

The University of Arizona 32nd Race Track Industry Symposium

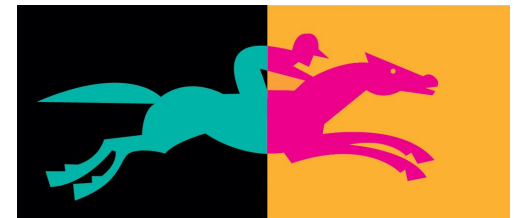
Developing Cost-Effective Track Surfaces

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Developing cost-effective track surfaces



Laying the ThoroughTrack™ Surface



ThoroughTrack™ ready to ride



Up close to ThoroughTrack™



RVL have developed their own AWT ThoroughTrack™ due to...

- **High cost of commercially available tracks.**
- **Lack of a transparently competitive marketplace meant limited choice of suppliers.**
- **Lack of performance guarantees / warranties.**
- **Variable performance / track record and longevity of suppliers.**
- **Once installed, locked in to ongoing maintenance costs for the life of the track .**
- **Ability to tailor track mix to meet specific geographic conditions.**

Each Jurisdiction has its own story....

Various commercial pressures influence the evolution of track surfaces....

- **Weather**
- **Maintenance costs**
- **Horse welfare concerns**
- **Program flexibility**
- **Improving turnover and returns**

Or, some combination of the above

World wide use of non-turf tracks

- **In UK and East Coast USA consistent year round racing on turf is not achievable.**
- **Most ARF countries do have favourable weather conditions for Turf Racing but still race on synthetic surfaces.**
- **The driver for AWT racing in Asia particularly Australia is economic but also horse welfare benefits and water shortages.**

Non-turf racing commenced in the UK in 1989

- **Lingfield commenced in 1989 and successfully replaced Equitrack with Polytrack in 2001.**
- **Wolverhampton installed Fibersand in 1993 and in 2004 replaced it with Polytrack.**
- **Southwell Fibersand installed 1989 refurbished in 2004.**
- **Four more venues are planning to install AWTs for Racing in 2006.**

AWT Racing in the UK

- **Gaining broad acceptance**
- **Growing popularity with jockeys and trainers.**
- **AWT Racing now represents 25% of flat fixtures (204 out of 804).**
- **Average field sizes on the AWT's has continually improved:**

1995	1996	1997	1998	1999	2000	2001	2002	2003
9.85	9.87	9.65	9.88	10.26	10.57	11.42	11.69	11.52

In France and Europe

- **Deauville commenced racing in 2003 on Viscoride.**
- **Pau and Cagnes-Sur-Mer use fibersand.**
- **European All-Weather Championship**
 - **Cagnes-sur-Mer (France)**
 - **Neuss (Germany)**
 - **Lingfield Park (UK) and**
 - **Jagersro (Sweden)**

In USA

- **Turfway Park the first track in USA to commence racing on a synthetic track.**
- **Follows the successful trial by Keeneland of a 1000m Polytrack for training.**
- **Influence of the weather has been negated during training in winter months.**
- **Fixture cancellations expected to reduce.**
- **Stakeholder feedback to date extremely positive.**

In Asia

- **The ThoroughTrack in Canberra the first synthetic track in Australia to be raced on**
- **In Australia most AWT's (ThoroughTrack and Viscoride) have been used for training only**
- **Singapore fibersand & turf racing**
- **Hong Kong turf & dirt racing**
- **Macau sand & turf racing**
- **Japan dirt & turf racing**
- **Korea sand/dirt racing**

Surface cost comparison – 10 Years

Track	Install m ² *	Maint. m ² pa	Refurb. m ²	Refurb. Freq.	Cost of Asset
Grass	\$60	\$4	Included in maintenance		\$100
Sand	\$2	\$3	Included in maintenance		\$32
Woodchip	\$4	\$6	\$4	3 years	\$77
USA Dirt	\$50	\$7	\$2	1 year	\$140
Viscoride	\$64	\$2	\$3	1 year	\$114
ThoroughTrack	\$44	\$2	\$3	3 years	\$74

* Excludes the cost of base works, irrigation and construction

AWT measurement techniques

- **Hardness – measured in Gravities**
- **Sheer Strength – measured in kg-f**
- **Moisture – volumetric percentage**
- **Temperature**
- **Mode – most common measure recorded**
- **LSD – least significant difference**
- **Cu – Coefficient of Variation**

Results

- **Hardness**
 - **Grass & ThoroughTrack** **60-90 gravities**
 - **Sand** **110-150 gravities**

- **Sheer**
 - **Grass** **45-55 kg-f**
 - **ThoroughTrack** **15-25 kg-f**
 - **Sand** **0-10 kg-f**

- **Coefficient of Variation**
 - **Grass** **85-90%**
 - **ThoroughTrack** **80-90%**
 - **Sand** **60-75%**

Key issues for the US market

- **Understand how AWTs are used in other parts of the world and their limitations**
- **Critically review track utilisation levels – very different in US to elsewhere**
- **Be conservative about asset life and refurbishment frequencies**
- **Just replacing dirt with synthetic may prove to be too simplistic**

The Future Landscape

- **The product will quickly become demystified**
- **Market will rapidly mature as product knowledge and experience increases**
- **At the same time brand values and margins will diminish**
- **Trend will be away from proprietary products and into custom design services**
- **The real power in the future will lie with those who have design and performance measurement methodologies and can deliver it!**