

Hockey's move towards



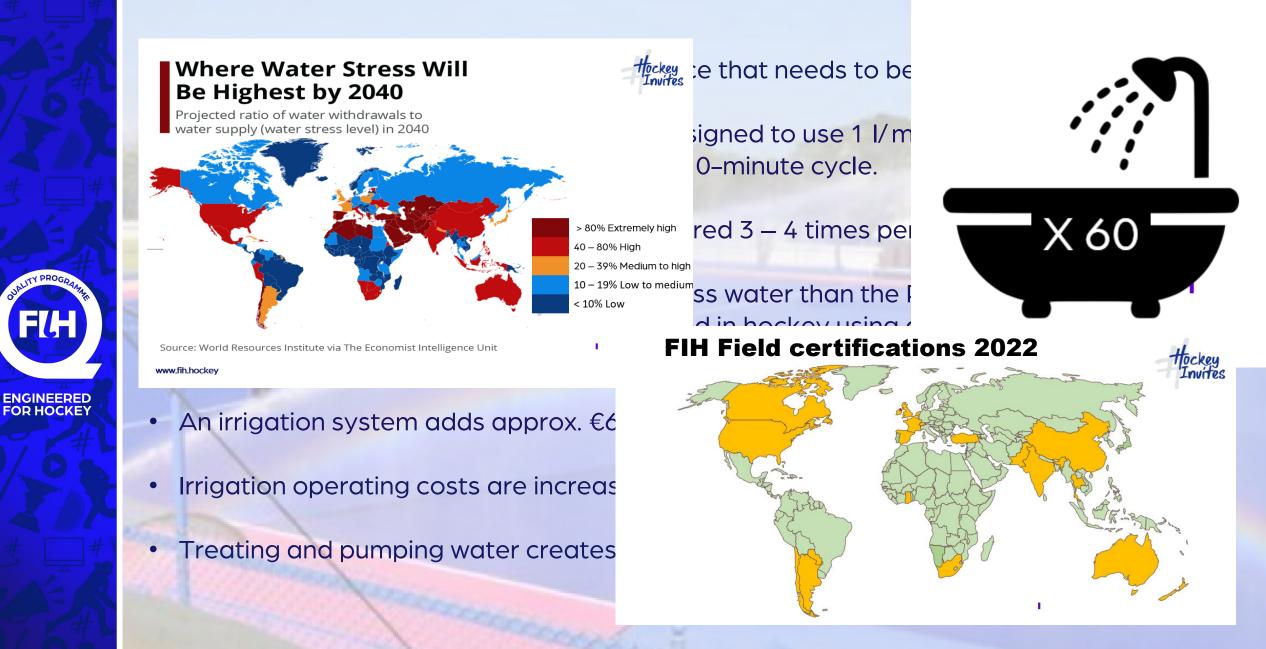
Dry (non-irrigated) Hockey Turfs

Alastair Cox FIH Facilities & Quality Programme Manager

Alastair.cox@fih.hockey

www.fih.hockey/dryturf





So at our 2018 Congress the FIH announced that it wanted the synthetic turf industry to:

"Develop synthetic turf surfaces that have the playing characteristics of wet turf, but do not require irrigation to achieve them"

www.fih.hockey/dryturf

Currently our standards require Global category turfs to be used under wet conditions – so we need to update them to remove this obligation, whilst ensuring performance, player welfare and durability is maintained.



FOR HOCKEY

In May 2023 we published an **Innovation Standard**. This describes the <u>additional properties</u> a Dry Turf needs to have to replicate the playing qualities of wet turfs:

- Turf/stick friction
- Ball speed and pace
- Ball rebound (ariel passes)
- Turf stiffness (linked to 3D skills)



Hockey Turf & Field Standards

Addendum 01

Requirements for Dry (non-irrigated) Turfs

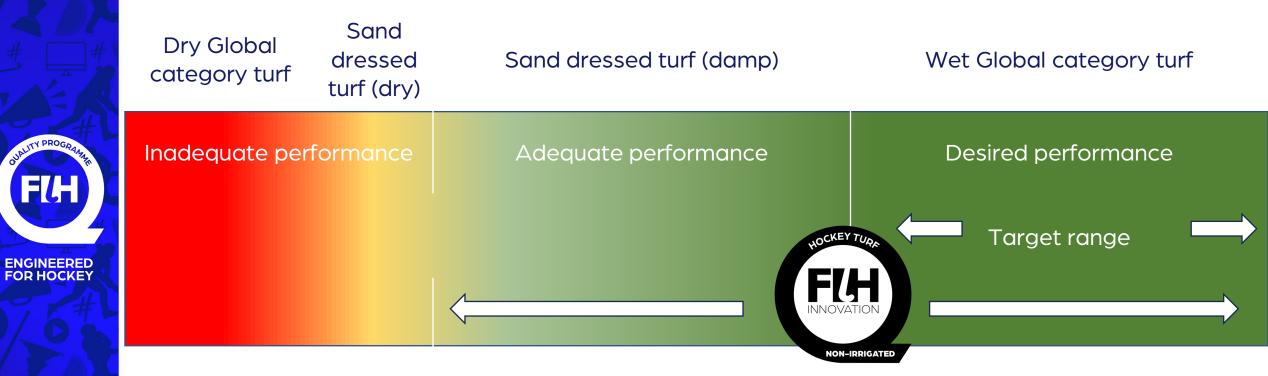
May 2023

VED 10

TUDAKA # UA

INTERNATIONAL HOCKEY FEDERATIO

fih.ch/ qp



www.fih.hockey/dryturf



Next steps

<u>2023/24</u>

- Fields are built and surfaced with FIH Innovation Turfs
- Working with Loughborough University we will collect player feedback on how the surfaces perform
- Based on the player feedback we will fine-tune our innovation standard and incorporate the findings into our requirements for Global category Hockey Turfs

<u>2025</u>

 From 2025 onwards we expect Dry Turf technology to be adequate for all levels of hockey including international and top-level national competitions.

Areas of specific interest:

- Performance
 - Stick/surface interactions
 - Ball control

Player safety / comfort OUNDATION Darby

Potential risk of carpet burns

Darby

DUNDATION

Darby

FOUNDATION

JOUNDATION

Foot grip

FLH

ENGINEERED FOR HOCKEY

Heat stress

Equipment

- Shoes \bullet
- Sticks Balls





2023 / 24



As hockey starts to learn about this pioneering turf technology, we suggest it is initially installed on fields intended for national club and community use.

From 2025 onwards we expect Dry Turf technology to be adequate for all levels of hockey including international and top-level national competitions.

The transition to Dry Turf fields for elite competitions		
	Wet Turf	Dry Turf
2023	FIH Pro League	Hockey5s World Tour – Cairo
2024	FIH Pro League 2024 Olympic Games qualifiers Paris 2024 Olympic Games	FIH Hockey5s World Cups
2025	FIH Pro League	FIH Pro League
2026	FIH Pro League FIH World Cup qualifiers	FIH World Cup qualifiers FIH World Cups FIH Pro League Youth Olympics – Hockey5s
2027	FIH Pro League	FIH Hockey5s World Cup qualifiers FIH Pro League FIH Hockey5s World Cups
2028	FIH Pro League	FIH Pro League 2028 Olympic Games qualifiers LA 2028 Olympic Games



https://www.fih.hockey/dryturf

Companies already offering Dry Turf products

- Greenfields
- Polytan

Companies Known to be developing Dry Turfs

- Forbex
- Juta Grass
- Lano
- SIS Pitches

Multi-sports fields maximising sporting opportunities

A brief history of the evolution of community sports surfaces

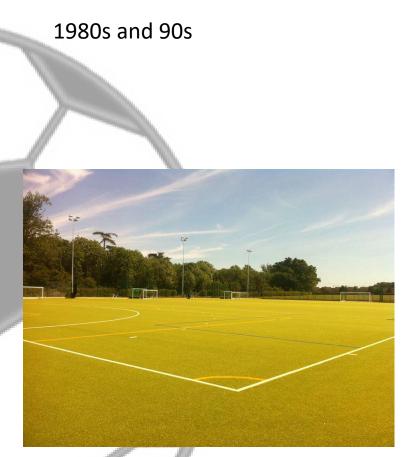
Up till the 1980s



Hockey played on grass – often a cricket outfield (short cut smooth surface)



Football played on winter games grass pitches (long sward height, often rutted and uneven)



Community football & hockey played on sand filled turf

- Okay for hockey
- Not so good for football

2000s onwards



Football played on long pile 3G surfaces



GEN 2

Modified hockey surfaces





- Tennis
- Netball
- Futsal
- Lacrosse

What about

hockey & football?







Environmental issues means football is having to look at new surface types – this creates an opportunity for a more hockey friendly solution





Hockey specific

Elite competition High performance training Hockey clubs

Non-filled hockey turfs Sand dressed hockey turfs 50:50 Football: Hockey Small sided football, Futsal, Hockey5s Lacrosse, GAA, American football

Lower-level club hockey Recreational football School's hockey School's football Walking sports Disability sports

Football specific

Professional Semi professional Community football clubs

> Natural grass Hybrid grass Long pile synthetic turfs

Let's challenge the industry to develop a new type of turf that works for many sports



The concept is already out there especially in the USA



ANY QUESTIONS?

facilities@fih.hockey www.fih.hockey/dryturf