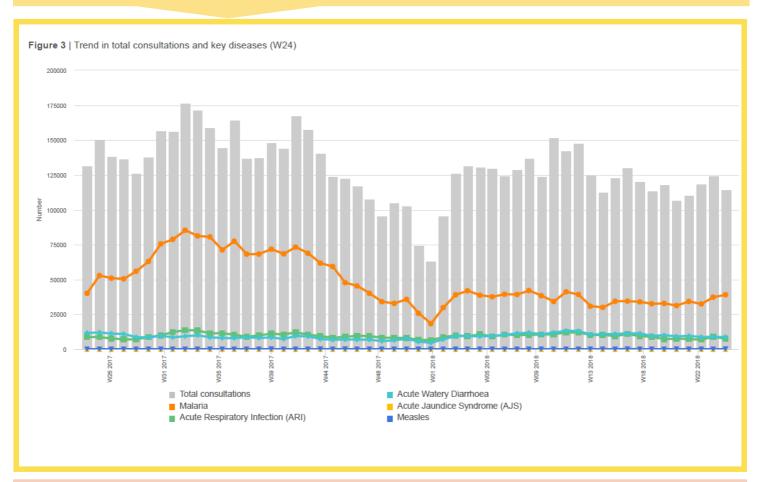


| Syndrome | W24 | | 2018 | | | | | | |
|---------------------|---------|-------------|-----------|-------------|--|--|--|--|--|
| | # cases | % morbidity | # cases | % morbidity | | | | | |
| Malaria | 39,056 | 59.3% | 864,231 | 52.4% | | | | | |
| ARI | 7,460 | 11.3% | 228,074 | 13.8% | | | | | |
| AWD | 8,675 | 13.2% | 246,294 | 14.9% | | | | | |
| Bloody diarrhoea | 942 | 1.4% | 35,137 | 2.1% | | | | | |
| AJS | 0 | 0.0% | 149 | 0.0% | | | | | |
| Measles | 54 | 0.1% | 410 | 0.0% | | | | | |
| Other | 9,644 | 14.6% | 276,272 | 16.7% | | | | | |
| Total cases | 65,831 | 100% | 1,650,567 | 100% | | | | | |

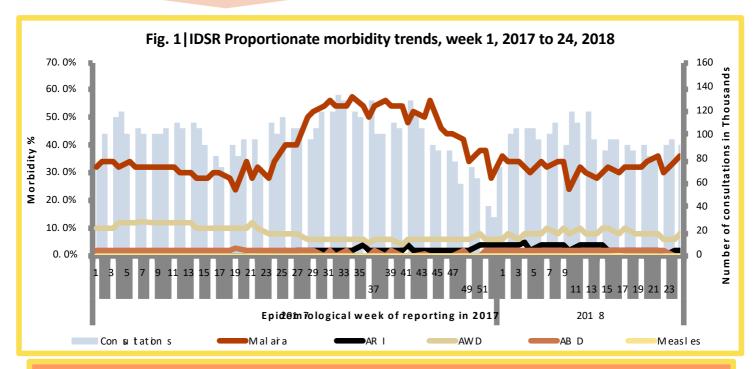
Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 864,231 (52.4%) followed by ARI, AWD and ABD respectively since week 1 of 2018. refer to the figure above for more information.



Trend in consultations and key diseases

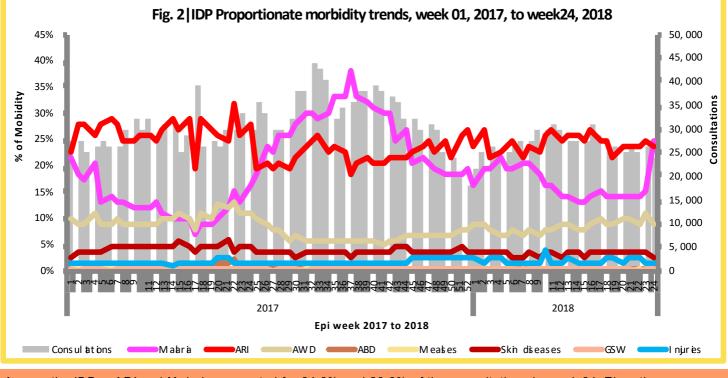


IDSR Proportionate morbidity trends - in relatively stable states

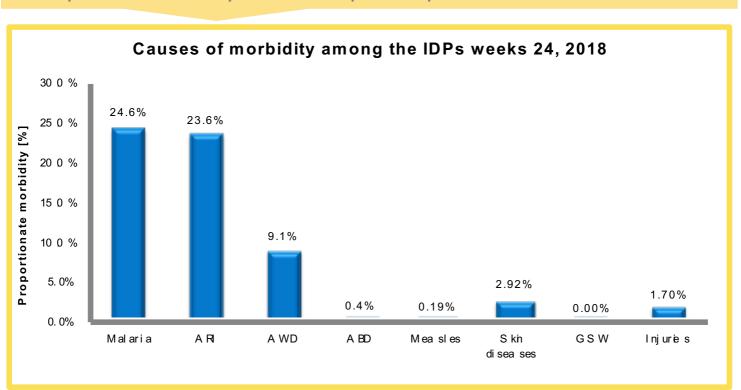


In the relatively stable states, malaria is the top cause of morbidity accounting for 36.8% of the consultations in week 24 (representing an increase from 34% in week23).





Among the IDPs, ARI and Malaria accounted for 24.6% and 23.6% of the consultations in week 24. The other significant causes of morbidity in the IDPs includes AWD, Skin diseases, and Injuries.

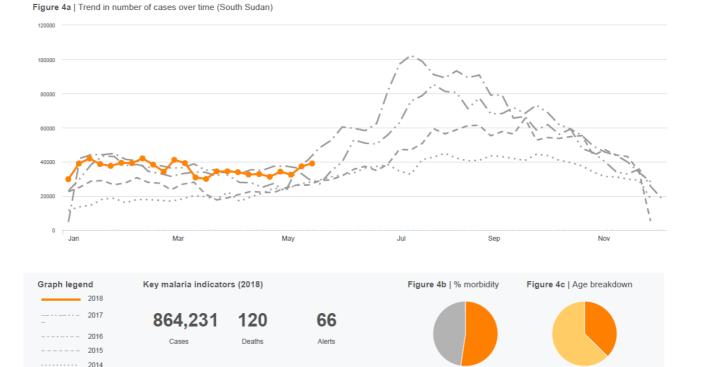


IDP Proportionate Morbidity trends – in displaced Population

The top causes of morbidity in the IDPs in 2018 include ARI, Malaria, AWD, Skin diseases, Injuries and ABD.

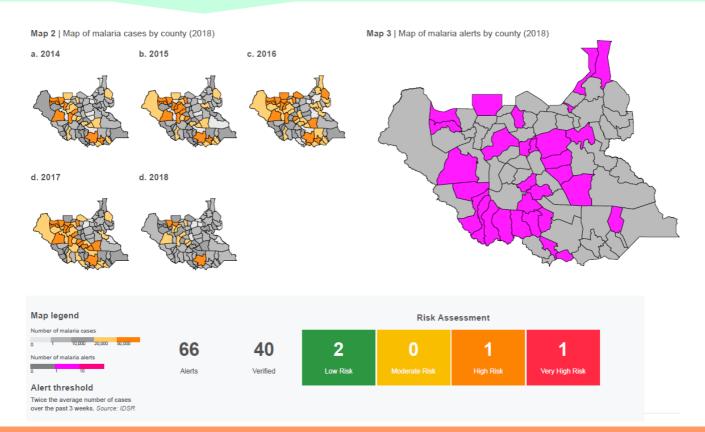


Malaria | Trends over time



Malaria is the top course of Morbidity in the country, a total of 864,231 cases with 120 deaths registered since week 1 of 2018. malaria trend for week 24 of 2018 is above 2014, 2015, and 2016 however, it's below the trend for 2017 as shown in the figure 4a, above.

Malaria | Maps and Alert Management

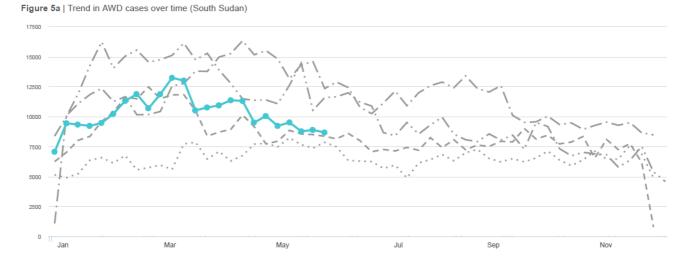


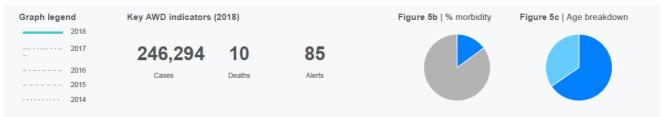
Since the beginning of the year, a total of 66 malaria alerts have been triggered, 40 of those were verified. The Maps above indicate the location reporting malaria alerts from 2014, 2015, 2016, 2017, and 2018.





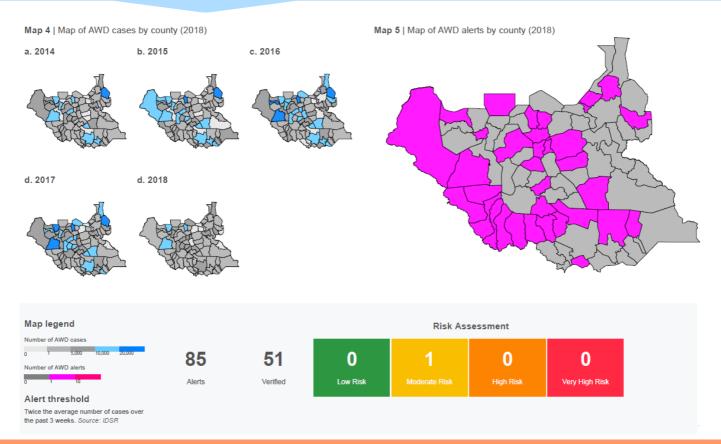
Acute Watery Diarrhoea | Trends over time





AWD is one of the top causes of morbidity in the country with 246,294 cases reported since week 1 of 2018 including 10 deaths. AWD trend for 2018 is below 2014, & 2015 as shown in figure 5a, above.

Acute Watery Diarrhoea | Maps and Alert Management



The number of AWD alerts triggered since week 1 of 2018 is 85, out of which 51 were verified. Maps above highlight the areas reporting AWD alerts from 2014 to 2018.





Acute Bloody Diarrhoea | Trends over time

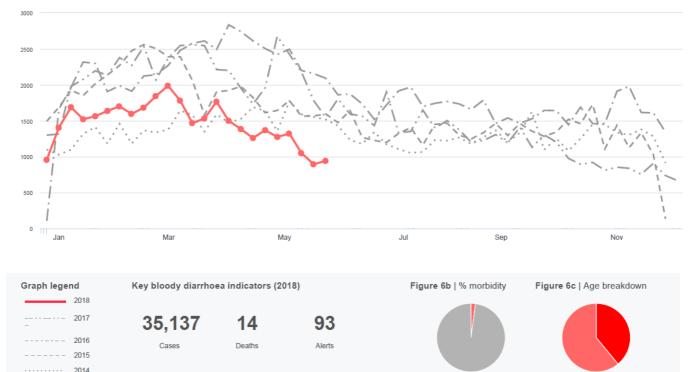
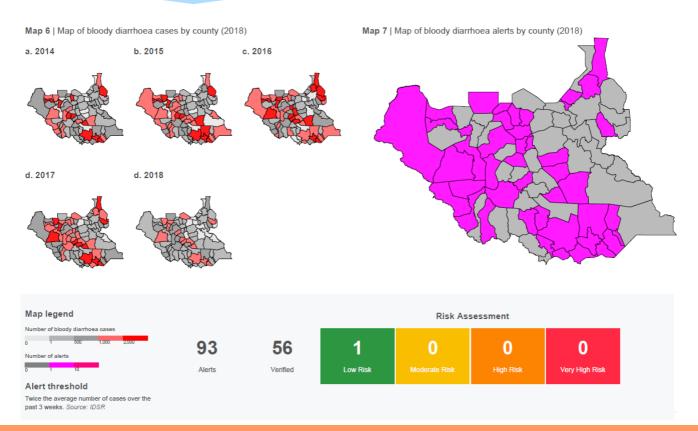


Figure 6a | Trend in bloody diarrhoea cases over time (South Sudan)

Since week 1 of 2018, a total of 35,137 cases of ABD have been reported country wide including 14 death. ABD trend for 2018 is below 2014, 2015, 2016, and 2017 respectively. Refer to figure 6a, above.

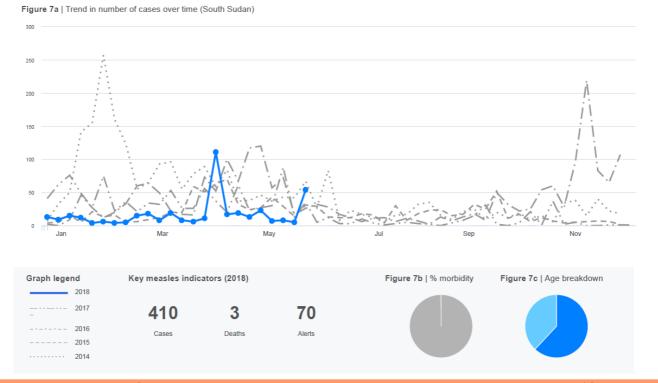
Acute Bloody Diarrhoea | Maps and Alert Management



Total of 93 alerts were generated since week 1 of 2018, of which 56 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2018 are shown above.

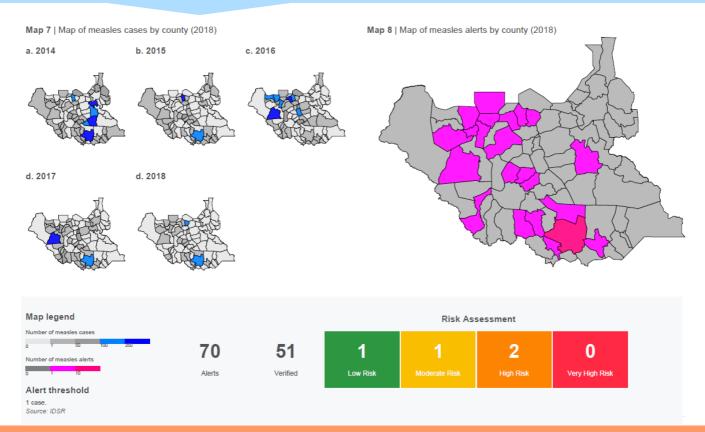






Since the beginning of 2018, at least 410 suspect measles cases including 3 death (CFR 0.73%) have been reported. Of these, 84 suspect cases have undergone measles case-based laboratory-backed investigation with 68 samples collected out of which 14 measles IgM positive cases; 14 clinically confirmed cases; and 3 cases confirmed by epidemiological linkage.

Measles | Maps and Alert Management

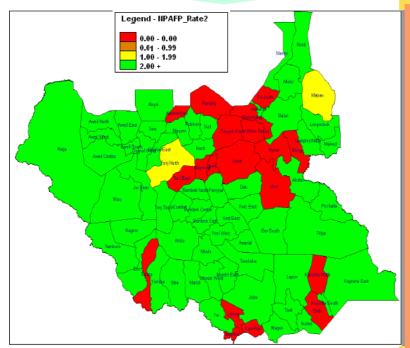


Since week 1 of 2018, 70 alerts of measles were triggered and 51 of those have been verified at county level. Maps of areas raising alerts from 2014 to 2018 are shown above.





Acute Flaccid Paralysis | Suspected Polio



In week 19, 2018, Fourteen (14) new AFP cases were reported from Lakes, Northern Bahr el Ghazal, Upper Nile, Eastern Equatoria and Warrap hubs. This brings the cumulative total for 2018 to 148 AFP cases.

The annualized non-Polio AFP (NPAFP) rate (cases per 100,000 population children 0-14 years) in 2018 is 4.9 per 100,000 population of children 0-14 years (target \geq 2 per 100,000 children 0-14 years).

Stool adequacy was 88% in 2018, a rate that is higher than the target of \geq 80%.

Environmental surveillance ongoing since May 2017; with 23 samples testing positive for non-polio enterovirus (NPEV) in 2017 and seven (7) NPEV positive sample in 2018.

Source: South Sudan Weekly AFP Bulletin

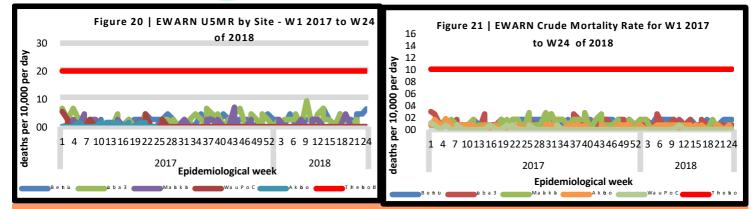
Mortality in the IDPs

Table 6 | Proportional mortality by cause of death in IDPs W24 2018

| Cause of Death by IDP site | | ntiu | Juba 3 | Total deaths | | | |
|----------------------------|-------|-------|--------|--------------|--|--|--|
| - | <5yrs | ≥5yrs | ≥5yrs | | | | |
| Car accident | 2 | | | 2 | | | |
| Drown | 1 | | | 1 | | | |
| malaria | | | 1 | 1 | | | |
| Neonatal Sepsis | | 1 | | 1 | | | |
| Renal failure | 1 | | | 1 | | | |
| Septic shock | 1 | | | 1 | | | |
| TB/HIV/AIDS | 1 | | | 1 | | | |
| LRTI | 1 | | | 1 | | | |
| Anaemia | | | 1 | 1 | | | |
| Severe dehydration | | | 1 | 1 | | | |
| Domestics Violence | 1 | | | 1 | | | |
| Abdominal Obstruction | 1 | | | 1 | | | |
| Acute Liver Failure | 1 | | | 1 | | | |
| Total deaths | 10 | 1 | 3 | 14 | | | |

Among the IDPs, mortality data was received from Bentiu PoC, & UN House PoC in week 24. (Table 6). **A total of 14** deaths were reported during the week. Bentiu PoC report 11 deaths (78.6%) in the week. During the week, 10 (71%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 24 are shown in Table 6.



The U5MR in all the IDP sites that submitted mortality data in week 24 of 2018 is below the emergency threshold of 2 deaths per 10,000 per day (Fig. 20).

The Crude Mortality Rates [CMR] in all the IDP sites that submitted mortality data in week 24 of 2018 were below the emergency threshold of 1 death per 10,000 per day (Fig. 21).

Mortality in the IDPs - Overall mortality in 2018

Table 7 | Mortality by IDP site and cause of death as of W24, 2018

| IDP site | acute watery | glarrhoea | GSW | Gunshot wound | Heart Failure | | <u>e</u> | Meningitis | perinatal death | pneumonia | Rabies | SAM | Sepsis | тв/ніv/Аірs | Ē | HIV /AIDS | | Others | Grand Total |
|-----------------------------|--------------|-----------|-----|---------------|---------------|----|----------|------------|-----------------|-----------|--------|-----|--------|-------------|----|-----------|----|--------|-------------|
| Bentiu | | 7 1 | 1 | 2 | 1 | 2 | 7 | 3 | 15 | 10 | 1 | 9 | 16 | 9 | 1 | 13 | 7 | 144 | 249 |
| luba 3 | 1 | 1 | | | 1 | | 7 | | | 3 | | 2 | | 1 | | 4 | 7 | 39 | 66 |
| Malakal | | 1 | | | 3 | 1 | | | 1 | 1 | | | | | | | 2 | 17 | 26 |
| Akobo | | | | 1 | | 2 | 3 | | | 2 | | 1 | 2 | 1 | 1 | | | 6 | 19 |
| Wau PoC | | | | | | | 1 | | | | | | | | | | | 0 | 1 |
| Grand Total | | 3 3 | 1 | 3 | 5 | 5 | 18 | 3 | 16 | 16 | 1 | 12 | 18 | _11 | 2 | 17 | 16 | 206 | 361 |
| Proportionate mortality [%] | 2% | 5 1% | 0% | 1% | 1% | 1% | 5% | 1% | 4% | 4% | 0% | 3% | 5% | 3% | 1% | 5% | 4% | 57% | 100% |

A total of 361 deaths have been reported from the IDP sites in 2018 Table 7. The top causes of mortality in the IDPs in 2018 are shown in Table 7.



For more help and support, please contact:

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Notes

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financial support.

The data has been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

More information can be found at http://ewars-project.org











Humanitarian Aid and Civil Protection