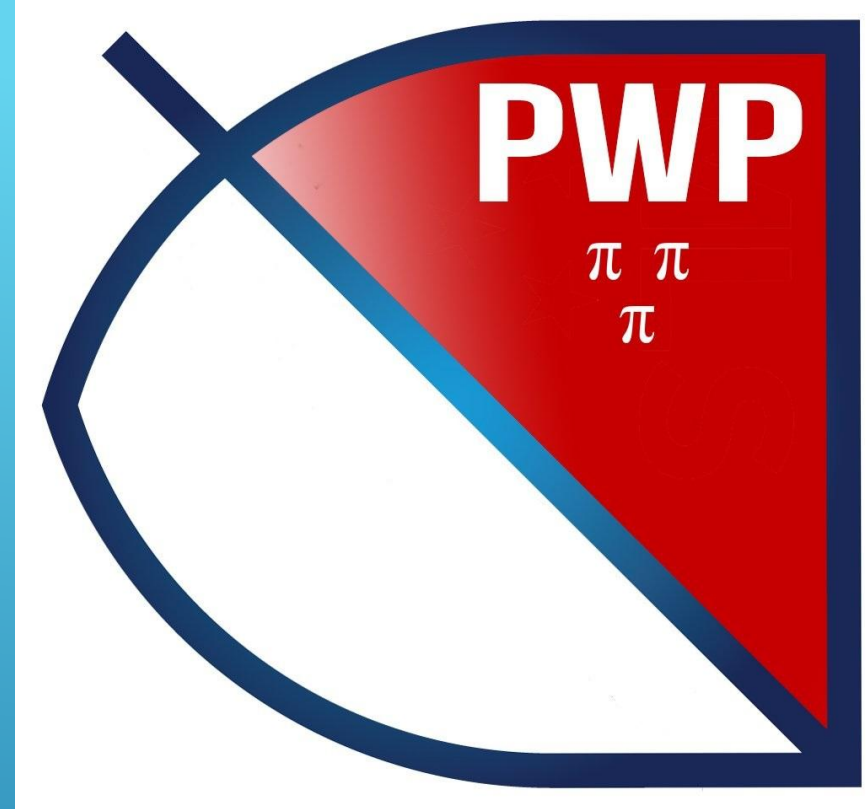


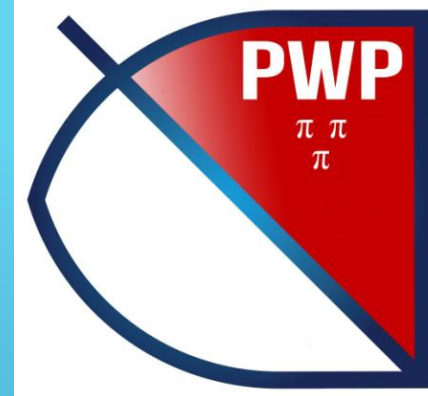
POSSESSION WITH PURPOSE

TOTAL SOCCER INDEX

PRESENTED BY: CHRIS GLUCK

@CHRISGLUCKPWP





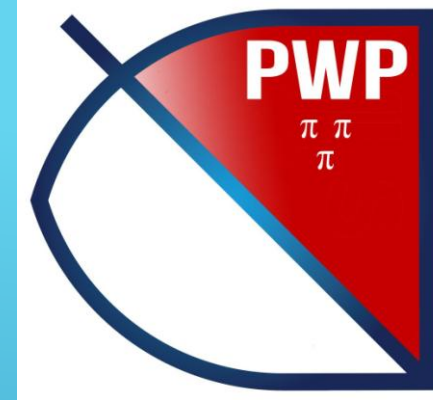
TOTAL SOCCER INDEX (TSI)

DEFINITION: THE DIFFERENCE BETWEEN HOW WELL BOTH TEAMS PERFORM AGAINST EACH OTHER AS MEASURED BY THE MOST FREQUENT OPERATIONAL STEPS EACH TEAM EXECUTES ON THE PITCH.



TOTAL SOCCER INDEX

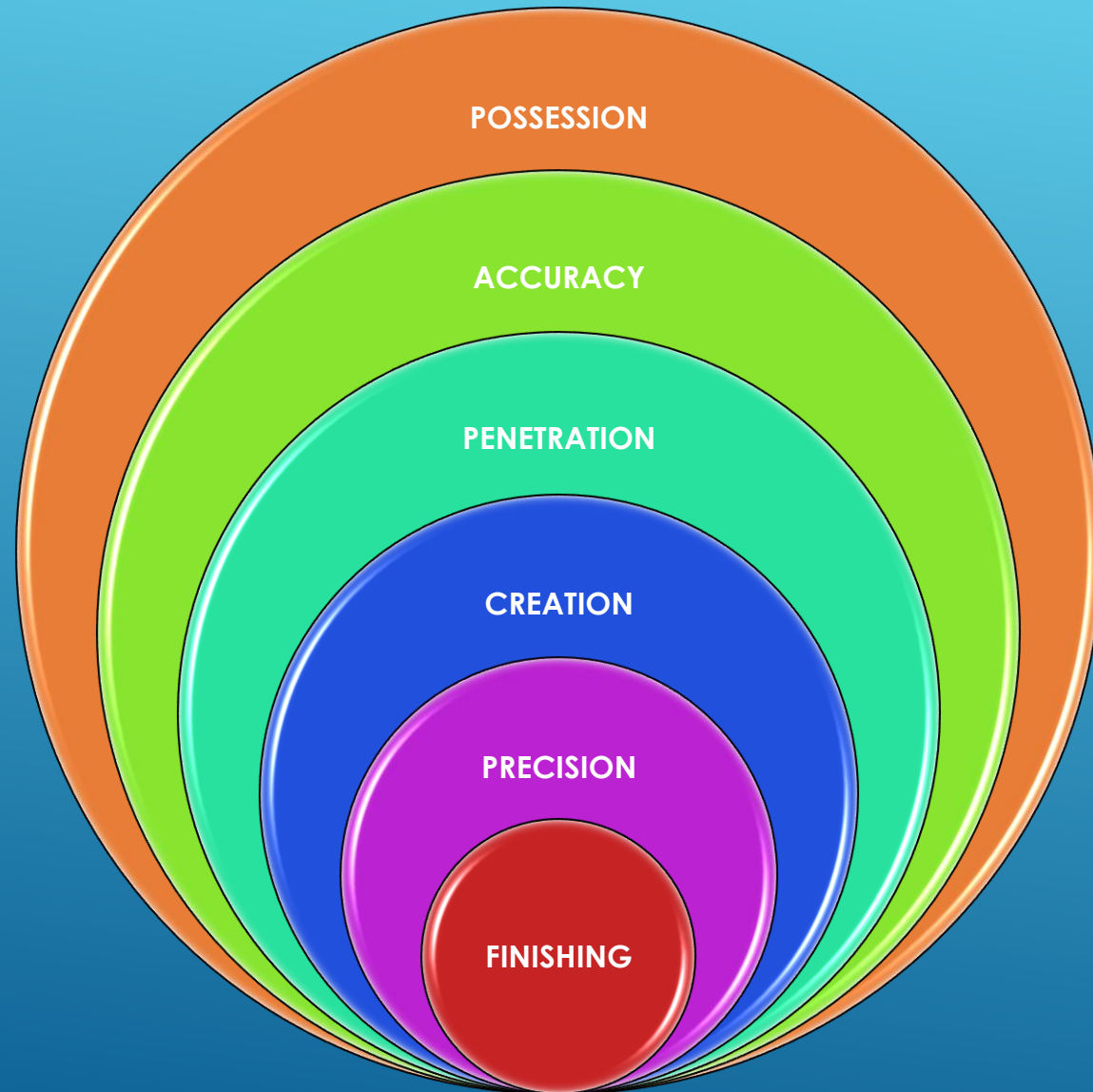
PURPOSE: DEVELOP AN INTER-RELATED TEAM PERFORMANCE MEASUREMENT TO BETTER UNDERSTAND SOCCER, AND HOW TEAM PERFORMANCE INFLUENCES EARNING POINTS IN THE LEAGUE TABLE.



TOTAL SOCCER INDEX

PREMISE: “SOCCER IS A GAME PLAYED BY TWO TEAMS AGAINST EACH OTHER – TO ASSESS JUST ONE TEAMS’ (AND THEIR PLAYERS’) ACTIONS IGNORES HOW THE OPPONENT INFLUENCES THE STATISTICAL OUTCOMES AND RESULTS OF A GAME.”

PARTS OF TOTAL SOCCER INDEX



DEFINITIONS OF THE PARTS WITHIN TOTAL SOCCER INDEX



POSSESSION

- QUANTITY OF PASSES ATTEMPTED VS OPPONENT PASSES ATTEMPTED (%)

ACCURACY

- QUANTITY OF PASSES COMPLETED VS PASSES ATTEMPTED (%)

PENETRATION

- QUANTITY OF ACCURATE PASSES WITHIN/INTO ATTACKING FINAL THIRD VS ACCURACY (%)

CREATION

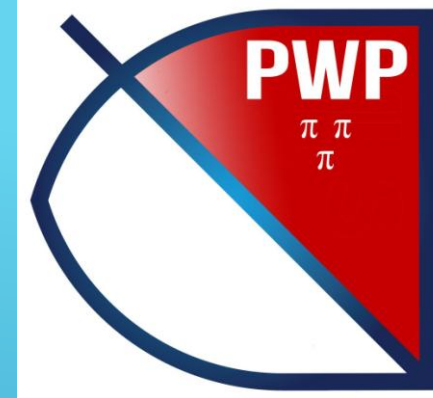
- QUANTITY OF SHOTS TAKEN VS PENETRATION (%)

PRECISION

- QUANTITY OF SHOTS ON GOAL VS CREATION (%)

FINISHING

- QUANTITY OF GOALS SCORED VS PRECISION (%)



TOTAL SOCCER INDEX

LEAGUES AND COMPETITIONS MEASURED THROUGHOUT THE LAST FOUR YEARS:

- MAJOR LEAGUE SOCCER 2014, 2015, 2016, & 2017
- ENGLISH PREMIER LEAGUE 2014
- BUNDESLIGA 2014
- LA LIGA 2014
- UEFA CHAMPIONS LEAGUE 2014
- MENS WORLD CUP 2014
- WOMENS WORLD CUP 2015 (DATA PROVIDED BY OPTA)

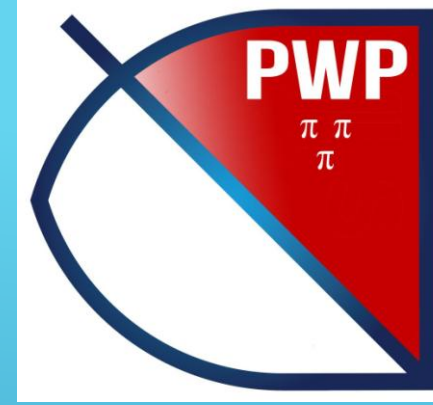


TOTAL SOCCER INDEX

APPLICATION:

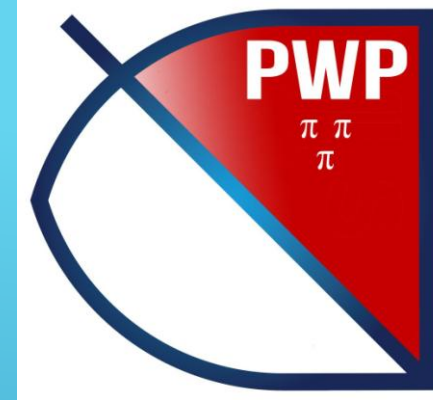
- PROVIDES AN OBJECTIVE POWER RANKING INDEX FOR SUPPORTERS IN LEAGUES MEASURED
- PROVIDES A PREDICTABILITY TOOL ONCE “X” AMOUNT OF GAMES (BOTH HOME AND AWAY) HAVE BEEN PLAYED TO PREDICT/FORECAST FUTURE OUTCOMES
- PROVIDES FIFA AN OBJECTIVE WORLD CUP SEEDING INDEX THAT CROSSES ALL SUB-ORGANIZATIONAL COMPETITIONS
- PROVIDES AN OPPORTUNITY TO IMPROVE ONE-SIDED MEASUREMENTS LIKE EXPECTED GOALS, EXPECTED PASSES, ETC...

TOTAL SOCCER INDEX (TSI)



APPLICATION:

- PROVIDES A SIMPLIFIED TEAM PERFORMANCE MEASUREMENT FOR FRONT OFFICE STAFF AND HEAD COACHES TO ASSESS TEAM PERFORMANCE.
FOR EXAMPLE:
 - GIVEN ITS PREDICTABILITY STRENGTHS ONCE “X” AMOUNT OF GAMES HAVE BEEN PLAYED A TEAMS’ TSI, COMPARED TO OTHERS, CAN BE PLOTTED TO FORECAST FUTURE POINTS EARNED GIVEN PREVIOUS TEAM PERFORMANCE.
 - WITH SIX INTER-RELATED PARTS AN ORGANIZATION CAN IDENTIFY WHERE OPERATIONAL WEAKNESSES EXIST WITHIN THEIR TEAM; BOTH IN ATTACKING AND HOW WELL THE OPPONENTS ARE ATTACKING AGAINST THEM.



TOTAL SOCCER INDEX (TSI)

APPLICATION:

- CORRELATIONS, OR LACK THEREOF, SHOW THAT NOT ALL TEAMS, NOR LEAGUES, PERFORM/BEHAVE IN THE SAME WAY EVEN THOUGH THE RESULTS ARE STILL 0, 1, OR 3 POINTS.
- THEREFORE INDIVIDUAL PLAYER STATISTICS (A) FOR ANY TEAMS WITHIN THE SAME LEAGUE OR DIFFERENT LEAGUE DO NOT HAVE THE SAME MEANING AS INDIVIDUAL PLAYER STATISTICS (B) FOR OTHER TEAMS IN THE SAME LEAGUE OR DIFFERENT LEAGUES.

“IN OTHER WORDS THE LOCATIONS ON WHERE SHOTS ARE TAKEN (AS MEASURED THROUGH EXPECTED GOALS) HAVE DIFFERENT “WEIGHTS” FOR PLAYERS WHOSE TEAMS SHOW DIFFERING CORRELATIONS BETWEEN SHOTS TAKEN AND POINTS EARNED”

“SAID DIFFERENTLY NOT ALL SHOTS, EVEN TAKEN FROM THE SAME LOCATION SHOULD BE TREATED EQUALLY.”

“THIS SAME LOGIC ALSO APPLIES TO EXPECTED PASSES.”

TOTAL SOCCER INDEX (TSI)



APPLICATION:

- PROVIDES TV SOCCER PUNDITS MORE INTER-RELATED INFORMATION TO INFORM THEIR AUDIENCE THAT SOCCER IS MORE THAN JUST POSSESSION, SHOTS TAKEN, AND GOALS SCORED.
- PROVIDES GREAT STORY LINES FOR SOCCER WRITERS TO HELP EDUCATE THE GROWING SUPPORTER BASE.
- PROVIDES A SIMPLIFIED EDUCATIONAL TOOL FOR YOUTH SOCCER COACHES TO ADVOCATE TEAM PERFORMANCE, AS A MEASUREMENT, AS OPPOSED TO INDIVIDUAL PLAYER PERFORMANCE AS A MEASUREMENT.

“IN OTHER WORDS – IT REDUCES THE PRESSURE OF YOUNG PLAYERS HAVING TO BE PERFECT AND REINFORCES THAT TEAM PERFORMANCE – IN A RESULTS BASED ENVIRONMENT – IS WHAT MATTERS MOST”

“FULLBACKS ARE JUST AS IMPORTANT – IF NOT MORE SO – THAN STRIKERS”



TOTAL SOCCER INDEX

THE DATA

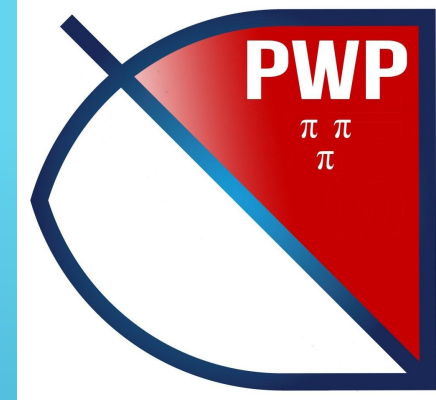
MAJOR LEAGUE SOCCER 2017

CAVEAT: DATA SHOWN REPRESENTS BOTH HOME AND AWAY GAMES; TEAMS WILL SHOW DIFFERENCES IN THESE PERCENTAGES IN HOME VS PLAYING ON THE ROAD.

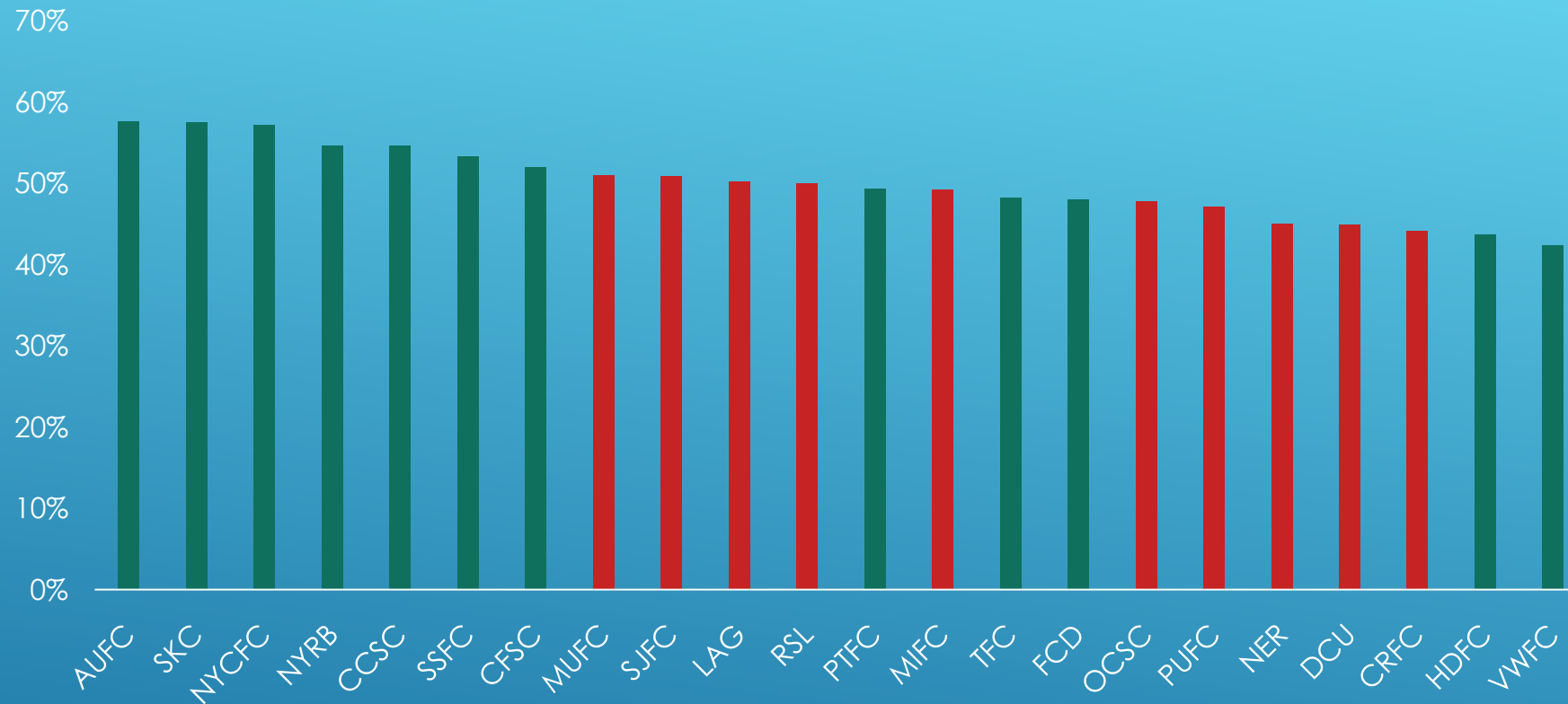
KEY:

GREEN = ABOVE THE PLAYOFF LINE

RED = BELOW THE PLAYOFF LINE

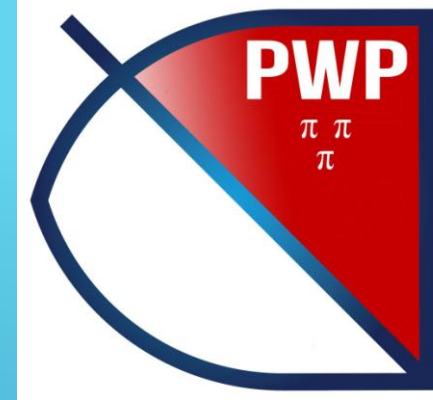


POSSESSION: MLS 2017

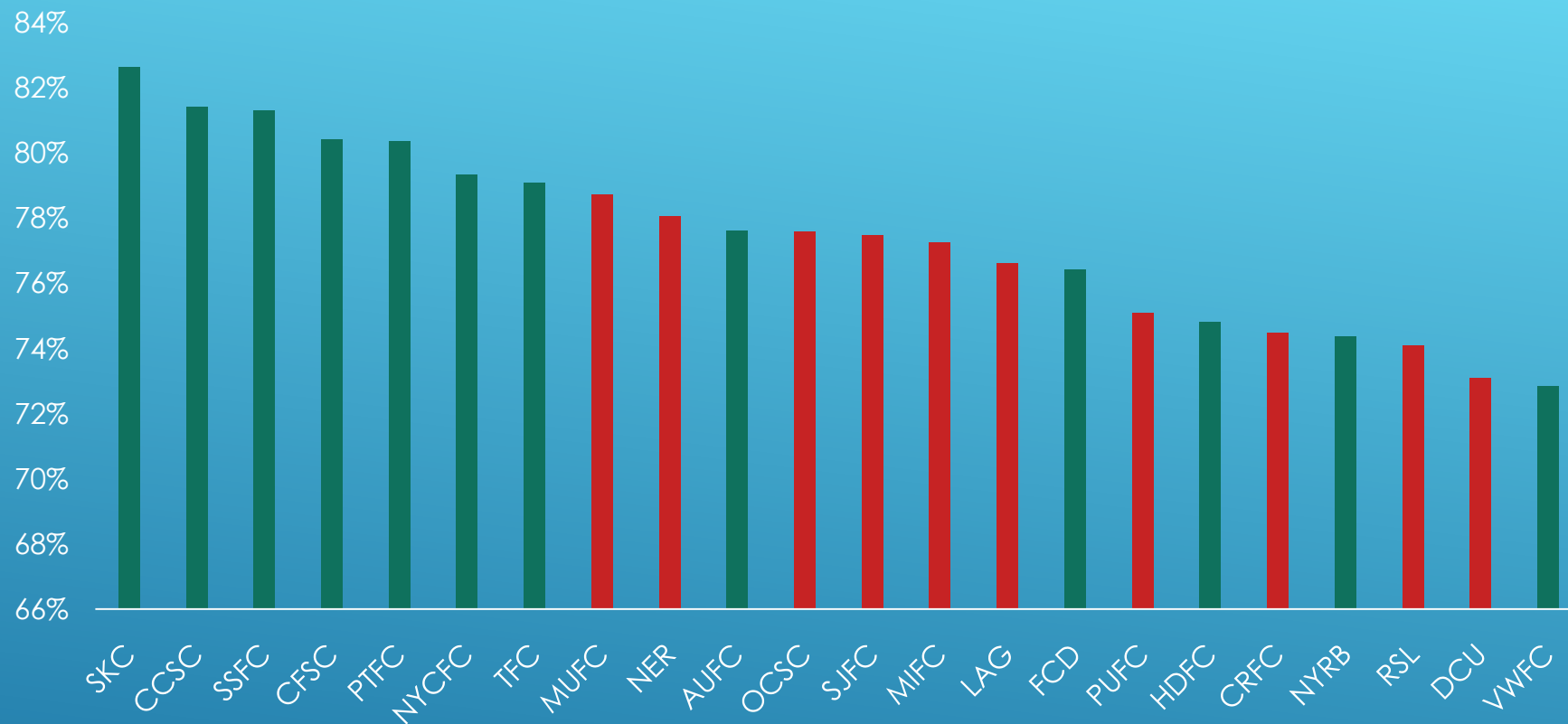


POSSESSION = R TO POINTS .45

**MORE POSSESSION USUALLY MEANS MORE POINTS – BUT NOT ALWAYS
THIS YEAR IT APPEARS MLS POSSESSION OUTCOMES ARE TAKING CLOSER SHAPE TO
EUROPEAN LEAGUES MEASURED IN 2014**



ACCURACY: MLS 2017

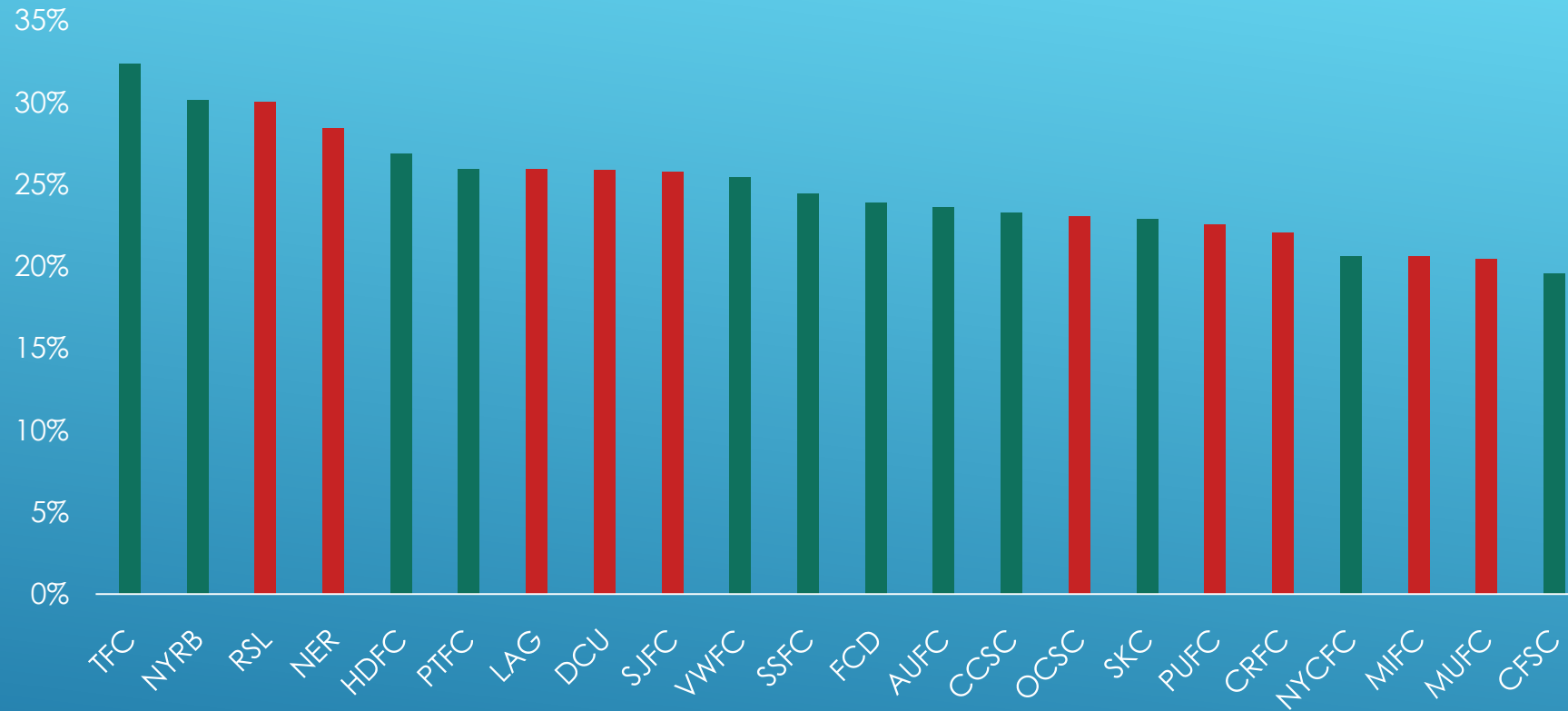


ACCURACY = R TO POINTS .48

**GREATER OVERALL PASSING ACCURACY USUALLY MEANS MORE POINTS – BUT NOT ALWAYS
THIS YEAR IT APPEARS ACCURACY OUTCOMES ARE TAKING CLOSER SHAPE TO EUROPEAN
LEAGUES MEASURED IN 2014**



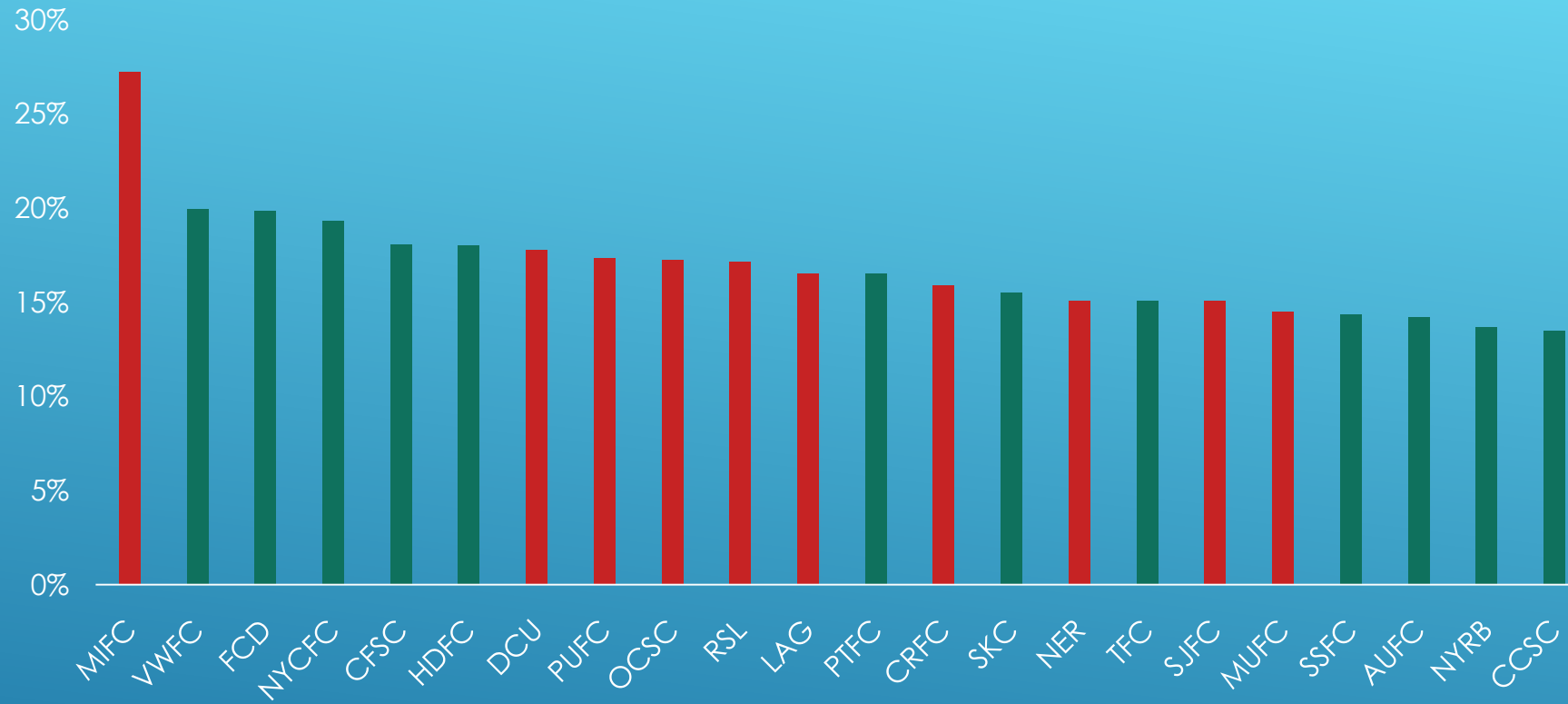
PENETRATION: MLS 2017



PENETRATION = R TO POINTS .06

**PERCENTAGE OF PENETRATION HAS NO CORRELATION TO A TEAM EARNING POINTS;
DEBUNKS THE OFT HEARD POST-GAME PRESS COMMENT THAN WE SHOULD HAVE WON; WE
HAD BETTER PENETRATION AND SHOT CREATION THAN THE OPPONENT DID.
LIKE EUROPEAN LEAGUES IN 2014 A TOP TEAM IN OVERALL PERFORMANCE HAS THE WORST
PERCENTAGE OF PENETRATION PER SUCCESSFUL POSSESSION.**

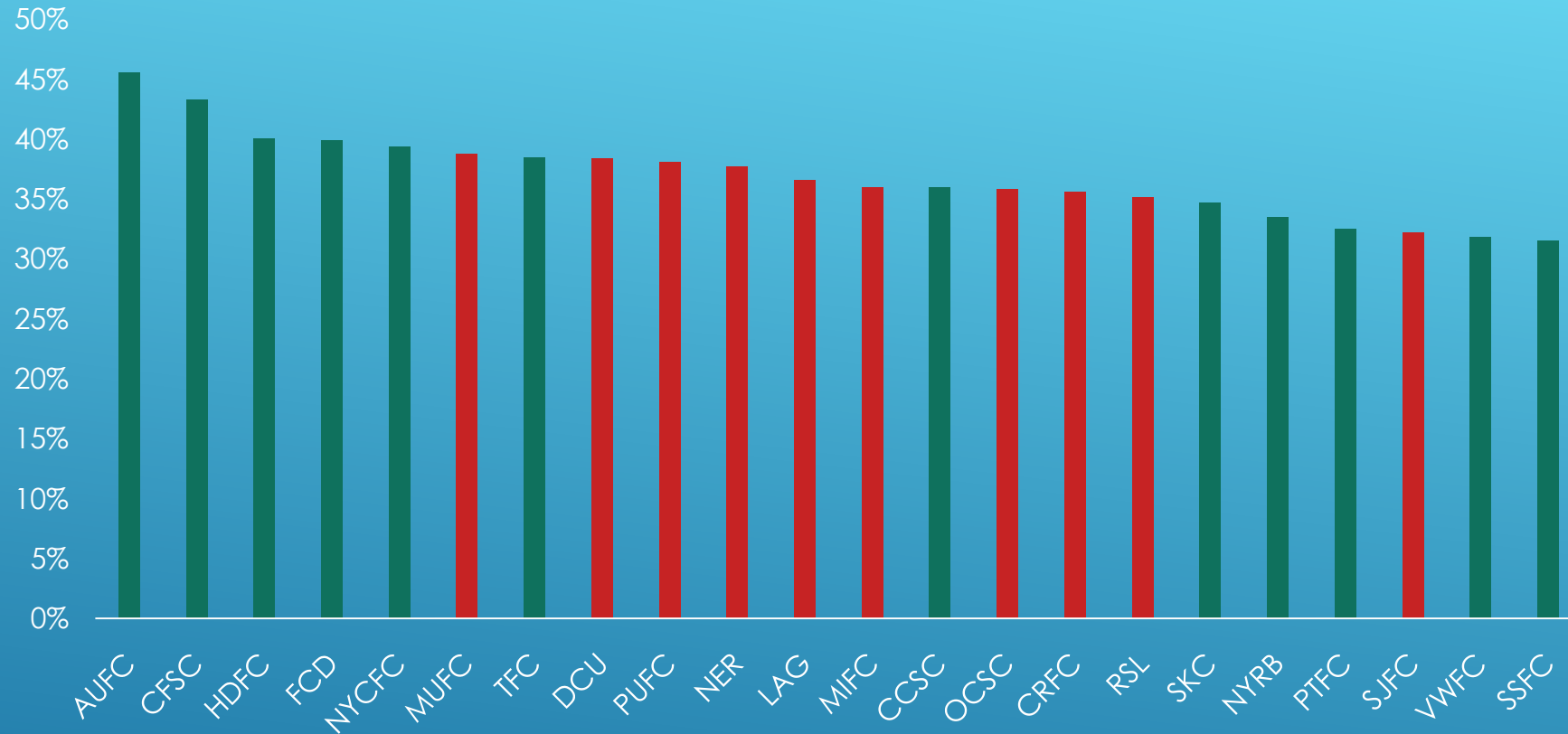
CREATION: MLS 2017



CREATION = R TO POINTS -.05

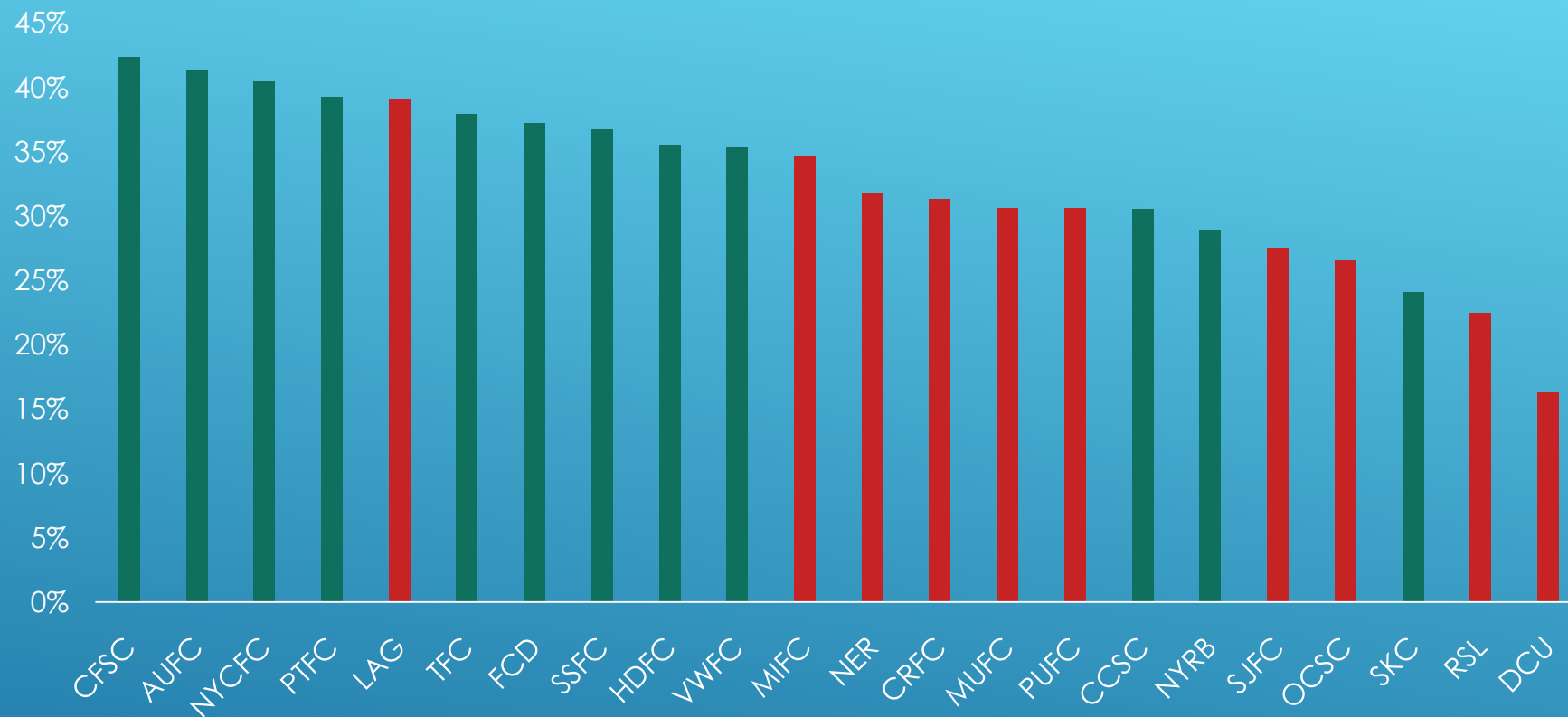
PERCENTAGE/VOLUME OF SHOT CREATION HAS NO CORRELATION TO A TEAM EARNING POINTS – SAME OFFERED W/R/T PENETRATION APPLIES TO SHOT CREATION TOO. AND, LIKE EUROPEAN LEAGUES TEAMS THAT ARE PERFORMING WELL SHOW LOW CORRELATION BETWEEN SHOT CREATION AND POINTS EARNED

PRECISION: MLS 2017



PRECISION = R TO POINTS .29
FOR THE MOST PART THE ABILITY TO PUT A SHOT TAKEN ON GOAL CORRELATES WELL WITH POINTS EARNED. NOTICE THAT THE THREE TEAMS NOT ABOVE THE RED LINE (MUFC, DCU, AND PUFC) ARE ALSO THE TOP THREE TEAMS NOT ABOVE THE RED LINE IN SHOT CREATION. DOES "HASTE MAKES WASTE"?

FINISHING: MLS 2017

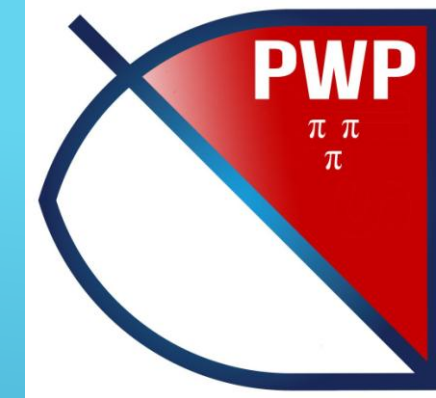


FINISHING = R TO POINTS .54

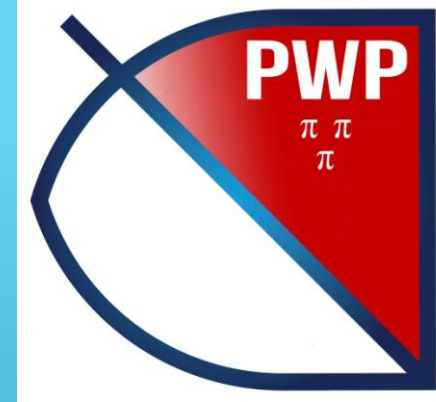
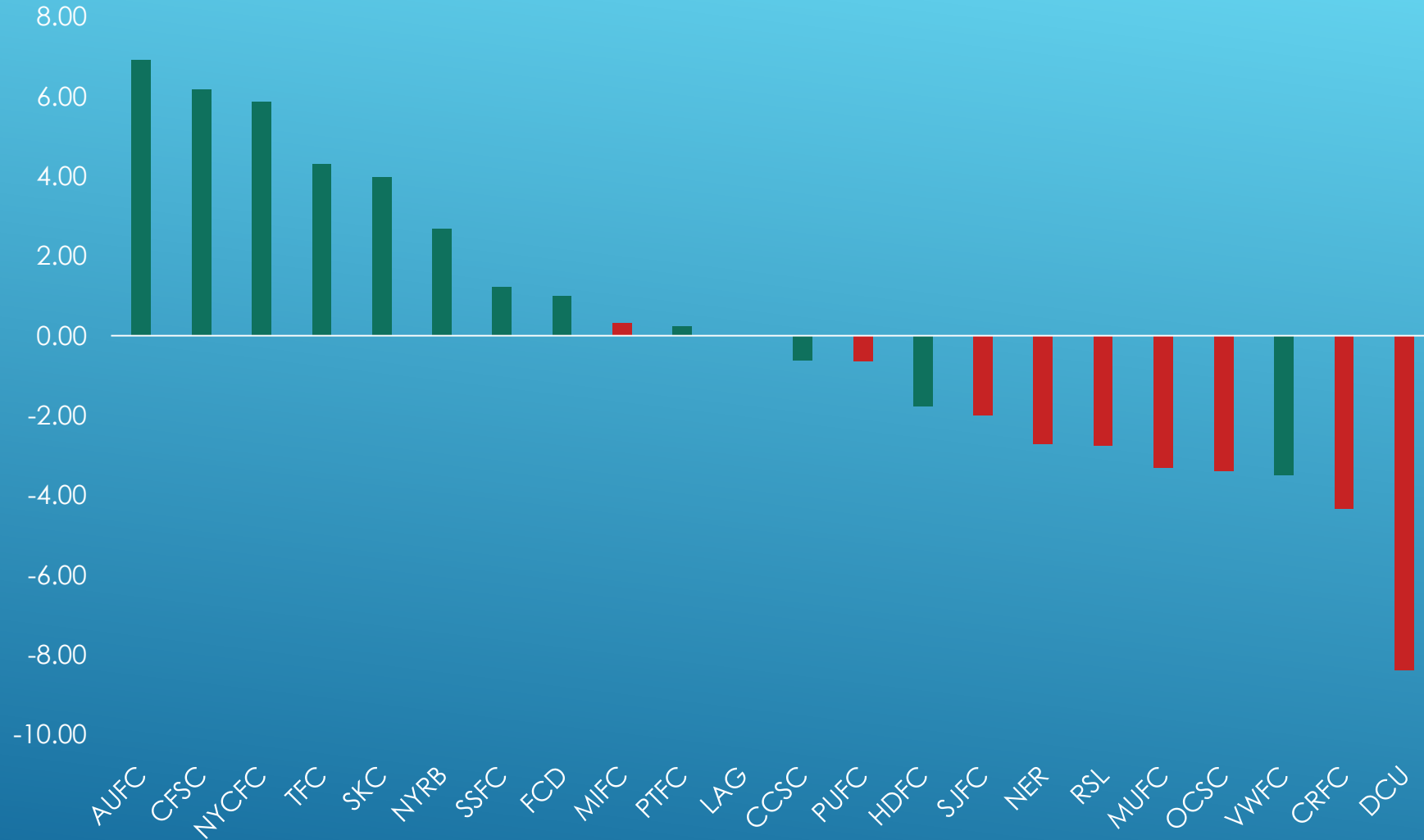
THE ABILITY TO FINISH CORRELATES WELL WITH POINTS EARNED; BUT ONLY marginally BETTER THAN POSSESSION AND ACCURACY; ITS NOT ALL ABOUT SCORING GOALS.

NOTICE THAT THE WORST TEAM IN FINISHING (DCU) WAS THE 8TH BEST IN PRECISION AND 7TH BEST IN CREATION. HASTE MAKES WASTE; AT LEAST IN THE CASE OF DCU.

PERHAPS BEN OLSEN ISN'T AS FORTUNATE IN KEEPING HIS JOB AFTER THIS SEASON AS HE WAS IN 2014?



TOTAL SOCCER INDEX: MLS 2017



TOTAL SOCCER INDEX = R TO POINTS .82

TOTAL SOCCER INDEX (MLS 2017)

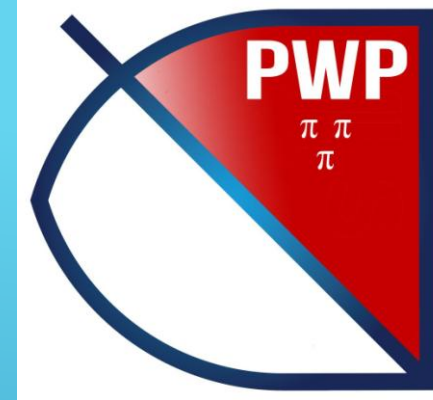


OBSERVATIONS:

TEN OF THE TOP 12 TEAMS IN THE TOTAL SOCCER INDEX ARE CURRENTLY ABOVE THE RED LINE.

PREDICTABILITY: WITH OVER TWO-THIRDS OF THE SEASON COMPLETED IT'S:

- MORE THAN LIKELY THE TEAMS, GIVEN WHERE THEY FALL IN THE TSI TODAY, WILL FINISH AT OR NEAR THAT POSITION BY SEASONS END.
- BUT I CAN SEE TWO EXCEPTION
 - WITH A NEW HEAD COACH LA GALAXY MIGHT MAKE SOME OPERATIONAL CHANGES IN TACTICS THAT SEE THEM PUSH PAST VANCOUVER – WHO STRUGGLES WITH PRECISION AND FINISHING.
 - AND WITH ORLANDO CITY ADDING DOM DWYER IT'S POSSIBLE, WITH IMPROVED FINISHING, THEY COULD SUPPLANT COLUMBUS AS THE FINAL PLAYOFF TEAM.
- WILL KEEP A WATCH ON THAT THE REMINDER OF THIS YEAR.



TOTAL SOCCER INDEX

HISTORY OF PREVIOUS LEAGUE & COMPETITIONS MEASURED

CORRELATIONS ARE PROVIDED FOR THE AVERAGE OF EACH PART;
INCLUDING ALL HOME AND AWAY GAMES.

R = 1 PERFECT POSITIVE RELATIONSHIP / MORE MEANS MORE

R = -1 PERFECT INVERSE RELATIONSHIP / LESS MEANS MORE

TOTAL SOCCER INDEX (MLS 2014)

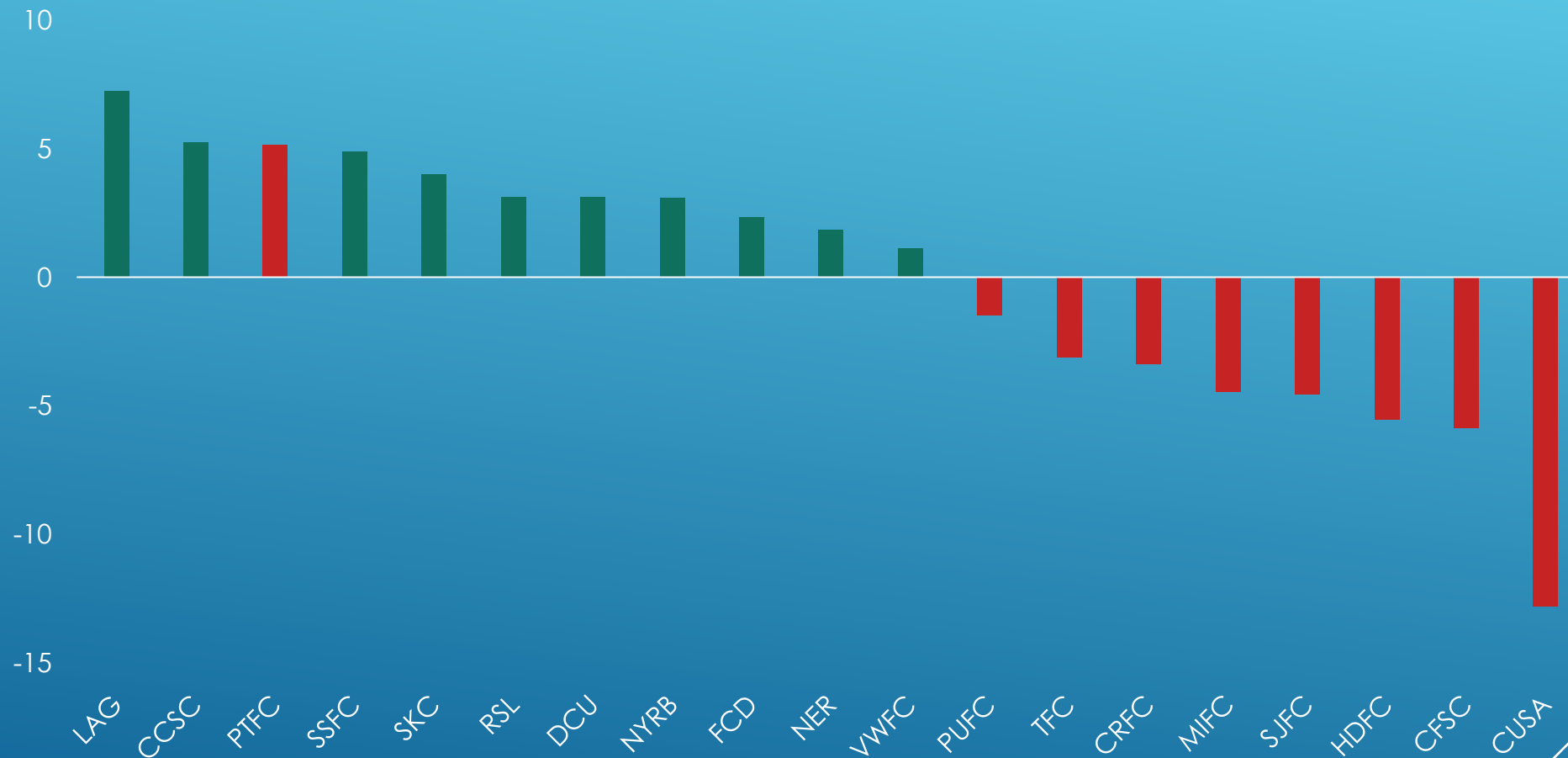


TEAMS MLS 2014	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
SSFC	51%	49%	79%	78%	23%	22%	17%	17%	40%	34%	38%	33%	4.90	64
LAG	55%	45%	81%	77%	24%	22%	17%	15%	37%	40%	38%	32%	7.26	61
DCU	48%	52%	76%	77%	21%	25%	17%	17%	41%	35%	35%	23%	3.11	59
RSL	56%	44%	80%	76%	24%	25%	15%	21%	37%	32%	29%	35%	3.13	56
NER	49%	51%	74%	76%	31%	20%	16%	20%	40%	35%	29%	31%	1.85	55
FCD	47%	53%	76%	79%	21%	24%	19%	18%	36%	34%	44%	27%	2.35	54
CCSC	54%	46%	81%	78%	22%	23%	17%	19%	35%	38%	36%	26%	5.24	52
VWFC	49%	51%	79%	77%	23%	23%	18%	17%	35%	33%	26%	25%	1.12	50
NYRB	52%	48%	79%	78%	22%	24%	16%	20%	41%	37%	38%	33%	3.09	50
SKC	57%	43%	78%	71%	23%	21%	19%	22%	34%	38%	30%	33%	4.01	49
PTFC	52%	48%	78%	76%	24%	27%	18%	18%	38%	35%	36%	28%	5.16	49
PUFC	48%	52%	75%	77%	25%	21%	19%	17%	34%	38%	37%	37%	-1.47	42
TFC	49%	51%	76%	76%	22%	25%	20%	17%	34%	36%	31%	37%	-3.11	41
HDFC	49%	51%	77%	78%	24%	22%	19%	20%	33%	35%	22%	33%	-5.54	39
CFSC	46%	54%	74%	78%	23%	21%	20%	17%	36%	39%	30%	37%	-5.88	36
CUSA	42%	58%	74%	82%	21%	20%	18%	16%	31%	37%	25%	36%	-12.81	33
CRFC	51%	49%	77%	76%	21%	22%	21%	16%	36%	41%	24%	35%	-3.38	32
SJFC	49%	51%	77%	78%	22%	25%	16%	20%	34%	36%	23%	25%	-4.56	30
MIFC	47%	53%	76%	79%	18%	23%	21%	17%	36%	39%	30%	32%	-4.49	28
Grand Total	50%	50%	77%	77%	23%	23%	18%	18%	36%	36%	32%	32%	0.00	880
Corr to points	0.52	-0.52	0.50	-0.30	0.39	0.18	-0.60	0.11	0.60	-0.42	0.63	-0.30	0.85	



TOTAL SOCCER INDEX: MLS 2014

CORRELATION TO POINTS EARNED .85



TOTAL SOCCER INDEX (MLS 2014)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE TOP SIX TEAMS WITH THE BEST CREATION FAILED TO MAKE THE PLAYOFFS WITH SEVEN OF THE EIGHT TEAMS WITH THE WORST CREATION MADE THE PLAYOFFS. MORE SHOT CREATION DOES NOT EQUAL POINTS EARNED.

THREE OF THE TOP FIVE TEAMS WITH THE BEST PENETRATION FAILED TO MAKE THE PLAYOFFS. MORE PENETRATION DOES NOT EQUAL MORE POINTS EARNED.

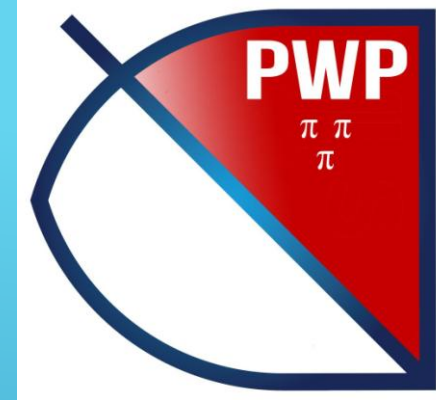
10 OF THE PLAYOFFS TEAMS FINISHED 11TH OR HIGHER IN THE TOTAL SOCCER INDEX.

THE LOWER CORRELATION TO POINTS EARNED, COMPARED TO EUROPEAN LEAGUES SEEMS TO INTUIT GREATER PARITY IS PRESENT IN MAJOR LEAGUE SOCCER AND THEREFORE, LESS PREDICTABILITY.

TOTAL SOCCER INDEX (MLS 2015)

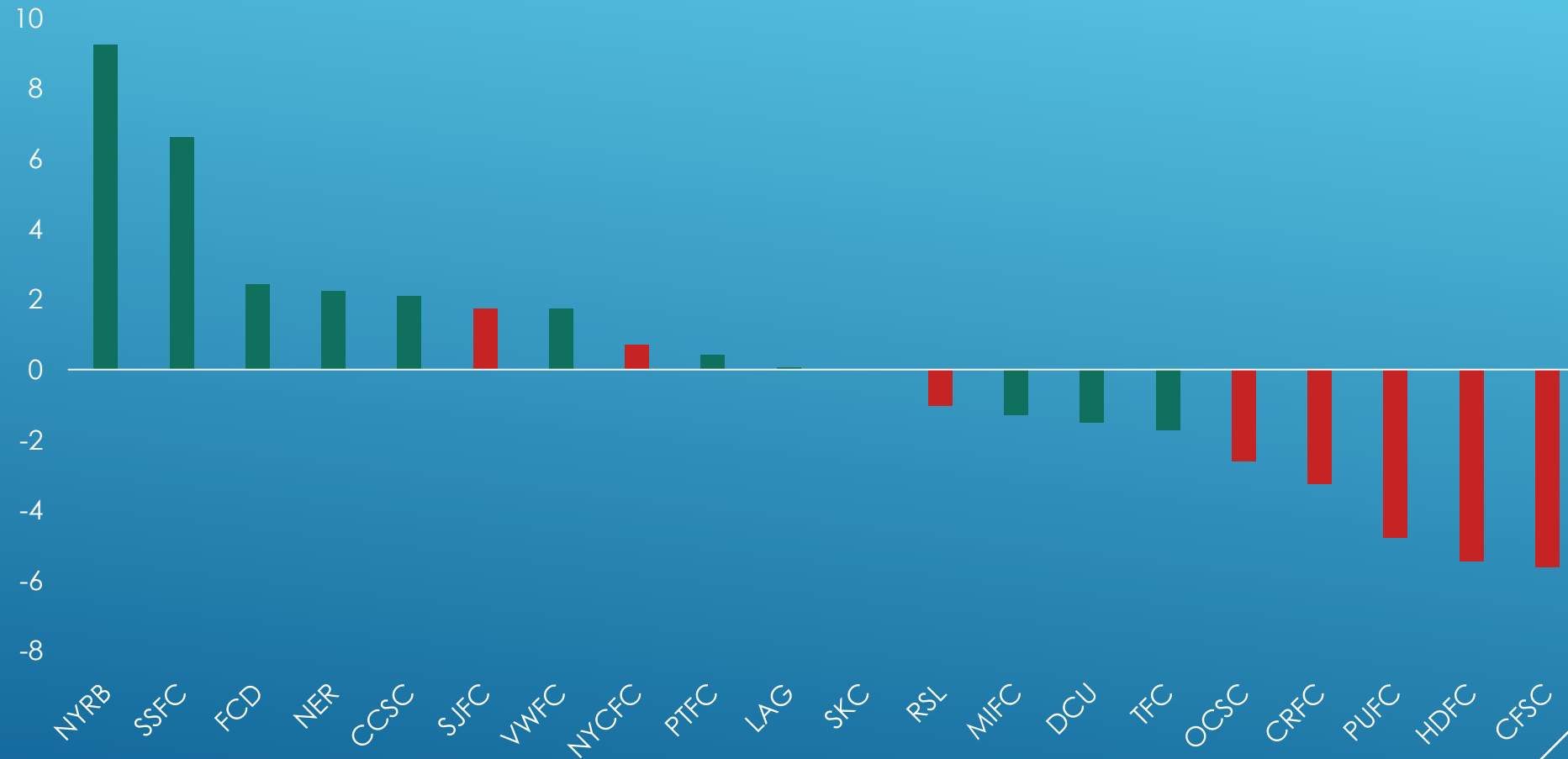


TEAMS MLS 2015	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
NYRB	56%	44%	77%	72%	30%	27%	14%	18%	38%	34%	39%	30%	9.24	60
FCD	48%	52%	75%	76%	23%	25%	19%	15%	37%	31%	32%	28%	2.43	60
PTFC	50%	50%	78%	77%	27%	27%	18%	15%	35%	36%	27%	28%	0.42	53
VWFC	47%	53%	75%	78%	24%	25%	19%	14%	38%	37%	29%	21%	1.75	53
CCSC	54%	46%	81%	78%	23%	26%	17%	17%	39%	41%	31%	32%	2.11	53
SSFC	53%	47%	79%	78%	20%	26%	14%	17%	42%	33%	33%	21%	6.61	51
SKC	50%	50%	74%	72%	25%	22%	18%	19%	35%	44%	32%	28%	-0.01	51
DCU	48%	52%	76%	78%	21%	27%	18%	16%	39%	39%	31%	27%	-1.51	51
LAG	51%	49%	78%	76%	24%	24%	15%	16%	38%	38%	29%	33%	0.07	51
NER	49%	51%	76%	77%	33%	23%	11%	17%	41%	36%	33%	34%	2.23	50
TFC	49%	51%	78%	77%	25%	24%	19%	17%	38%	42%	34%	36%	-1.74	49
MIFC	49%	51%	78%	79%	22%	26%	19%	16%	39%	38%	29%	30%	-1.30	48
SJFC	46%	54%	74%	78%	27%	25%	18%	15%	37%	36%	32%	21%	1.75	47
OCSC	51%	49%	81%	81%	21%	23%	15%	17%	35%	35%	31%	36%	-2.60	44
HDFC	48%	52%	75%	75%	25%	24%	17%	16%	35%	41%	28%	37%	-5.46	42
RSL	53%	47%	77%	74%	26%	28%	14%	19%	37%	35%	23%	30%	-1.04	41
NYCFC	53%	47%	78%	76%	24%	25%	16%	22%	36%	40%	33%	30%	0.71	40
PUFC	45%	55%	74%	80%	28%	24%	16%	14%	39%	35%	27%	35%	-4.79	37
CRFC	49%	51%	73%	74%	27%	24%	17%	18%	31%	36%	28%	31%	-3.24	37
CFSC	49%	51%	77%	77%	24%	24%	20%	17%	35%	39%	25%	38%	-5.62	30
Grand Total	50%	50%	77%	77%	25%	25%	17%	17%	37%	37%	30%	30%	0.00	948
r to points	0.24	-0.24	0.16	-0.20	0.00	0.34	-0.05	-0.20	0.41	-0.19	0.64	-0.47	0.76	



TOTAL SOCCER INDEX: MLS 2015

CORRELATION TO POINTS EARNED .76



TOTAL SOCCER INDEX (MLS 2015)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE TEAM WITH THE BEST PENETRATION and CREATION (CFSC) FAILED TO MAKE THE PLAYOFFS; THE TEAM WITH THE WORST PENETRATION and CREATION MADE THE PLAYOFFS – MORE PENETRATION AND SHOT CREATION DOES NOT EQUAL MORE POINTS EARNED.

ALL 12 OF THE PLAYOFFS TEAMS FINISHED 15TH OR HIGHER IN THE TOTAL SOCCER INDEX WITH THE TOP FIVE MAKING THE PLAYOFFS

THE LOWER CORRELATION OF TSI TO POINTS EARNED, COMPARED TO EUROPEAN LEAGUES, SEEMS TO INDICATE GREATER PARITY IN MAJOR LEAGUE SOCCER AND THEREFORE, LESS PREDICTABILITY.

TOTAL SOCCER INDEX (MLS 2016)

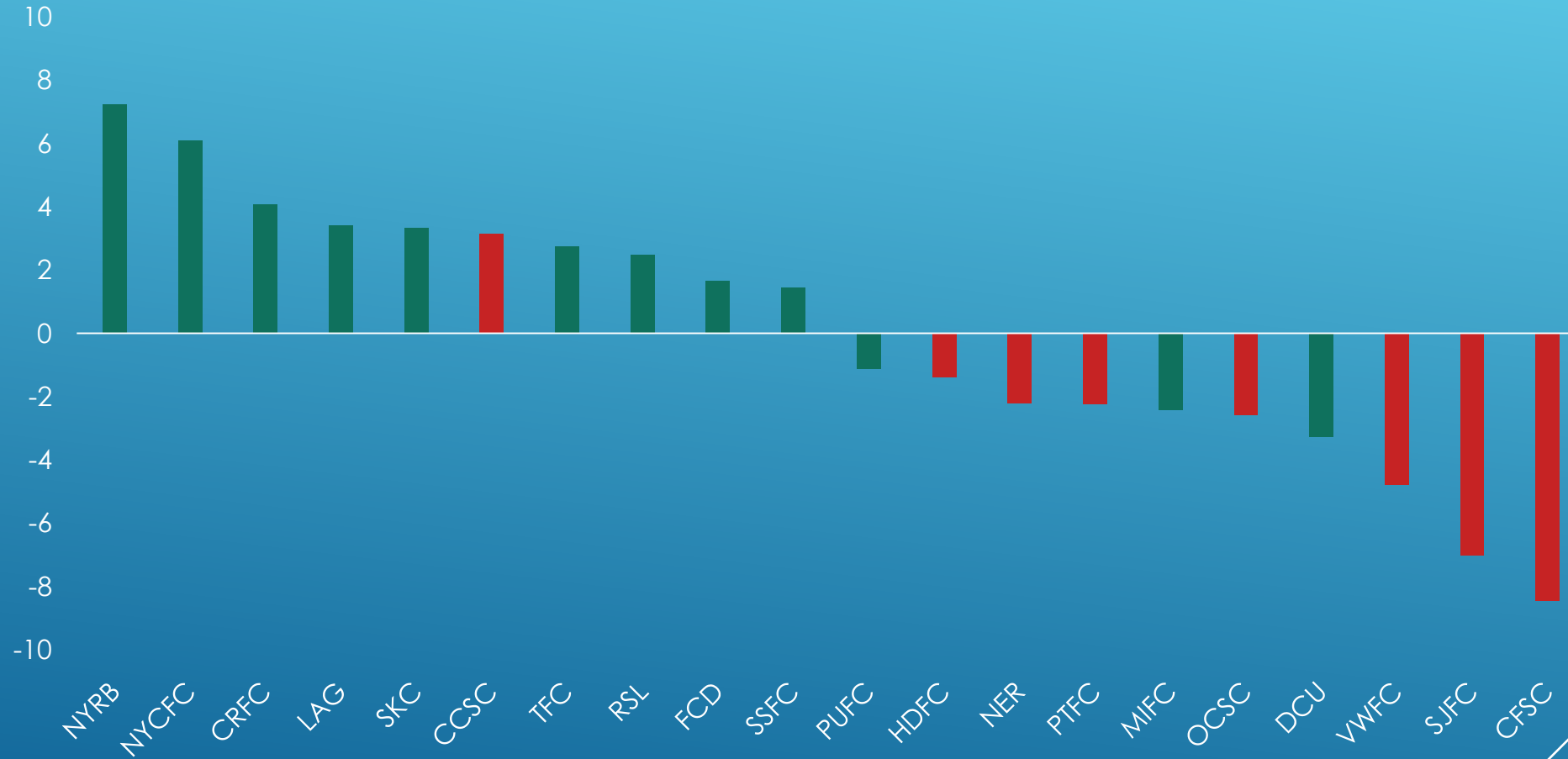


TEAMS MLS 2016	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
FCD	49%	51%	75%	75%	24%	23%	19%	14%	38%	34%	27%	30%	1.65	60
CRFC	50%	50%	77%	77%	23%	25%	18%	15%	35%	31%	32%	24%	4.07	59
NYRB	54%	46%	74%	70%	33%	26%	14%	19%	40%	38%	36%	31%	7.24	57
NYCFC	54%	46%	79%	74%	20%	24%	20%	21%	39%	34%	38%	33%	6.09	54
TFC	50%	50%	78%	77%	25%	24%	18%	15%	35%	36%	32%	27%	2.75	53
LAG	51%	49%	79%	79%	23%	27%	14%	17%	37%	34%	37%	25%	3.42	52
SSFC	53%	47%	80%	80%	23%	24%	15%	16%	35%	33%	29%	30%	1.44	48
SKC	55%	45%	77%	73%	26%	21%	17%	19%	31%	38%	33%	32%	3.32	47
RSL	54%	46%	77%	75%	27%	26%	14%	18%	36%	36%	31%	30%	2.48	46
DCU	46%	54%	72%	75%	27%	24%	19%	19%	34%	33%	30%	34%	-3.28	46
MIFC	46%	54%	77%	79%	22%	26%	20%	15%	38%	35%	32%	33%	-2.44	45
PTFC	48%	52%	77%	78%	26%	29%	17%	16%	35%	38%	35%	29%	-2.24	42
PUFC	49%	51%	76%	76%	26%	24%	17%	19%	40%	37%	31%	34%	-1.14	42
NER	49%	51%	77%	77%	30%	21%	15%	19%	34%	31%	27%	39%	-2.23	42
OCSC	52%	48%	79%	78%	23%	27%	16%	17%	33%	38%	35%	37%	-2.59	41
VWFC	47%	53%	76%	79%	23%	27%	20%	16%	39%	33%	25%	34%	-4.81	39
SJFC	50%	50%	77%	78%	27%	27%	15%	15%	32%	43%	24%	32%	-7.02	38
CCSC	55%	45%	82%	77%	24%	23%	15%	18%	37%	41%	32%	31%	3.15	36
HDFC	46%	54%	75%	79%	28%	22%	17%	18%	42%	39%	25%	24%	-1.39	34
CFSC	43%	57%	74%	80%	19%	27%	23%	15%	31%	36%	33%	33%	-8.47	31
Grand Total	50%	50%	77%	77%	25%	25%	17%	17%	36%	36%	31%	31%	0.00	912
r to points	0.40	-0.40	0.04	-0.55	0.06	-0.14	-0.10	0.01	0.19	-0.45	0.36	-0.34	0.74	



TOTAL SOCCER INDEX: MLS 2016

CORRELATION TO POINTS EARNED .74



TOTAL SOCCER INDEX (MLS 2016)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE TEAM WITH THE BEST CREATION (CFSC) DID NOT MAKE THE PLAYOFFS; THE TEAM WITH THE WORST CREATION (NYRB) DID; MORE CREATION DOES NOT EQUAL MORE POINTS EARNED.

TWO OF THE TOP THREE TEAMS WITH THE BEST PENETRATION DID NOT MAKE THE PLAYOFFS; TWO OF THE BOTTOM THREE TEAMS WITH THE WORST PENETRATION DID; MORE PENETRATION DOES NOT EQUAL MORE POINTS EARNED.

TEN OF THE TOP 11 TEAMS IN THE TOTAL SOCCER INDEX MADE THE PLAYOFFS.

THE LOWER CORRELATION OF TSI TO POINTS EARNED, COMPARED TO EUROPEAN LEAGUES, SEEMS TO INDICATE GREATER PARITY IN MAJOR LEAGUE SOCCER AND THEREFORE, LESS PREDICTABILITY.

TOTAL SOCCER INDEX (EPL 2014)

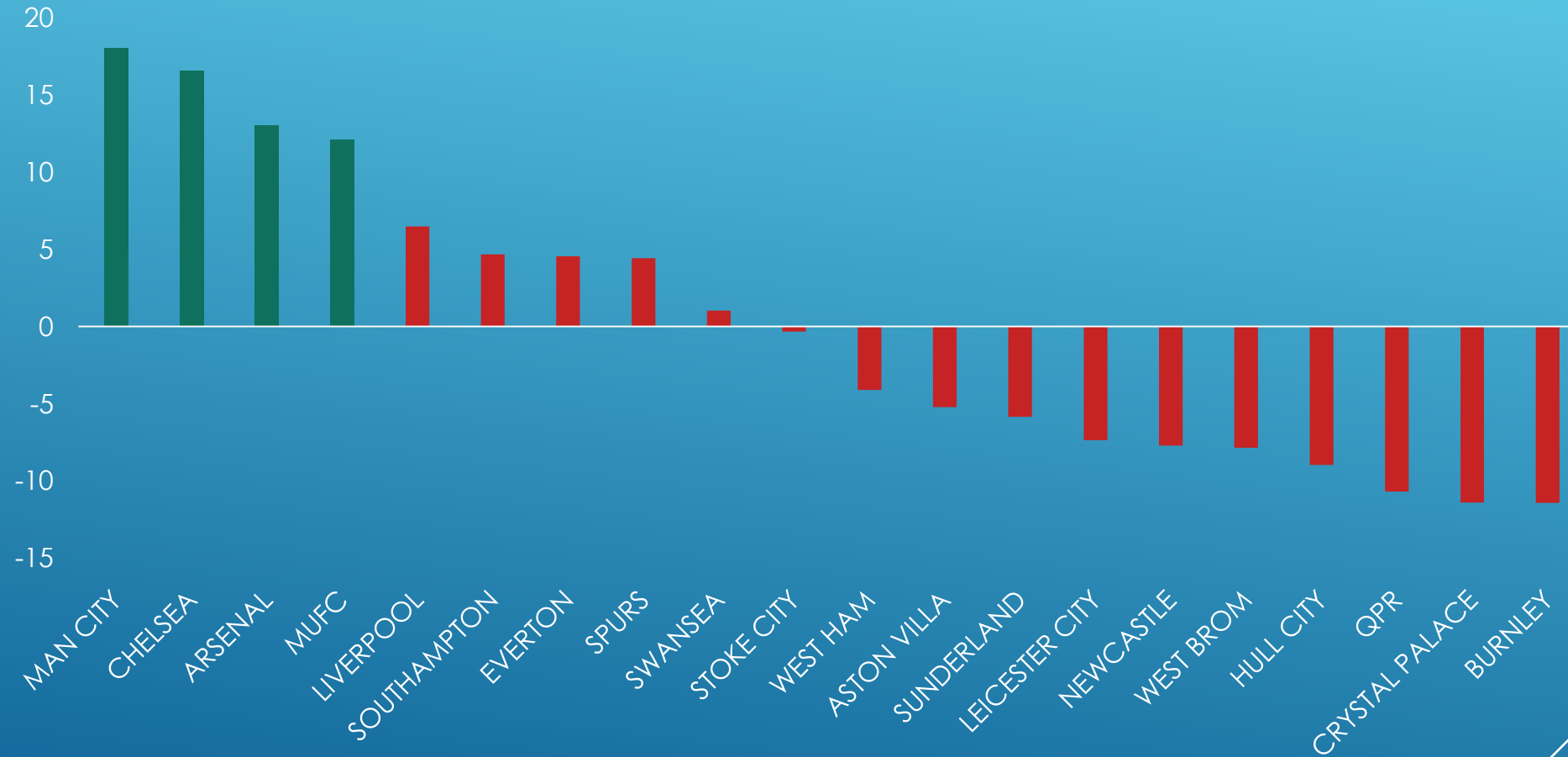


TEAMS EPL 2014	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
CHELSEA	56.30%	43.70%	82.61%	79.29%	31.65%	22.94%	10.78%	16.71%	37.19%	28.97%	41.96%	25.28%	16.57	87
MAN CITY	60.20%	39.80%	84.26%	76.79%	31.73%	23.29%	11.75%	15.28%	34.30%	35.36%	40.58%	24.75%	18.07	76
ARSENAL	57.07%	42.93%	83.09%	76.55%	31.33%	23.81%	11.83%	15.41%	37.95%	33.95%	33.70%	27.94%	13.07	75
MUFC	61.66%	38.34%	84.65%	74.02%	25.17%	24.27%	11.66%	16.58%	36.05%	37.97%	35.99%	32.17%	12.10	70
SPURS	57.67%	42.33%	80.88%	75.36%	24.08%	26.69%	14.19%	18.62%	33.79%	35.52%	32.06%	32.50%	4.43	64
LIVERPOOL	56.37%	43.63%	82.59%	75.87%	23.79%	26.60%	15.84%	14.84%	34.31%	34.28%	29.68%	30.29%	6.49	62
SOUTHAMPTON	53.14%	46.86%	79.69%	76.75%	25.26%	25.62%	14.47%	12.91%	33.45%	29.53%	31.10%	33.16%	4.67	60
SWANSEA	50.29%	49.71%	82.06%	80.33%	17.34%	27.44%	18.27%	14.75%	34.94%	33.80%	31.35%	25.48%	1.03	56
STOKE CITY	50.20%	49.80%	77.38%	76.58%	24.28%	26.72%	18.25%	15.22%	28.57%	32.61%	35.83%	34.43%	-0.33	54
WEST HAM	45.01%	54.99%	74.59%	77.04%	27.77%	27.29%	17.71%	17.75%	31.05%	31.54%	27.72%	26.07%	-4.12	50
CRYSTAL PALACE	39.47%	60.53%	69.48%	79.35%	30.21%	24.78%	18.46%	17.65%	33.04%	30.00%	29.89%	38.24%	-11.40	48
EVERTON	54.84%	45.16%	83.56%	78.10%	26.51%	30.02%	12.36%	14.71%	35.11%	24.92%	30.87%	38.38%	4.55	47
WEST BROM	43.42%	56.58%	74.49%	80.82%	26.56%	27.67%	15.13%	13.98%	31.67%	33.43%	26.62%	26.09%	-7.86	44
LEICESTER CITY	42.74%	57.26%	71.13%	78.29%	30.29%	26.71%	19.31%	16.11%	30.22%	33.29%	32.61%	34.03%	-7.36	41
SUNDERLAND	44.87%	55.13%	76.33%	80.99%	24.15%	33.59%	16.11%	13.74%	33.84%	30.76%	28.08%	24.58%	-5.86	39
NEWCASTLE	47.27%	52.73%	76.69%	78.19%	25.76%	24.54%	16.40%	15.03%	30.55%	37.87%	28.98%	37.61%	-7.72	39
ASTON VILLA	48.91%	51.09%	78.29%	79.07%	24.07%	25.89%	14.01%	14.28%	30.82%	35.61%	27.00%	30.90%	-5.22	38
HULL CITY	43.87%	56.13%	76.50%	81.45%	22.94%	24.77%	17.15%	13.69%	31.44%	31.85%	26.94%	34.53%	-8.97	35
QPR	44.70%	55.30%	71.03%	76.12%	27.60%	28.82%	20.62%	18.30%	28.38%	34.76%	28.80%	35.98%	-10.70	33
BURNLEY	42.03%	57.97%	70.33%	78.67%	26.73%	25.76%	17.61%	16.36%	30.80%	31.46%	21.80%	29.17%	-11.44	33
Grand Total	50.00%	50.00%	77.98%	77.98%	26.36%	26.36%	15.59%	15.59%	32.87%	32.87%	31.08%	31.08%	0.00	1051
R TO POINTS	0.82	-0.82	0.75	-0.44	0.32	-0.51	-0.71	0.13	0.76	0.04	0.84	-0.39	0.94	



TOTAL SOCCER INDEX: EPL 2014

CORRELATION TO POINTS EARNED .94



TOTAL SOCCER INDEX (EPL 2014)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE EPL SHOWED THE HIGHEST CORRELATION OF TSI TO POINTS EARNED.

THE FOUR WORST TEAMS IN CREATION WERE THE TOP FOUR TEAMS IN THE LEAGUE; CREATING SHOTS HAD A VERY HIGH INVERSE RELATIONSHIP TO EARNING POINTS.

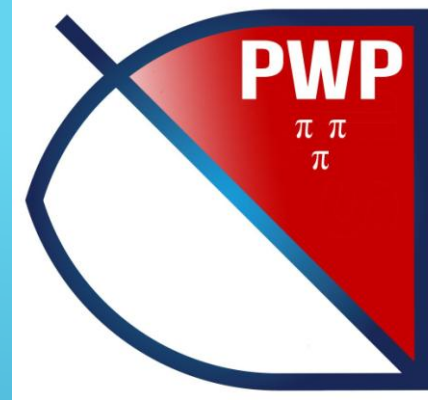
THREE OF THE TOP FOUR TEAMS IN THE LEAGUE TABLE HAD THE HIGHEST PERCENTAGE OF PENETRATION IN THE LEAGUE.

THE TOP FOUR TEAMS IN POSSESSION PERCENTAGE WERE ALSO THE TOP FOUR TEAMS IN THE LEAGUE.

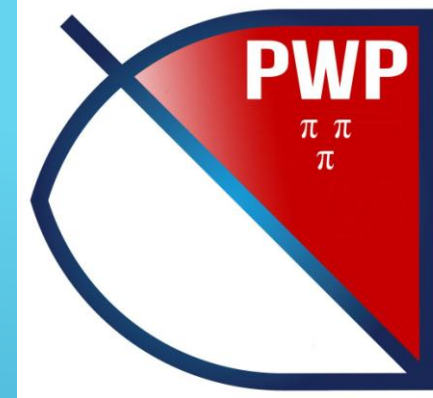
THE TOP FOUR TEAMS IN TSI WERE THE TOP FOUR TEAMS IN THE LEAGUE.

THE HIGHER CORRELATION TO POINTS EARNED SEEMS TO INTUIT LESS PARITY IN THE ENGLISH PREMIER LEAGUE – AND THEREFORE GREATER PREDICTABILITY.

TOTAL SOCCER INDEX (BL 2014)

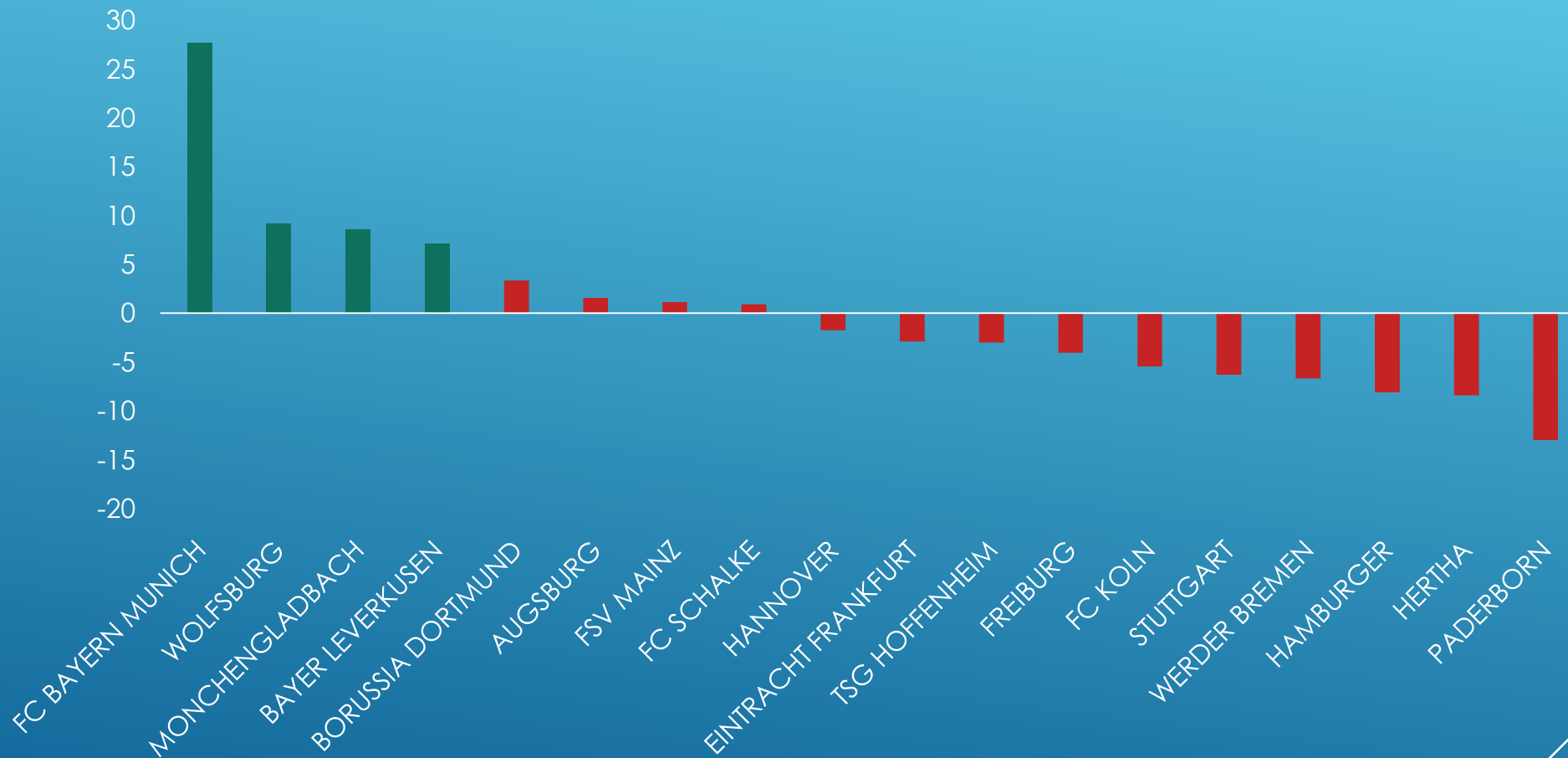


	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
BL 2014														
FC BAYERN MUNICH	71.07%	28.93%	87.02%	68.94%	23.26%	21.31%	12.33%	18.63%	39.37%	33.76%	34.40%	14.56%	27.65	79.00
WOLFSBURG	54.98%	45.02%	80.90%	72.86%	19.49%	21.93%	20.01%	19.50%	39.17%	37.07%	38.60%	28.83%	9.22	68.00
MONCHENGLADBACH	53.70%	46.30%	81.76%	79.41%	19.70%	25.06%	14.89%	17.50%	40.51%	29.14%	29.40%	17.30%	8.59	66.00
BAYER LEVERKUSEN	52.40%	47.60%	69.28%	66.46%	32.63%	19.56%	17.64%	18.43%	34.18%	39.46%	35.27%	28.81%	7.17	61.00
AUGSBURG	52.29%	47.71%	74.16%	71.33%	20.30%	26.11%	21.98%	19.09%	32.37%	35.26%	28.41%	25.39%	1.57	49.00
FC SCHALKE	51.38%	48.62%	76.12%	76.06%	22.38%	23.48%	16.59%	21.07%	37.81%	32.72%	25.25%	24.78%	0.93	47.00
BORUSSIA DORTMUND	55.56%	44.44%	77.06%	70.53%	24.71%	18.93%	17.92%	16.17%	33.52%	35.82%	21.50%	34.52%	3.35	46.00
TSG HOFFENHEIM	48.96%	51.04%	71.91%	72.13%	25.54%	23.62%	20.27%	19.60%	33.02%	35.27%	28.64%	35.51%	-3.00	44.00
EINTRACHT FRANKFURT	49.33%	50.67%	72.45%	73.51%	22.47%	23.04%	18.93%	18.53%	37.03%	46.40%	33.76%	30.34%	-2.90	43.00
WERDER BREMEN	43.04%	56.96%	66.19%	75.44%	26.77%	25.60%	20.23%	18.18%	41.43%	32.77%	29.78%	38.70%	-6.67	40.00
FC KOLN	42.50%	57.50%	72.83%	79.61%	18.61%	21.64%	21.01%	15.34%	35.33%	36.46%	25.20%	20.93%	-5.44	40.00
FSV MAINZ	48.90%	51.10%	73.52%	73.33%	21.28%	23.18%	19.78%	20.04%	38.07%	34.74%	32.76%	28.17%	1.13	40.00
HANNOVER	50.89%	49.11%	73.65%	71.58%	22.04%	25.03%	17.26%	19.69%	36.55%	35.06%	30.59%	35.63%	-1.74	37.00
STUTTART	47.04%	52.96%	73.52%	75.75%	21.47%	22.02%	19.98%	19.21%	31.11%	35.81%	28.46%	34.36%	-6.31	36.00
HERTHA	40.02%	59.98%	68.28%	78.16%	24.96%	21.69%	15.31%	15.17%	35.30%	35.49%	31.67%	29.80%	-8.42	35.00
HAMBURGER	46.74%	53.26%	68.85%	72.77%	20.36%	24.00%	21.50%	20.34%	29.87%	37.62%	20.01%	23.89%	-8.11	35.00
FREIBURG	48.05%	51.95%	73.18%	75.77%	23.56%	22.78%	16.56%	21.26%	41.00%	38.34%	22.26%	26.37%	-4.04	34.00
PADERBORN	43.04%	56.96%	70.81%	77.99%	22.44%	23.14%	23.81%	18.26%	31.34%	35.12%	18.86%	36.98%	-12.97	31.00
Grand Total	50.00%	50.00%	73.98%	73.98%	22.89%	22.89%	18.66%	18.66%	35.94%	35.91%	28.60%	28.60%	0.00	831.00
R TO POINTS	0.83	-0.83	0.77	-0.42	0.06	-0.21	-0.52	-0.03	0.39	-0.20	0.60	-0.58	0.93	



TOTAL SOCCER INDEX: BL 2014

CORRELATION TO POINTS EARNED .93



TOTAL SOCCER INDEX (BL 2014)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE BUNDESLIGA SHOWED THE 2ND HIGHEST CORRELATION OF TSI TO POINTS EARNED.

TWO TEAMS WITH THE LOWEST PERCENTAGE OF CREATION FINISHED 1ST AND 3RD IN THE LEAGUE TABLE; BAYERN MUNICH, WHO WON THE LEAGUE WAS WORST. LIKE THE EPL, CREATING SHOTS ACTUALLY HAD AN INVERSE RELATIONSHIP TO EARNING POINTS.

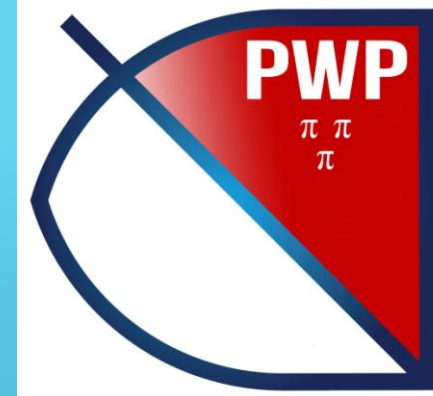
TWO OF THE WORST TEAMS IN PENETRATION FINISHED IN THE TOP FOUR OF THE BUNDESLIGA.

FOUR OF THE TOP FIVE TEAMS IN POSSESSION FINISHED IN THE TOP FOUR OF THE LEAGUE TABLE; LIKE THE EPL THOSE WHO POSSESSED THE BALL EARNED POINTS.

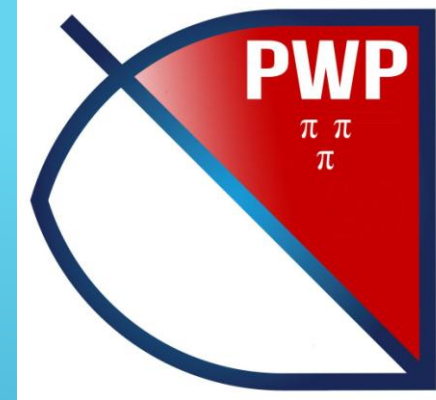
THE TOP FOUR TEAMS IN TSI WERE THE TOP FOUR TEAMS IN THE LEAGUE TABLE.

THE HIGHER CORRELATION TO POINTS EARNED SEEMS TO INTUIT LESS PARITY IN THE BUNDESLIGA LEAGUE – AND THEREFORE GREATER PREDICTABILITY.

TOTAL SOCCER INDEX (LA LIGA 2014)

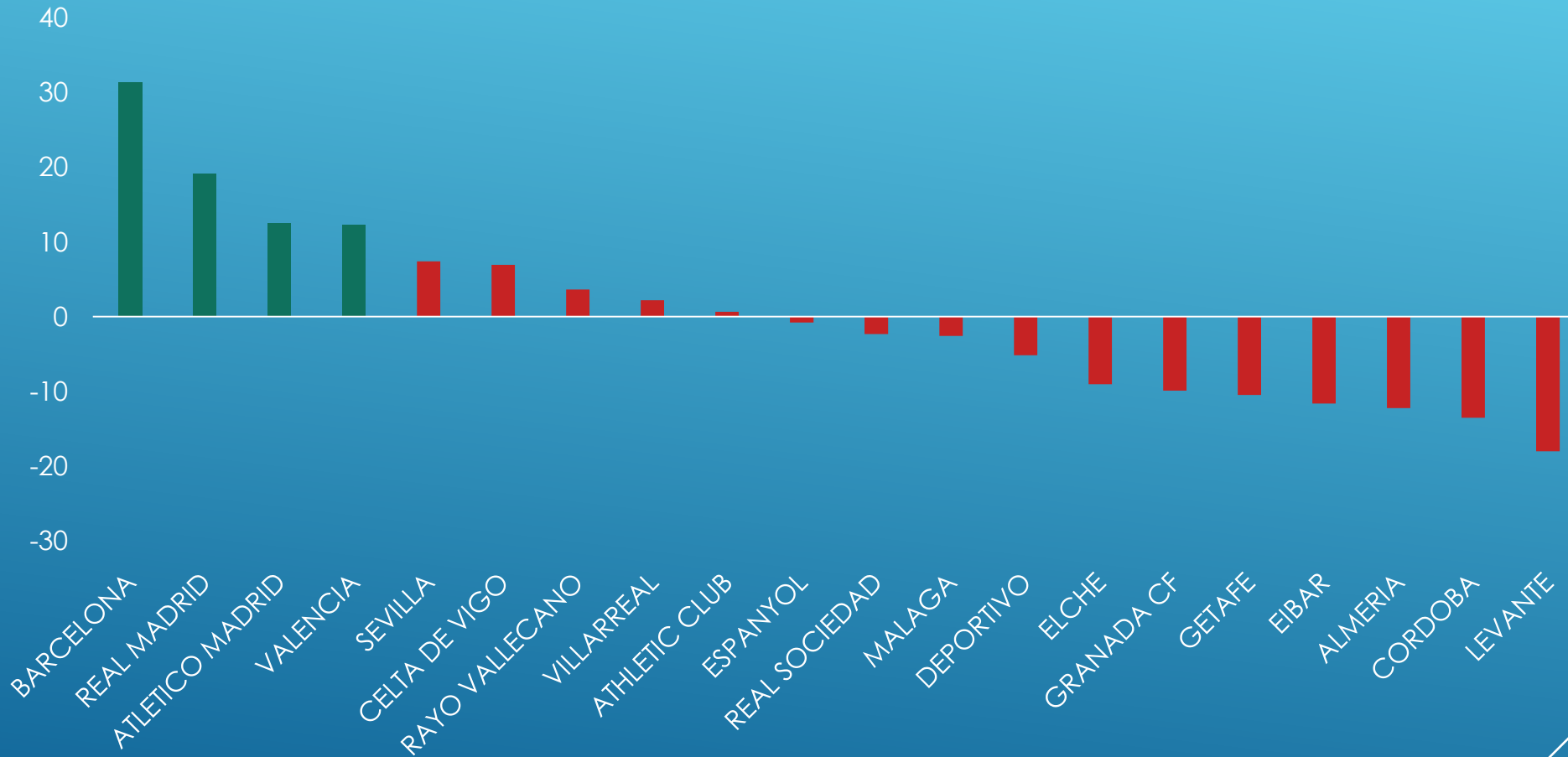


LA LIGA 2014	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISH	Average of OPPONENT FINISH	Sum of TOTAL SOCCER INDEX	Sum of POINTS
BARCELONA	70.83%	29.17%	88.80%	71.88%	29.94%	25.80%	10.08%	17.33%	41.99%	31.86%	37.22%	20.39%	31.32	94.00
REAL MADRID	58.43%	41.57%	86.32%	79.94%	25.12%	23.87%	16.52%	17.43%	41.38%	29.05%	40.46%	26.08%	19.11	92.00
ATLETICO MADRID	49.21%	50.79%	75.25%	75.98%	29.86%	22.32%	13.30%	12.77%	43.32%	30.23%	38.55%	24.59%	12.46	78.00
VALENCIA	50.41%	49.59%	78.65%	75.29%	24.60%	23.77%	16.65%	16.44%	36.55%	30.28%	45.89%	25.07%	12.28	77.00
SEVILLA	50.52%	49.48%	75.69%	76.81%	25.57%	25.65%	16.31%	17.34%	41.96%	31.35%	38.13%	28.10%	7.39	76.00
CELTA DE VIGO	57.88%	42.12%	79.27%	70.85%	24.11%	25.57%	14.25%	17.90%	35.43%	34.84%	30.28%	31.76%	6.91	51.00
RAYO VALLECANO	57.89%	42.11%	78.40%	69.38%	19.32%	25.73%	19.18%	22.36%	34.61%	37.95%	28.09%	30.45%	3.61	49.00
VILLARREAL	48.58%	51.42%	75.25%	76.84%	26.83%	26.72%	16.84%	15.20%	35.50%	30.79%	25.41%	21.70%	2.18	60.00
ATHLETIC CLUB	51.56%	48.44%	72.84%	71.07%	24.15%	21.85%	15.87%	16.36%	33.99%	38.48%	28.02%	28.57%	0.62	55.00
ESPANYOL	44.77%	55.23%	71.82%	76.26%	26.53%	23.25%	15.40%	16.78%	37.44%	37.63%	36.98%	25.91%	-0.80	49.00
REAL SOCIEDAD	50.64%	49.36%	74.82%	76.41%	28.42%	26.11%	13.97%	18.26%	32.63%	34.86%	30.07%	31.72%	-2.34	46.00
MALAGA	48.97%	51.03%	73.81%	74.56%	29.15%	25.68%	16.18%	15.15%	34.99%	38.36%	27.13%	32.30%	-2.60	50.00
DEPORTIVO	47.82%	52.18%	74.79%	76.23%	24.90%	24.53%	14.89%	15.90%	33.79%	40.06%	29.22%	30.17%	-5.19	35.00
ELCHE	47.60%	52.40%	74.49%	77.75%	21.64%	24.99%	18.34%	16.04%	30.72%	38.34%	26.33%	33.43%	-9.06	41.00
GRANADA CF	45.20%	54.80%	73.26%	76.09%	21.73%	25.84%	21.50%	14.25%	31.65%	34.91%	22.46%	36.02%	-9.93	35.00
GETAFE	45.94%	54.06%	74.33%	78.00%	23.92%	24.35%	17.13%	16.75%	36.40%	34.54%	20.29%	37.90%	-10.48	37.00
EIBAR	41.96%	58.04%	68.18%	76.08%	22.83%	27.95%	19.24%	15.09%	35.36%	35.59%	27.77%	33.23%	-11.65	35.00
ALMERIA	43.39%	56.61%	70.07%	77.18%	27.00%	25.25%	18.44%	19.24%	30.47%	39.98%	30.07%	33.46%	-12.25	32.00
CORDOBA	46.20%	53.80%	75.49%	77.51%	22.02%	28.35%	17.27%	14.78%	31.98%	36.57%	19.26%	36.83%	-13.54	20.00
LEVANTE	42.21%	57.79%	70.84%	78.31%	23.73%	23.79%	19.87%	15.85%	24.17%	38.62%	21.32%	35.25%	-18.04	37.00
Grand Total	50.00%	50.00%	75.62%	75.62%	25.07%	25.07%	16.56%	16.56%	35.21%	35.21%	30.15%	30.15%	0.00	1049.00
R TO POINTS	0.70	-0.70	0.74	-0.14	0.49	-0.36	-0.58	0.05	0.78	-0.77	0.81	-0.83	0.94	



TOTAL SOCCER INDEX: LL 2014

CORRELATION TO POINTS EARNED .94



TOTAL SOCCER INDEX (LA LIGA 2014)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

LA LIGA TIED WITH THE EPL IN SHOWING THE HIGHEST CORRELATION OF TSI TO POINTS EARNED.

TWO OF THE TOP FOUR TEAMS IN THE LEAGUE FINISHED WITH THE WORST CREATION PERCENTAGES, AND NONE OF THE TOP FOUR FINISHERS WERE HIGHER THAN 9TH.

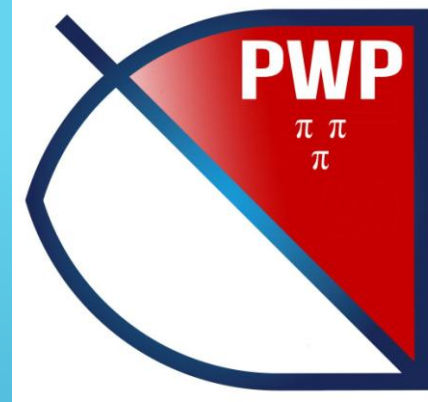
THE TOP TWO TEAMS IN PENETRATION WERE ALSO THE BOTTOM TWO TEAMS IN CREATION; BARCELONA FINISHED 1ST IN PENETRATION AND WORST IN CREATION.

THE TOP TWO TEAMS IN THE LEAGUE TABLE WERE THE TOP TWO TEAMS IN POSSESSION; THOSE WHO POSSESSED THE BALL EARNED MORE POINTS.

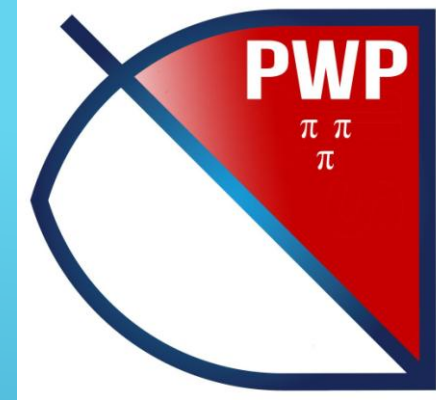
THE TOP FOUR TEAMS IN TSI WERE THE TOP FOUR TEAMS IN THE LEAGUE.

THE HIGHER CORRELATION TO POINTS EARNED SEEMS TO INTUIT LESS PARITY IN THE LA LIGA – AND THEREFORE GREATER PREDICTABILITY.

TOTAL SOCCER INDEX (UEFA CL 2014)

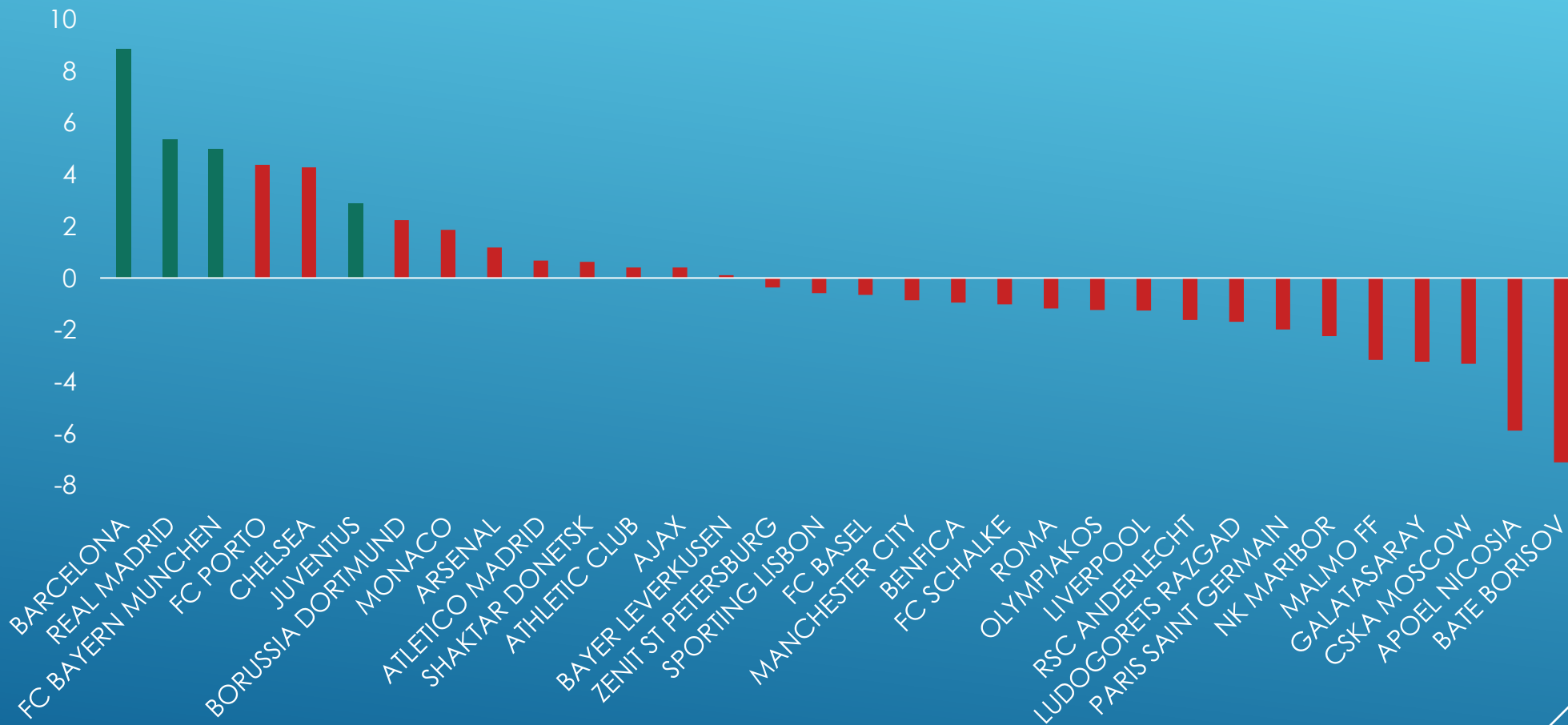


	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
UEFA 2016														
FC BAYERN MUNCHEN	64.68%	35.32%	87.60%	77.17%	27.32%	18.87%	10.26%	14.35%	39.01%	44.04%	31.06%	28.54%	5.00	22
BARCELONA	61.48%	38.52%	87.83%	81.04%	25.78%	20.99%	10.31%	13.89%	45.80%	29.63%	43.65%	22.50%	8.87	30
REAL MADRID	57.58%	42.42%	88.38%	84.61%	27.34%	23.06%	13.43%	13.77%	40.62%	37.67%	28.22%	9.46%	5.35	25
ARSENAL	57.43%	42.57%	84.66%	81.44%	24.12%	24.66%	11.37%	15.22%	34.86%	54.87%	45.86%	24.76%	1.18	17
FC PORTO	56.81%	43.19%	81.37%	74.04%	20.03%	19.57%	15.16%	12.93%	44.14%	43.76%	51.64%	31.83%	4.38	21
ZENIT ST PETERSBURG	55.43%	44.57%	78.06%	75.00%	20.73%	27.11%	13.92%	14.14%	27.14%	32.08%	16.67%	25.00%	-0.36	7
JUVENTUS	55.23%	44.77%	86.06%	79.05%	23.66%	28.34%	13.42%	13.58%	38.37%	31.11%	20.61%	18.40%	2.87	23
CHELSEA	54.22%	45.78%	86.13%	84.46%	25.28%	21.28%	12.50%	15.34%	51.59%	34.68%	43.47%	18.13%	4.28	16
BORUSSIA DORTMUND	53.59%	46.41%	83.28%	80.23%	27.72%	17.50%	12.97%	13.42%	41.64%	30.39%	23.89%	27.08%	2.24	13
BAYER LEVERKUSEN	53.03%	46.97%	71.73%	67.23%	31.33%	23.95%	14.74%	15.07%	33.43%	23.12%	18.33%	44.79%	0.12	13
AJAX	52.81%	47.19%	86.78%	84.50%	21.69%	20.17%	10.99%	14.44%	24.87%	31.15%	44.44%	37.26%	0.41	5
FC SCHALKE	51.59%	48.41%	83.89%	82.95%	23.22%	22.32%	14.92%	16.34%	34.80%	42.90%	30.42%	38.61%	-1.02	11
GALATASARAY	51.33%	48.67%	85.08%	84.33%	24.35%	23.06%	13.96%	16.28%	26.89%	47.71%	10.32%	45.65%	-3.23	1
ATHLETIC CLUB	51.03%	48.97%	73.53%	72.08%	22.80%	20.90%	17.56%	16.93%	25.53%	23.82%	20.60%	21.43%	0.41	7
LIVERPOOL	50.25%	49.75%	84.55%	84.00%	22.67%	22.37%	13.31%	17.83%	31.11%	32.12%	16.43%	33.16%	-1.25	5
BENFICA	49.99%	50.01%	76.64%	76.34%	20.82%	28.27%	17.27%	18.48%	24.81%	32.73%	16.67%	16.11%	-0.95	5
SPORTING LISBON	48.67%	51.33%	80.19%	79.70%	29.99%	21.88%	16.73%	17.00%	36.30%	38.46%	32.64%	45.71%	-0.57	7
PARIS SAINT GERMAIN	48.58%	51.42%	87.35%	87.09%	18.37%	26.12%	14.41%	6.65%	37.76%	38.48%	31.17%	47.67%	-1.98	15
MANCHESTER CITY	48.01%	51.99%	84.33%	85.14%	27.88%	21.19%	10.27%	13.50%	33.39%	42.01%	31.46%	32.18%	-0.85	8
ROMA	47.22%	52.78%	83.70%	85.08%	17.22%	30.44%	16.41%	12.85%	46.37%	32.11%	22.31%	39.53%	-1.17	5
LUDOGORETS RAZGAD	46.98%	53.02%	81.88%	85.51%	21.37%	23.41%	16.65%	17.83%	33.82%	39.06%	22.92%	32.94%	-1.69	4
OLYMPIAKOS	46.46%	53.54%	81.61%	82.90%	18.64%	25.36%	18.15%	17.14%	44.15%	33.07%	28.89%	46.35%	-1.23	9
SHAKTAR DONETSK	46.11%	53.89%	77.85%	80.82%	21.53%	24.94%	11.26%	14.02%	46.93%	33.49%	26.18%	14.86%	0.63	10
FC BASEL	44.69%	55.31%	80.94%	84.34%	18.12%	23.79%	17.12%	13.48%	44.61%	42.08%	27.77%	22.37%	-0.65	8
ATLETICO MADRID	43.70%	56.30%	74.42%	82.09%	34.02%	23.64%	12.72%	12.06%	30.93%	33.33%	30.39%	11.94%	0.68	17
MONACO	42.55%	57.45%	75.23%	80.34%	24.87%	25.58%	12.38%	12.10%	42.15%	26.60%	30.95%	7.36%	1.87	15
MALMO FF	41.24%	58.76%	76.87%	84.66%	24.09%	32.93%	17.83%	14.87%	33.04%	42.81%	21.43%	33.12%	-3.16	3
NK MARIBOR	41.12%	58.88%	78.37%	84.33%	18.73%	28.28%	20.66%	17.89%	31.59%	35.38%	23.61%	26.73%	-2.25	3
RSC ANDERLECHT	40.12%	59.88%	80.59%	86.29%	21.98%	27.23%	17.88%	12.55%	34.55%	35.53%	28.98%	29.63%	-1.62	6
BATE BORISOV	35.00%	65.00%	68.46%	84.18%	18.96%	22.71%	19.03%	16.66%	20.47%	44.70%	4.76%	52.16%	-7.12	3
CSKA MOSCOW	34.25%	65.75%	77.49%	87.68%	24.33%	25.78%	17.00%	9.14%	26.71%	42.83%	29.72%	33.56%	-3.31	5
APOEL NICOSIA	29.78%	70.22%	76.23%	91.35%	21.11%	25.31%	10.15%	9.70%	21.36%	36.73%	8.33%	31.90%	-5.89	1
Grand Total	50.00%	50.00%	81.59%	81.59%	23.85%	23.85%	14.10%	14.10%	36.41%	36.41%	28.24%	28.24%	0.00	340
R TO POINTS	0.68	-0.68	0.44	-0.32	0.39	-0.33	-0.48	-0.24	0.58	-0.08	0.57	-0.44	0.88	



TOTAL SOCCER INDEX: UEFA CL 2014

CORRELATION TO POINTS EARNED .88



TOTAL SOCCER INDEX (UEFA CL 2014)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THREE OF THE TOP SIX TEAMS IN THE TSI FINISHED IN TOP FOUR WITH THE 1ST AND 2ND PLACE WINNERS FINISH 1ST AND 2ND RESPECTIVELY IN THE TSI.

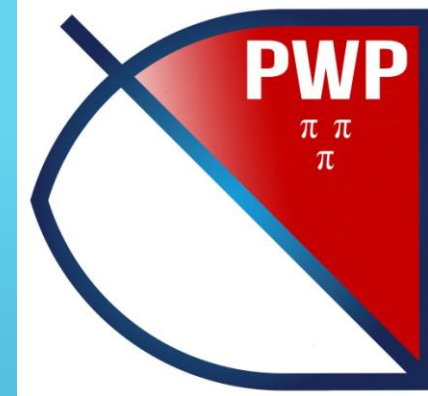
LIKE MLS TEAMS WHO CREATE A LOT OF CHANCES DO NOT EARN THE MOST POINTS – TWO OF THE WORST TEAMS IN CREATING CHANCES WERE BARCELONA (WINNER) AND BAYERN MUNICHEN; REAL MADRID AND JUVENTUS FINISHED 19TH AND 20TH IN THIS CATEGORY.

THE TWO TEAMS WITH THE HIGHEST PERCENTAGE OF CREATION FINISHED ON THREE POINTS EACH – NK MARIBOR AND BATE BORISOV.

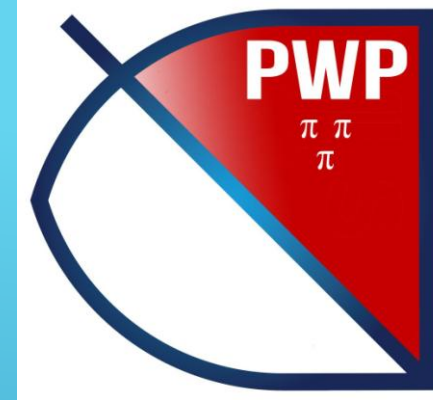
UNLIKE MLS THE TOP FOUR TEAMS IN UEFA CL WERE IN THE TOP SEVEN FOR TOTAL POSSESSION.

LOWER CORRELATION TO POINTS EARNED SHOULD INDICATE SLIGHTLY MORE PARITY AND LESS PREDICTABILITY.

TOTAL SOCCER INDEX (MENS WC 2014)

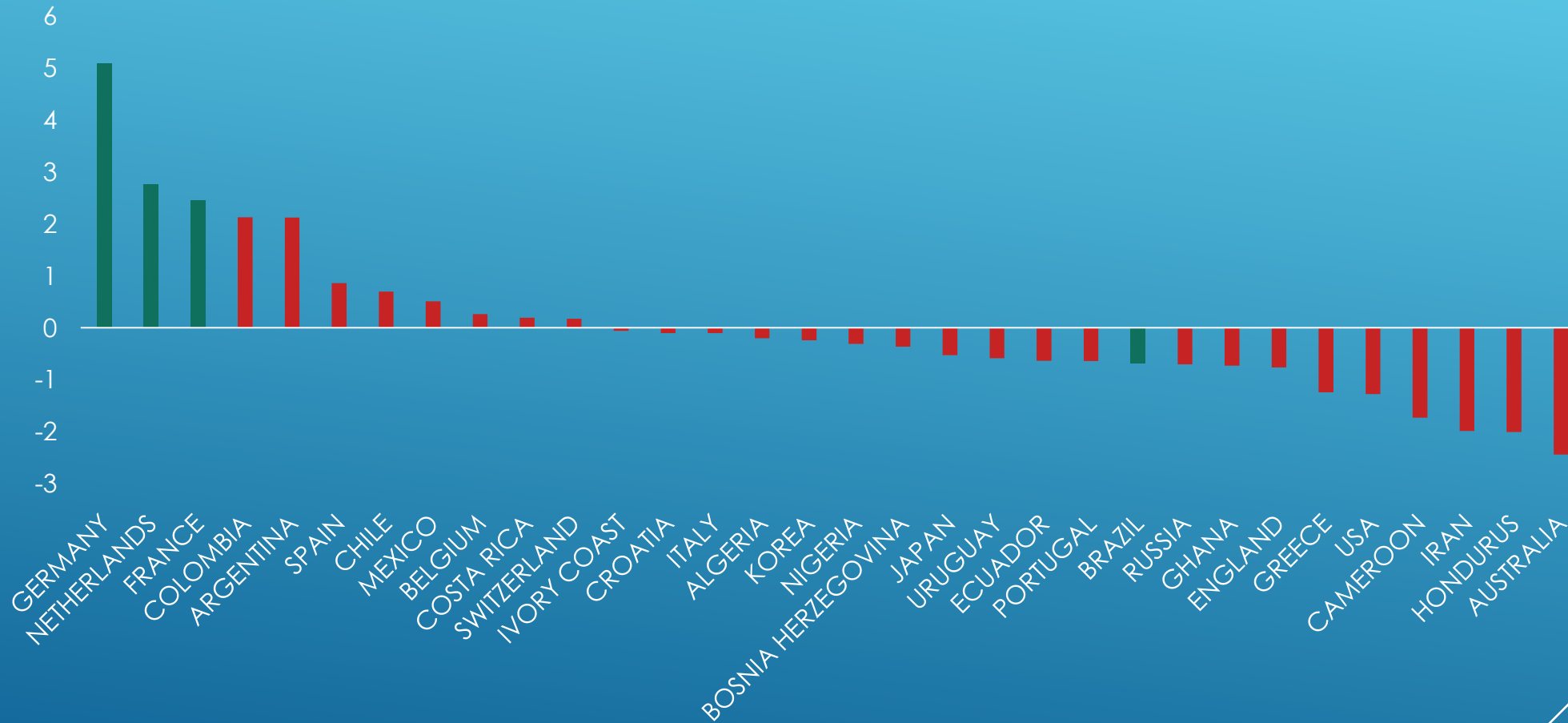


	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATING	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISH	Average of OPPONENT FINISH	Sum of TOTAL SOCCER INDEX	Sum of POINTS
WC 2014														
GERMANY	60.56%	39.44%	85.57%	79.57%	25.64%	20.19%	10.71%	19.76%	47.20%	26.46%	38.71%	10.12%	5.10	19.00
NETHERLANDS	48.28%	51.72%	81.00%	81.14%	20.10%	17.46%	20.89%	14.39%	43.08%	32.48%	36.90%	13.57%	2.77	18.00
ARGENTINA	56.11%	43.89%	84.29%	79.86%	20.67%	24.28%	17.55%	18.57%	29.36%	28.71%	30.08%	12.38%	2.13	18.00
BRAZIL	53.28%	46.72%	82.27%	77.82%	24.79%	25.54%	19.86%	17.35%	38.68%	29.43%	22.22%	54.05%	-0.69	13.00
COLOMBIA	46.65%	53.35%	78.40%	81.00%	26.39%	28.21%	16.60%	18.56%	43.26%	26.78%	56.67%	17.52%	2.13	12.00
BELGIUM	52.48%	47.52%	81.80%	80.20%	27.39%	21.65%	18.74%	16.71%	30.13%	26.55%	21.35%	34.00%	0.26	12.00
COSTA RICA	39.99%	60.01%	76.20%	83.80%	15.62%	18.30%	21.15%	16.84%	31.44%	31.40%	39.00%	9.17%	0.19	10.00
FRANCE	56.54%	43.46%	84.00%	78.00%	27.57%	18.39%	18.32%	24.84%	39.87%	24.15%	28.33%	16.67%	2.46	10.00
MEXICO	50.00%	50.00%	79.75%	83.25%	22.52%	22.52%	16.25%	17.86%	36.55%	27.83%	30.00%	20.83%	0.51	7.00
CHILE	56.17%	43.83%	79.25%	75.25%	21.23%	23.15%	12.92%	27.71%	31.97%	31.28%	40.00%	22.92%	0.70	6.00
SWITZERLAND	49.16%	50.84%	82.25%	82.00%	23.68%	25.58%	21.26%	20.27%	37.00%	38.87%	28.33%	19.79%	0.17	6.00
URUGUAY	46.13%	53.87%	74.00%	81.25%	29.14%	17.46%	16.31%	20.66%	29.76%	39.64%	38.33%	35.42%	-0.58	6.00
PORTUGAL	50.97%	49.03%	85.00%	84.33%	24.65%	23.34%	18.61%	18.93%	34.33%	34.34%	19.05%	43.89%	-0.64	4.00
USA	43.14%	56.86%	81.50%	86.25%	20.27%	30.09%	15.62%	17.94%	28.19%	34.34%	27.50%	22.58%	-1.27	4.00
GREECE	45.25%	54.75%	78.25%	84.00%	24.99%	27.49%	19.77%	13.49%	39.52%	28.36%	13.13%	43.75%	-1.24	4.00
ECUADOR	38.75%	61.25%	75.00%	82.00%	23.64%	26.32%	28.54%	21.02%	32.22%	35.85%	25.00%	17.78%	-0.63	4.00
NIGERIA	48.88%	51.12%	81.50%	81.50%	24.84%	25.51%	17.67%	19.99%	33.06%	39.20%	19.44%	15.77%	-0.31	4.00
ALGERIA	39.39%	60.61%	74.00%	83.25%	18.01%	23.81%	20.06%	13.11%	45.42%	47.88%	55.42%	28.57%	-0.20	4.00
ITALY	58.10%	41.90%	88.67%	81.67%	15.33%	25.03%	15.19%	18.90%	26.08%	35.83%	16.67%	20.00%	-0.10	3.00
SPAIN	61.85%	38.15%	85.33%	77.67%	22.82%	16.76%	10.24%	17.58%	39.17%	40.48%	33.33%	33.33%	0.86	3.00
IVORY COAST	55.93%	44.07%	86.33%	79.33%	20.86%	22.88%	22.62%	18.40%	25.89%	40.53%	32.78%	41.11%	-0.06	3.00
BOSNIA HERZEGOVINA	55.53%	44.47%	85.67%	82.00%	23.09%	22.03%	17.68%	19.85%	38.06%	30.08%	20.00%	53.70%	-0.36	3.00
CROATIA	50.40%	49.60%	78.25%	80.97%	23.29%	22.45%	19.91%	22.88%	35.76%	30.33%	37.04%	41.67%	-0.10	3.00
RUSSIA	51.06%	48.94%	80.33%	80.00%	24.28%	23.34%	15.93%	13.99%	32.41%	47.22%	15.00%	28.89%	-0.70	2.00
JAPAN	59.22%	40.78%	83.33%	76.33%	31.10%	25.30%	13.69%	23.37%	26.65%	40.42%	21.43%	46.67%	-0.52	1.00
ENGLAND	54.20%	45.80%	85.00%	78.00%	23.23%	20.99%	13.82%	13.35%	29.61%	35.26%	12.22%	50.00%	-0.76	1.00
IRAN	27.50%	72.50%	71.00%	87.00%	23.34%	23.23%	27.96%	13.69%	25.73%	33.57%	16.67%	28.33%	-1.98	1.00
KOREA	52.65%	47.35%	83.00%	80.67%	24.22%	25.02%	13.64%	21.97%	41.67%	31.48%	23.33%	40.00%	-0.24	1.00
GHANA	47.09%	52.91%	79.67%	79.67%	27.65%	24.17%	23.47%	15.40%	23.13%	40.74%	30.56%	42.86%	-0.73	1.00
HONDURAS	47.53%	52.47%	78.00%	82.33%	16.58%	27.35%	23.67%	17.19%	29.25%	42.50%	6.67%	46.67%	-2.00	0.00
CAMEROON	41.31%	58.69%	81.00%	84.33%	22.48%	24.48%	26.45%	17.80%	9.26%	50.78%	33.33%	35.27%	-1.73	0.00
AUSTRALIA	41.79%	58.21%	79.33%	83.67%	16.65%	21.99%	17.59%	13.77%	23.59%	51.43%	25.00%	56.11%	-2.44	0.00
Grand Total	50.00%	50.00%	81.02%	81.02%	23.06%	23.06%	18.31%	18.31%	34.19%	34.19%	29.18%	29.18%	0.00	183.00
R TO POINTS	0.25	-0.25	0.14	-0.21	0.08	-0.27	-0.18	0.08	0.50	-0.62	0.40	-0.57	0.82	



TOTAL SOCCER INDEX: MENS WC 2014

CORRELATION TO POINTS EARNED .88



TOTAL SOCCER INDEX (MENS WC 2014)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE CUP WINNER, GERMANY, FINISHED WITH THE 2ND WORST PERCENTAGE OF CREATION; NETHERLANDS, KNOWN FOR IT'S COUNTER-ATTACKING APPROACHED FINISHED 9TH BEST IN CREATION.

GERMANY FINISHED WITH THE 7TH HIGHEST PERCENTAGE OF PENETRATION; NETHERLANDS – KNOWN FOR IT'S COUNTER-ATTACKING STRATEGY FINISHED 6TH WORST IN PENETRATION.

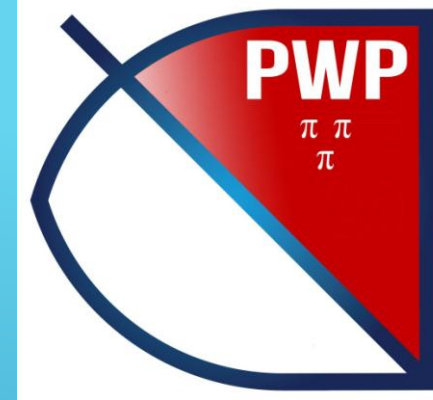
GERMANY FINISHED 2ND BEST IN POSSESSION; SPAIN FINISHED FIRST AND FAILED TO GET PAST THE FIRST ROUND – WC FOOTBALL IS NOT LEAGUE FOOTBALL.

THREE OF THE TOP FIVE TEAMS IN TSI MADE IT TO THE SEMI-FINALS; ONLY BRAZIL FINISHED OUTSIDE THE TOP 10 OF THE TSI – LOSING 7-NIL NEVER HELPS.

TOTAL SOCCER INDEX (WOMENS WC 2015)

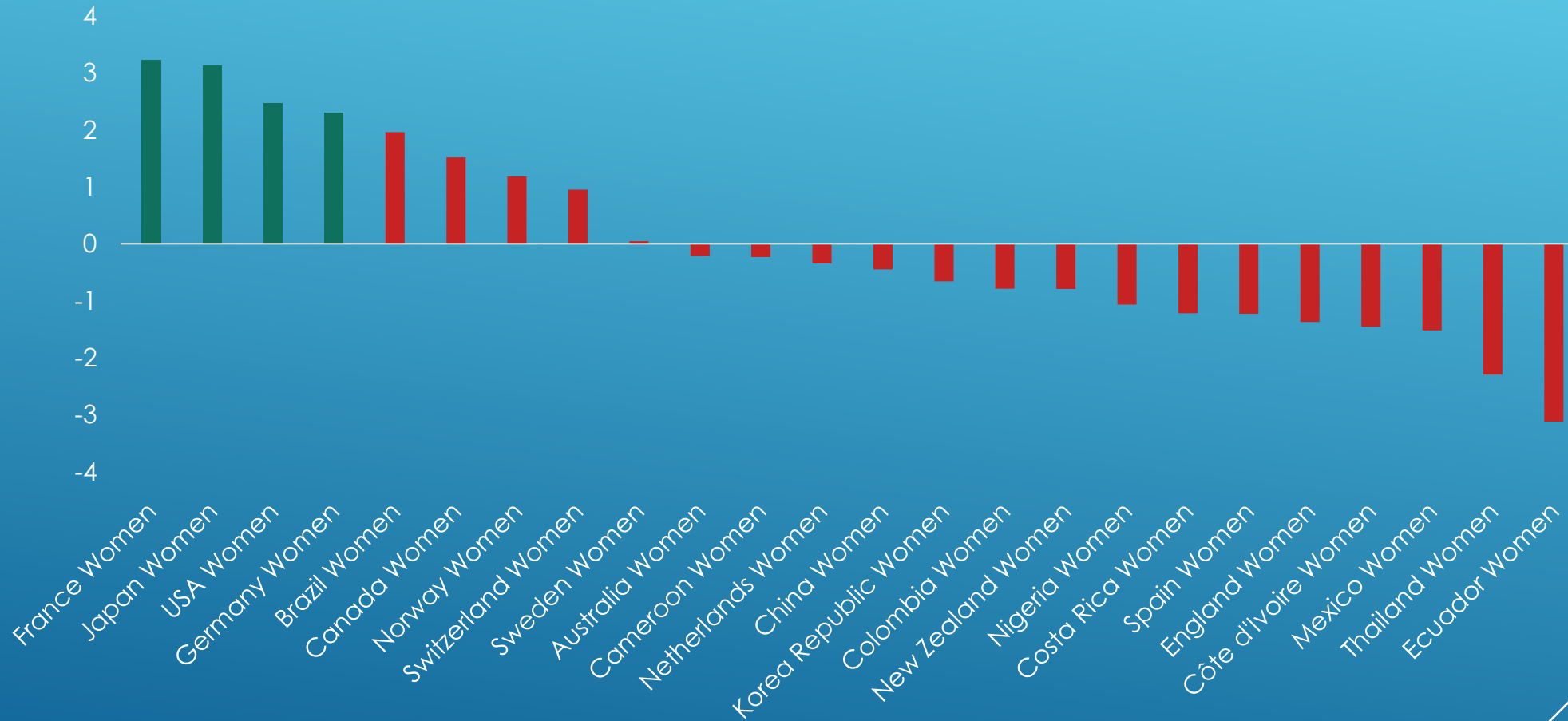


	Average of POSSESSION	Average of OPPONENT POSSESSION	Average of ACCURACY	Average of OPPONENT ACCURACY	Average of PENETRATION	Average of OPPONENT PENETRATION	Average of CREATION	Average of OPPONENT CREATION	Average of PRECISION	Average of OPPONENT PRECISION	Average of FINISHING	Average of OPPONENT FINISHING	Sum of TOTAL SOCCER INDEX	Sum of POINTS
WWC 2015														
USA Women	51.20%	48.80%	76.05%	73.27%	26.79%	22.23%	17.49%	15.82%	58.78%	52.76%	24.66%	6.80%	2.47	19.00
Japan Women	58.71%	41.29%	80.10%	70.46%	20.51%	22.37%	14.22%	21.58%	50.27%	49.08%	40.24%	14.49%	3.13	16.00
England Women	44.36%	55.64%	60.71%	70.80%	27.65%	24.16%	23.27%	22.42%	53.90%	50.89%	20.12%	25.69%	-1.37	16.00
Germany Women	54.64%	45.36%	76.26%	67.16%	30.42%	19.03%	27.92%	19.58%	57.04%	63.07%	16.02%	15.28%	2.30	13.00
Brazil Women	61.13%	38.87%	78.22%	66.78%	21.01%	17.53%	19.89%	23.42%	56.28%	40.83%	4.91%	5.00%	1.96	9.00
France Women	62.39%	37.61%	79.30%	65.62%	22.85%	18.83%	20.50%	13.77%	53.74%	43.35%	25.98%	21.18%	3.22	9.00
Canada Women	54.89%	45.11%	73.21%	64.22%	22.15%	18.68%	18.69%	22.70%	50.80%	47.55%	19.72%	10.86%	1.52	8.00
China Women	49.85%	50.15%	71.17%	73.65%	16.33%	25.27%	24.96%	19.71%	48.95%	57.94%	16.18%	9.72%	-0.45	7.00
Norway Women	55.67%	44.33%	71.34%	67.90%	22.44%	25.11%	22.42%	27.87%	58.15%	50.35%	27.55%	12.40%	1.18	7.00
Australia Women	45.43%	54.57%	71.33%	76.21%	18.70%	26.96%	23.43%	14.38%	60.68%	48.03%	12.57%	16.19%	-0.21	7.00
Cameroon Women	45.26%	54.74%	68.90%	73.84%	26.81%	21.61%	35.56%	13.92%	48.81%	46.28%	12.50%	33.33%	-0.23	6.00
Colombia Women	41.74%	58.26%	65.67%	70.84%	22.91%	25.66%	16.62%	17.14%	53.52%	57.03%	29.17%	20.48%	-0.79	4.00
Netherlands Women	48.84%	51.16%	74.03%	76.26%	15.73%	20.50%	19.35%	27.22%	62.70%	54.68%	13.39%	12.93%	-0.35	4.00
Korea Republic Women	43.09%	56.91%	72.10%	79.85%	19.95%	24.00%	21.12%	15.80%	64.27%	51.67%	14.55%	23.33%	-0.66	4.00
Switzerland Women	59.89%	40.11%	77.71%	66.63%	25.72%	21.10%	13.43%	22.07%	61.72%	37.14%	16.07%	43.75%	0.95	3.00
Sweden Women	51.14%	48.86%	71.64%	73.93%	23.32%	27.11%	12.35%	21.57%	60.09%	53.34%	23.21%	15.83%	0.04	3.00
Thailand Women	37.10%	62.90%	59.41%	77.18%	16.02%	34.27%	20.39%	20.31%	50.00%	59.92%	16.67%	21.60%	-2.30	3.00
New Zealand Women	47.12%	52.88%	68.33%	72.05%	26.08%	17.77%	16.35%	19.98%	55.56%	68.89%	8.33%	16.67%	-0.79	2.00
Costa Rica Women	37.29%	62.71%	61.96%	78.41%	20.83%	22.94%	15.48%	24.23%	43.18%	63.79%	44.44%	11.77%	-1.22	2.00
Spain Women	54.75%	45.25%	75.61%	67.39%	22.28%	16.90%	18.87%	13.08%	51.83%	74.24%	3.33%	50.83%	-1.23	1.00
Mexico Women	45.91%	54.09%	64.90%	71.67%	21.85%	24.56%	17.90%	25.77%	35.85%	52.47%	14.14%	22.69%	-1.52	1.00
Nigeria Women	47.30%	52.70%	69.65%	70.98%	26.51%	23.78%	18.82%	19.22%	53.47%	67.12%	10.00%	27.51%	-1.07	1.00
Côte d'Ivoire Women	46.35%	53.65%	68.60%	70.15%	28.89%	25.12%	21.02%	28.67%	61.27%	64.31%	10.74%	43.65%	-1.46	0.00
Ecuador Women	33.45%	66.55%	64.97%	82.63%	14.12%	29.72%	19.46%	22.53%	33.33%	71.33%	33.33%	30.01%	-3.12	0.00
Grand Total	50.00%	50.00%	71.59%	71.59%	22.88%	22.88%	20.25%	20.25%	54.10%	54.10%	19.88%	19.88%	0.00	145.00
R TO POINTS	0.41	-0.41	0.37	-0.29	0.27	-0.23	0.18	-0.19	0.21	-0.43	0.24	-0.48	0.70	



TOTAL SOCCER INDEX: WOMENS WC 2014

CORRELATION TO POINTS EARNED .88



TOTAL SOCCER INDEX (WOMENS WC 2015)



OBSERVATIONS:

THE SUM OF THE PARTS HAS A GREATER CORRELATION TO POINTS EARNED THAN THE PARTS INDEPENDENT OF EACH OTHER.

THE TOP FOUR TEAMS IN THE TSI WERE THE FOUR SEMIFINALISTS.

THE TWO FINALISTS (JAPAN AND USA) SHOWED GREATER PENETRATION AND LESS CREATION COMPARED TO THE TWO BRONZE MEDALIST TEAMS (GERMANY AND ENGLAND).

OF NOTE; THE WOMENS WORLD CUP IS THE ONLY LEAGUE OR COMPETITION MEASURED WHERE THERE WAS A POSITIVE CORRELATION BETWEEN CREATION AND POINTS EARNED. THIS (MAY?) SIGNIFY LESS COMPLICATED DEFENSIVE SCHEMES?

TOTAL SOCCER INDEX (TSI)



CONCLUSIONS:

- **PURPOSE: DEVELOP INTER-RELATED PERFORMANCE MEASUREMENTS TO BETTER UNDERSTAND THE OUTCOME, THAT ALSO, WHEN COMBINED, PROVIDE AN INDEX THAT COMES CLOSE TO MATCHING POINTS EARNED IN THE LEAGUE TABLE.**
 - **MET**
- **WITH THE EXCEPTION OF THE WOMEN'S WORLD CUP FEWER SHOTS TAKEN, PER PENETRATION, SEES TEAMS EARN MORE POINTS.**
 - **LESS MEANS MORE...**
 - **NOT ALL SHOTS TAKEN, FROM THE SAME LOCATION, ARE EQUAL...**
- **MLS 2017 TEAM PERFORMANCE INDICATORS IN POSSESSION AND ACCURACY APPEAR TO MORE CLOSELY MATCH THOSE OF TOP TEAMS IN EUROPEAN LEAGUES.**
 - **IF MORE IS MEANING MORE IN THESE TWO AREAS THEN IS THAT WORTHY EVIDENCE TO INDICATE TECHNICAL SKILLS ARE INCREASING ACROSS MAJOR LEAGUE SOCCER?**
 - **NOT ALL PASSES, FROM THE SAME LOCATION TO A GIVEN LOCATION, ARE EQUAL...**