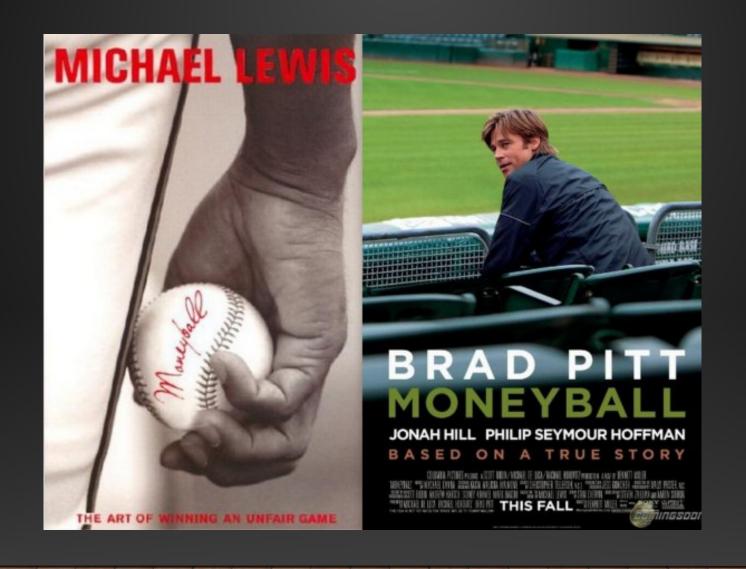
# STATISTIEKEN ALS GAMECHANGERS IN TEAMSPORTEN



#### PASCAL MEURS

DAG VAN DE TRAINER, SPORT VLAANDEREN GENT, 2018

### IMPORTANCE OF STATS



## STATS IN THE NBA



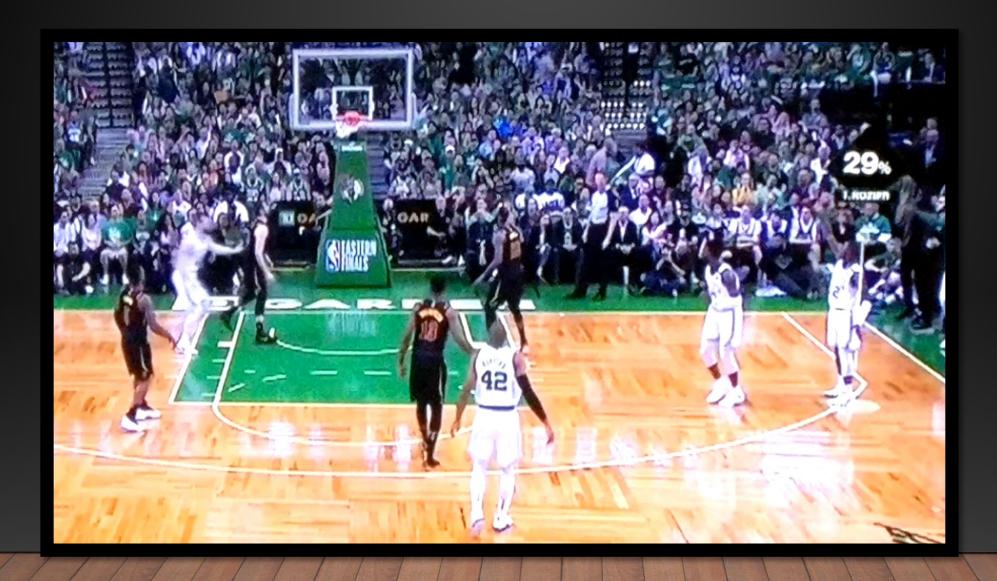
Ideal world: NBA (SPORTS VU)

Result: <a href="http://stats.nba.com">http://stats.nba.com</a>



## STATS IN THE NBA





## STATS IN THE NBA

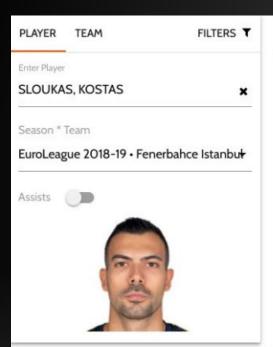


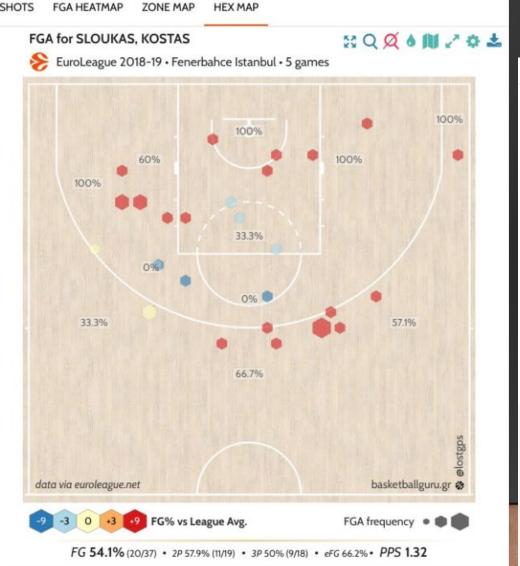
PLAYER	TEAM	GP	W	L	MIN				CATCH SHOOT PTS		PULL UP PTS				POST TOUCH PTS	POST TOUCH FG%	ELBOW TOUCH PTS		EFG%
Tony Allen	MEM	71	36	35	27.0	9.1	1.9	42.6	1.0	32.5	0.1	9.5	2.0	51.2	2.1	49.3	0.4	38.5	47.3
Tony Parker	SAS	62	46	16	25.3	10.1	3.9	46.8	1.5	42.4	2.8	44.7	0.1	37.5	0.1	33.3	0.3	44.4	48.4

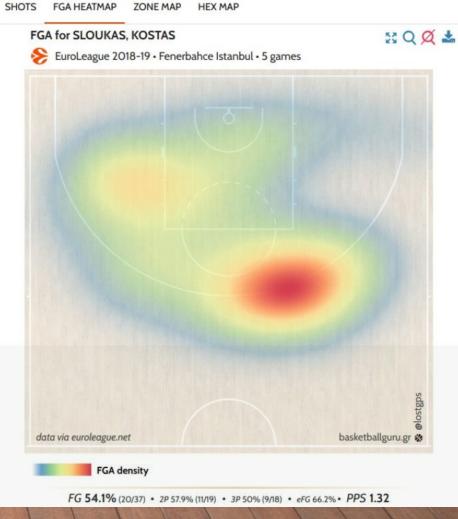
Players Oppor	ent Shootin	g 🔻																		
SEASON 2016-17			SEASON TYPE Regular S				PER M	Game				DISTANCE R.  5ft Rang						Ad	lvanced I	Filters
																⊘ RECEN	NT FILTERS	<b>■</b> GLOS	SARY	\$SHARE
																	486 Row	s   Page 1	▼ of 10	< > >
			LESS	S THAN 5FT.			5-9 FT.			10-14 FT.		1	5-19 FT.		2	0-24 FT.		2	5-29 FT.	
PLAYER	TEAM	AGE	FGM	FGA	FG%	FGM	FGA	FG%	FGM	FGA	FG%	FGM	FGA	FG%	FGM	FGA	FG%	FGM	FGA	FG%
LeBron James	CLE	32	14.1	23.1	61.1	3.1	7.8	39.1	2.2	5.2	41.9	3.7	8.6	42.9	4.9	12.9	38.1	3.7	10.9	34.0

### THE SHOTCHART ANNO 2018

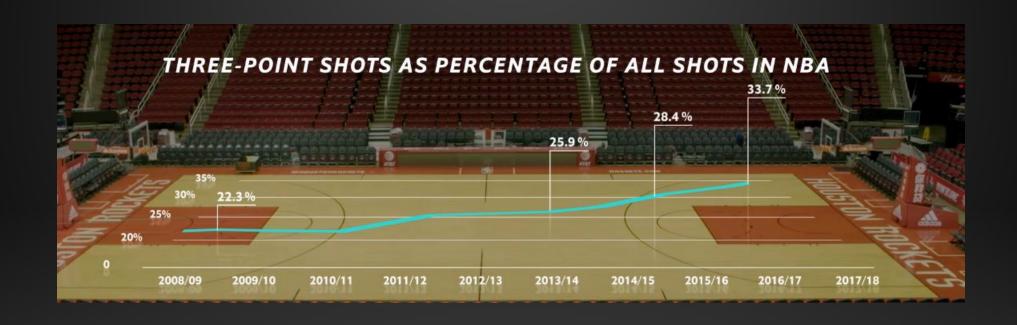




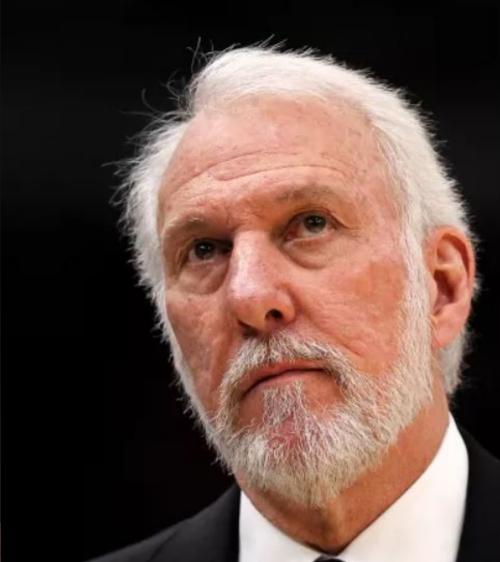








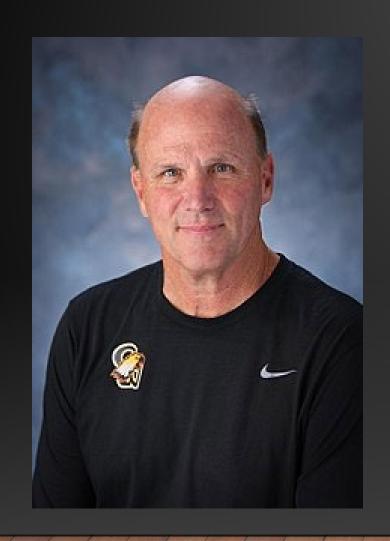




"They shoot so many threepointers because it is analytically correct."

Gregg Popovich





"We like threepointers, but we love lay-ups."

**Dribble Drive Motion Offense** 

Vance Walberg, 1997





Stephen Curry made more 3s TWO seasons than Larry Bird did in his 13-year career.



Brook Lopez, 2m13



BY YEAR	ЗРМ	3PA	3P%
2018-19	65	174	37.4
2017-18	112	325	34.5
2016-17	134	387	34.6
2015-16	2	14	14.3
2014-15	1	10	10.0
2013-14	0	1	0.0
2012-13	0	1	0.0
2011-12	0	0	0.0
2010-11	0	1	0.0
2009-10	0	2	0.0
2008-09	0	2	0.0



Brook Lopez, 2m13

What is important to ????

How to measure defensive effort?



The article Louisville's Pressure Defense Creates Victories from The New York Times said this...

Louisville Coach Rick Pitino has his assistants chart deflections whenever his team takes the court, whether for practice or for games. The totals are collected and posted, and Pitino reinforces the message every day, every hour, practically every minute through the season: stay active on defense, keep your hands busy, and knock the ball away. At Louisville, deflections form the foundation for the team's swarming

What is important to YOU ???

Offensive flow

**Hockey assist = secundary assist** 





TEAM	GP	W	L	MIN	MADE	RECEIVED	AST	AST
Golden State Warriors	16	11	5	240.0	303.6	303.5	25.7	3.8
San Antonio Spurs	5	1	4	240.0	300.8	300.8	19.0	3.6
Philadelphia 76ers	10	5	5	242.5	321.9	321.9	25.8	3.2

What is important to YOU ???

Success of plays -> end of game decisions

Pick & Roll -> Compose playbook

**AST / TO?** -> give players a "measurable" goals



What is important to ????

- Consecutive passes
- Consecutive stops
- Fast break points
- ......

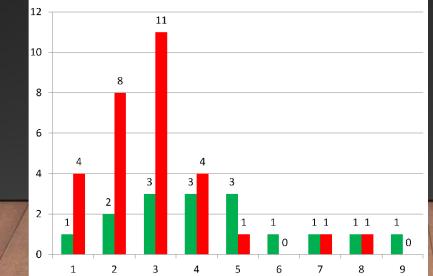


Example ('15-'16):

Offense with	SUCCESS RATE
< 5 passes	9/27 = 33%
5 or more passes	7/10 = 70%

#### # PASSES PER OFFENSE

# passen	score	geen score				
1	1	4				
2	2	8				
3	3	11				
4	3	4				
5	3	1				
6	1	0				
7	1	1				
8	1	1				
9	1	0				









advanced stats?

CASE 1 REBOUNDING

Voorbeeld:

Oostende – Mons

106-48

(2/12/2017)



## MONS-HAINAUT (coach: Goethals, Daniel)

			FIE	LD GOA	LS	RE	Boun			FOL	JLS		BLC	OCKS		
#	NAME	MIN	2PM-A	3PM-A	FTM-A	OFF	DEF	TOT	AST	CM	RV	ST	FV	AG	TO	PTS
22	Tiby, Matt	33	6-9	1-4	2-3	5	5	10	0	2	4	2	0	0	0	17
9	Demps, Tre	24	3-9	0-4	1-2	1	2	3	2	0	3	1	0	0	1	7
4	Green, Garlon	21	1-6	0-3	3-3	1	4	5	0	3	3	0	0	0	3	5
5	Jones, Chris	21	1-9	0-1	0-0	0	0	0	4	0	0	1	0	0	3	2
13	Reddic, Juvonte	18	2-6	0-0	0-0	1	3	4	1	5	2	0	0	1	0	4
15	Lasisi, Idris	22	1-3	1-4	0-0	0	2	2	1	2	0	0	0	0	2	5
10	Houdart, Mathieu	17	1-3	0-1	0-0	0	0	0	0	1	0	0	0	0	1	2
8	Cage, Justin	16	0-0	1-1	0-0	1	0	1	0	3	1	2	0	0	0	3
24	Lemaire, Brieuc	12	0-0	0-1	0-0	0	0	0	0	0	0	0	0	0	1	0
7	Francois, Xavier-Robert	9	0-2	0-0	0-0	2	0	2	0	0	1	0	0	1	0	0
11	Mortant, Zaccharie	7	0-0	1-2	0-0	0	0	0	0	1	0	0	0	1	0	3
	Tatal		4E 47	4.24	6.0	44	40	27	0	47	4.4	С	0	2	44	40
	Total		15-47	4-21	6-8	11	16	27	8	17	14	6	0	3	11	48

#### OOSTENDE (coach: Gjergja, Dario)

			•													
			FIE	LD GOA	LS	RE	BOUN	IDS		FOL	JLS		BLO	OCKS		
#	NAME	MIN	2PM-A	3PM-A	FTM-A	OFF	DEF	TOT	AST	CM	RV	ST	F۷	AG	TO	PTS
6	Lasisi, Elias	22	4-5	2-3	0-0	0	1	1	4	2	0	0	0	0	0	14
22	Kesteloot, Vincent	21	2-3	0-2	1-2	0	2	2	0	1	1	1	0	0	2	5
23	Jekiri, Tonye	20	5-8	0-0	3-4	4	10	14	2	0	3	0	1	0	1	13
17	Mihailovic, Vladimir	19	0-0	4-5	0-0	0	4	4	3	2	0	1	0	0	0	12
24	Fieler, Chase	16	3-4	1-2	0-0	0	5	5	2	1	0	2	0	0	0	9
9	Mwema, Jean-Marc	19	2-3	1-3	3-3	0	3	3	2	1	2	1	0	0	1	10
15	Myers, Mike	15	5-6	0-0	4-6	2	4	6	1	1	6	0	0	0	2	14
21	Jagodic-Kuridza, Marko	15	1-3	1-2	8-8	2	3	5	3	4	4	0	2	0	0	13
20	Djordjevic, Dusan	15	1-1	0-0	0-0	0	3	3	5	1	0	0	0	0	2	2
4	Lambrecht, Tim	14	3-4	0-0	0-0	0	1	1	0	0	0	0	0	0	0	6
13	Salumu, Jean	14	3-5	0-1	0-0	0	0	0	0	0	0	3	0	0	0	6
4	Buysse, Simon	10	1-1	0-1	0-1	0	0	0	0	1	1	0	0	0	1	2
	Total		30 43	0.10	10.2/	Ω	36	11	22	1/1	17	Q	2	Λ	a	106



Oostende – Mons 106-48 (2/12/2017)



#### CASE 1 REBOUNDING

Oostende – Mons 106-48

Defensive rebounds: 36 - 16

Offensive rebounds: 8 - 11

#### **Conclusions:**

- 1) Oostende took more than twice as many Def Rebs than Mons
- 2) Mons did a better job on Off Rebs

**BUT, WAIT, HOLD ON...** 



advanced stats?

CASE I REBOUNDING

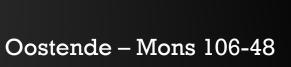
Story of the game?

How many rebound OPPORTUNITIES were there on both sides..? Big difference in missed shots... (106-48)...



## MONS-HAINAUT (coach: Goethals, Daniel)

					REBOUNDS			FOULS			BLC	OCKS				
#	NAME	MIN	2PM-A	3PM-A	FTM-A	OFF	DEF	TOT	AST	CM	RV	ST	FV	AG	TO	PTS
22	Tiby, Matt	33	6-9	1-4	2-3	5	5	10	0	2	4	2	0	0	0	17
9	Demps, Tre	24	3-9	0-4	1-2	1	2	3	2	0	3	1	0	0	1	7
4	Green, Garlon	21	1-6	0-3	3-3	1	4	5	0	3	3	0	0	0	3	5
5	Jones, Chris	21	1-9	0-1	0-0	0	0	0	4	0	0	1	0	0	3	2
13	Reddic, Juvonte	18	2-6	0-0	0-0	1	3	4	1	5	2	0	0	1	0	4
15	Lasisi, Idris	22	1-3	1-4	0-0	0	2	2	1	2	0	0	0	0	2	5
10	Houdart, Mathieu	17	1-3	0-1	0-0	0	0	0	0	1	0	0	0	0	1	2
8	Cage, Justin	16	0-0	1-1	0-0	1	0	1	0	3	1	2	0	0	0	3
24	Lemaire, Brieuc	12	0-0	0-1	0-0	0	0	0	0	0	0	0	0	0	1	0
7	Francois, Xavier-Robert	9	0-2	0-0	0-0	2	0	2	0	0	1	0	0	1	0	0
11	Mortant, Zaccharie	7	0-0	1-2	0-0	0	0	0	0	1	0	0	0	1	0	3
	T-4-1		4E 47	4.24	6.0	44	10	27	0	17	4.4	0	0	2	44	40
	Total		15-47	4-21	6-8	11	16	27	8	17	14	6	0	3	11	48



(2/12/2017)

#### OOSTENDE (coach: Gjergja, Dario)

			FIE	LD GOA	LS	RE	BOUN	IDS		FOL	JLS		BLC	CKS		
#	NAME	MIN	2PM-A	3PM-A	FTM-A	OFF	DEF	TOT	AST	CM	RV	ST	FV	AG	TO	PTS
6	Lasisi, Elias	22	4-5	2-3	0-0	0	1	1	4	2	0	0	0	0	0	14
22	Kesteloot, Vincent	21	2-3	0-2	1-2	0	2	2	0	1	1	1	0	0	2	5
23	Jekiri, Tonye	20	5-8	0-0	3-4	4	10	14	2	0	3	0	1	0	1	13
17	Mihailovic, Vladimir	19	0-0	4-5	0-0	0	4	4	3	2	0	1	0	0	0	12
24	Fieler, Chase	16	3-4	1-2	0-0	0	5	5	2	1	0	2	0	0	0	9
9	Mwema, Jean-Marc	19	2-3	1-3	3-3	0	3	3	2	1	2	1	0	0	1	10
15	Myers, Mike	15	5-6	0-0	4-6	2	4	6	1	1	6	0	0	0	2	14
21	Jagodic-Kuridza, Marko	15	1-3	1-2	8-8	2	3	5	3	4	4	0	2	0	0	13
20	Djordjevic, Dusan	15	1-1	0-0	0-0	0	3	3	5	1	0	0	0	0	2	2
4	Lambrecht, Tim	14	3-4	0-0	0-0	0	1	1	0	0	0	0	0	0	0	6
13	Salumu, Jean	14	3-5	0-1	0-0	0	0	0	0	0	0	3	0	0	0	6
4	Buysse, Simon	10	1-1	0-1	0-1	0	0	0	0	1	1	0	0	0	1	2
	Total		30-43	9-19	19-24	8	36	44	22	14	17	8	3	0	9	106



$$ORB\% = 100* \frac{OR}{OR + DRopp}$$

Offensive Rebounding percentage OR% =

number of Off Rebs over the number of opportunities to grab an Off Reb

$$DRB\% = 100* \frac{DR}{DR + ORopp}$$

Defensive Rebounding percentage DR% = number of Def Rebs over number of opportunities to grab a Def Reb



#### CASE 1 REBOUNDING





DR%: 76% - 66%

OR%: 33% - 23%



advanced stats?

CASE 2 PACE

Example: After 9 games, coaching staff of Limburg United is fired

Reason in the press: "bad defense"



advanced stats?

CASE 2 PACE

Limburg United after 9 games

Points scored: **81,5** (Avg. **78,8**)

Points allowed: **82,0** (Avg. **78,8**)

Conclusion:

Offense is OK, defense needs to improve

**BUT, WAIT, HOLD ON...** 



advanced stats?

CASE 2 PACE

Limburg United after 9 games



Offensieve Rating ORtg: 107,1

(6th of league)

= Points scored per 100 possessions

Defensieve Rating DRtg: 107,9

(4th of league)

= Points allowed per 100 possessions



advanced stats?

CASE 2 PACE

A team that plays a higher pace:

- scores more
- allows more points
- has more turnovers
- has more assists

	п			п	г

		Pace
1	LIM	74,8
2	CHA	74,6
3	LEU	73,7
4	LIE	73,5
5	WIL	73,4
6	BRU	73,3
7	ANT	71,8
8	AAL	71,3
9	MON	70,6
10	oos	70,4

Belgium D1 Regular season '17-'18

Therefore: all stats have to be studies per ball possession

### ADVANCED STATS



Advanced stats = take PACE of the game into account = ball possession evaluation

- PACE important!
- PACE = # possessions per 40'
- Possession ends in turnover or shot (with or without OR), can be calculated from box score:



Number of possessions = 2PA + 3PA - OR + TO + 0.4 \* FTA

### ADVANCED STATS

Belgium D1 Regular season '17-'18

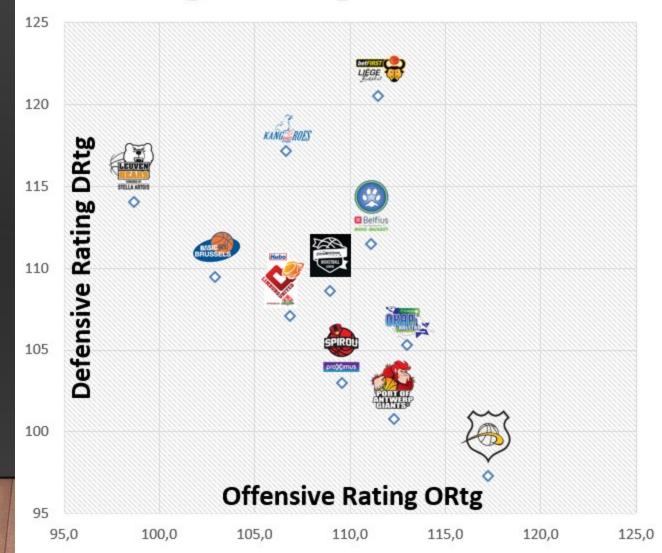
		ORtg	DRtg	NetRtg
1	oos	117,1	97,4	19,7
2	ANT	112,2	100,9	11,3
3	AAL	112,9	105,5	7,4
4	CHA	109,5	103,1	6,3
5	LIM	106,7	107,2	-0,5
6	MON	111,0	111,6	-0,6
7	BRU	102,8	109,6	-6,8
8	LIE	111,4	120,6	-9,3
9	WIL	106,6	117,3	-10,7
10	LEU	98,6	114,2	-15,6

ORtg = points scored per 100 possessions
DRtg = points allowed per 100 possessions
NetRtg = ORtg - DRtg





#### Belgium D1 Reg season '17-'18



### PACE & EFFICIENCY



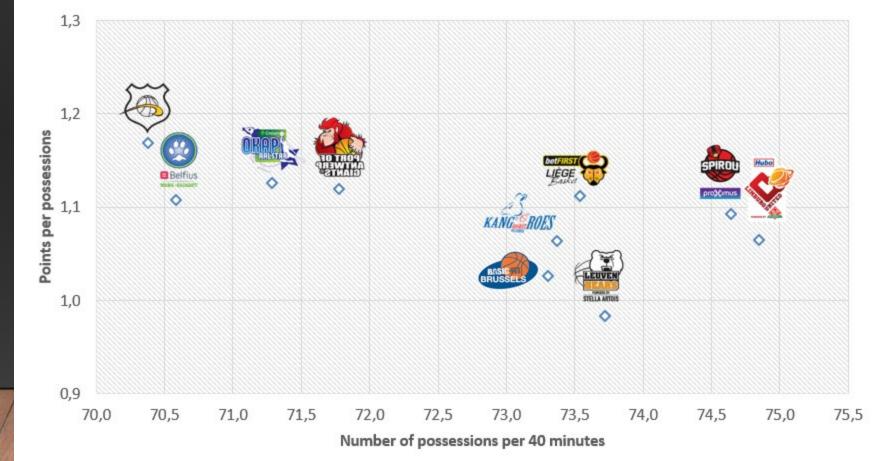
#### Belgium D1 Regular season '17-'18

		Pace	PPP
1	LIM	74,8	1,067
2	CHA	74,6	1,095
3	LEU	73,7	0,986
4	LIE	73,5	1,114
5	WIL	73,4	1,066
6	BRU	73,3	1,028
7	ANT	71,8	1,122
8	AAL	71,3	1,129
9	MON	70,6	1,110
10	oos	70,4	1,171

PPP = Points Per Possession = ORtg / 100



#### Offensive efficiency versus pace



### PACE & EFFICIENCY



#### Belgium D1 Regular season '17-'18

		Pace	PPP
1	LIM	74,8	1,067
2	CHA	74,6	1,095
3	LEU	73,7	0,986
4	LIE	73,5	1,114
5	WIL	73,4	1,066
6	BRU	73,3	1,028
7	ANT	71,8	1,122
8	AAL	71,3	1,129
9	MON	70,6	1,110
10	oos	70,4	1,171

PPP = Points Per Possession = ORtg / 100





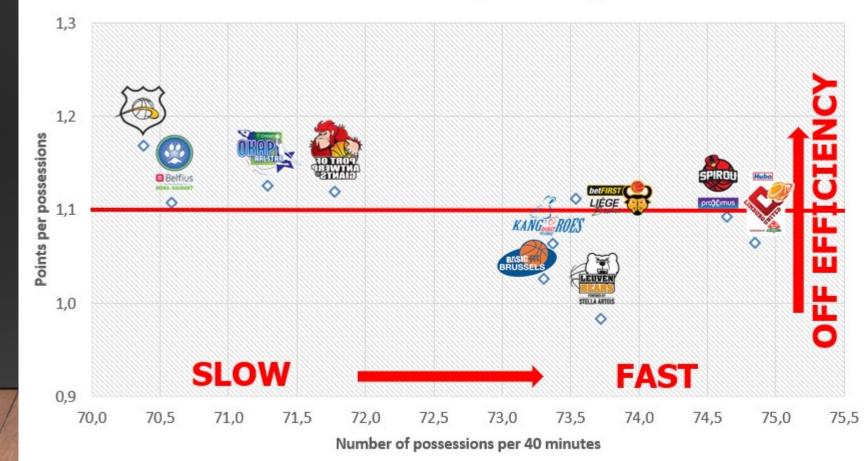








#### Offensive efficiency versus pace



### EFFICIENCY IN OFFENSE & DEFENSE



www.basketball-reference.com



#### 2017-18 Philadelphia 76ers Roster and Stats

« Previous Season

Record: 52-30, 3rd in NBA Eastern Conference

Last Game: W 104-91 vs. MIA

#### Team and Opponent Stats Year/year calculations use per game statistics

G	MP	FG	FGA	FG%	3P	ЗРА	3P%	2P	2PA	2P%	FT	FTA	FT%	ORB	DRB	TRB	AST	STL	BLK	TOV	PF	PTS
82	19780	3349	7098	.472	901	2445	.369	2448	4653	.526	1405	1868	.752	893	2996	3889	2221	682	420	1353	1813	9004
	241.2	40.8	86.6	.472	11.0	29.8	.369	29.9	56.7	.526	17.1	22.8	.752	10.9	36.5	47.4	27.1	8.3	5.1	16.5	22.1	109.8
	16	5	13	8	12	12	10	11	17	7	11	10	23	3	1	1	2	7	9	30	29	7
	-0.3%	8.5%	1.5%	+.030	8.4%	0.1%	+.028	8.5%	2.3%	+.030	0.9%	3.4%	019	10.7%	10.7%	10.7%	14.0%	-1.4%	0.0%	-1.0%	1.1%	7.2%
82	19780	3120	7185	.434	829	2427	.342	2291	4758	.482	1566	2102	.745	818	2641	3459	1782	697	417	1173	1672	8635
	241.2	38.0	87.6	.434	10.1	29.6	.342	27.9	58.0	.482	19.1	25.6	.745	10.0	32.2	42.2	21.7	8.5	5.1	14.3	20.4	105.3
	16	5	22	1	9	17	2	5	22	1	29	29	2	20	4	6	5	26	21	15	20	11
	-0.3%	-3.8%	2.0%	026	13.7%	18.7%	015	-8.9%	-4.8%	022	-5.1%	-1.5%	028	-7.7%	-5.7%	-6.2%	-4.1%	-1.0%	-6.5%	-5.5%	3.9%	-2.6%
	82	82 19780 241.2 16 -0.3% 82 19780 241.2 16	82 19780 3349 241.2 40.8 16 5 -0.3% 8.5% 82 19780 3120 241.2 38.0 16 5	82 19780 3349 7098 241.2 40.8 86.6 16 5 13 -0.3% 8.5% 1.5% 82 19780 3120 7185 241.2 38.0 87.6 16 5 22	82 19780 3349 7098 .472 241.2 40.8 86.6 .472 16 5 13 8 -0.3% 8.5% 1.5% +.030 82 19780 3120 7185 .434 241.2 38.0 87.6 .434 16 5 22 1	82 19780 3349 7098 .472 901 241.2 40.8 86.6 .472 11.0 16 5 13 8 12 -0.3% 8.5% 1.5% +.030 8.4% 82 19780 3120 7185 .434 829 241.2 38.0 87.6 .434 10.1 16 5 22 1 9	82 19780 3349 7098 .472 901 2445 241.2 40.8 86.6 .472 11.0 29.8 16 5 13 8 12 12 -0.3% 8.5% 1.5% +.030 8.4% 0.1% 82 19780 3120 7185 .434 829 2427 241.2 38.0 87.6 .434 10.1 29.6 16 5 22 1 9 17	82 19780 3349 7098 .472 901 2445 .369 241.2 40.8 86.6 .472 11.0 29.8 .369 16 5 13 8 12 12 10 -0.3% 8.5% 1.5% +.030 8.4% 0.1% +.028 82 19780 3120 7185 .434 829 2427 .342 241.2 38.0 87.6 .434 10.1 29.6 .342 16 5 22 1 9 17 2	82     19780     3349     7098     .472     901     2445     .369     2448       241.2     40.8     86.6     .472     11.0     29.8     .369     29.9       16     5     13     8     12     12     10     11       -0.3%     8.5%     1.5%     +.030     8.4%     0.1%     +.028     8.5%       82     19780     3120     7185     .434     829     2427     .342     2291       241.2     38.0     87.6     .434     10.1     29.6     .342     27.9       16     5     22     1     9     17     2     5	82       19780       3349       7098       .472       901       2445       .369       2448       4653         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7         16       5       13       8       12       12       10       11       17         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%         82       19780       3120       7185       .434       829       2427       .342       2291       4758         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0         16       5       22       1       9       17       2       5       22	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526         16       5       13       8       12       12       10       11       17       7         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482         16       5       22       1       9       17       2       5       22       1	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1         16       5       13       8       12       12       10       11       17       7       11         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1         16       5       22       1       9       17       2       5       22       1       29	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8         16       5       13       8       12       12       10       11       17       7       11       10         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1       25.6         16       5       22       1       9       17       2       5       22       1       29       29	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752         16       5       13       8       12       12       10       11       17       7       11       10       23         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1       25.6       .745         16       5       22       1       9       17       2       5       22       1       29       29       2	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9         16       5       13       8       12       12       10       11       17       7       11       10       23       3         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1       25.6       .745       10.0         16       5       22       1       9       17       2       5       22       1       29       2       20	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1       25.6       .745       10.0       32.2         16       5       22       1       9       17 <td>82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1       25.6       .745       10.0       32.2       42.2</td> <td>82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459       1782         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1</td> <td>82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459       1782       697         241.2       38.0       87.6       .434       10.1       29.6       .</td> <td>82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682       420         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3       5.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7       9         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%       0.0%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459       1782       697       417         241.2       38.0<td>82 19780 3349 7098 .472 901 2445 .369 2448 4653 .526 1405 1868 .752 893 2996 3889 2221 682 420 1353 241.2 40.8 86.6 .472 11.0 29.8 .369 29.9 56.7 .526 17.1 22.8 .752 10.9 36.5 47.4 27.1 8.3 5.1 16.5 16 5 13 8 12 12 10 11 17 7 11 10 23 3 1 1 1 2 7 9 30 -0.3% 8.5% 1.5% +0.30 8.4% 0.1% +0.28 8.5% 2.3% +0.30 0.9% 3.4% -0.019 10.7% 10.7% 10.7% 14.0% -1.4% 0.0% -1.0% 82 19780 3120 7185 .434 829 2427 .342 2291 4758 .482 1566 2102 .745 818 2641 3459 1782 697 417 1173 241.2 38.0 87.6 .434 10.1 29.6 .342 27.9 58.0 .482 19.1 25.6 .745 10.0 32.2 42.2 21.7 8.5 5.1 14.3 16 5 22 1 9 17 2 5 22 1 29 29 2 20 4 6 5 26 21 15</td><td>82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682       420       1353       1813         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3       5.1       16.5       22.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7       9       30       29         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%       0.0%       -1.0%       1.1%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818</td></td>	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1       25.6       .745       10.0       32.2       42.2	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459       1782         241.2       38.0       87.6       .434       10.1       29.6       .342       27.9       58.0       .482       19.1	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459       1782       697         241.2       38.0       87.6       .434       10.1       29.6       .	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682       420         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3       5.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7       9         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%       0.0%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818       2641       3459       1782       697       417         241.2       38.0 <td>82 19780 3349 7098 .472 901 2445 .369 2448 4653 .526 1405 1868 .752 893 2996 3889 2221 682 420 1353 241.2 40.8 86.6 .472 11.0 29.8 .369 29.9 56.7 .526 17.1 22.8 .752 10.9 36.5 47.4 27.1 8.3 5.1 16.5 16 5 13 8 12 12 10 11 17 7 11 10 23 3 1 1 1 2 7 9 30 -0.3% 8.5% 1.5% +0.30 8.4% 0.1% +0.28 8.5% 2.3% +0.30 0.9% 3.4% -0.019 10.7% 10.7% 10.7% 14.0% -1.4% 0.0% -1.0% 82 19780 3120 7185 .434 829 2427 .342 2291 4758 .482 1566 2102 .745 818 2641 3459 1782 697 417 1173 241.2 38.0 87.6 .434 10.1 29.6 .342 27.9 58.0 .482 19.1 25.6 .745 10.0 32.2 42.2 21.7 8.5 5.1 14.3 16 5 22 1 9 17 2 5 22 1 29 29 2 20 4 6 5 26 21 15</td> <td>82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682       420       1353       1813         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3       5.1       16.5       22.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7       9       30       29         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%       0.0%       -1.0%       1.1%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818</td>	82 19780 3349 7098 .472 901 2445 .369 2448 4653 .526 1405 1868 .752 893 2996 3889 2221 682 420 1353 241.2 40.8 86.6 .472 11.0 29.8 .369 29.9 56.7 .526 17.1 22.8 .752 10.9 36.5 47.4 27.1 8.3 5.1 16.5 16 5 13 8 12 12 10 11 17 7 11 10 23 3 1 1 1 2 7 9 30 -0.3% 8.5% 1.5% +0.30 8.4% 0.1% +0.28 8.5% 2.3% +0.30 0.9% 3.4% -0.019 10.7% 10.7% 10.7% 14.0% -1.4% 0.0% -1.0% 82 19780 3120 7185 .434 829 2427 .342 2291 4758 .482 1566 2102 .745 818 2641 3459 1782 697 417 1173 241.2 38.0 87.6 .434 10.1 29.6 .342 27.9 58.0 .482 19.1 25.6 .745 10.0 32.2 42.2 21.7 8.5 5.1 14.3 16 5 22 1 9 17 2 5 22 1 29 29 2 20 4 6 5 26 21 15	82       19780       3349       7098       .472       901       2445       .369       2448       4653       .526       1405       1868       .752       893       2996       3889       2221       682       420       1353       1813         241.2       40.8       86.6       .472       11.0       29.8       .369       29.9       56.7       .526       17.1       22.8       .752       10.9       36.5       47.4       27.1       8.3       5.1       16.5       22.1         16       5       13       8       12       12       10       11       17       7       11       10       23       3       1       1       2       7       9       30       29         -0.3%       8.5%       1.5%       +.030       8.4%       0.1%       +.028       8.5%       2.3%       +.030       0.9%       3.4%      019       10.7%       10.7%       10.7%       14.0%       -1.4%       0.0%       -1.0%       1.1%         82       19780       3120       7185       .434       829       2427       .342       2291       4758       .482       1566       2102       .745       818

#### **Team Misc**

											Adva	nce	Offense Four Factors			Defense Four Factors						
	w	L	PW	PL	MOV	SOS	SRS	ORtg	DRtg	Pace	FTr	ЗРА	eFG%	TOV%	ORB%	FT/FGA	eFG%	TOV%	DRB%	FT/FGA	Arena	Attendance
Team	52	30	53	29	4.50	-0.20	4.30	109.5	105.0	99.8	.263	.344	.535	14.6	25.3	.198	.492	12.6	78.6	.218	Wells Fargo Center	833,503
Lg Rank	5	26	5	5	4	25	5	12	4	4	10	13	7	30	3	12	1	18	9	28		3

### FOUR FACTORS BEHIND GOOD OFFENSE



#### Belgium D1 Regular season '17-'18

	OFFENSE							
		ORtg	eFG%	TOV%	OR%	FT/FGA		
1	oos	117,1	0,58	15,0	27,4	0,38		
2	AAL	112,9	0,57	15,2	19,7	0,30		
3	ANT	112,2	0,54	14,1	29,2	0,31		
4	LIE	111,4	0,52	13,2	28,5	0,32		
5	MON	111,0	0,55	14,8	23,0	0,31		
6	CHA	109,5	0,53	13,8	25,3	0,32		
7	LIM	106,7	0,52	14,5	25,5	0,28		
8	WIL	106,6	0,54	15,7	20,1	0,28		
9	BRU	102,8	0,51	14,1	22,0	0,26		
10	LEU	98,6	0,48	16,0	27,1	0,30		



**eFG**% = effective field goal percentage (which takes into account extra value of scored 3pt)

**TOV**% = number of turnovers per 100 possessions

**OR%** = Offensive rebound percentage is the percentage of available offensive rebounds a team grabbed

**FT/FGA** = number of free throws provoked per field goal attempt



#### FOUR FACTORS BEHIND GOOD DEFENSE



#### Belgium D1 Regular season '17-'18

	DEFENSE								
		DRtg	eFG%	TOV%	DR%	FT/FGA			
1	oos	97,4	0,47	14,8	77,6	0,25			
2	ANT	100,9	0,49	15,6	76,3	0,30			
3	CHA	103,1	0,53	17,5	75,2	0,37			
4	AAL	105,5	0,52	13,5	77,5	0,27			
5	LIM	107,2	0,53	16,4	75,0	0,41			
6	BRU	109,6	0,54	14,9	75,1	0,27			
7	MON	111,6	0,54	13,8	73,1	0,32			
8	LEU	114,2	0,56	13,8	75,2	0,33			
9	WIL	117,3	0,56	11,7	73,6	0,29			
10	LIE	120,6	0,60	14,3	72,0	0,27			



**eFG**% = effective field goal percentage by the opponent

**TOV**% = number of turnovers per 100 possessions <u>by</u> the opponent

**DR%** = Defensive rebound percentage is the percentage of available defensive rebounds a team grabs

**FT/FGA** = number of free throws provoked per field goal attempt by the opponent



## PLAYING STYLE



## Belgium D1 1/3/2018

	AST/FGM
ANT	0,648
CHA	0,644
LIM	0,627
oos	0,599
BRU	0,563
LEU	0,548
AAL	0,534
WIL	0,506
LIE	0,503
MON	0,465

	AST/TO
ANT	1,7
oos	1,6
BRU	1,5
CHA	1,5
LIM	1,4
LIE	1,4
AAL	1,3
MON	1,3
LEU	1,1
WIL	1,1

**AST / FGM** = number of assists over number of made field goals = how many % of FG are made out of an assist?

**AST / TO** = number of assists over number of turnovers



## FINALS PREVIEW '17-'18



PREVIEW				EuroMillions  BASKETBALL LEAGUE	GIANTS				
	Regular Season	2 wins	2 wins OOS		2 wins ANT	2 wins OOS	Regular Season		
Ä	117,1	107,6	113,4	ORtg	112,5	87,7	112,2		
SNE	58,1	49,2	54,1	eFG%	58,4	37,9	53,6		
H	15,0	11,6	18,0	TOV%	15,1	12,3	14,1		
0	27,4	19,1	29,6	OR%	19,6	28,6	29,2		
	0,38	0,36	0,53	FT/FGA	0,21	0,27	0,31		
Щ	70,4	71,8	67,2	Pace	71,8	67,2	71,8		
Σ	36%	42%	37%	3PA/FA	33%	37%	36%		
S	62%	74%	70%	AST/FGM	61%	64%	66%		

#### FINALS PREVIEW '17-'18



## HOW ANTWERP CAN DETHRONE OSTEND BY SEDUCING THEM TO PLAY LIKE GOLDEN STATE

Finals preview, EuroMillions League 2017-2018

Pascal Meurs 6/6/2018

#### ANTWERP WINS WHEN THEY



#### **OSTEND WINS WHEN THEY**



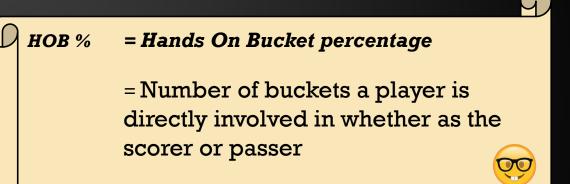
- Speed up the game tempo, going into a full court transition game
- Close the paint in defense, secuding Ostend to a lot of 3pt attempts and allowing few free throws
- Control and slow down the pace of the game, going into their half court set plays with their floor leader Djordjevic
- Attack the basket aggressively, provoking a lot of free throws

## INDIVIDUAL ADVANCED STATS



#### Belgium D1 2018-2019 12/12/2018

нов%	Player (team)					
28,22	Bryant Mcintosh (Leuven)					
24,9	Milos Bojovic (Liege)					
24	Carrington Love (Willebroek)					
23,21	Chris Jones (Mons)					
22,76	Paris Lee (Antwerpen)					



## THANK YOU!



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