SHERP

Augmenting WFP’s last-mile capacity
by using amphibious all-terrain vehicles
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles // WFP Logistics

PROBLEM

SOLUTION

TRIAL

OPERATION

NEXT

WFP Logistics
Global Fleet

Managing 32 Workshops

800 trucks

Service Provision (assets + staff)

Deployed in 16 countries

Field Support + Fleet Innovation
• Last-mile road accessibility
• Last-mile road accessibility
• Last resort: airlift / airdrops
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles // WFP Logistics

Figure 1 – Ganyiel delivery route
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

WFP Logistics
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles // WFP Logistics
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
<th>TRIAL</th>
<th>OPERATION</th>
<th>NEXT</th>
</tr>
</thead>
</table>

**SHERP** – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles  //  WFP Logistics
**SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles**

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**Problem:**

- Using conventional means to reach remote areas.

**Solution:**

- Incorporating SHERPs (Small, High-mobility, Remote-area, Pre-positioned, Deployable) and barges in the logistics chain.

**Table:**

<table>
<thead>
<tr>
<th></th>
<th>Airdrop</th>
<th>SHERPs &amp; barges</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Route</strong></td>
<td>Juba – Ganyiel</td>
<td>Juba – Bor – Tiar – Ganyiel</td>
</tr>
<tr>
<td><strong>Cost per MT</strong></td>
<td>$2,400</td>
<td>$450**</td>
</tr>
<tr>
<td><strong>Annual demand Ganyiel 2018</strong></td>
<td>3000 MT</td>
<td></td>
</tr>
<tr>
<td><strong>Total cost per year</strong></td>
<td>$7,200,000</td>
<td>$1,350,000</td>
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<tr>
<td><strong>Potential savings</strong></td>
<td><strong>5,850,000 USD / year</strong></td>
<td></td>
</tr>
</tbody>
</table>

* (if all distributions are substituted by SHERPs)

** (incl. all cost for overland transport, barge services, fuel, maintenance, overheads and the service provision fee)
SOUTH SUDAN

- 25 Airdrops replaced
- 90% savings in transport cost compared to airdrops
- USD 1.7m saved by replacing airfreight with cost-efficient overland transport
- 800 MT delivered in 5 weeks

SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

// WFP Logistics
UPDATE ON

SHERP

DRC Operation

<table>
<thead>
<tr>
<th>Date</th>
<th>Rotations per day</th>
<th>per vehicle</th>
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<tbody>
<tr>
<td>14-May</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>15-May</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>16-May</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>17-May</td>
<td>3</td>
<td>1.5</td>
</tr>
<tr>
<td>18-May</td>
<td>1</td>
<td>0.5</td>
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<tr>
<td>19-May</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>20-May</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>21-May</td>
<td>6</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL TRANSPORTED (1 week) **28 MT**

SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

WFP Logistics
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

PROBLEM

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- Load test
- River crossing
- Cargo slide
- Passing swamps
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

**Payload:** 0.8 MT

**Fuel Consumption:** 3.0 l/h
PROBLEM

SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

SOLUTION

TRIAL

07/2018: First test in Kampala
12/2018: Trial operation (3 units SSD)
03/2018: Trial operation (3 units DRC)

OPERATION

NEXT
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles

**Figure 2 - Old Fangak delivery route**
SHERP – Augmenting WFP’s last-mile capacity by using amphibious all-terrain vehicles
• First emergency deployment (DONE)
• Scale up operation in South Sudan
• Requests from other agencies
• Close collaboration with the supplier
A special THANK YOU goes to

WFP South Sudan

Regional Bureau Nairobi

WFP DRC

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