

# Conducting bridge repairs well ahead of schedule

## Bridging Case Study



## Juba Nile Bridge repairs, South Sudan

**Customer:** United Nations Office for Project Services

**Solution:** Mabey Compact 200™





## The Challenge

When one of the two adjacent 252-metre Juba Nile Bridges was damaged in 2010, leaving it completely unusable for heavy vehicles, it had major implications for the inhabitants of the capital city of the world's newest nation. The Juba Nile Bridges provide the only access over the River Nile in South Sudan and as most goods and foodstuffs are imported from Kenya and Uganda along the Juba–Nimule road, rural food security was severely compromised. As a result, South Sudan's president, Salva Kiir, made the repair of the Juba Nile Bridge one of his Government's priorities during the administration's first 100 days.

The original Juba Nile Bridge crossing was formed from two Bailey Bridges. However, following an earlier collapse of one of the bridges, two replacement Mabey Compact 200™ (Mabey C200™) bridges were installed in 2005. It was one of these newer bridges that was damaged by a bulldozer in 2010.

## The Solution

Funding for the repair of the Juba Nile Bridge was provided by the United States Agency for International Development (USAID) under the Accelerated Infrastructure Program, a Cooperative Agreement with United Nations Office for Project Services (UNOPS) which has strengthened many parts of the country's infrastructure.

The programme includes the construction and rehabilitation of schools, health centres and roads, and has a focus on development of skills of local contractors and communities through targeted training, close supervision of contractors and, where feasible, labour-based construction methods.

UNOPS purchased the replacement components required to repair the truss of the bridge section that had been damaged from Mabey, and issued a tender for contractors to carry out the installation works. A local contractor won the tender to carry out the repair works.

When the Mabey C200™ bridges were installed in 2005, Mabey's innovative Bailey Replacement system was utilised, whereby a dilapidated Bailey Bridge is replaced by a Mabey C200™ bridge in one swift, safe operation.

UNOPS supervised the contractor and coordinated the Government's traffic management authorities during the repair works, which were carried out in less than a month.

The fully repaired bridge was reopened to full capacity several weeks ahead of the scheduled completion date.

## The Result

The Mabey C200™ has proved a robust bridging solution on countless occasions around the world, and in a wide variety of applications. Its modular nature makes essential repairs easier for the times when bridges are damaged. In the case of the Juba Nile Bridge, this ease of repair was critically important, and once components had been sourced, the repair programme was carried out well ahead of schedule.

Once the bridge was opened, the long traffic queues that had resulted when the bridge was damaged, disappeared immediately, allowing traffic, goods and trade to cross with ease once again and life to return to normality for the people of Juba.



**Mabey Bridge Limited, Unit 9, Lydney Harbour Estate, Lydney, Gloucestershire GL15 4EJ, United Kingdom**

Office: +44 (0)1291 623 801 Email: [mail@mabeybridge.com](mailto:mail@mabeybridge.com) [www.mabey.com](http://www.mabey.com)

