

Match-fixing monitoring systems in play

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Number one in the world
for sports subjects
three years running
QS World University Rankings by Subject 2017, 2018, 2019



Financial
Investment



1. Re-framing match-fixing



sport

Betting



1. Re-framing match-fixing

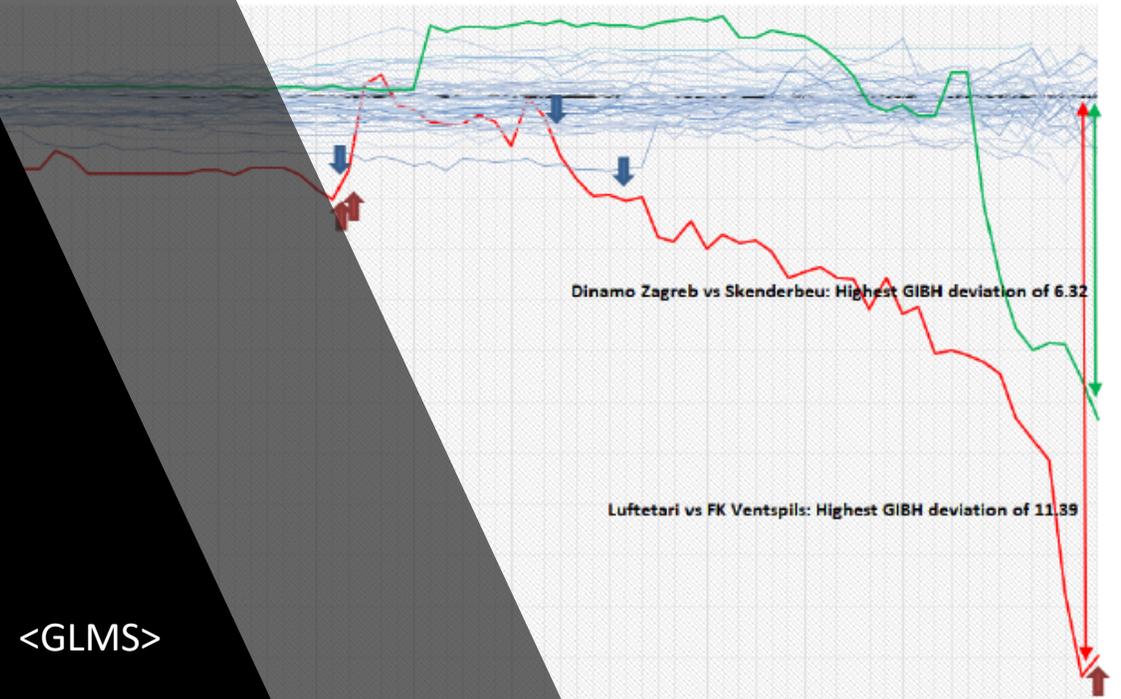


Sport on the gambling table

2. Sports *on* the surface;
betting *under* the surface



<GLMS>



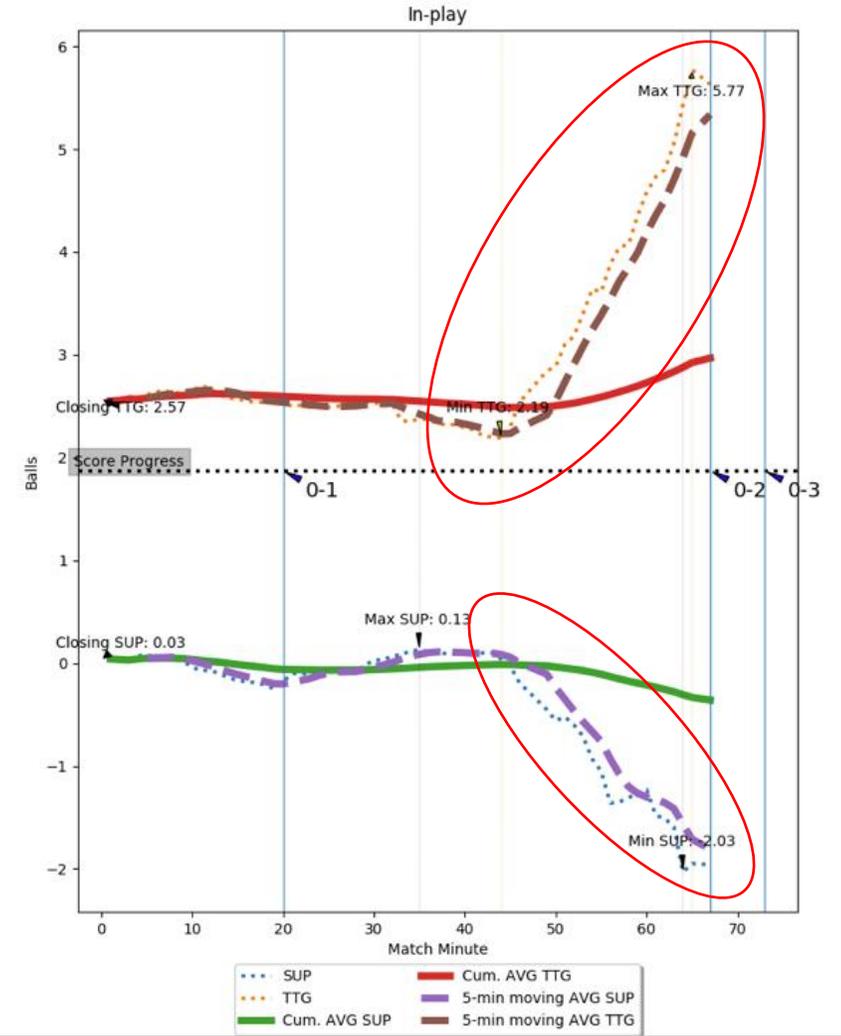
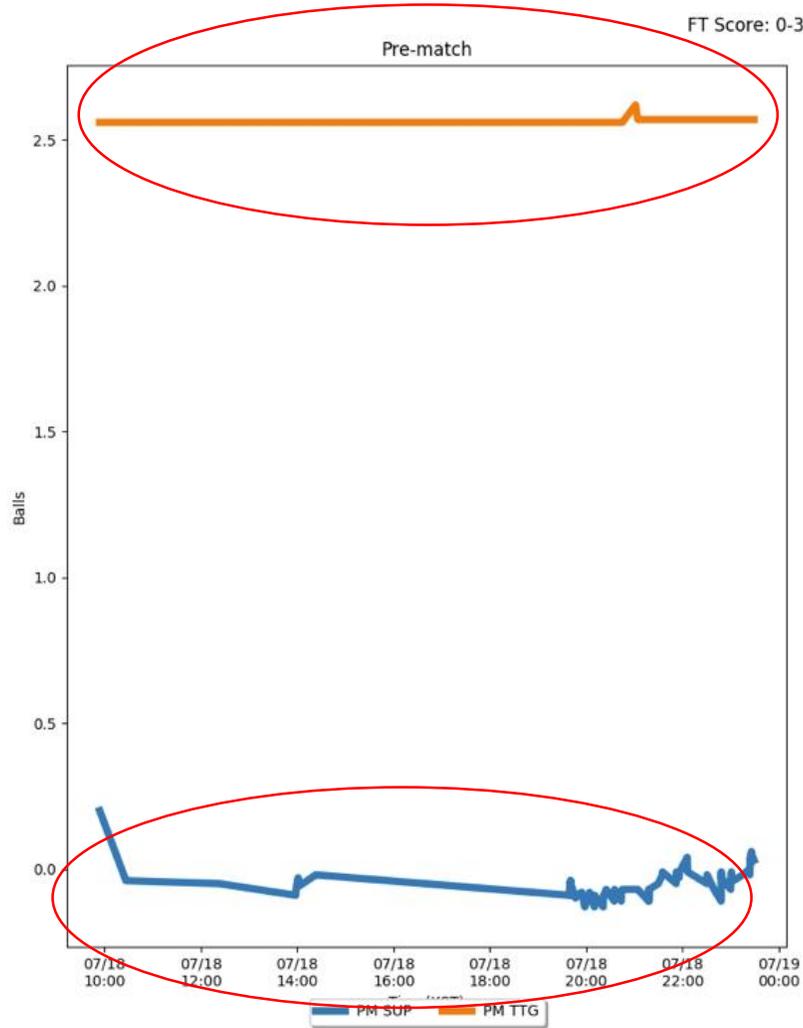
3. Money never lies:
detecting technologies



4. Match-fixing monitoring's technical make-up

[UEFA Europa League] ██████████

FT Score: 0-3 / Data from: Crown





4. Match-
fixing
monitoring's
technical
make-up

To complete the puzzle

- More sources of data
- Experienced interpretation of data
- Investigative functions



The logo for the Global Lottery Monitoring System (GLMS) features the letters 'GLMS' in a bold, white, sans-serif font. The letters are contained within a red rectangular box with a thin white border. The background of the entire slide is a complex network of glowing blue lines and nodes, with some nodes highlighted in white and others in yellow. Faint binary code (0s and 1s) is visible in the background, suggesting a digital or data-driven environment.

GLOBAL
LOTTERY
MONITORING
SYSTEM

5. Monitoring lamps around the globe

GLMS OUTLOOK

VISION

To become **the most credible and respected entity worldwide in the fight against Match Fixing** and the safeguard of **Sport Integrity** and Values cooperating with public and private stakeholders globally.



MISSION

The **Global Lottery Monitoring System (GLMS)** is the state lotteries' mutualized monitoring system on sports betting. It aims at **preventing, detecting and analyzing irregular and suspicious betting activities** that could question the integrity of a sport competition.

GLMS provides a quality **service to Members, Sports Betting Operators, Regulators, Sport Federations, Public Institutions and Public at Large** with the objective to safeguard Sport Integrity, create awareness, **develop educational programs** and a **culture of Integrity and Social Responsibility**.

GLMS **supports regulated, responsible and sustainable betting market environments** since bans have often favored the proliferation of black market, criminal orgs and match fixing.



5. Monitoring lamps around the globe

5. Monitoring lamps around the globe

Limitations

- No control over illegal bookies off the radar
- Human interpretation susceptible to external influences
- Privatisation of governmental functions

6. Sports & betting trade-offs: opportunities and threats



7. Sports & betting: the on-and-off relationship



FA's Pools war in 1936

Today, the most liberal market

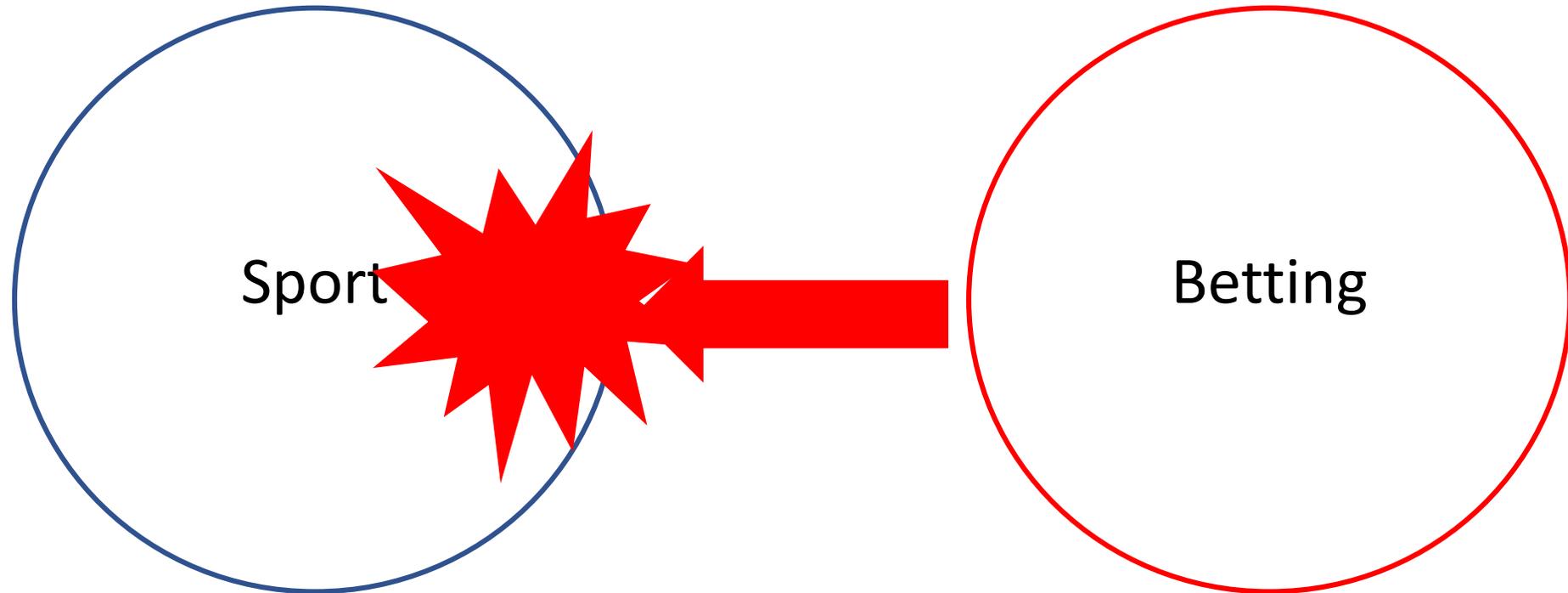


Black Sox Scandal in 1919

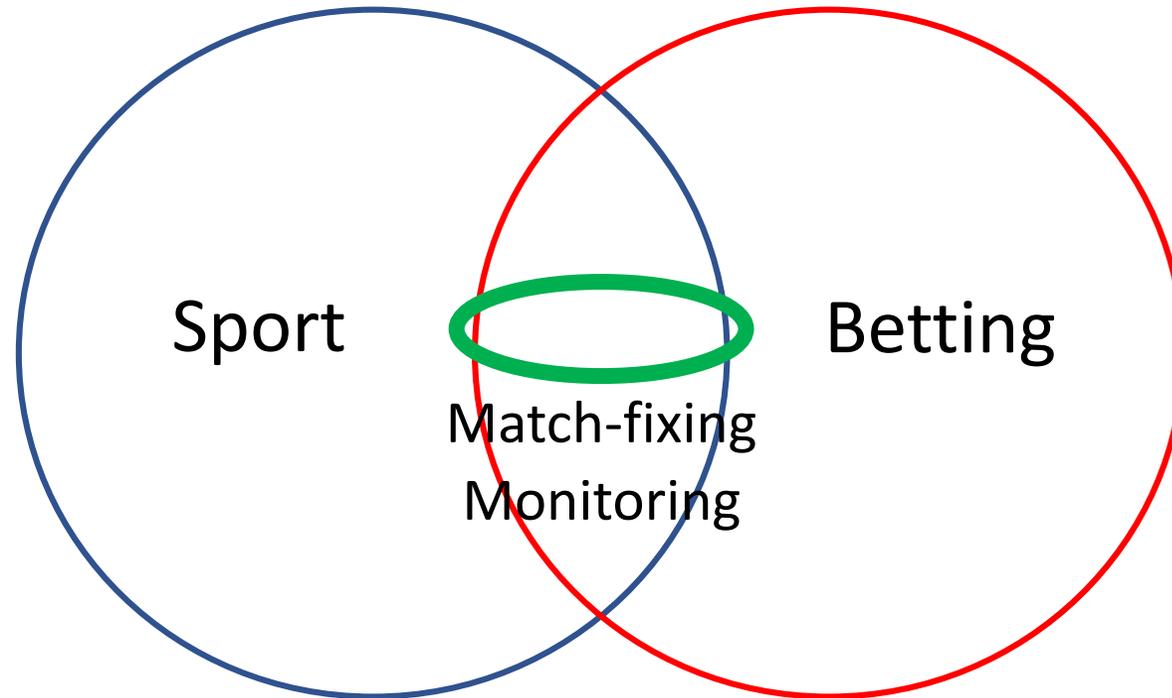
PASPA

Legalisation in 2018

8. Monitoring: ushering in a new era



8. Monitoring: ushering in a new era



Betting co-opted into the sports-ecosystem

Can sport be free from the influence of betting?

9. Sport with betting: walking the fine line

- Neither breaking up, nor going together
- Neither embracing it, nor pushing it out



Thank you

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Loughborough University



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100 new academic positions over the next two years



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Athena SWAN

Silver Award

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1. Re-framing match-fixing
2. Sports *on* the surface, betting *under* the surface
3. Money never lies: detecting technologies
4. Match-fixing monitoring's technical make-up
5. Monitoring lamps around the globe
6. Discussion: betting co-opted into sports eco-system
7. Conclusion: sports with betting – walking the fine line

```
D:\pyarmor dist test\Calc_SUP_new_m.exe
*****
Enter a handicap line: -0.5
Enter home odds: 1.9
Enter away odds: 1.9

Enter a TTG line: 2.5
Enter over odds: 1.9
Enter under odds: 1.9

Calculated Home/Away Goals: 1.61 / 1.07
Calculated SLP/TTG: 0.54 / 2.68

1X2 odds: (1.9, 3.82, 3.76)

1st HF 1X2 odds: (2.54, 2.33, 4.35)

Handicap 1X2 odds with Handicap -1.0 :
(3.62, 4.01, 1.9)

Draw No Bet -> Home: 1.43 Away: 2.83

Alt HDC lines:
-0.50 -> Home/Away (1.9, 1.9)
-0.25 -> Home/Away (1.67, 2.21)
-0.75 -> Home/Away (2.33, 1.6)
-1.00 -> Home/Away (2.77, 1.45)
+0.00 -> Home/Away (1.43, 2.83)

Alt 1st HF HDC lines:
-0.25 -> Home/Away (2.02, 1.79)
-0.50 -> Home/Away (2.54, 1.52)
+0.00 -> Home/Away (1.5, 2.58)
+0.25 -> Home/Away (1.31, 3.47)
-0.75 -> Home/Away (4.3, 1.22)

Alt TTG lines:
2.50 -> Over/Under (1.89, 1.91)
2.25 -> Over/Under (1.66, 2.22)
2.75 -> Over/Under (2.26, 1.64)
3.00 -> Over/Under (2.63, 1.49)
3.25 -> Over/Under (3.0, 1.39)

Alt 1st HF TTG lines:
1.00 -> Over/Under (1.74, 2.09)
1.25 -> Over/Under (2.23, 1.65)
0.75 -> Over/Under (1.54, 2.47)
1.50 -> Over/Under (2.72, 1.46)
1.75 -> Over/Under (4.26, 1.22)

Both Team To Score; Yes: 1.81 No: 2.0

First Team to Score; Home: 1.7 / No First Goal: 13.9 / Away: 2.55

CPU Runtime: 0.47 seconds.

*****
Enter a handicap line:
```

```
Enter a handicap line: -0.5
Enter home odds: 1.9
Enter away odds: 1.9

Enter a TTG line: 2.5
Enter over odds: 1.8
Enter under odds: 2

Calculated Home/Away Goals: 1.66 / 1.12
Calculated SUP/TTG: 0.54 / 2.78

1X2 odds: (1.9, 3.9, 3.7)

1st HF 1X2 odds: (2.52, 2.38, 4.25)

Handicap 1X2 odds with Handicap -1.0 :
(3.57, 4.07, 1.9)

Draw No Bet -> Home: 1.44 Away: 2.8

Alt HDC lines:
-0.50 -> Home/Away (1.9, 1.9)
-0.25 -> Home/Away (1.67, 2.2)
-0.75 -> Home/Away (2.32, 1.61)
-1.00 -> Home/Away (2.74, 1.46)
+0.00 -> Home/Away (1.44, 2.8)

Alt 1st HF HDC lines:
-0.25 -> Home/Away (2.02, 1.8)
-0.50 -> Home/Away (2.52, 1.53)
+0.00 -> Home/Away (1.51, 2.55)
+0.25 -> Home/Away (1.32, 3.4)
-0.75 -> Home/Away (4.2, 1.23)

Alt TTG lines:
2.50 -> Over/Under (1.8, 2.0)
2.75 -> Over/Under (2.11, 1.72)
2.25 -> Over/Under (1.59, 2.35)
3.00 -> Over/Under (2.43, 1.55)
3.25 -> Over/Under (2.77, 1.44)

Alt 1st HF TTG lines:
1.25 -> Over/Under (2.13, 1.71)
1.00 -> Over/Under (1.67, 2.19)
1.50 -> Over/Under (2.59, 1.49)
0.75 -> Over/Under (1.49, 2.6)
1.75 -> Over/Under (3.95, 1.25)

Both Team To Score; Yes: 1.74 No: 2.09

First Team to Score; Home: 1.7 / No First Goal: 15.3 / Away: 2.51

CPU Runtime: 0.70 seconds.
```