



research bridges railways tunnelling monitoring technology management international

# River Suir Stay Cable Bridge (Waterford – Ireland)

The Waterford Stay Cable Bridge (River Suir Bridge) is part of the Waterford Bypass N25. The cable stayed bridge has a span configuration 40, 70, 90, (230), 35m= 475 m and a deck with of 30.60 meter. The concrete pylon has a height of 95.6 meter above deck. The bridge was completed in September 2009.

Before traffic opening VCE performed cable measurements of all 76 stays. The results are the actual cable forces and the cable damping.

On the bridge a permanent monitoring system was installed by VCE. The system includes 62 measurement channels. The data is automatically analysed on site and presented via internet by the BRIMOS® Web-Interface.

- Client: Mekano4
- Location: Waterford, Ireland
- Checking Period: starting 2009
- Services: Cable measurements  
Permanent monitoring system



**BRIMOS® Services conducted:**

- |                              |  |  |  |  |
|------------------------------|--|--|--|--|
| <b>Lifecycle Management:</b> | <input checked="" type="checkbox"/> Condition Assessment | <input checked="" type="checkbox"/> Condition Monitoring | <input type="checkbox"/> Rehabilitation Planning             | <input type="checkbox"/> Quality Control |
|                              | <input checked="" type="checkbox"/> Lifetime Assessment  | <input type="checkbox"/> Traffic Analysis                | <input checked="" type="checkbox"/> Environmental Influences | <input type="checkbox"/> Risk Assessment |
| <b>Special Measurements:</b> | <input type="checkbox"/> Attendant Monitoring            | <input type="checkbox"/> Noise and Vibrancy              | <input type="checkbox"/> Deflection Measurements             | <input type="checkbox"/> Seismics        |