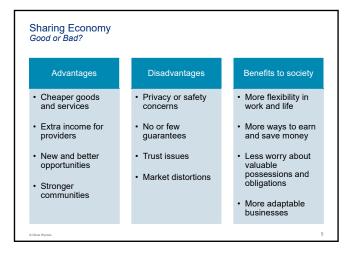


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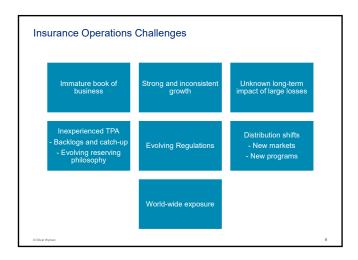
Agenda

- Sharing Economy Definition
- Challenges Insurance Operations
- Challenges Reserving
- -Segmentation
- -LDFs and Tail
- -ILFs
- -Traditional vs. Non-Traditional Methods
- Business Considerations
- -Ride sharing
- –Home sharing
- -Car sharing
- -Scooters and Bicycles

Sharing E conomy with the state of the state	
What is it? The sharing economy is an economic model often defined as a peer-to-peer based activity of acquiring, providing or sharing access to goods and services that are facilitated by a community based on-line platform.	rbnb
	iffjoy
Ride sharing (Lyft, Uber, Didi,) Car sharing (Getaround, Turo,)	eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee
Home sharing (Airbnb, Booking.com,) Home sharing (Airbnb, Booking.com,) Peerto-peer lending (Lending Club, Prosper,) Coworking (Link, the Coop,) Reselling or trading (eBay, Craigalist,) Knowledge and latert sharing (TaskRabbit, LivePerson,) Last-mile mobility (Bird, Lime, Scoot, Lyft, Uber, Wheelz,)	IRX Eat
	, shiply t acart nudđle

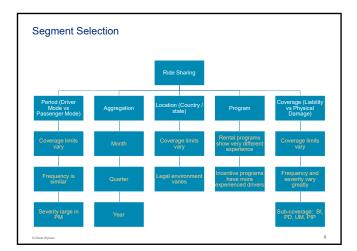


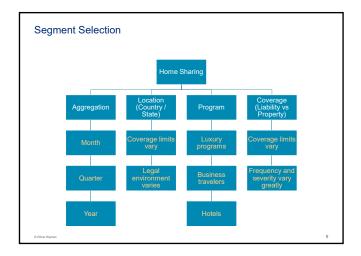




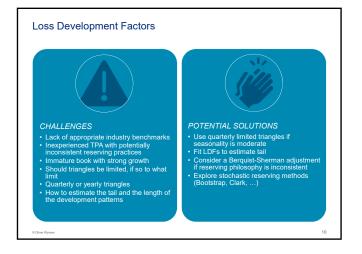


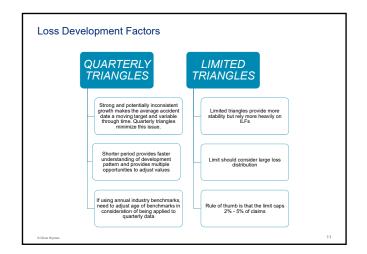
Reserving Challenges	
Reserve Segmentation	
 By geography (country / state) By program By coverage By period / phase / stage (0, 1, 2 and 3) 	
Loss Development Factors (LDFs)	
Tail selection	
Increased Limit Factors (ILFs)	
Traditional vs. Non-Traditional Methods	
G Olive Wynan	7







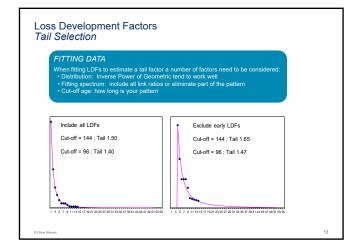




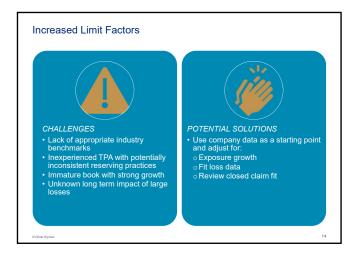


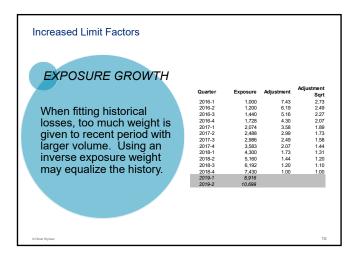
		RMAN				
Backlogs, c	atch-ups a	nd TPA cha	inges are p	art of life in	the sharing	g economy.
eviewina a	werane ca	se reserve	on open ca	ses should	he done re	qularly
						č
djustments	should be	e considere	d when larg	le swings a	re observed	i.
Accident						
Period	2	5	8	11	14	17
Ending						
Ending	1,900	3,400	5,500	8,400	12,400	15,900
Ending	1,900 1,500	3,400 3,400	5,500 7,100	8,400 9,800	12,400 14,700	15,900 18,700
Ending 12/31/2016						
Ending 12/31/2016 3/31/2017	1,500	3,400	7,100	9,800	14,700	18,700
Ending 12/31/2016 3/31/2017 6/30/2017 9/30/2017	1,500 2,000	3,400 6,400	7,100 10,100	9,800 13,400	14,700 17,400	18,700 18,300
Ending 12/31/2016 3/31/2017 6/30/2017	1,500 2,000 3,000	3,400 6,400 8,200	7,100 10,100 11,300	9,800 13,400 13,800	14,700 17,400 15,100	18,700 18,300 16,600
Ending 12/31/2016 3/31/2017 6/30/2017 9/30/2017 12/31/2017	1,500 2,000 3,000 3,900	3,400 6,400 8,200 6,600	7,100 10,100 11,300 10,100	9,800 13,400 13,800 13,200	14,700 17,400 15,100 17,900	18,700 18,300 16,600 20,800
Ending 12/31/2016 3/31/2017 6/30/2017 9/30/2017 12/31/2017 3/31/2018	1,500 2,000 3,000 3,900 4,200	3,400 6,400 8,200 6,600 6,800	7,100 10,100 11,300 10,100 8,800	9,800 13,400 13,800 13,200 11,600	14,700 17,400 15,100 17,900 15,000	18,700 18,300 16,600 20,800
Ending 12/31/2016 3/31/2017 6/30/2017 9/30/2017 12/31/2017 3/31/2018 6/30/2018	1,500 2,000 3,000 3,900 4,200 2,900	3,400 6,400 8,200 6,600 6,800 6,100	7,100 10,100 11,300 10,100 8,800 9,200	9,800 13,400 13,800 13,200 11,600 11,800	14,700 17,400 15,100 17,900 15,000	18,700 18,300 16,600 20,800
Ending 12/31/2016 3/31/2017 6/30/2017 9/30/2017 12/31/2017 3/31/2018 6/30/2018 9/30/2018	1,500 2,000 3,000 3,900 4,200 2,900 3,400	3,400 6,400 8,200 6,600 6,800 6,100 6,300	7,100 10,100 11,300 10,100 8,800 9,200 8,800	9,800 13,400 13,800 13,200 11,600 11,800	14,700 17,400 15,100 17,900 15,000	18,700 18,300 16,600 20,800











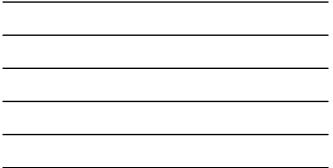


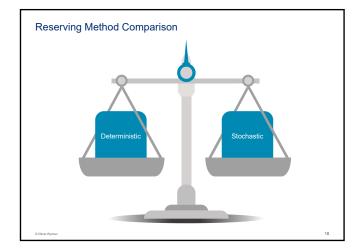
Increased Limit Factors Possible Adjustments

FITTING DATA

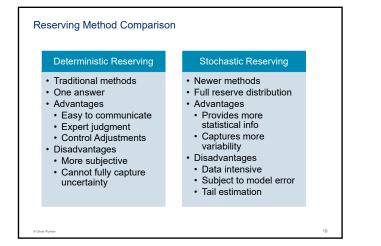
- Distribution: Logarithmic and Polynomial tend to work well
 Trending: Trend all claims or only closed claims
- All claims or a subset:
- Closed claims only
- Eliminate small claims
- · Eliminate new claims
- Fitting spectrum:
- ILFs at consistent interval
- Exclude small limits
- Exclude limits where limited data is available

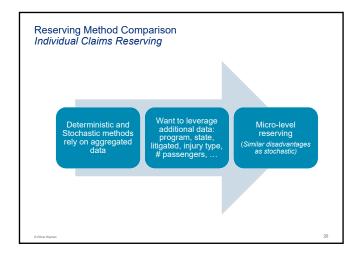
[laims				Claims		
	Exposure a		Not Exposure		Exposure /		Not Exposure		
Limit	Actual	Fitted	Actual	Fitted	Actual	Fitted	Actual	Fitted	ISO
50.000	0.68		0.71		0.74		0.77		
100.000	0.83		0.85		0.74		0.89		0.79
250.000	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.000	1.00	1.00	1.00	1.03	1.04	1.00	1.00	1.02	1.00
350.000	1.12	1.06	1.10	1.05	1.06	1.04	1.05	1.02	1.00
500,000	1.18	1.13	1.15	1.11	1.11	1.08	1.08	1.07	1.20
750,000	1.26	1.20	1.21	1.18	1.16	1.13	1.12	1.10	1.33
1.000.000	1.30	1.26	1.25	1.22	1.18	1.16	1.15	1.13	1.43
1,500,000	1.31	1.33	1.26	1.29	1.20	1.21	1.16	1.17	1.57
2,000,000	1.31	1.39	1.26	1.33	1.20	1.24	1.16	1.20	1.67

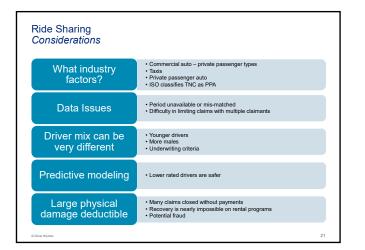




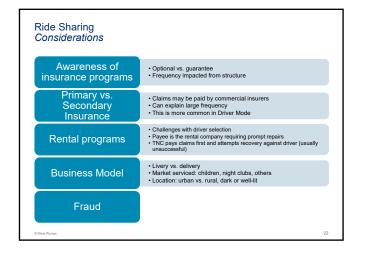




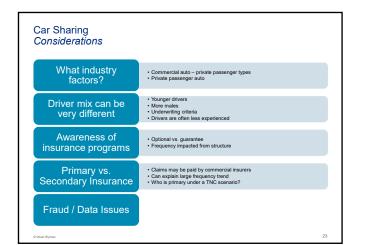




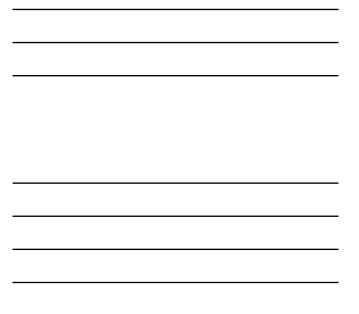


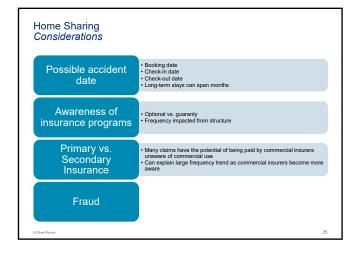




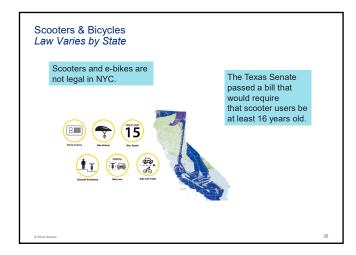


Home Sharing Considerations		
What industry factors?	Homeowners Commercial property General Liability ISO does not separate	
What is considered an insurance claim	Discounted room Coupon for future stay Multiple data sources: TPA, CSR, Legal	
Mix can be very different	Shared bedroom or a castle? Underwriting criteria	
Data Issues	Multiple data sources: TPA, CSR, Legal	
© Diiver Wyman		24











Scooters & Bicycles Considerations	
Current programs cover product liability	Rider's agreement has no rider liability; most riders do not read the agreement Many rider liability claims are reported; some are denied but most do not have enough proof to deny
Current programs do not cover rider liability	Programs are being developed with low limits Frequency of claims is expected to rise
Data collection is minimal	• No data on mileage • Little data on idle time • Little data on location
Current loss control measure	 Restricted speed Night turn-off No sidewalk use (grossly ignored)
Future loss control measure	Helmet use Additional time restrictions Location restrictions
© Oliver Wyman	27



QUALIFICATIONS, ASSUMPTIONS AND LIMITING CONDITIONS	The neurotic for the intercention use of the Queue Hypen and means from the main the neuron tension of the product or another of the product of the Hypen and Hypen An