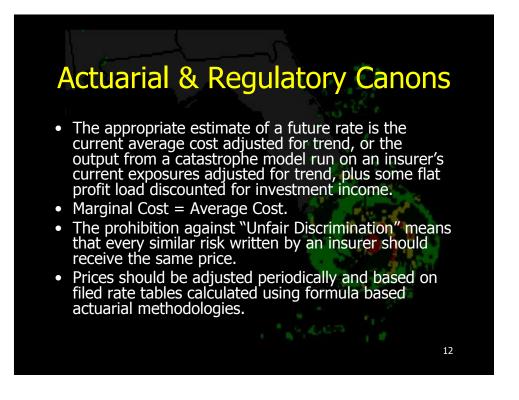




	cial Perspec	cuve
Characteristic	Option A	Option B
Concentration	100 people on one island; 99 uninhabited islands.	1 person on each of 100 islands.
Expected Cost	1 out of 100 years a storm hits the inhabited island, 1 house per year.	Every year a storm hits 1 island, 1 house per year.
PML	100 houses.	1 house.
Labor and Material Reserve	100 houses.	1 house.
Idle Resources	High.	Low.
Economic Efficiency	Low.	High.
Cost of Insurance	High.	Low.
Mitigation Urgency	High.	Low.
Other Costs	Low.	High.

5

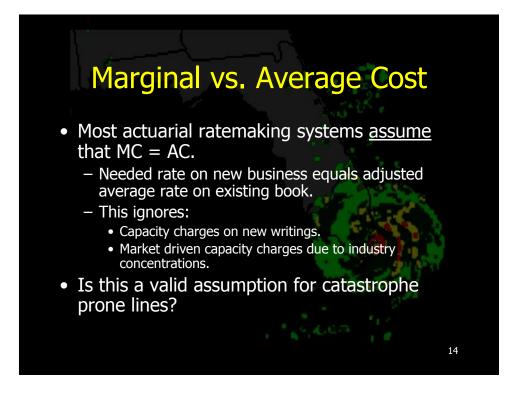


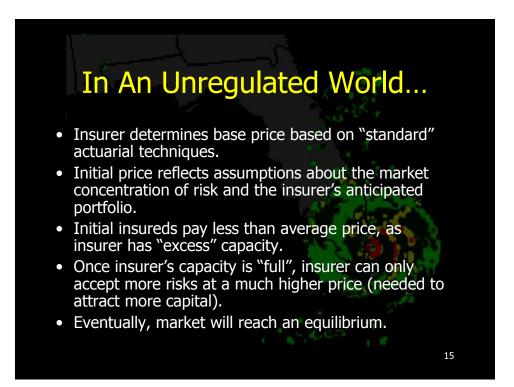


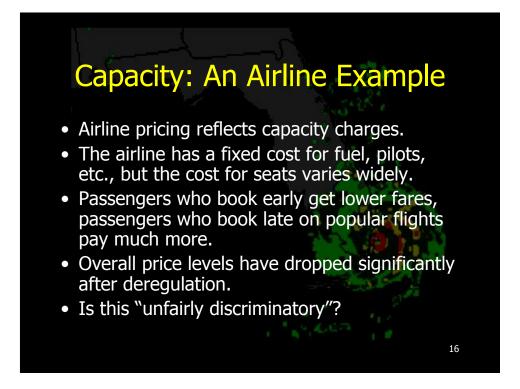
13

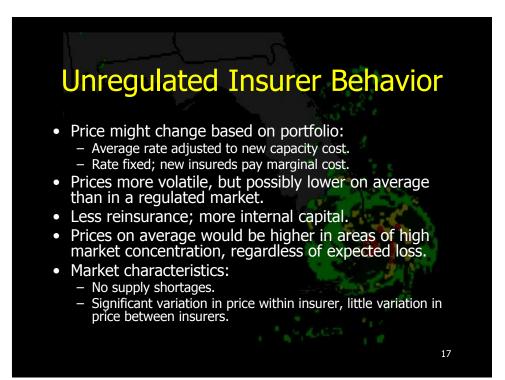
## But In Cat Prone Lines...

- The appropriate estimate of a future rate should be based on the insurer's future distribution of risks, which may not reflect its past book of business.
- Marginal Cost ≠ Average Cost.
- Risks should be charged based on their marginal cost of capital (how much capacity they consume), <u>which</u> <u>will differ for every risk based on when they enter the</u> <u>portfolio</u>. Similar risks may pay different prices.
- Rates should be adjusted continuously, based on actuarially indicated rates adjusted for capacity charges.



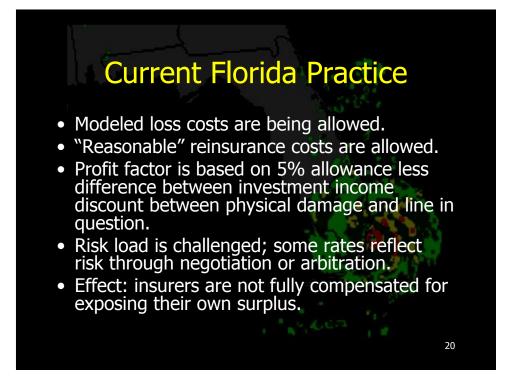












OR Karing Office of Inter Kevin	LOF INVESTMENT INCOME 85 ancial Services, Office of Insurance may be used in rate fillings. Insurers lie to concluse credite confit and
http://www.fldts.com/companies/Memoranda/	
LINE OF BUSINESS ALLIED LINES (INCLUDING GLASS)	2003 P & C FACTOR 3.4%
BOILER & MACHINERY	0.7%
BURGLARY & THEFT	3.4%
COMMERCIAL MULTIPLE PERIL (BUSINESS OWNERS)	-1.4%
COMMERCIAL AUTO LIABILITY	-2.2%
COMMERCIAL AUTO PHYSICAL DAMAGE	4.8%
CREDIT	4.1%
EARTHQUAKE	3.6%
FARMOWNERS	3.7%
FIDELITY	0.7%
FINANCIAL GUARANTY	-1.8%
FIRE	3.5%
HOMEOWNERS	3.5%
INLAND MARINE	3.5%
MEDICAL MALPRACTICE - CLAIMS MADE	-9.7%
MEDICAL MALPRACTICE - OCCURRENCE	-18.6%
MORTGAGE GUARANTY	-1.6%
OTHER LIABILITY - CLAIMS MADE	-6.0%
OTHER LIABILITY - OCCURRENCE	-9.8%
PERSONAL LIABILITY	-6.0%
PRODUCTS LIABILITY - CLAIMS MADE	-15.8%
PRODUCTS LIABILITY – OCCURRENCE	-13.8%
SURETY	2.9%
If you have any questions, please contact Sri Ramanujam, Actuary, Bureau of P	roperty and Casualty Forms and

Example					
	Auto	Direct HO	Reins. HO		
E(x)	1,000,000	1,000,000	100,000		
PML	1,500,000	10,000,000	600,000		
Capital Req.	500,000	9,000,000	500,000		
Cost @10%	50,000	900,000	50,000		
Reins. Cost	0	0	2,310,000		
Needed Rate	1,050,000	1,900,000	2,460,000		
Allowed Rate	1,050,000	1,050,000	2,460,000		
Allowed ROE	10.0%	0.6%	10.0%		
Assumes no expenses a	and no investment incom	e.	1 . C		

Reins. Cost for reinsured example = E(ceded loss) + (15% \* Capital). Higher due to frictional costs. 22

