

From the CFO's desk

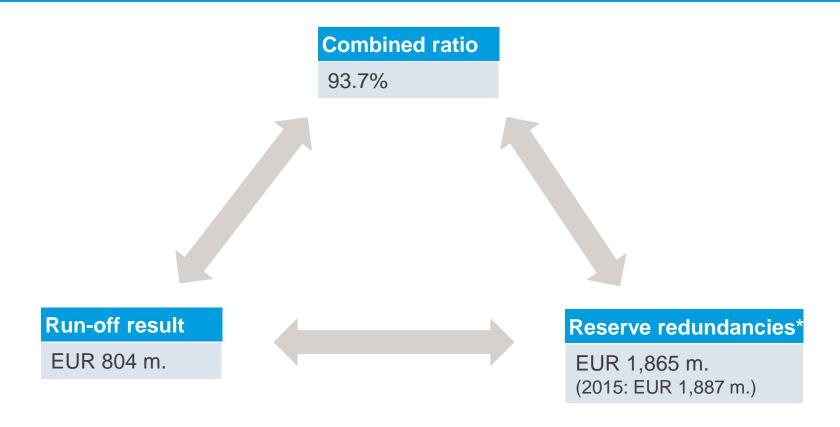
How to read the run-off result / Update on yield expectations

Roland Vogel, Chief Executive Officer



Strong 2016 Hannover Re Group result

Our performance figures demonstrate a solid business development



^{*} Redundancy of loss and loss adjustment expense reserve for P&C insurance business against held IFRS reserves, before tax and minority participations. Willis Towers Watson reviewed these estimates

Only a combined assessment enables the right conclusions to be drawn

Run-off result - two different perspectives

Understanding the data is crucial for interpretation, analysis and results!

	Balance sheet view	Actuarial view
Period	Run-off in the reporting period	Ultimate view
Perspective	Net after consolidation	Gross after consolidation
Year	Accident year	Underwriting year
Considered claims	Differentiation of current year and previous years' claims	Development of paid claims and claims reserves over lifetime
When do we see a run-off result?	Run-off result is the difference between change of claims reserves for previous years in the reporting period and the respective claims paid	Run-off is the result of a change of the ULR



How is the run-off result determined?

Opening Balance Claims reserves

- Closing Balance Claims reserves (for previous years)
- Claims paid (for previous years)
- = Run-off result

Net loss reserves and its run-off in P&C*

Net loss reserve and	d its run-off	in the pro	perty and	casualty r	einsuranc	e segmen	t				N53
in EUR million	31.12. 2006	31.12. 2007	31.12. 2008	31.12. 2009	31.12. 2010	31.12. 2011	31.12. 2012	31.12. 2013	31.12. 2014	31.12. 2015	31.12. 2016
Loss and loss adjustn	nent expens	e reserve (f	rom balan	ce sheet)							
	13,646.5	13,017.0	13,882.1	14,179.4	15,465.5	16,823.2	17,439.3	18,029.3	19,859.1	21,851.1	22,759.8
Cumulative payments	for the year	r in questio	n and prev	vious years							Υ
One year later	2,643.2	2,569.4	3,041.8	2,832.7	2,521.3	3,220.0	2,999.0	3,265.1	3,587.9	3,353.0	1
Two years later	4,446.5	4,427.5	4,721.7	4,086.3	4,202.5	5,002.4	4,654.5	5,096.2	5,364.9		
Three years later	5,826.6	5,576.2	5,494.2	4,923.5	5,220.5	5,954.9	5,872.9	6,233.0			
Four years later	6,654.7	6,133.3	6,092.3	5,584.1	5,881.8	6,908.0	6,736.1				
Five years later	7,056.1	6,574.5	6,581.8	6,095.8	6,655.3	7,636.4					
Six years later	7,400.7	6,942.7	6,915.5	6,604.3	7,208.4						
Seven years later	7,677.4	7,222.7	7,264.6	6,957.0							
Eight years later	7,906.7	7,515.6	7,530.0								
Nine years later											
	8,143.5	7,729.0									
Ten years later	8,143.5 8,308.8	7,729.0									
,	8,308.8	.,	t) for the y	ear in ques	tion and pr	evious year	rs plus pay	ments mad	e to date o	n the origin	nal reserv
Ten years later	8,308.8	reserve (ne									
Ten years later Loss and loss adjustm	8,308.8 ent expense	reserve (ne	13,882.1	14,179.4		16,823.2	17,439.3		19,859.1	21,851.1	
Ten years later Loss and loss adjustm End of year	8,308.8 ent expense 13,646.5	reserve (ne	13,882.1	14,179.4 13,643.3	15,465.5	16,823.2	17,439.3 16,984.2	18,029.3	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later	8,308.8 ent expense 13,646.5 12,911.4	13,017.0 13,307.8	13,882.1 14,977.3	14,179.4 13,643.3	15,465.5 14,773.9	16,823.2 16,519.8 16,143.6	17,439.3 16,984.2	18,029.3 17,769.4	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1	13,017.0 13,307.8 13,239.1	13,882.1 14,977.3 13,690.3	14,179.4 13,643.3 12,832.4	15,465.5 14,773.9 14,136.6	16,823.2 16,519.8 16,143.6 15,650.3	17,439.3 16,984.2 16,570.7	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later Three years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9	13,017.0 13,307.8 13,239.1 12,747.0	13,882.1 14,977.3 13,690.3 12,763.5	14,179.4 13,643.3 12,832.4 12,234.1	15,465.5 14,773.9 14,136.6 13,717.1	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later Three years later Four years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,988.9	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later Three years later Four years later Five years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later Tree years later Four years later Four years later Six years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later Three years later Four years later Five years later Six years later Six years later Seven years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustm End of year One year later Two years later Three years later Five years later Five years later Six years later Seven years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustme End of year One year later Two years later Three years later Four years later Five years later Six years later Seven years later Eight years later Nine years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,145.6 10,870.7 10,592.8 10,272.6 9,857.3 9,656.1	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
Ten years later Loss and loss adjustme End of year One year later Two years later Four years later Four years later Five years later Six years later Six years later Eight years later In years later Four years later Four years later Fine years later Ten years later	8,308.8 ent expense 13,646.5 12,911.4 12,494.1 12,419.9 11,145.6 10,870.7 10,592.8 10,272.6 9,857.3 9,656.1	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	22,759.

Run-off disregards development of claims reserves in the reporting period



^{*} Source: Hannover Re Annual Report 2016 (page 200)

Run-off result 2016 per accident year

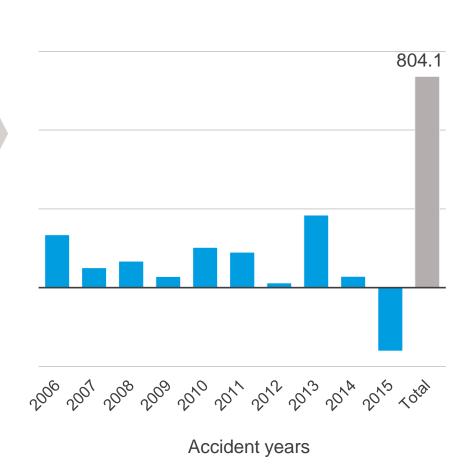
Accident (underwriting-) year 2015 even negative

Net loss reserves and its run-off in P&C*

Net loss reserve and	its run-on	in the pro		casualty i							N53
in EUR million	31.12. 2006	31.12. 2007	31.12. 2008	31.12. 2009	31.12. 2010	31.12. 2011	31.12. 2012	31.12. 2013	31.12. 2014	31.12. 2015	31.12. 2016
Loss and loss adjustn	nent expense	reserve (f	rom balan	ce sheet)							
	13,646.5	13,017.0	13,882.1	14,179.4	15,465.5	16,823.2	17,439.3	18,029.3	19,859.1	21,851.1	22,759.
Cumulative payments	for the year	in questio	n and pres	vious years							Υ
One year later	2,643.2	2,569.4	3,041.8	2,832.7	2,521.3	3,220.0	2,999.0	3,265.1	3,587.9	3,353.0	1
Two years later	4,446.5	4,427.5	4,721.7	4,086.3	4,202.5	5,002.4	4,654.5	5,096.2	5,364.9		
Three years later	5,826.6	5,576.2	5,494.2	4,923.5	5,220.5	5,954.9	5,872.9	6,233.0			
Four years later	6,654.7	6,133.3	6,092.3	5,584.1	5,881.8	6,908.0	6,736.1				
Five years later	7,056.1	6,574.5	6,581.8	6,095.8	6,655.3	7,636.4					
Six years later	7,400.7	6,942.7	6,915.5	6,604.3	7,208.4						
Seven years later	7,677.4	7,222.7	7,264.6	6,957.0							
Eight years later	7,906.7	7,515.6	7,530.0								
Nine years later	8,143.5	7,729.0									
Ten years later	8,308.8										
Loss and loss adjustme	ent evnence	recerve (ne	t) for the v	ear in ques			e niue navi	ments mad	e to date o		
					tion and br	evious year				n the origin	iai reserv
End of year	•	13,017.0								•	
End of year One year later	•							18,029.3		21,851.1	
	13,646.5	13,017.0	13,882.1	14,179.4	15,465.5	16,823.2	17,439.3	18,029.3 17,769.4	19,859.1	21,851.1	
One year later	13,646.5 12,911.4	13,017.0	13,882.1 14,977.3	14,179.4 13,643.3	15,465.5 14,773.9	16,823.2 16,519.8	17,439.3 16,984.2	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later	13,646.5 12,911.4 12,494.1	13,017.0 13,307.8 13,239.1	13,882.1 14,977.3 13,690.3	14,179.4 13,643.3 12,832.4	15,465.5 14,773.9 14,136.6	16,823.2 16,519.8 16,143.6	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later	13,646.5 12,911.4 12,494.1 12,419.9	13,017.0 13,307.8 13,239.1 12,747.0	13,882.1 14,977.3 13,690.3 12,763.5	14,179.4 13,643.3 12,832.4 12,234.1	15,465.5 14,773.9 14,136.6 13,717.1	16,823.2 16,519.8 16,143.6 15,650.3	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later Five years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later Five years later Six years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later Five years later Six years later Seven years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later Five years later Six years later Seven years later Eight years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later Five years later Five years later Six years later Seven years later Eight years later Nine years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6 9,857.3 9,656.1	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Three years later Four years later Five years later Six years later Seven years later Eight years later Ten years later Ten years later	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6 9,857.3 9,656.1	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3	14,179.4 13,643.3 12,832.4 12,234.1 11,813.6 11,336.3 10,805.5	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7	17,439.3 16,984.2 16,570.7 16,057.3	18,029.3 17,769.4 17,127.7	19,859.1 19,341.7	21,851.1	
One year later Two years later Three years later Four years later Five years later Five years later Six years later Seven years later Eight years later Nine years later Ten years later Change relative to no	13,646.5 12,911.4 12,494.1 12,419.9 11,988.9 11,145.6 10,870.7 10,592.8 10,272.6 9,857.3 9,656.1	13,017.0 13,307.8 13,239.1 12,747.0 11,828.6 11,472.8 11,167.3 10,755.0 10,335.9 10,058.7	13,882.1 14,977.3 13,690.3 12,763.5 12,255.1 11,917.2 11,407.9 10,918.3 10,540.5	14,179,4 13,643,3 12,832,4 12,234,1 11,813,6 11,336,3 10,805,5 10,385,4	15,465.5 14,773.9 14,136.6 13,717.1 13,234.1 12,667.6 12,094.4	16,823.2 16,519.8 16,143.6 15,650.3 15,029.7 14,321.8	17,439.3 16,984.2 16,570.7 16,057.3 15,331.6	18,029.3 17,769.4 17,127.7 16,125.7	19,859.1 19,341.7 18,296.8	21,851.1	

Run-off profit FY 2016

in m. EUR



^{*} Source: Hannover Re Annual Report 2016 (page 200)

Which factors have an influence on the run-off result?

- ► Cautious estimation for proportional business (recurring effects)
- Regular actuarial review of claims experiences
- Run-off result reporting based on accident year; allocation of IBNR to accident years
- Influence of Advanced Solutions business

Several factors influence the run-off result, leading to volatility per year

Redundancies materialise over time

~3/4 of Hannover Re Group reserves

U/Y	Ultimate loss ratio 2010	Ultimate loss ratio 2011	Ultimate loss ratio 2012	Ultimate loss ratio 2013	Ultimate loss ratio 2014	Ultimate loss ratio 2015	Ultimate loss ratio 2016	Paid losses 2016	Case reserves 2016	IBNR balance 2016
2005	96.2%	95.8%	94.1%	92.7%	93.3%	92.8%	92.3%	84.3%		4.2%
2006	63.3%	62.1%	60.9%	59.5%	57.5%	56.5%	54.6%	> 43.7%	Lowere	dluss
2007	78.3%	77.1%	77.5%	77.2%	75.6%	75.0%	74.2%	57.7%	7.5%	9/0
2008	83.2%	84.1%	81.8%	80.9%	80.3%	78.0%	75.9%	56.5%	8.2%	11.3%
2009	78.3%	75.8%	73.1%	72.7%	70.1%	69.9%	68.5%	46.0%	8.3%	14.2%
2010	81.2%	84.1%	81.4%	78.9%	80.0%	79.0%	78.0%	> 50.2%	Lowered	UIP
2011		85.6%	82.4%	81.9%	80.9%	81.8%	80.1%	50.1%		19.5%
2012			89.1%	83.1%	79.1%	79.8%	79.6%	48.7%	12.0%	18.9%
2013				82.8%	80.1%	78.9%	75.3%	42.6%	11.4%	21.3%
2014					79.0%	75.7%	75.3%	35.4%	15.8%	24.2%
2015						82.6%	80.3%	30.2%	18.6%	31.4%
2016							83.6%	15.5%	18.7%	49.4%

Based on reported loss triangles for Hannover Re/E+S Rück As at 31 December 2016 (in m. EUR), consolidated, IFRS



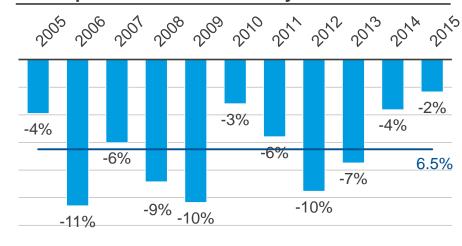
Consistent and sustainable positive reserve development ...

... while stable reserve redundancies are rolled forward

Distribution of reserve redundancies* as at 31 Dec

UY	Dec 2009	Dec 2010	Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016
2000	1%	1%	1%	1%	0%	0%	0%	0%
2001	1%	1%	1%	1%	0%	0%	0%	0%
2002	8%	4%	3%	2%	1%	0%	0%	0%
2003	10%	7%	2%	2%	3%	2%	0%	0%
2004	12%	8%	4%	4%	4%	2%	1%	1%
2005	12%	15%	12%	8%	6%	6%	2%	2%
2006	17%	17%	17%	17%	11%	7%	6%	4%
2007	18%	17%	19%	18%	12%	8%	7%	7%
2008	15%	11%	13%	11%	10%	14%	10%	8%
2009	6%	16%	15%	14%	15%	14%	13%	12%
2010		3%	12%	14%	13%	15%	12%	12%
2011			2%	6%	12%	13%	14%	13%
2012				2%	7%	8%	13%	15%
2013					3%	7%	12%	13%
2014						3%	7%	9%
2015							3%	5%
2016								0%

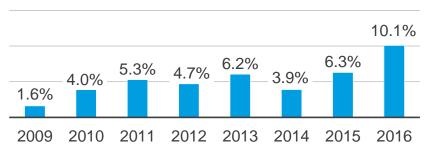
Development of booked ULR by U/Y since 2009



Development ULR — Average

Run-off profit (financial year)

in % of NPE

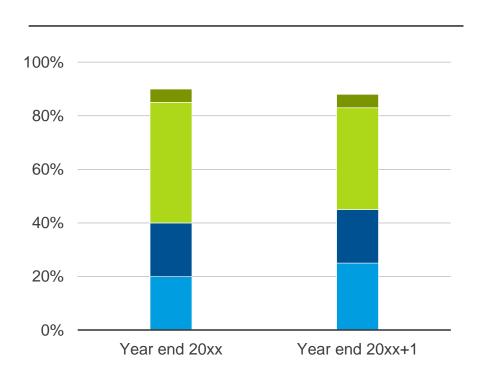


^{*} According to Hannover Re own review; for Hannover Re/E+S Rück Standard P&C business



Simplified example

Impact on run-off result and confidence level



- Booked ULR (incl. Management Adjustment) lowered from 90% to 88%
- Actuarial ULR lowered from 85% to 83%
- ► Stable redundancy of 5%

Conclusion:

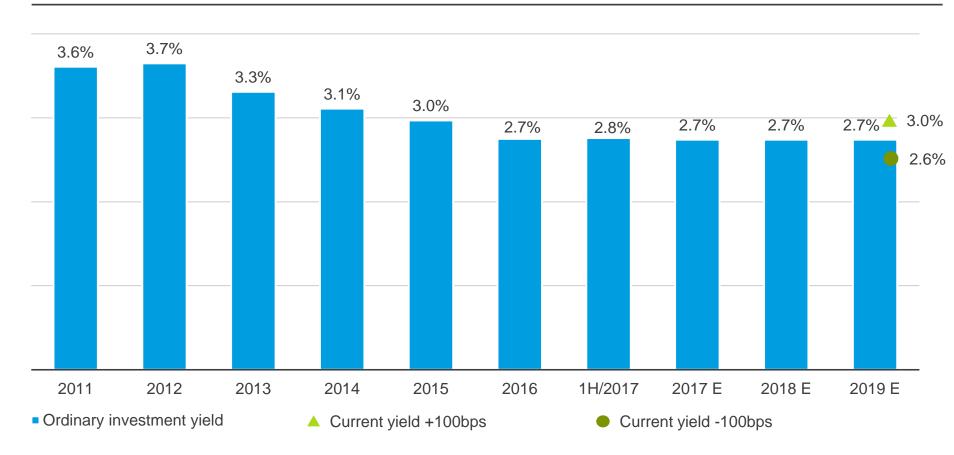
The run-off result is driven by the improved actuarial ULR. The redundancy is kept stable at 5%

■ Paid claims ■ Case reserves ■ IBNR ■ Redundancy

Ordinary return on investments stabilises in 2018 and 2019

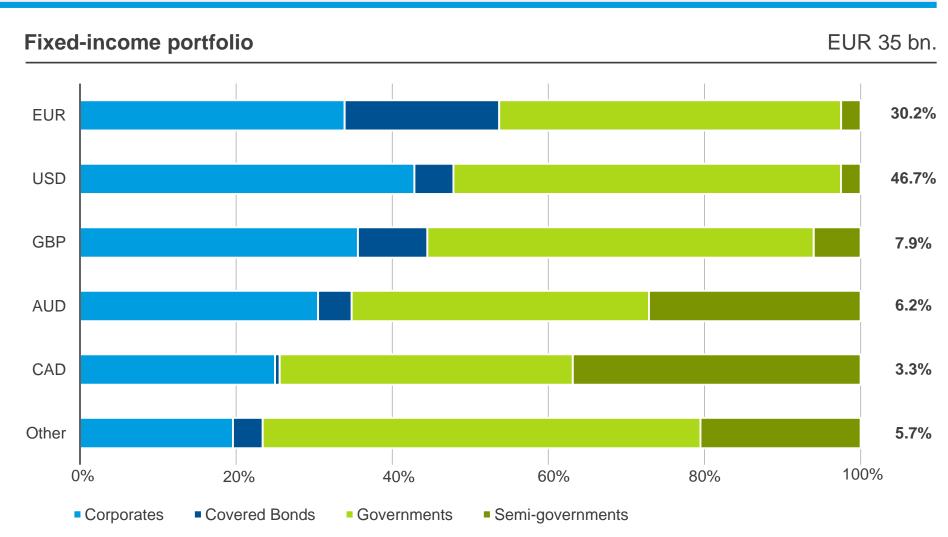
100 bps sensitivity more or less unchanged

Ordinary yield from assets under own management



As at 30 June 2017

Fixed-income allocation varies significantly per currency

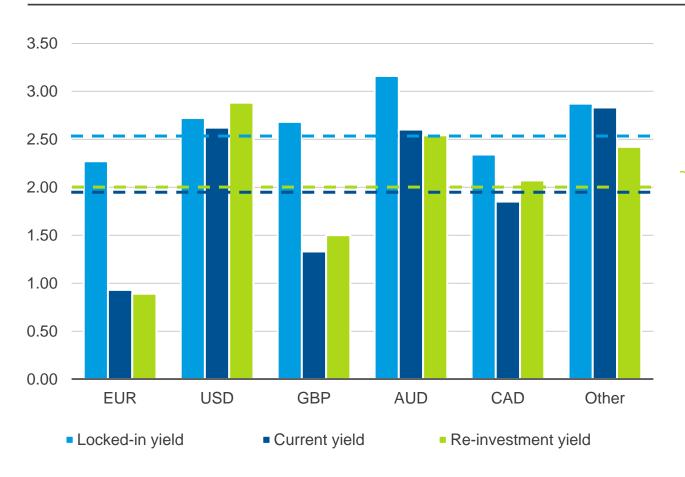


 $^{^{\}ast}$ Analysis as at 30 Jun 2017, excluding short-term investments and cash

Three key figures to evaluate the fixed-income return

EUR and GBP as drivers of the reinvestment gap

Yield analysis per currency of fixed-income portfolio*



Average

2.53% "Locked-in" portfolio

~2.00% Actual re-investments

1.95% Current portfolio market

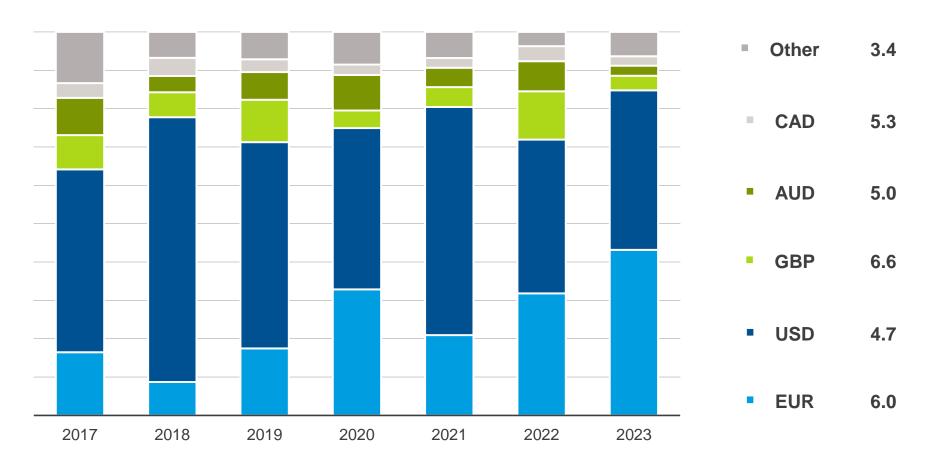
^{*} As at 30 June 2017, excluding short-term investments and cash

Duration targets determine maturity profile per currency

Low EUR maturities in 2018 and 2019

Maturities of fixed-income portfolio* per currency

Modified duration

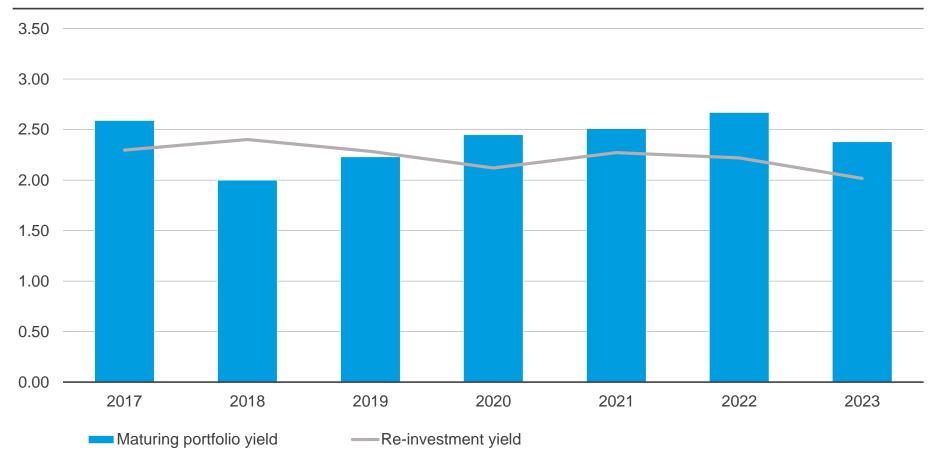


^{*} As at 30 Jun 2017, excluding short-term investments and cash

Altogether, ordinary from fixed income stabilises in 2018/2019

Long-term scenario dependent on interest rate development

Yearly analysis of fixed-income portfolio maturing vs. re-investment yield*

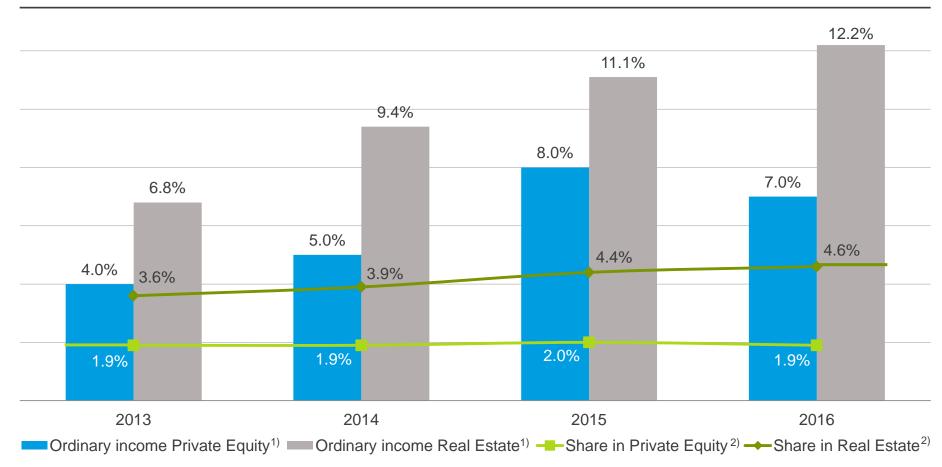


^{*} As at 30 June 2017, excluding short-term investments and cash

Growing contribution from alternative assets to inv. income ...

... as Private Equity remains stable and Real Estate constantly increases

Private Equity and Real Estate income stakes and quota



1) In % of total ordinary income



²⁾ In % of total AuM

Disclaimer

This presentation does not address the investment objectives or financial situation of any particular person or legal entity. Investors should seek independent professional advice and perform their own analysis regarding the appropriateness of investing in any of our securities.

While Hannover Re has endeavoured to include in this presentation information it believes to be reliable, complete and up-to-date, the company does not make any representation or warranty, express or implied, as to the accuracy, completeness or updated status of such information.

Some of the statements in this presentation may be forward-looking statements or statements of future expectations based on currently available information. Such statements naturally are subject to risks and uncertainties. Factors such as the development of general economic conditions, future market conditions, unusual catastrophic loss events, changes in the capital markets and other circumstances may cause the actual events or results to be materially different from those anticipated by such statements.

This presentation serves information purposes only and does not constitute or form part of an offer or solicitation to acquire, subscribe to or dispose of, any of the securities of Hannover Re.

© Hannover Rück SE. All rights reserved. Hannover Re is the registered service mark of Hannover Rück SE.

