

Passion to Discover

Webinar BallJames
March 20th, 2019

SCISPORTS



SCISPORTS

Insights & Advice



Projects
& reports

SCISPORTS

Models

API

Insight

SCISPORTS

Metrics

 **balljames**

Raw data

API



Topic for today

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THE CHALLENGE

real-time **3D** data





1

FOR CLUBS

Data can be used to analyse players and their performance, both from tactical and physiological perspective, and on short term (match preparation and evaluation) or longer term (scouting)

2

FOR THE GAME

Technology can be used to create an objective Data Assisted Referee, by adding off-side detection or goal line technology

3

FOR MEDIA

Broadcasting and media companies can use data to enhance their experience for customers, e.g. by developing advanced statistics or seconds screen apps

4

FOR FANS

A broad range of companies can use the data to create applications never possible before like betting, or Virtual Reality







WHY NOW?

Data

GPU

Algorithms

Cloud

...create the
opportunity for
Deep Learning



Footage
recording &
ingestion



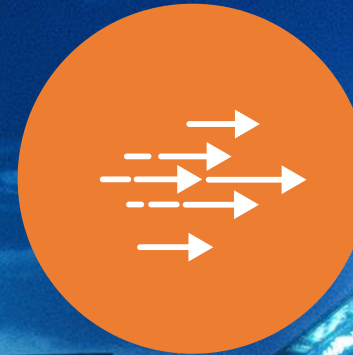
Terabytes
of data



Deep
Learning



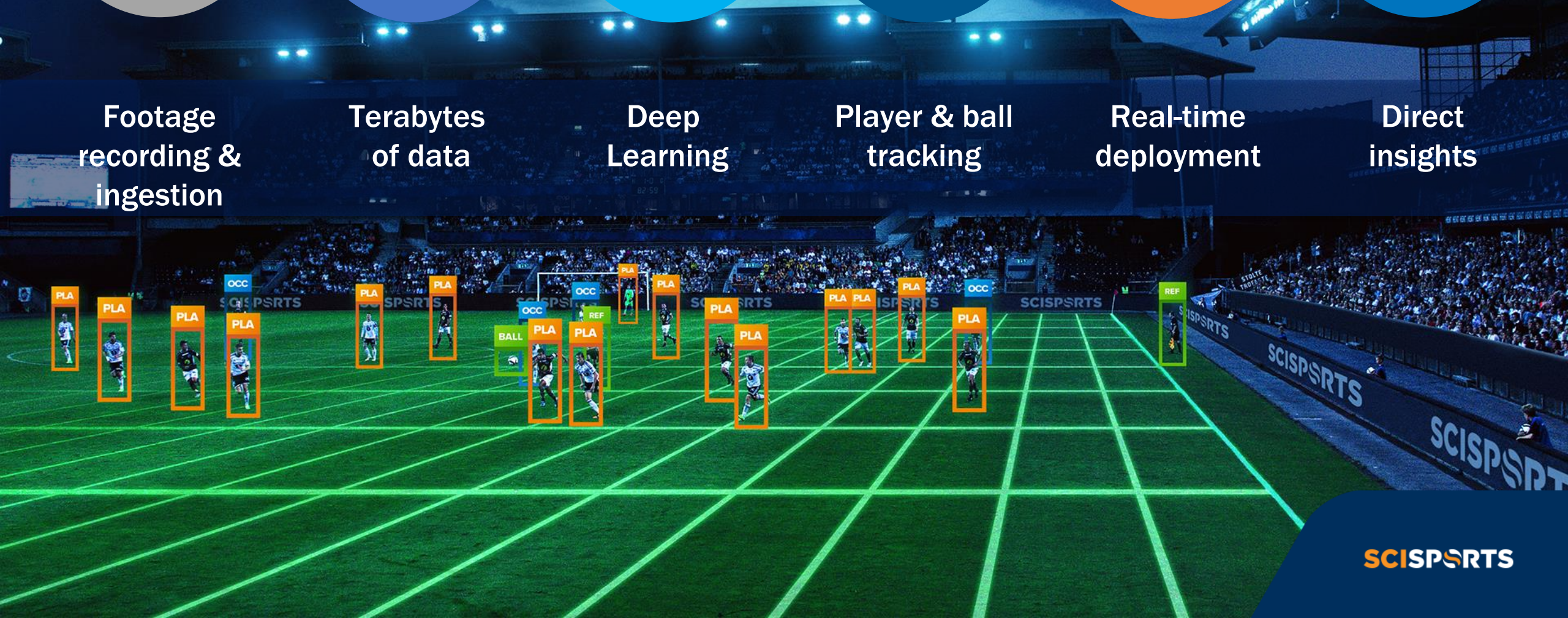
Player & ball
tracking



Real-time
deployment



Direct
insights



✓ MATCH FOOTAGE



✓ NETWORK & CLOUD INFRASTRUCTURE





☑ 3D BALL TRACKING



✓ PLAYER CLASSIFICATION



✓ 2D PLAYER TRACKING



THE SOLUTION

Non-invasive

Scalable cloud

Accurate

Real-time



An aerial view of a soccer match on a green field. A player in a white jersey with the number 10 is in the center, surrounded by four players in green jerseys. A soccer ball is in the upper left. A blue arrow points from the ball towards the center player. Various motion tracking overlays are present: a speed indicator '98 KM/H' near a green player, a distance indicator '28 CM' near the center player, and an angle indicator '14°' near another green player. A green circular graphic is on the ground near the center player. The text 'Evaluating every action' is in the bottom left, and the 'SCISPORTS' logo is in the bottom right.

Evaluating
every action

SCISPORTS



Data assistant
for coaches
and fans



 **sas**

wyscout

Google

 **nVIDIA**

UNIVERSITY OF TWENTE.

OUR PARTNERS

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Want to join?

- Federations
- Clubs
- Visualization / VR
- Coaching apps
- Fan engagement
- Data assisted referee
- Video ingestion
- Research partners

Let us know if you are interested!



Question Time

Get in touch!

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