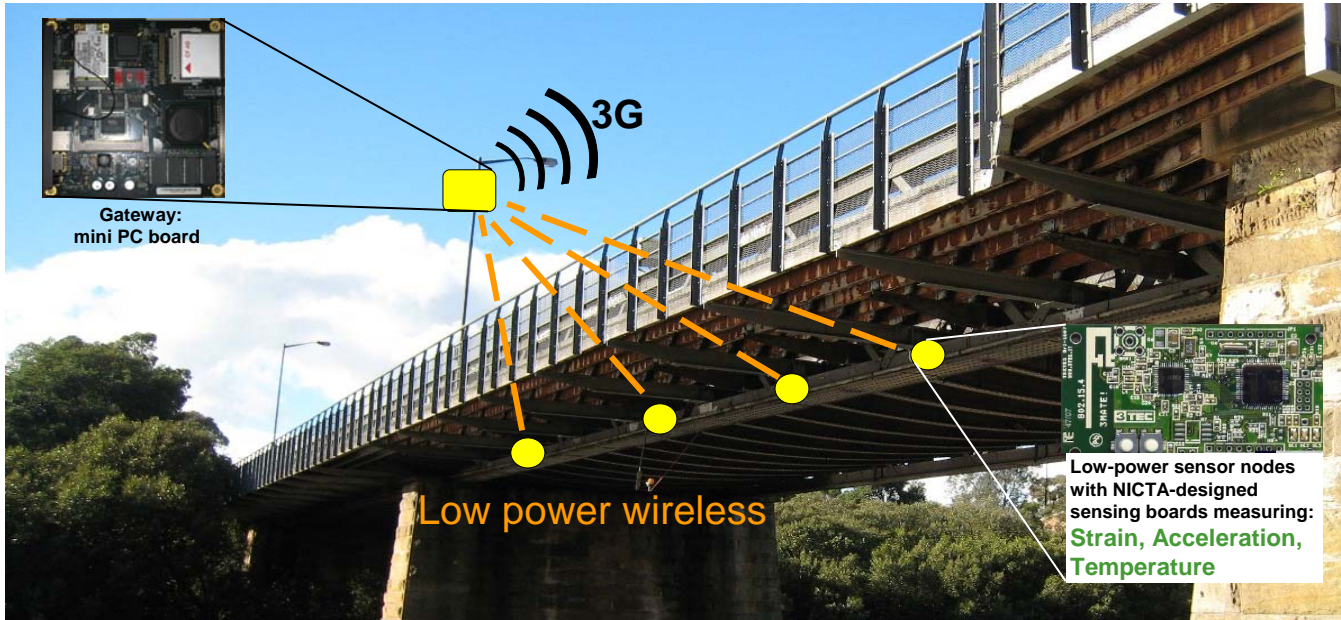


Structural Health Monitoring for Bridges



Athanassios.Boulis@nicta.com.au and Max.Ott@nicta.com.au

Investigate the commercial & technical potential of monitoring the structural health of bridges using **wireless sensor networks**



Actual bridge deployment within Sydney metro area

Establishing a Testbed

- **Real** sensing data under **real** conditions with **off-the-shelf** hardware
- Remote operation
- Over-provisioned
 - Supports many configuration options
 - Energy provided, but measured
- Managing Software: OMF
 - Remote controllable experiments
 - Full programmability
 - Comprehensive measurement management

Looking Ahead

- Open the platform to more researchers
- Validate sensors
 - against RTA's current measurement regime.
- Monitor wireless communication performance:
 - Guide design of network protocols to maximise lifetime.

More info: <http://npc.nicta.com.au/projects/rtabridge>

Partner:



www.nicta.com.au

From imagination to impact