

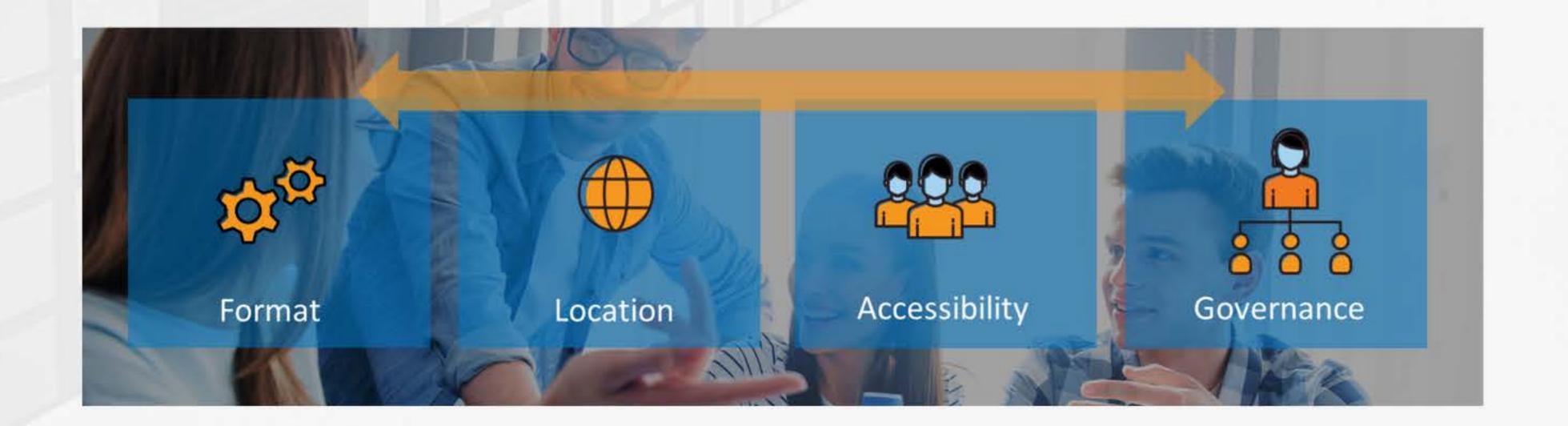
Stefan Leedham

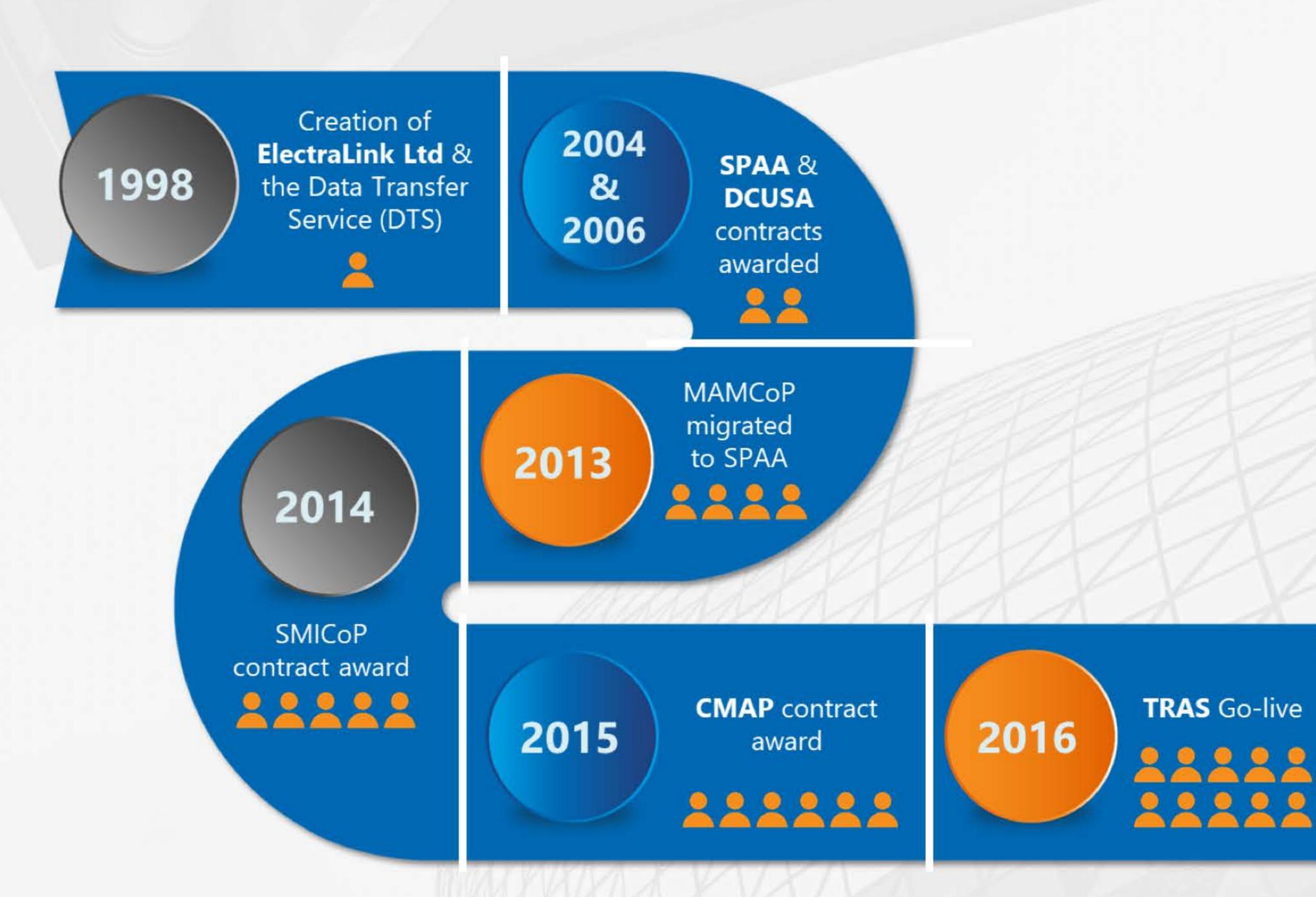


### ElectraLink

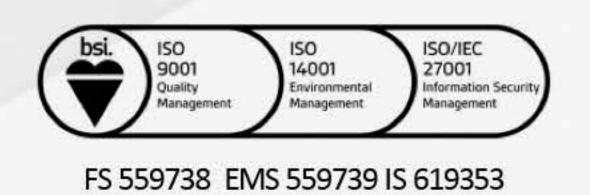


- Owned by all six GB DNOs
- Established 1998
- Data Transfer Service as part of the Energy Market Data Hub
- Governance Services
  - E.g. DCUSA
- Energy Market Insights



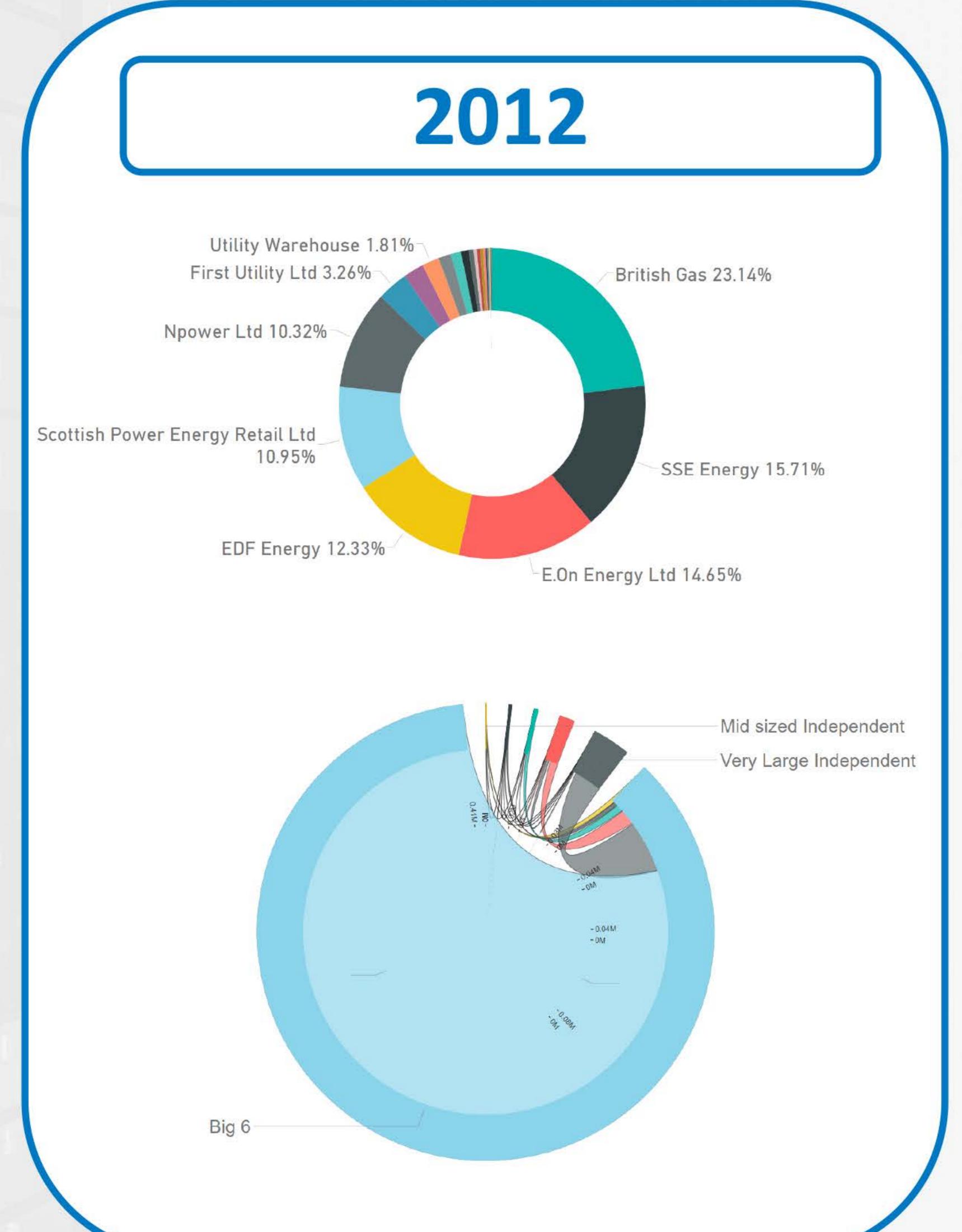


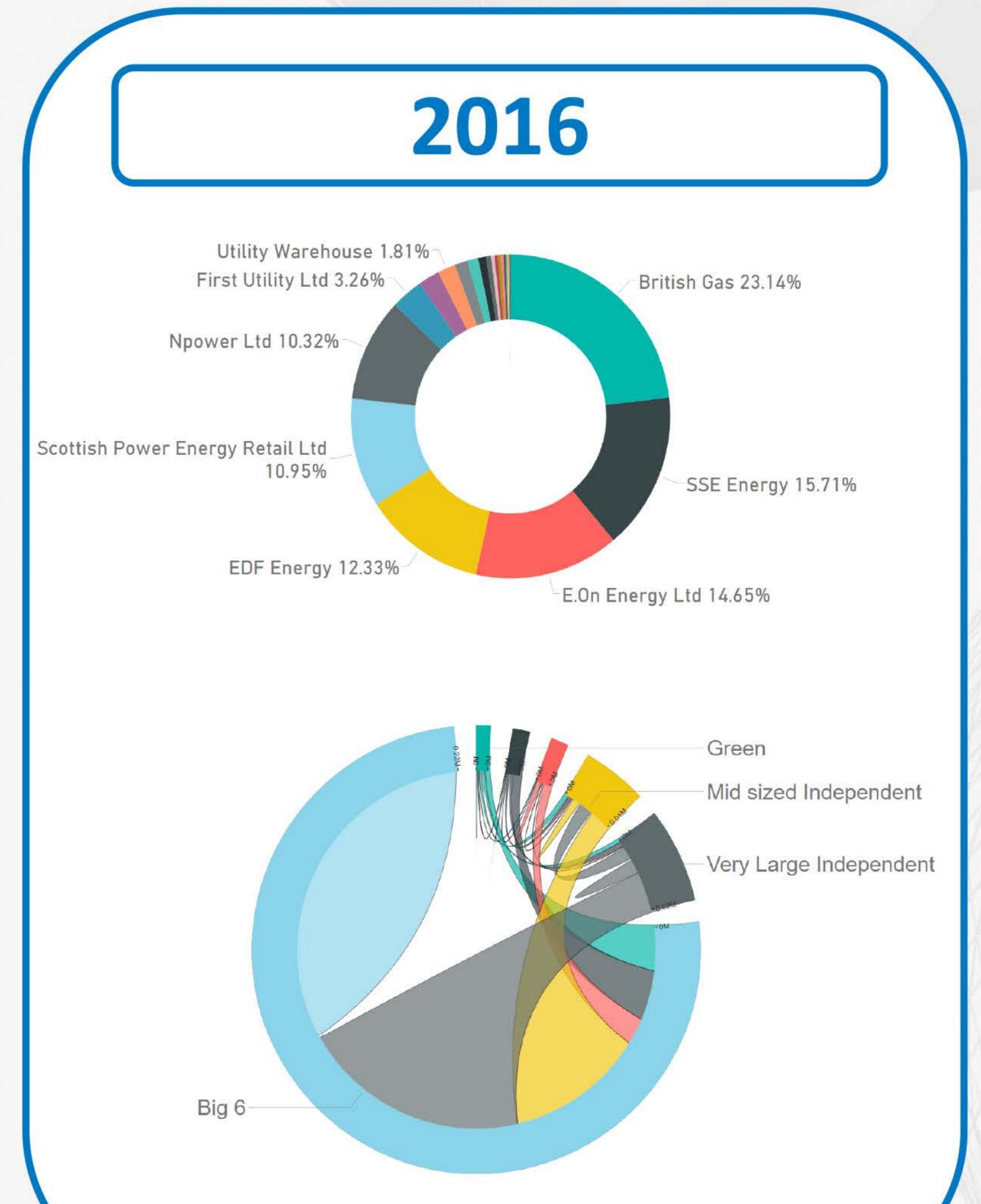


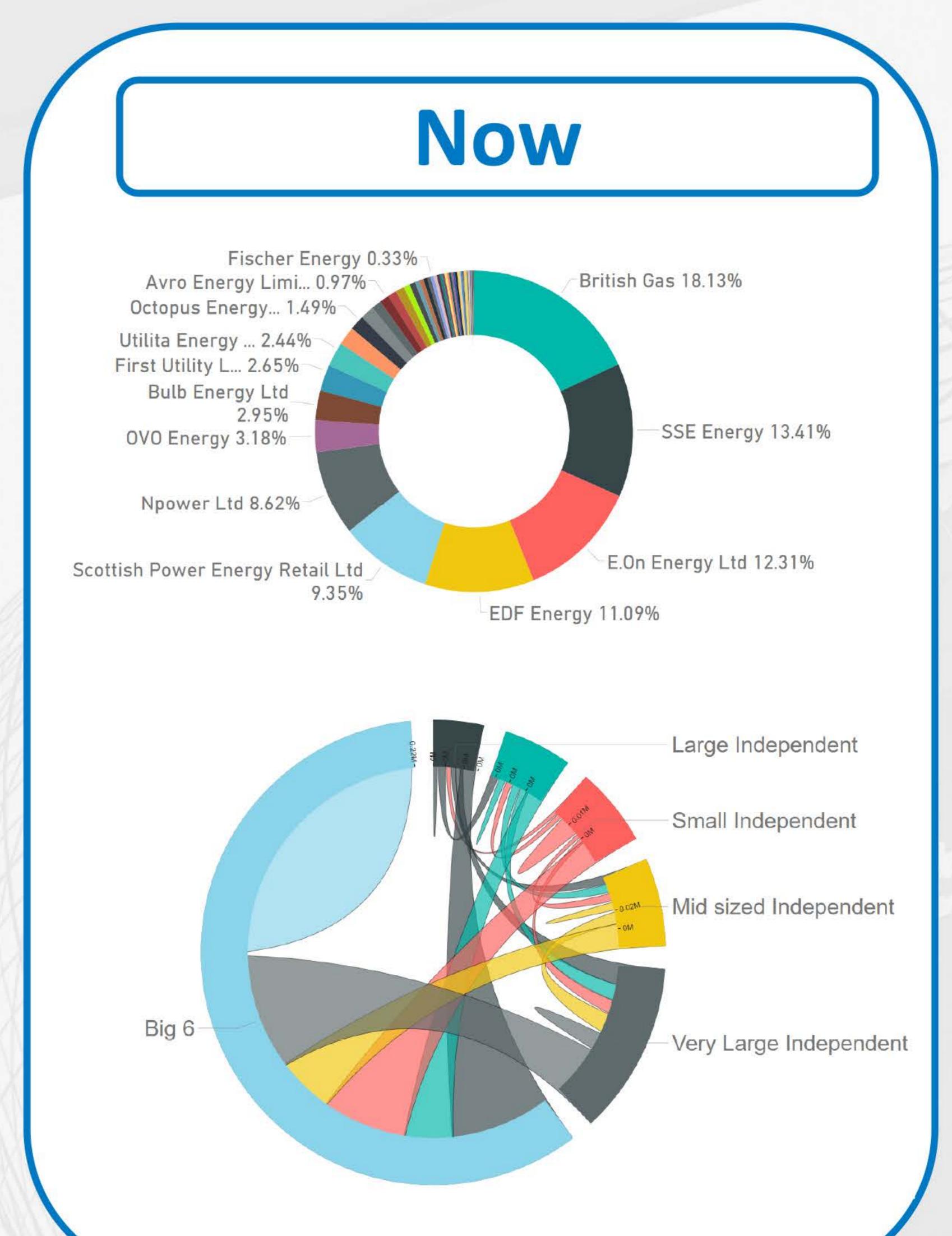


## The Market is Changing and More Complex







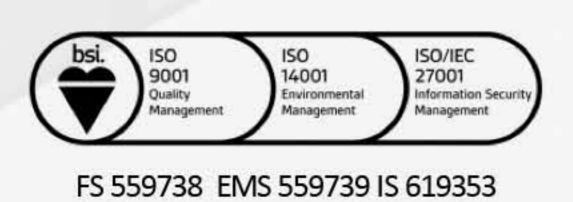


### Data for performance assurance

ElectraLink

- Heat maps can easily identify good performance (green) and poor performance (red)
- This is an ever-changing snapshot over time however regular poorly performing suppliers can be identified
- League tables are powerful tool to track performance over time
- Combination of data and code governance enables proactive and proportionate interventions with appropriate redress measures where necessary

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			- 4		- 1			,				1	1		1	- 1	•		j
Septer Dries	100.00		100	The same	100	-	-		ww	-	-	100	mac.	100	W.C.	1.000	els.	11.0	
Rg 6	30 K	Mar.	10 Hz	70%	TERK.	7476	7376	90% 70%	NK	70.76	TIME	93%	TEN.	MK MK	26.16 26.16	90.54	203C	77.2s	F134;
Lags Integration	Mits	00.76	73.95	Water	W.Sc.	WN.	MAC	W.74	files	81.76	anc	40%	Etc.	erac	M.iv.	E306	0.45	82.36	Disc
Total Independent  155 - List Independent	90% 90%	8176 9176	70.0s	10.86 E	90.06	9186	<b>服</b> 死	1036	87c	19636	III IS	97.65	#36 #41	100 Tel.	1676	Man	70.64	mis ms	N/K
Sod abunka.	108	80.36	90.00	8.86	13.50	55.0%	TLAS.	MASS	20.55	MBG.	etas:	036	3036	255	36	10,16	Ph.	38.65	85
30Later/deligneries	948	75.0%	30.86	75,26	11.0%	7076	.1186	RN.	5.65	3675	MAS	.158	37.66	73.36	553%	33.26	Tills:	85	SIAS:
Fig. 5. SNL or of Information	10 M M	718. Ele.	TIES	0 % 9 %	9.5c	9125 9134	816 816	RR.	876 864	97.Hz	利力。 単称	#K	10 Av.	3186	20	879	N/S	BS.	NAS.
Indinterior		-		g).	No.	9194	88	036	Title	836							534	file	RIS.
Laure	51.5s	913s.	10.5s	TO THE	10. frs. 101. dec	6100	Min.	Dis.	D.01.	TI AN	916s.	NO.	Bh.	Miss	Ele.	9194. N.Sv.	7) 74	10.7% TERK	76.5
Lago Indiguadant	Pline	9194	9664	E4C	91.6%	45.74	50.54	1194	8.65	F1.26	.70.45	91.5%	87.34 39.34	145c	mhr.	MAG	Title	46.76	2136 2136
 Institutions	Mile	8%	4ths	tion.	Atte	Hhi	27.54	Mini	\$1.34	Who .	Nic	8126	60.74	Misc	ell.bs	£2%	Nh	0154	an.
Ind represe	90% 90%	10 pc	TIME	8194	87.5s	93% 93%	MAN.	55	Filtr.	91.94	ES.	WAS	90.7s.	Albe-	W.H.:	no.	55	W36	H26
Ny A	Mile	514	38.55	56.2%	215.	Ties.	215	1124	836	17.61	245	2126	D4	80%	20.64	III for	Miles	ine.	NA.
fam	N.m.	P.S.	200	mas	9136	51.05	9636	RN.	11/25	9.25	81.9s	Mis	58	Mas	20	1134	9.8	n.o.	315.
Indintentit. Ve Let miproint	9125	10N	972% 972%	8734 8134	513% 812%	97.8% 97.8%	SLAN.	N.	M Is	Hills.	7136	7154	NI Sec	70% 70%	70.64	11 Page 1	20%	Hills.	Side.
Later, Independent	90.64	8.55	912%	5136	MK	1186	824	9%	M.N.	in to	NAS	9134	Pite	Mile	3656	9%	106	91%	508
East.	20.04	PER.	81%	Ulk	22.64	St. No.	E 44	W.34.	N.N.	18.54	7) %	30%	D34.	NA.	71.4%	P44	856	76.64	D3s
fam.	8186 6136	WAS .	9 16 10 16	10 No.	25.54. 26.54.	50 to	90% 90%	1996	BENG BENG	M.Sc	NO.	Disk.	State.	MAN.	MAG	90.6s	81.65 81.74	20% 20%	UN:
Small mitiganshiret	27%	No.	956	95.84	Ti de	2002	BK	N/N	9184	966	Disk.	863m	26.56	es.	20.54	1064	disc	Nabe	ESC
Small Indigension	98.90	200 No.	40.04	Water	BH SK	Man.	Mile	2000	9160	88.76	600	MAC.	MAC.	Mile	894	MAG	9164	96%	Wat
Sout indigeners  Insid indigeners	824 224	NIN.	NA.	Dist.	現れ	MON.	IIK IIK	M34 (824	NAC NAC	9174 9184	Plac	Mac Mac	Ø.0s.	60 K	- 田元 - 田元	11 St.	TERS.	Mac.	ens.
	9.5	854	Day	76.0%	90%	III is	mac	inac	Mas	1 let be	4.64	THE REAL PROPERTY.	Dás.	92.55	8674	85%	mis.	inas	Was
Soul integration	100 N	Marie Marie	80.54	10 No.	913s	HEAV MAN	MAK.	Mile.	2554 9544	100 ho	14/60	Tage 2	-	Carl C	MAN.	I Market	PISC.	956	61% 81%
That integrated	50.54		THE STATE OF THE S	West .	9.%	5136	10.5c	NA.	WK WK	71.5	M.As.	95.9%	25%		Dic	104	BN BN	1656	#Lis
Saul missaulet	9,1%	90.54	107%	MK.	9134	YEAR	1186	1836	Title	Mac	enc	Miss	2024	808	20,54	766	EUS.	HN.	Site
Smil polyproket  Rig 6	27 N	3156 3056	20.05 80.04	0.16	BLES.	STAC Miles	IMS MAK	10.0% 20.4C	90 dec	80%	10 M	80% 80%	8126. 8726.	90%	20.6s	10 M M	21.16 014c	0.6	NO.
Case	288	ps.	HN	1155	8116	Man :	nk.	7536	(8) No.	Was	466	07.66	MN.	VIEW	(63)	<b>新州</b>	30%	Mac	NAC.
164 x i al heliquedori	956	600	20.5	HAC:	0.56	MHC.	MAC.	MAC.	. REC	(0%)	ms:	- mac	76.66	20%	26	(MN)	616	mes	Blac .
Total Indigender	90%	#1.86	HIS HOS	9136 8136	27.6K	36.64 51.64	Mac Mac	MIN.	Mac.	9074	Disc.	3136	HAC.	18.96	77.66	79.4c	20%) 20%	Elec Max	TURK
final industries	308	esc	218	3626	70.66	6626	77.0%	2566	E28	9636	77.86	pres.	NK	2836	RING	600	SUC	.036	MNC
Tool Integrated.	H.Is.	76.5%	38.04	10.8s	38.74	355	28 N				8.75	936	0.56	-90.76	2014	3126	8.55	. HOS	.834
Trisil Industries.	716	W.65	MAS.	77.86	W.K.	85.86 85.76	BIK BIK	10.3s	Alk.	25.65	2.15 2.15	97.94	MAG.	Max	MAS.	Water State of the	903K	M36 (8.76	.936
InvCiplorpics.	H/S.	75.76	87.84	928	17.65	1136	Was	88	RDS.	976	RK.	. R.N.	Bas	9.6%	10.05	8176	2018	71/2	PURS
Record Transfer	708	85	JUS	P.H.	356	N.75	RUS.	855	HOS.	, gos	106	5.25	PAC.	73.85	908.	5025	305	9.8	10%
Fig. 6.	HN.	96.161 96.36	Disk Bills	Risc:	ID In.	mas.	単化	W%:	EN.	E 16	Title 10s	Title	824	9634	Wite.	Bit.	Tile	ma.	Title Title
No. 6	834	DN	17.14	mhe	27 lo.	20.54	MAG	95.04	MHC	WAG	Man	100	No.	Mile	El és	1174	Eh.	18.14	W3=
Lago Indigundent	MIN	20.54	20.6%	15 fm.	3F34	F134.	8954	H/s	18.5%	9150	20.0	mbo	20.00	91.7c	St.bs.	15.04	2004	10.7%	Nh.
Lago Independent  Sing Lago Independent	D AC	20 No.	95.9% SE2%	H3K H3K	Miles	10 Pe	165v.	Mar.	Mac Mac	21.5c	NN NK	8156	70.00	77.54	98.7% 79.24	70.	B is	20 Miles	30%
No. 5	EL és	Eh	Pis	MAS.	N.b.	7526	RA	MEN	P.35	3635	3676	(7)si	26.7s.	31.1%	Ath.	Ris.	R/s	ns.	NI.
Ligar, Informicat	Mis	Militi	36.6%	17, m.	83.55	MAG	Pl Is	#.ts.	Miles	87.76		7440	26	31.34	624	ns.	36	11.94	NA.
No. 6. Smill interested.	70.50		81.7% 91.0%	1124	87.6% 86.2%	N.As	70.00	15.75	nx.	- ALTS	75 T	- Rb	SI In	24.00	RA.	5.5	20	100	2011
Indiniumin.	No	No.	036	Miles	PLIS.	Max	His	MA	g 54	9176	2%	70	No.	83%	434	2100	45	T) file	731
Tig. 5 Small independent	51 th	10/fs	856	MAS	71.65	76.5	MAS.	Nits.	70%	in the	EUN	98 St.	27.5c	85%	315c	15 th	R/6	87.76 77.84	29k
Incl Interest	9176	0194	0.00	20.00	27.6%			0.6s	70.04	in the	87.00			NIE.	7/1/		7		N.N.
No. 6					10.4%	ELS».	20%	Elec.	MAS	91.00			1000	100	NESS.	El fin	ping	BLSs	MAC.
Intel Integration  By I	NAC NA	BLDs.	763c	Miss.	76.36 III. (s.	9734	BD6.	Black Black	70.00 20.00	17 In	Disc.	ESC.	88.7 <sub>6</sub> .	Mar.	1834 1634	27.54	2534	2006 2006	MIC.
ME short belogged on	79614	36%	MIN	Webs.	BENC	max	ms	803%	MAN.	20.54	404	NESC.	BW.	766	Mac	Miles	2664	70.54	30%
ted intense	9.84	0 (24)		HIGH.	PRO17278	150701	200	1.000	2057	1117100	834	8134	20.00	3836	10.54	-		No.	MIN.
Tree I management	71.74 74.64	2004	70K	TO SE	Title	Mile Disc	EIN	No.	B.54	B 54	4184	max max	E fo	Was:	70 kg	16.7c	200	20 No.	#136
End Internet	3650	Hite	20%	20.04	20.54	1154	10%	mis	FILE	10.00	as No.	1004	2134	With	76	23.56	266	(7.5s	el.hs
Small independent	66.5%	7526	70.7%	n.s.	20.00	Res	DB	N.Pr.	106	0.54	4030	40.66	ACSC.	00%	NE	M.N.	Mass	et ex	70.8%
Mild in and independent  Small independent	708	20.54	Mak.	Mac.	2034 2034	74.8K	THE STATE OF THE S	BIN	New	Mass	10% 10%	0.60	7586	2046	EN.	1000	10 34 C	1996	766c
limit integrated	70%	77.84	ガ泉	206	79.56	200	2018	20.64	20.00	27.76	906	90%	9.6	WK.	Mas	10.95	Ti de	10.04	3(16)
Total Indigentine  Small Indigentine	16% 76%	206 20.05	NA NA	206 2016	III.N	60% 60%	-753K	MAN.		- Billion	80 K	60% (60%	10.64 10.64	10 K	Mak.	00s	THE	1817s	0036 87 N
Inul integrated	-70.16	70.86	70.75	20.00	#16C	7136	#0x	78.76	2636	(0.36	Mac.	60.04	Mar.	10 K	70.34	63 No.	70.0%	63.86	EN.
See Lage Independent	30%	88.86	87.6%	26.56	90.05	886	MOV	AUN	706	(8186	706	79.06	2016	-7636	3036	2006	2006	8178	Elas.
feut internier	7856	21.6s ·	826	70%	706	76	2026	206	70.0c	70.0	71 K	936	80% 80%	9),0% No. 10	MAN.	MAK	200	9656	90% 90%
Soul interested.	10%	20.54	H2S	MR:	30.60	R56.5	206	20%	206	20%		Mass	836	908	25 for	Ab.	70.86	35.64	30.16
Te I	-205	766	.718	7.6	70.66	2676	MOS.	266	28	305	102s	.913%	828	N.S.	5186	35.50	State	::max	files:
Smill tokentert.	5986 E24	10.86 16.86	1035	N.36.	71.00	10.3K	330	.75.75	.09-10.	11.00	nac nac	E26	93K	MAK	STAK.	7155	N/N	. H.M.	E185
foul internet	TOX	2000	83%	70%	70 is.	7th.	78 K	65	ECIs	ms	713c	2636	#3K	70%	70%	7536	70.16	4186	20%
Small independent Small independent	67.64 68.65	Sh.	20%	70%	70.6%	Els.	NA.	Miles Trans	<b>商</b> 14	N.H.	#Dis	mis	With.	7) dec	Fills.	mis.	50%		410
Ease .	200	N.N.	70%	75 N	20.5%	N/h	NAS.	#1.9c	60 N	16.94	NN	No. to	77.64	76.7%	71.74	Tile.	Mas.	634	0 N
Carr	78.44	Elic	#ERC	834	173s.	87.54	20.3%	7134	71.5%	7150	70.54	9676	mts.	Marc	30.Nr	816c	Mis	TEN	2134
Lago Independent Will provi Independent	5184 8174	MAG.	SIAN.	Win.	III hs	M.As.	NA.	Tide	70 N	8126	RN RN	WH.	Wide.	81% 93%	EN.	25 Sec.	MNs.	98 % 17 8 s	M.Sc.
Ind also her	,015 ,015	9575	N/s	636	0.7s	626	ns.	26.65	M.Ds.	75.25	N2s.	.50	Min	900	76.54	716	f17s	#55	g14 <sub>6</sub>
Ind alcohol	This .	6.5	7/36	7) 8%	Ø3s	Mas.	#ths	A135	#1.0s	17.55	9125	37.8%	93	Mix	Ties	75.5%	235	10.84	TAS
No.Less Inhandes.	710s	57.5 57.5	NA.	7(2)	N.b.	(1) Say	NA.	75.7% 16.7%	635 635	M Pa	F18	D.15	71.24 74.74	75.5	76.74	Tills.	31.75	##N	77.75 \$7.65
and interest	200	Wile	20.36	PF PK	7%	25.7%	H4s	11.85	P.Mc	62 H	88.8c	8156	et sc	£134	Mac	7166	815 <sub>K</sub>	70	at he
and interest	70.00	65%	60 N	7124	\$7.1s.	18. by	N/As	NA.	ge to.	7154	esc	4736	MAC	90 hg	96	4)04	At the	Wide.	tiss
trad integrated	TER.	80.14. 80.34.	17 Ac.	Mas.	82.5c	ALSo.	6374	66.74 66.74	ALNA ETTAL	82.5c	THE THE	MAC Mac	19 Sec.	Mark.	18.14 16.54	10 da.	73.34	TESA.	MN RN
Small integration	87%	H2s.	ets.	HA:	816	mai	BH	67.14	Pinc	Rife	D16	O.Se	10%	B.b.	2%	Mile	BON.	76.64	78.86
feed integrated					MIN	42.64	*****		MIC.	21/44	2 - 4 - 47		2014				Mark.	88	
Fig. 6	67% (7.%)	50.0% \$1.0%	98 Sc.	e ic	917s.	MAN.	512s	Miles Miles	PEN.	#35 (C) 5c	71.5	7154	70.54	300	7.54	20	705	7174	777
Text Industrial			170.00			13.	674	654	10.74	80.50						15 10			la.
Incliniquent	80%	0.64	87%	RN.	Rife	#124	MAS	MENG	eric	2150	#186 #170	er dis	N/s	- Fibe	Make	87%	With	67%	MIX
Smil intputies  (mil intputies	into:	0%	80x	6 N	20 to	900	80%	Man.	MAC MAC	1000	Wile Wile	9134	834	61.94 (1.94	026	Mari Mari	like	9136 9136	es.
find internier	666	4150	.08	634	10%	NN	# No.	Rec.	SON	Obs	Elec.	25%	450	066	30%	10 N	70%	M.S.	406
			- Marian	93.84	85.64	96.6%	100 to 1	100.0%	2025	1824	80.64	00.0%	mac	2000	105.64	30.00	W.K.	1805	200.00
Total indigendent	86.04	2004	H3K	41.00	- 44							100							
Small maligranism  fig. 6  Small maligranism	78.64	20.04	M IS	20.00	10.64 20.64	2006		2656	2016	70.04	20144	100	2926	20.5	#25s	may.	2016	1166	TLAK.



# Data for performance assurance

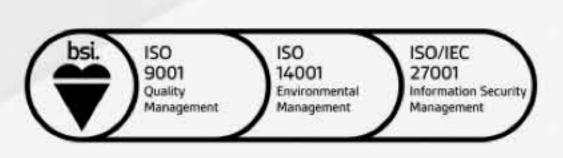


#### **Top 10 Performing Suppliers**

Supplier Name	Overall %	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
Big 6	96.30%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	66.67%	100.00%	100.00%
Big 6	95.95%	99.35%	98.84%	97.87%	78.18%	83.53%	74.08%	73.53%	76.73%	74.51%	79.12%
Small Supplier	94.76%	96.28%	95.70%	93.90%	95.04%	95.59%	95.67%	95.51%	95.17%	93.84%	92.14%
Small Supplier	94.74%	69.23%	66.67%	70.37%	81.48%	100.00%	93.33%	88.24%	93.33%	66.67%	96.83%
Challenger	94.22%	92.95%	91.86%	91.16%	91.11%	93.14%	94.80%	95.13%	93.86%	95.33%	95.80%
Small Supplier	93.89%	91.81%	92.35%	95.48%	89.81%	93.90%	93.63%	93.63%	93.95%	93.92%	94.33%
Small Supplier	93.69%	94.03%	92.99%	92.87%	93.25%	92.95%	93.72%	91.76%	90.86%	92.58%	94.72%
Big 6	93.59%	95.00%	91.84%	88.98%	92.86%	98.55%	98.04%	84.44%	96.61%	95.65%	96.72%
Challenger	93.58%	90.36%	90.30%	91.98%	94.44%	95.29%	95.70%	89.95%	89.10%	90.61%	87.83%
Small Supplier	92.92%	93.33%	89.27%	93.27%	93.13%	92.88%	94.90%	94.11%	87.77%	87.82%	93.46%

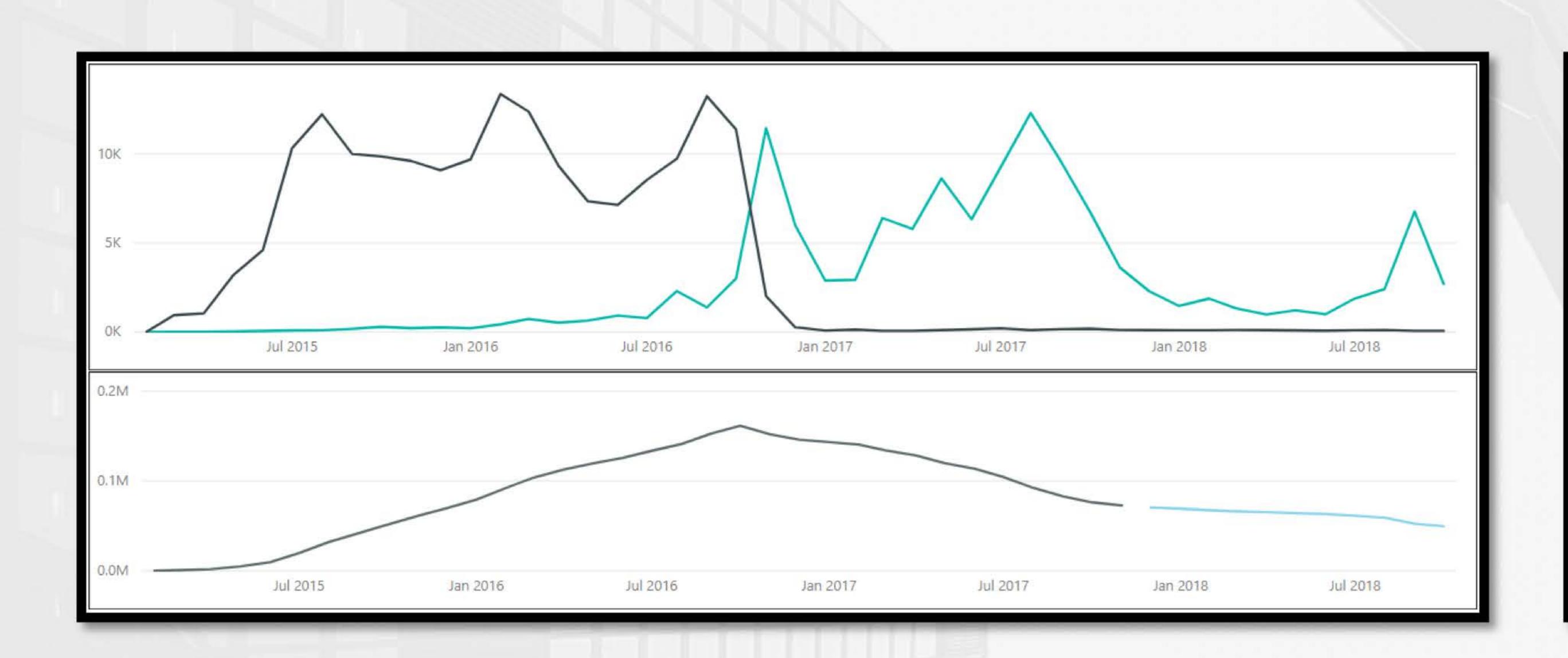
### **Bottom 10 Performing Suppliers**

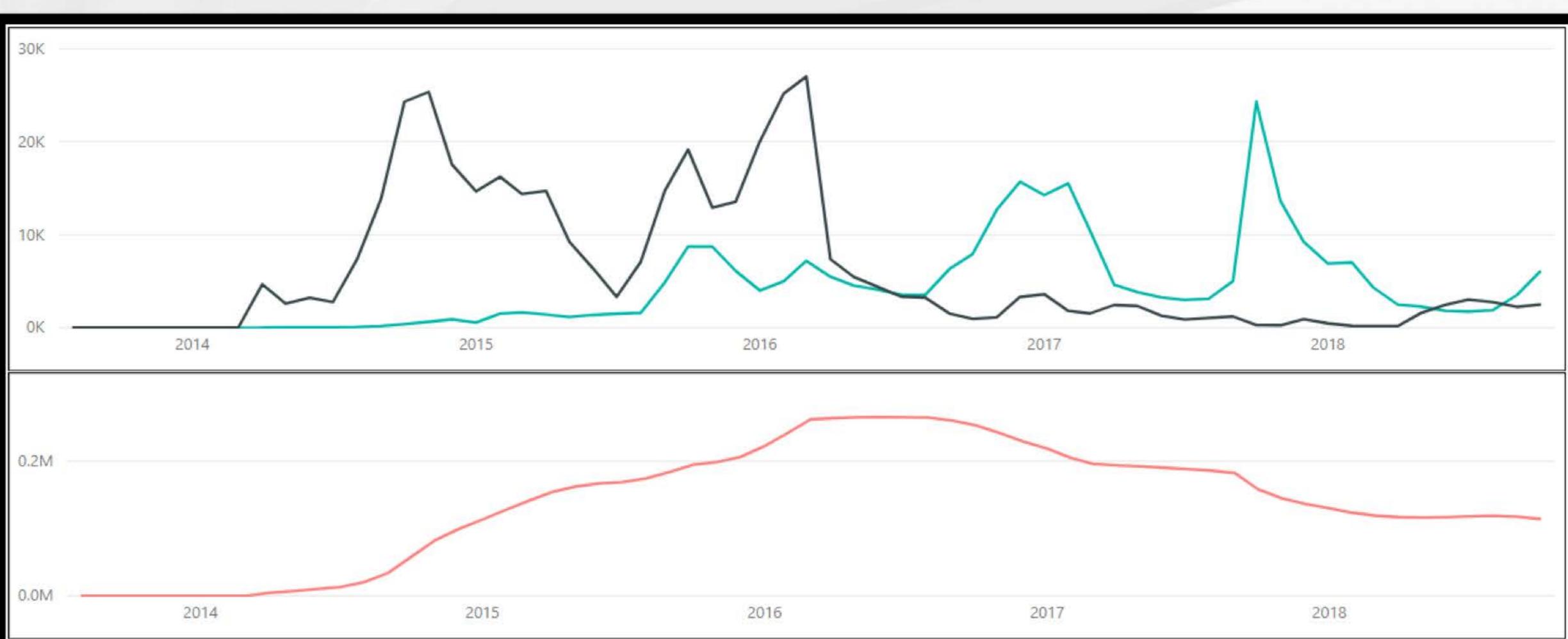
Supplier Name	Overall %	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
Small Supplier	71.95%	34.80%	46.35%	85.48%	90.07%	85.47%	80.57%	84.46%	83.46%	79.05%	84.23%
Small Supplier	71.69%	64.89%	65.30%	68.61%	64.84%	69.48%	80.57%	77.04%	71.37%	73.34%	69.16%
Small Supplier	68.71%	69.76%	56.53%	70.53%	67.98%	61.21%	56.73%	61.88%	76.39%	65.02%	78.03%
Small Supplier	68.67%	77.13%	68.90%	71.74%	71.58%	67.83%	69.40%	69.60%	64.26%	62.97%	59.39%
Challenger	68.65%	65.89%	67.20%	66.46%	79.48%	66.90%	67.19%	70.54%	64.82%	62.70%	66.56%
Small Supplier	67.71%	93.96%	83.27%	81.09%	70.99%	64.37%	62.94%	64.11%	55.85%	60.22%	72.95%
Small Supplier	67.67%	62.38%	65.83%	78.79%	69.57%	37.50%	83.33%	65.63%	81.40%	61.76%	68.92%
Small Supplier	65.39%	70.39%	68.93%	52.20%	70.95%	62.15%	65.92%	75.96%	72.91%	49.24%	74.28%
Small Supplier	62.38%	70.00%	58.10%	52.56%	79.59%	58.73%	58.93%	57.97%	50.00%	68.52%	69.51%
Small Supplier	60.76%	78.57%	69.30%	52.46%	53.26%	52.08%	45.76%	43.68%	66.13%	57.89%	61.17%
Small Supplier	60.58%	62.22%	64.24%	63.34%	59.86%	60.35%	65.36%	60.40%	57.12%	53.89%	61.48%



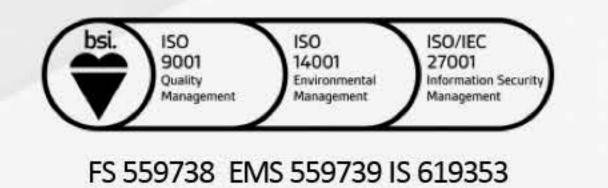
#### SOLR View







- There is a clear tipping point
- In some cases suppliers continue to operate for at least 12 months past that tipping point
- The historical data-set can be mined for strong correlations between variable data items and timeliness of data flows and SoLR risk
- Performance assurance should therefore be used not just to identify historical performance issues, but also to minimise future risk

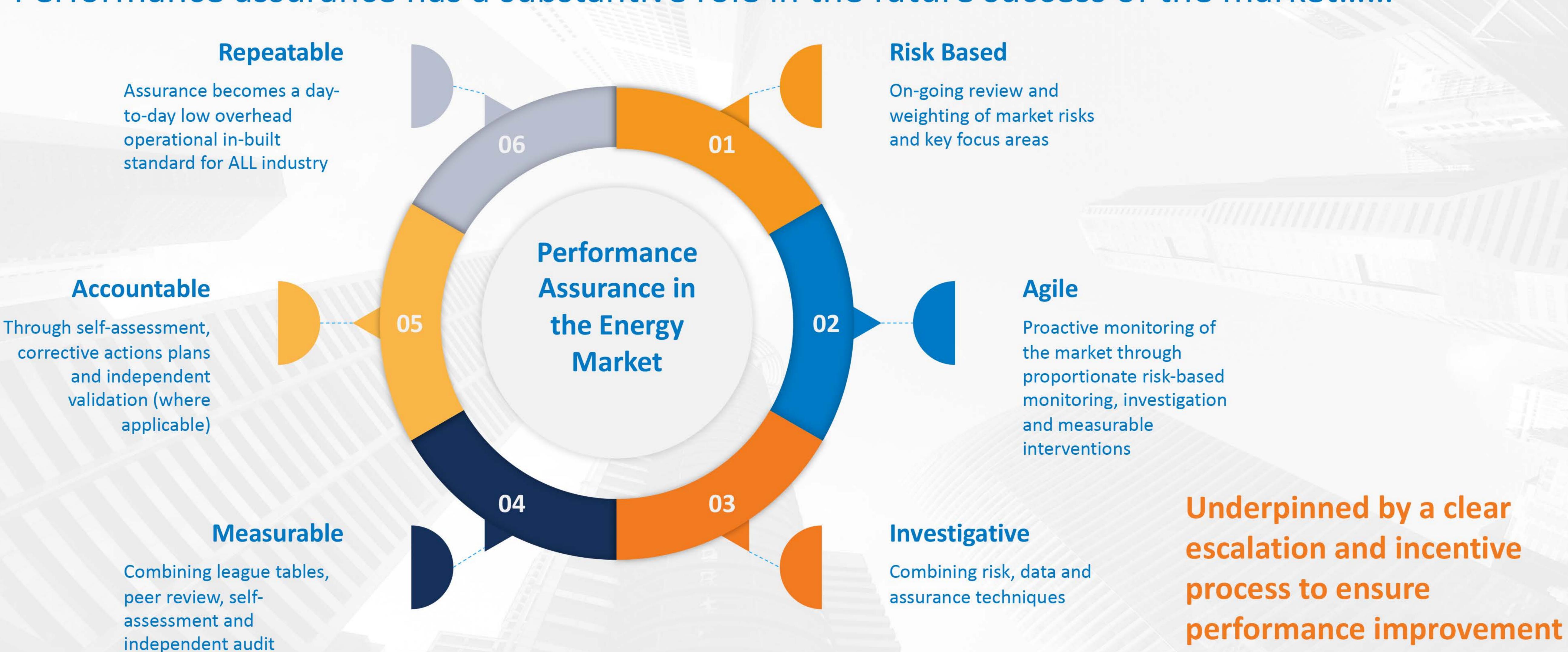


#### Performance Assurance

FS 559738 EMS 559739 IS 619353



## Performance assurance has a substantive role in the future success of the market.....



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