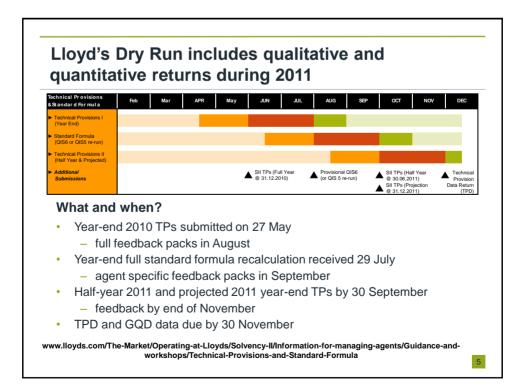
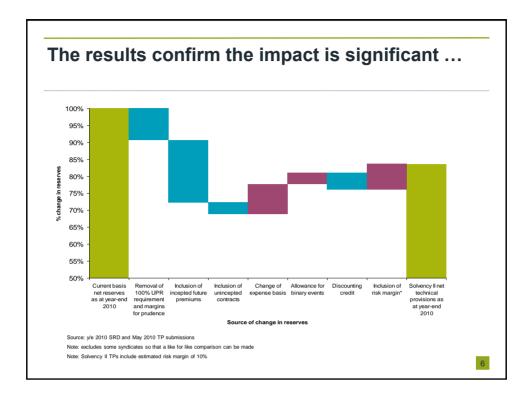
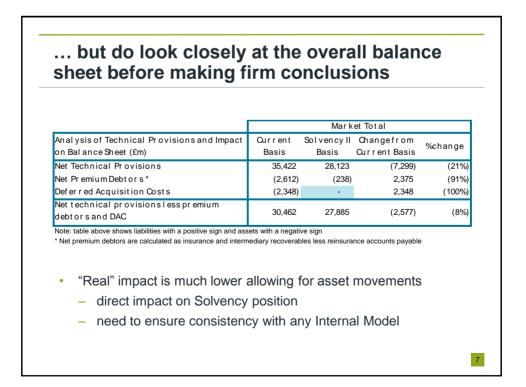


Immary of the key changes in basis		
Current Basis	Solvency II	
UPR	Premium provision	
Undiscounted	Discounted	
Margin for prudence	No margin for prudence	
No risk margin	Risk margin	
Limited latent claims allowance	"All possible" claims included	
ULAE	ULAE + overheads + investment costs	
Incepted contracts	Legal obligation basis	
Deterministic methods	Cashflow basis - possibly stochastic	



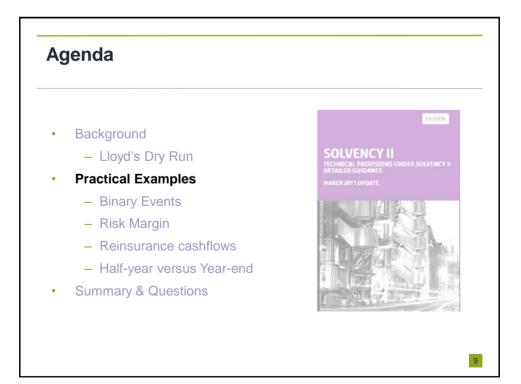


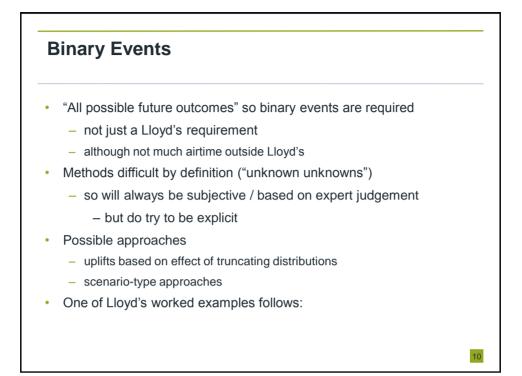


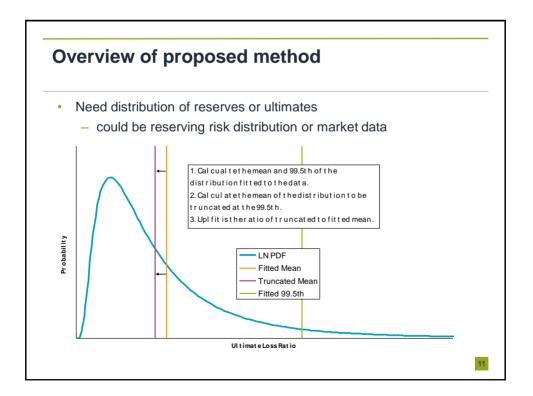
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## Practical challenges have emerged - the usual suspects

- The same issues are fast becoming the "usual suspects" for TPs:
  - segmentation
  - currencies
  - cashflows
  - binary events
  - contract boundaries
  - expenses
  - risk margins
- And remember data challenges will underlie all points!

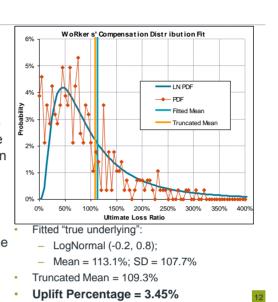






## Fit a distribution to the claims and then assume truncated

- Use expert judgement and data available to fit an assumed "true underlying" claims distribution
- Calculate the impact on the mean of truncating the "true underlying" distribution to an assumed level
  - e.g. 99.5% level
- Derive the uplift to the ultimate losses based on the two mean ULRs

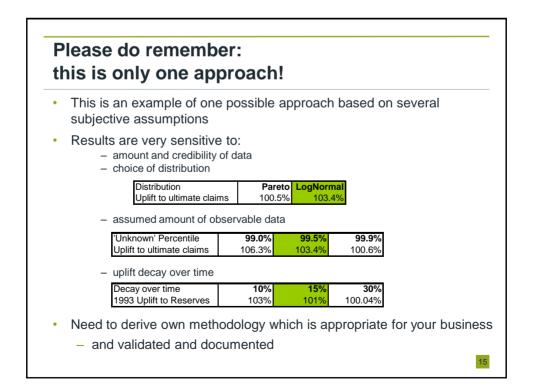


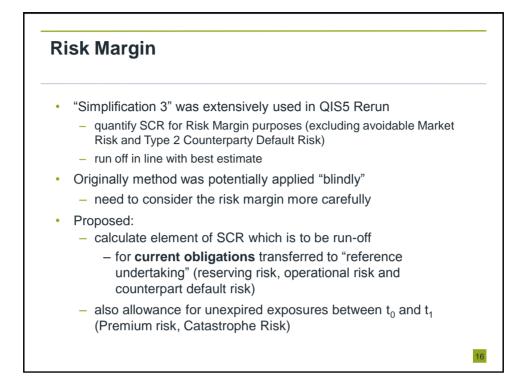
## Apply the uplift to the reserves - but assume a decay

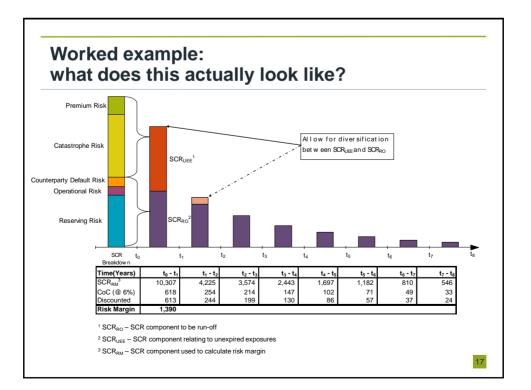
- Assumption
  - decay uplift on ultimate claims by 15% for each year of account prior to the latest modelling year (decay varies by class) to account for lower likelihood of binary event
- Derive reserve loading required to uplift ultimates to level required for each year of account
  - apply these uplifts to the future claims
- Can conduct a similar exercise for reinsurance or net losses

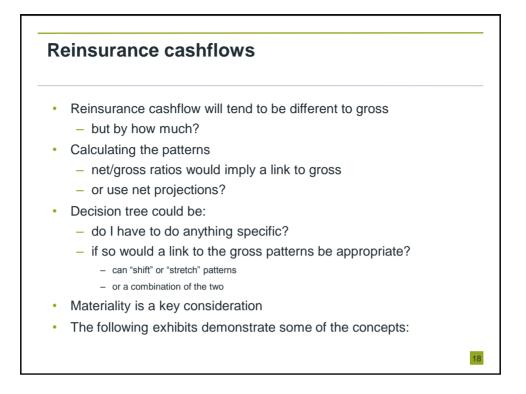
	Run-Down		
Reserves	Factor	Unadjusted	Adjusted
1993	5%	122.6%	101.2%
1994	6%	112.8%	100.8%
1995	7%	119.7%	101.5%
1996	9%	120.3%	101.8%
1997	10%	120.1%	102.1%
1998	12%	118.2%	102.2%
1999	14%	116.7%	102.4%
2000	17%	108.3%	101.4%
2001	20%	105.9%	101.2%
2002	23%	104.9%	101.1%
2003	27%	105.4%	101.5%
2004	32%	105.4%	101.7%
2005	38%	104.1%	101.6%
2006	44%	104.2%	101.8%
2007	52%	103.7%	101.9%
2008	61%	103.6%	102.2%
2009	72%	103.5%	102.5%
2010	85%	103.6%	103.1%
2011			
(Unincepted)	100%	103.4%	103.4%

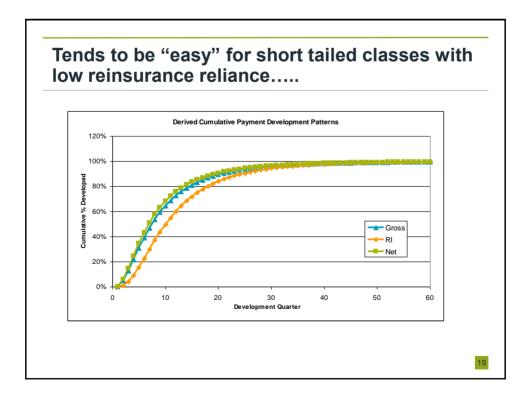
What have we seen or	n binary eve	nts	
Market average results			
<ul> <li>closer to those in Lloyd's fir</li> </ul>	st detail quidance	paper (i.e.	5%)
	galaaliee	pope: (	0,0)
– looks on the high side?			
I. A factor of the second state of the second state	into TPs anyway?		
<ul> <li>but is it only moving capital</li> </ul>	into ir s anyway:		
<ul> <li>but is it only moving capital</li> </ul>	Into TFS arryway :		
Binary Events included within Technical	Net BE (undisc, excl	Net Binary	
, , ,		Net Binary Events (£m)	Binary Events %
Binary Events included within Technical Provisions for Lloyd's top 6 classes	Net BE (undisc, excl expenses)	Events	
Binary Events included within Technical	Net BE (undisc, excl expenses) (£m)	Events (£m)	
Binary Events included within Technical Provisions for Lloyd's top 6 classes General liability Marine, aviation and transport (MAT)	Net BE (undisc, excl expenses) (£m) 7,859	Events (£m) 314	<b>%</b> 4.0%
Binary Events included within Technical Provisions for Lloyd's top 6 classes General liability Marine, aviation and transport (MAT) Fire and other damage to property	Net BE (undisc, excl expenses) (£m)           7,859           3,407	Events (£m) 314 185	4.0% 5.4%
Binary Events included within Technical Provisions for Lloyd's top 6 classes General liability Marine, aviation and transport (MAT) Fire and other damage to property Non-proportional casualty	Net BE (undisc, excl expenses) (£m)           7,859           3,407           3,205	Events (£m) 314 185 167	4.0% 5.4% 5.2%
Binary Events included within Technical Provisions for Lloyd's top 6 classes General liability Marine, aviation and transport (MAT) Fire and other damage to property Non-proportional casualty Non-proportional property Non-proportional MAT	Net BE (undisc, excl expenses) (£m)           7,859           3,407           3,205           2,659	Events (£m) 314 185 167 163	4.0% 5.4% 5.2% 6.1%
Binary Events included within Technical Provisions for Lloyd's top 6 classes General liability Marine, aviation and transport (MAT) Fire and other damage to property Non-proportional casualty Non-proportional property	Net BE (undisc, excl expenses) (£m)           7,859           3,407           3,205           2,659           2,245	Events (£m) 314 185 167 163 166	4.0% 5.4% 5.2% 6.1% 7.4%

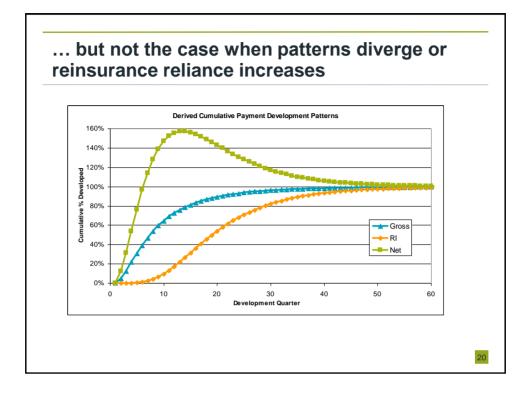


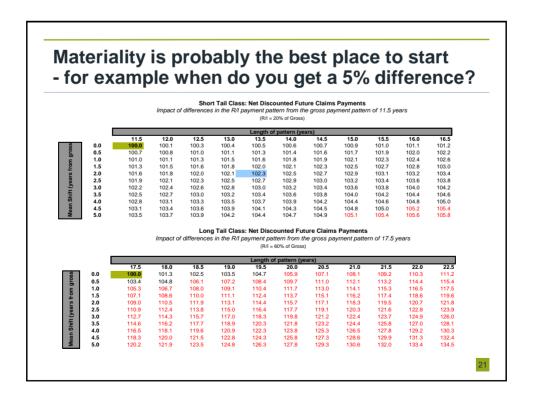












Half-Year vs. Year-End valuations:
what might be different?

This is what we expected...

Element	Compared to year-end	
Margins + 100% UPR	Higher	
Future Premiums	Higher	
Unincepted business	Lower	
Expenses	Lower (less Acq. costs)	
Binary events	Similar	
Discounting	Similar	
Risk Margin	Similar	

