

CASE STUDY:

RACE RESULT Ubidium Installation at the National Cycling Centre

Client: British Cycling / National Cycling Centre / Manchester City Council

Venue: National Cycling Centre, Manchester, UK

Installation Date: December 2024

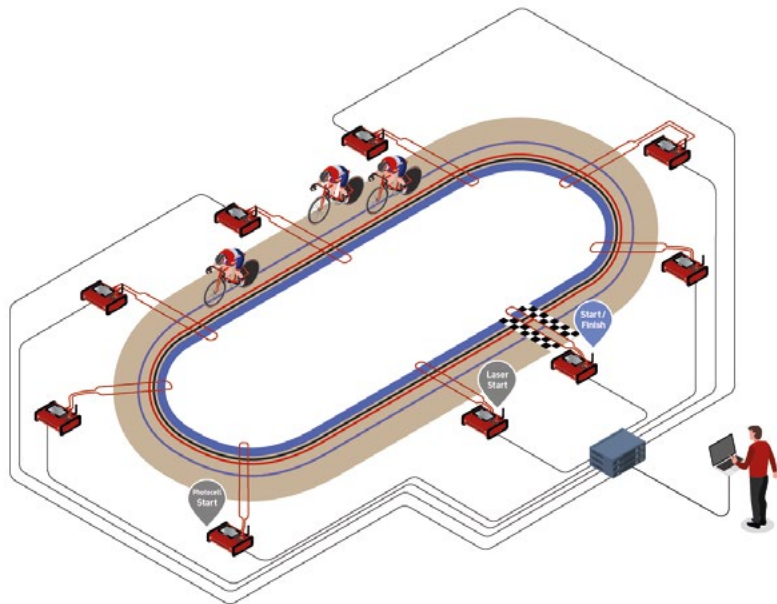
Challenge

British Cycling and The National Cycling Centre faced a major issue: a **high rate of lost transponder passings due to EMI/RFI interference** across all nine timing loops. This was significantly **affecting race accuracy** and **disrupting daily training sessions** in one of the world's leading cycling hubs. A **reliable, interference-free** solution was critical.

Solution

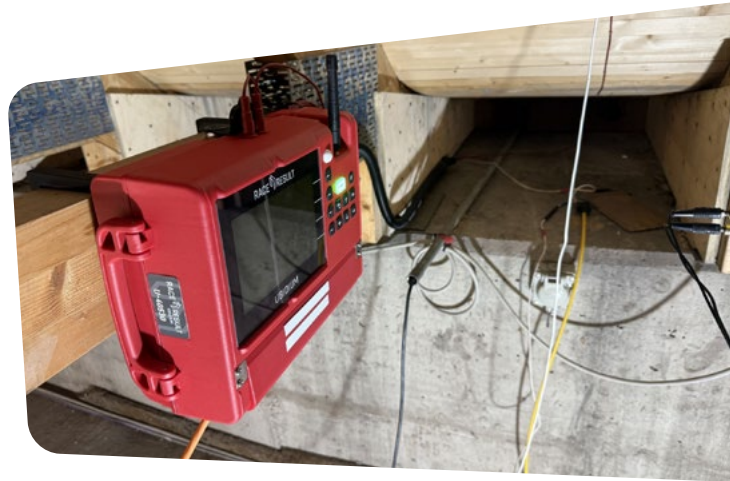
To eliminate detection failures, the following system was installed:

- ✓ **9 Ubidium Decoders** – Installed at each timing point, sending real-time data to a central server via the internal network.
- ✓ **9 Timing Loops** – Mounted to the underside of the velodrome track using a tack gun/stapler and connected to each Ubidium decoder.
- ✓ **200 x V3 Active Pro Transponders** – Mounted to the front bike fork for precision timing.
- ✓ **Integration with Swiss Timing** – Connected with the Automatic Starting Gate & Photocells for seamless race starts and finishes.
- ✓ **Power over Ethernet (POE)** – Ubidium decoders require only a single cable per unit, simplifying installation and maintenance.



Results

- ✓ **Zero missed detections** in the first commissioning test with **12 riders and 10,000 recorded passings**, even with loop power at just **50%**.
- ✓ **Interference-free, reliable timing** for **daily training** and **competitive events**.
- ✓ **Seamless installation** – Ubidium decoders fit neatly beneath the track.
- ✓ **Smooth transition from MyLaps**, resolving a 2-year-long issue.



Client Testimonial

"It's a huge relief to have an alternative solution and finally put an end to the issue we've faced for over two years. I genuinely think a lot of velodromes will need this system!"

Adam Bonser, Chief Test Engineer, Great Britain Cycling Team

race result AG
Joseph-von-Fraunhofer-Straße 11
76327 Pfinztal
Germany

Tel. +49 (721) 961 409 01
info@raceresult.com
www.raceresult.com



WEBSITE