Testing; a consultants perspective

Eric O’Donnell
Managing Director, Sports Labs Ltd.
Testing; a consultants perspective

- Good design/ construction engineering
- Who is performing testing
- Laboratories and their competence
- Testing for what purpose
- What testing is important - safety?
- What do the results mean to a consultant?
- Confidence in testing
- Summary
Testing; a consultants perspective

• Contractors view of testing;
The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a piece of work or product.

• Governing Bodies view of testing;
A process of evaluation that implies standardization in which the individual is compared against some norm-referenced set of scores or to a known group of individuals.

• Consultants view of testing
Covering ones backside!
Testing; a consultants perspective

- *Good design/ engineering*
- Cannot be replaced by testing
- Design from the ground up
- Good design should be translated into good construction practice
- Testing should be complimentary
- Testing here can be use as a tool to alter the design during the construction process
Testing; a consultants perspective

Compaction control
Base construction
Testing; a consultants perspective

- Who is performing the testing?
- Commercial laboratories
- Individuals
- Experience/qualifications of Staff
- Equipment
Testing; a consultants perspective

- Laboratories and their competence
- Accreditation to ISO 17025
- Approval by Sports Governing Bodies
- Membership of the ISSS
- Testing proficiency - round robin trials

“The accuracy of a test result is fundamental. Providing laboratories with poor test methods and equipment which cannot be calibrated which in turn leads to a lack of reproducible results is a recipe for disaster as it leads to a lack of confidence in the industry. Poor testing data can lead to erroneous decisions with serious commercial implications”.
Testing; a consultants perspective

- Testing for what purpose?
- To be able to design properly
- Certification
- Quality control
- Compliance
- Environmental testing
- Failure/accident investigation
What is the most valuable form of testing - what is important?

The safety of an athlete and the affirmation that the pitch/track has been built correctly from the ground up!

“The best return from testing is that which provides these assurances”
Testing; a consultants perspective

- **What do the results mean to the consultant?**
- Ticking the boxes
- Draw down funding
- Confirmation – meets the specification

“most consultants would not analyse test data unless there was a non compliant result or a failure to meet a specification requirement”
Testing; a consultants perspective

- Confidence in testing
- Fundamental properties
- Empirical data
- Tests which are reproducible
Testing; a consultants perspective

- Summary
- Good design/ construction engineering
- Who is performing testing
- Laboratories and their competence
- Testing for what purpose
- What testing is important - safety?
- What do the results mean to a consultant?
- What is a good/ bad test
THANK YOU
DO YOU HAVE ANY QUESTIONS?