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GLOBALY REPUTABLE MODEL



SUSTAINED LOW PRICES

Less Than

\$ 25

IMPROVED PENETRATION

Erom

%4 to %52

STRONG RESERVES

Over

\$ 1,5 billion

INCREASED PUBLIC AWARNESS

Over **90%**

Brand and Product

Recognition

RELEASE ON NATIONAL BUDGET

\$3,5 billion

Claim Payment Capacity

LOW OPERATIONAL COST

Less Than

2 %

MARKET DEVELOPER

2nd LOB

9,2 million Eartquake

6,3 millon Homeowner

Policies

EFFECTIVE PUBLIC -PRIVATE PARTNERHIP STRUCTURE

Has Become

Globaly Reputable Model



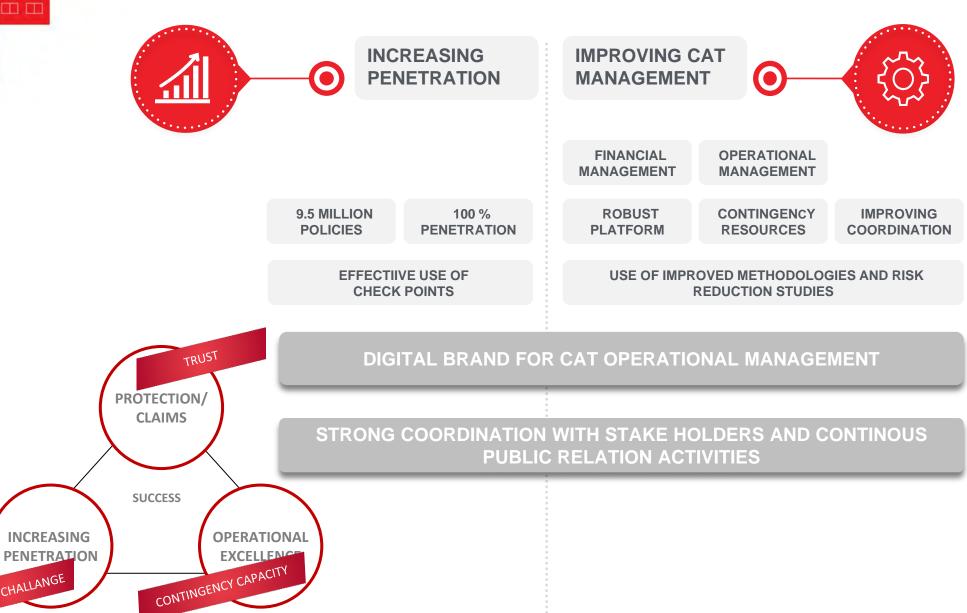


GLOBAL CHALLANGE

TCIP IN HORIZON



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NEW UNDERSTANDING IN CAT MANAGEMENT



CAT RESPONSE PLAN

START

PR AND COMMUNICATION

EARLY ASSESMENT – FINANCIAL ANALYSIS

APPOINTMENT

COMMUNICATION WITH PARTNERS

COORDINATION WITH FINANCIAL INSTITUTIONS

COORDINATON WITH PUBLIC OFFCICES

FOLLOW UP

LOSS ASSESMENT / CLAIM MANAGEMENT

EARLY LOSS ASSESMENT

NOTIFICATION

ADJUSTER LOGISTICS

ADJUSTMENT

VALUATION

OPERATION MANAGEMENT

APPROVAL

PAYMENT

REPORT/COMPLAIN/PERFORMANCE MANAGEMENT

Critical Discussion Point: Response plans /
 Emergency Plans without enough resources

 Individual corporate / public planning based on same resources is illusionary capacity

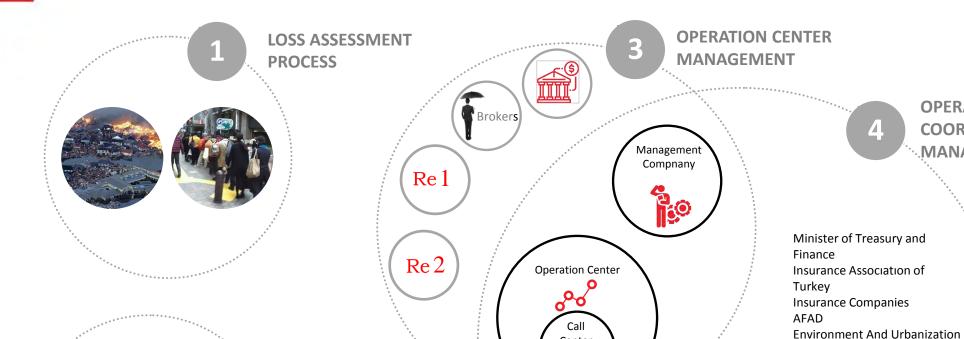
- 3 Pillars in TCIP's Philosophy:
 - Robust platform

RESOURCE MANAGEMENT

- Contingency capacity
- Scenario based Cat Response Plan

COMPLEXITY IN CAT OPERATIONS





Center



LOSS ADJUSTING MANAGEMENT

Loss Adjusters Executive Board
AKOM
Governorates, Municipalities and Local Authorities
Call Centers
Transportation Companies
Telecommunication Companies
Catering Firms

TOBB

OPERATION

COORDINATION

MANAGEMENT

Catering Firms
Hotels
Security Firms
Cargo and Courier Firms
Mobil Banc Transactions

COMPLEXITY IN CAT OPERATIONS



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OPERATION CENTER MANAGEMENT PAYMENTS 2.200.00

Re 1

Brokers

OPERATION COORDINATION .MANAGEMENT

ADJUSTERS 3.000

CC AGENTS

REPORTS 2.700.000

LOSS ADJUSTING MANAGEMENT

NEW METHODOLOGIES IN CAT MANAGEMENT



NEW GUIDELINES

SMART TRANSACTIONS

- Opening mass number of claim files for catastrophic EQ events without loss notification
- Loss adjuster appointment for each block collectively for mass number of claim files.

MULTI LEVEL LOSS ASSESSMENT

MULTI LEVEL NOTIFICATION & LOSS

ADJUSTER APPOINTMENT

- Building Assesment: Simple methodology for assessment of EQ caused structural damage, developed with Universities
- Claim Adjsument: Loss assessment of insured dwelling and common block area damages collectively for indemnification.

MULTI LEVEL OPERATION

 Management of some field operations by authorized professionals, for catastrophic EQ events.

- All processes about policies and claim files may be done by Insureds over web, mobile or IVR without contacting call center.
- No documents requested for loss and property ownership unless necessary.

SIMPLE & EASY INDEMNITY PAYMENT

 Just with personal ID from branch of Banks

LOSS CATEGORISATION SOFTWARE

• Simple methodology for assesment of EQ caused structural damage

NEW MODELS

• Standardized structural damage assesment

MOBILE LOSS ASSESMENT

- Simple and rapid claim assessment and data transfer
- Standardized loss asessement

LOSS STANDARDISATION SOFTWARE

- About 22K cost recipes.
- Centralised cost control.
- Loss value will be calculated by software.

- Tradiitional model and methodologies are not effective in Cat Management
- Every event brings new learnings to cat management.
- Continues learning and development
- There is no single operating model but multi level models
- Aftershock may create bigger operation
- Technology is a must

DIGITAL CAT MANAGEMENT PLATFORM







UPCOMING PROJECTS

- Integrated Crisis management
- Improving coordination & integration with Government Stakeholders
- Defining procedures to evaluate claim files the fastest way possible and creating contingency operational resources.
- TARGET: Examine and conclude a loss file in ONE MINUTE

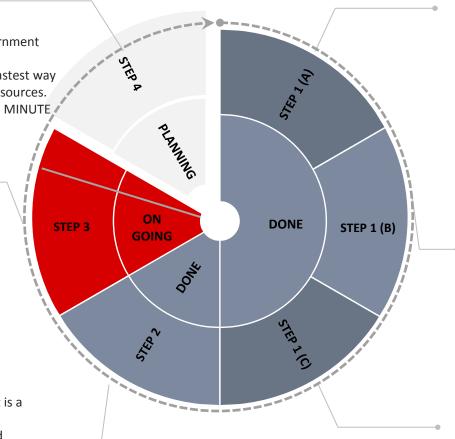
CONTINGENCY OF LOSS ADJUSTER RESOURCE & NATIONAL LOSS ASSESSMENT METHODOLOGY

- Using technical staff of the Ministry of Environment and Urbanization incase of a big earthquake.
- Common methodology for building loss adjustment among the institutions who are on the field after an earthquake.



DISASTER CALL CENTER

The Disaster Call Centre project is a model study made for an earthquake, the time, place and scale of which are uncertain but the loss effects of which are not possible to be ignored



CLAIM MANAGEMENT IT STRUCTURE

• Disaster Management System (AYS) software which was started to be developed in 2014, were put into practice as of 2016

NAT CAT MANAGEMENT SYSTEM (ARYS)

• For purposes of facilitating the operations management and planning efforts, a multi functional decision support system has been developed.

MOBILE LOSS ASSESSMENT **APPLICATION**

- Loss assessments to be made solely through the Mobile Loss Assessment Application in the upcoming period
- For rapid claim assessment, a simple methodology developed for determining structural damages
- To control costs centrally 22K cost recipes loaded into the software







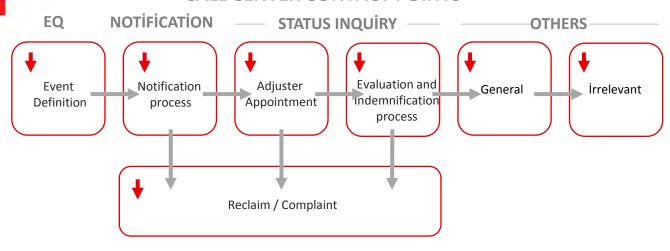




STUDYING CUSTOMER JOURNEY



CALL CENTER CONTACT POINTS





- Determination of Project Scope and TCIP Claims Process
- Evaluating the Current Claims Process and Mapping the impact of the possible Istanbul EQ including Aftershock effect
- Modelling of Call Operations (Call Groups, Channels, Re-call Characters) for defining Call Center Capacity
- Identification of 8 Candidate Call Center Companies
- Evaluation of operational tender model of Candidates including Competence and Capacity Assessment
- Design of Disaster Call Center (including Post EQ Contingency) with candidate companies
- Assessment of Contractor, Final Set-up of Contingent Operational Model

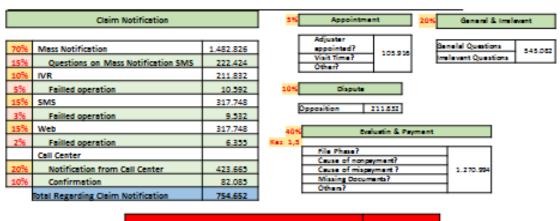








MODELLING



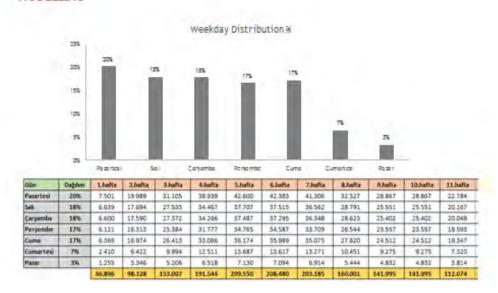
Total Call Load

EQ calls and Aftershocks calls = 2.888.476+971.823

3.860.299

Distribution of Call Load on each weekday is calculated according to analysis of different previous EQ calls.

MODELLING

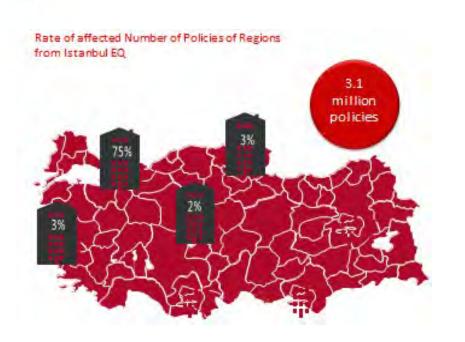


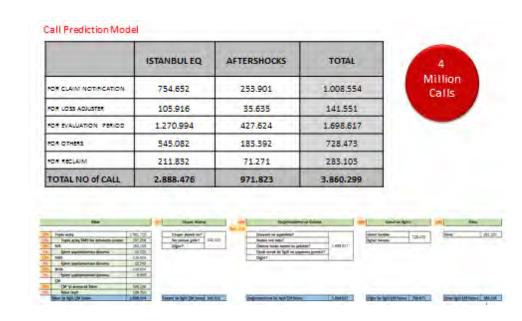
Total Call load is calculated with assumptions on which phase the policy owners may call DASK. (Aftershocks call load is calculated as 971K being effective from the 6th week after EQ)



DISTRIBUTION ESTIMATE OF COMMUNICATION







- At Marmara Region, affected number of policies are calculated on district detail for Istanbul and on city detail for the others, for the total affect on policies
- At Aegean region Balikesir, at center Anatolia region Eskişehir, at Black Sea region Düzce and Bolu are assumed to be affected.
- Each policyholder has an average of 1.47 policies according to the policy data
- Modelling is made with the number of policyowners to be affected calculated with this average
- Number of policies to be affected: 3.1 million, number of policy owners 2.2 million (as of June 2016)

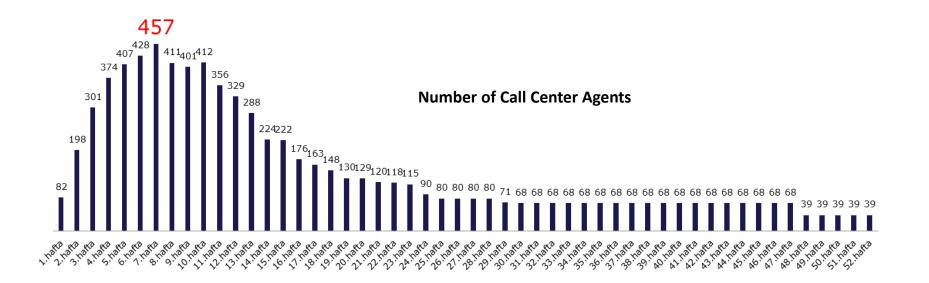






- For calculated call center capacity, 8 candidate Call Center Companies are identified and invited for tender
- Operational tender model of candidates are evaluated at two rounds
- Competence and Capacities Assessed

- Re-design of Disaster Call Center (including Post EQ Contingency) with candidate companiess
- Assessment of Contractor, Final Set-up of Contingent Operational Model

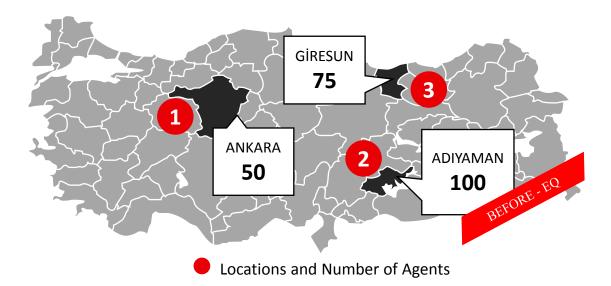






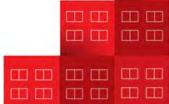


Call Dask125 Call Center & IVR infrastructure integrated with TCIP Cat Management System





- 225 Agents Ready to get calls the day after EQ
- 3 Different Cities with different EQ Risks,
- Locations are ready including seats, lines and integration with TCIP infrastructure
- 457 Agents will be getting calls after 7 weeks
- During the 7 weeks after EQ, another city location will get in line and one of the onduty of three will leave.
- Design of Cat Call Center (including Post EQ Contingency)
- Final Set-up of Operational model & Operation Centers with Contractor



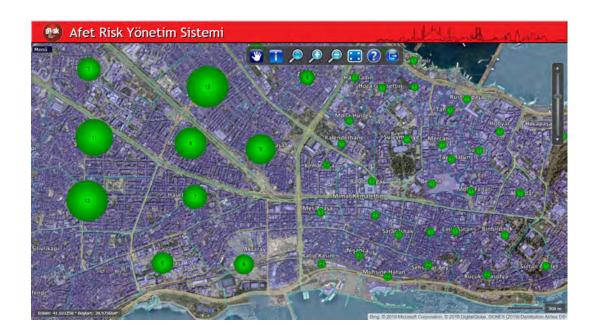


ASSESMENT/MODELLING OF CLAIMS ADJUSTERS

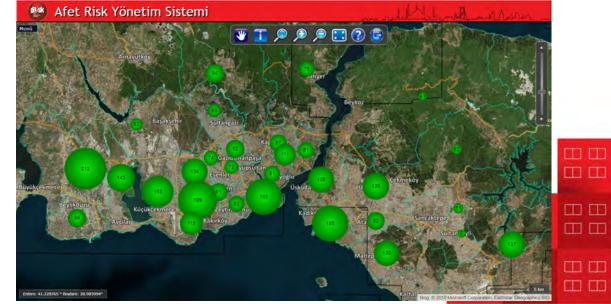


 In case of a Istanbul Earthquake about 3.000 loss adjusters will be needed to manage the operations on the field

- Thinking of insurance sector loss adjuster capacity, it is a must to create contingency capacity for claims adjustment
- Strategic Partnership Agreement with Ministry of Environment and Urbanization







SUPPLYING CONTINGENCY CLAIMS ADJUSTERS









Ministry of Environment & Urbanisation



- Collaboration for raising earthquake awareness
- TCIP's biggest supporter at local
- Common methodology for assesment of structural EQ damage



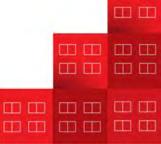
- Control point in policy production
- Integration in claim payment
- Aerial fotography taking following an earthquake



- Provide contingency loss adjusters ifor n case of a cat event
- True-Orthophoto Project



 Integration between UAVT ve MAKS





OPERATIONAL WORK LOAD ASSESMENT/MODELLING

- Deigning the process
- Use of technology

- Projected assesment time
- Work load assesment parameters
 - House/building
 - Structural assesment duration
 - Adjustment duration
 - Hight of building
 - Severity of damage
 - Geaography covered
 - Projected









| Latest Earthquake and New Apllications/Methodologies

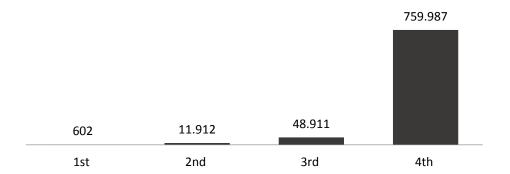




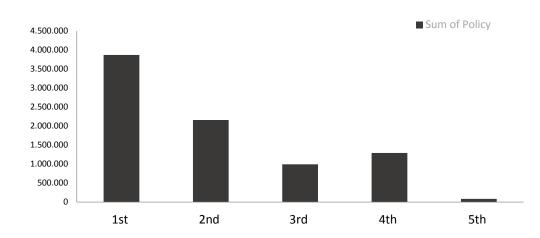
- Need for risk based pricing, rather than only hasard based pricing
- Changing risk factors

- Confusion in application of the tarif/location/hazard map
- Limited span of pricing
- Structural problem of pricing matrix
- Need for use of improved loss models

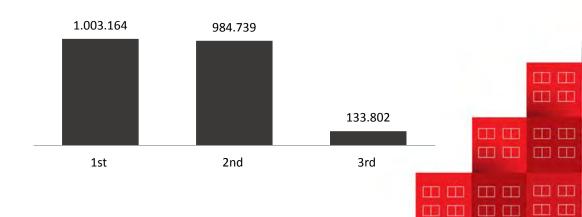
ANKARA



POLICY DISTRUBITION BASED ON CURRENT TARIFF



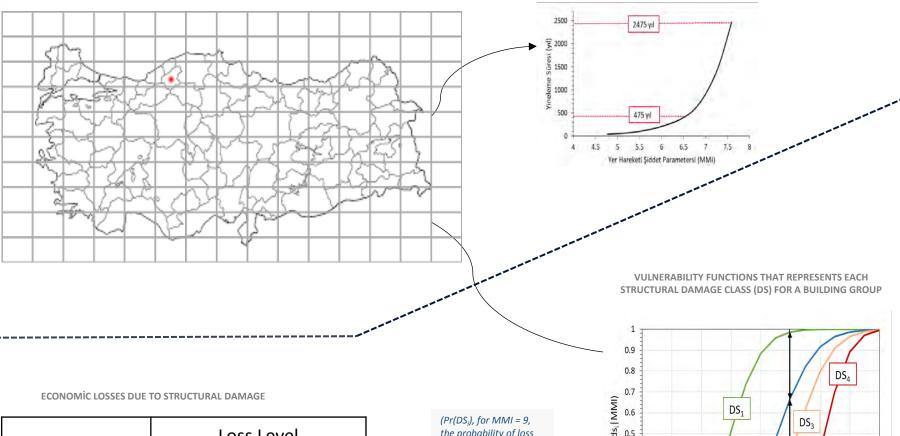
ISTANBUL



USE OF IMPROVED/INTELLECTUAL MODELS







	Loss Level				
	DS ₁ DS ₂ DS ₃ DS ₄				
Reconstruction	5.0	5.6	5.0	D.C	

 RC_1

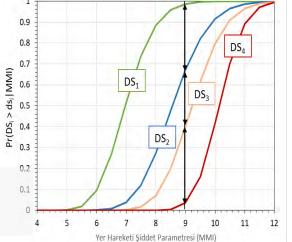
 RC_2

 RC_3

 RC_4

the probability of loss levels occurrence inc. DS₁, DS₂, DS₃ and DS₄

DS1: Light Structural Damage DS2: Moderate Structural Damage DS3: Heavy Structural Damage DS4: Collapse



Rate





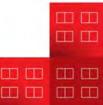
			GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5
1-3 Elgor		Pre-1975	2,37	1,22	0,8	0,46	0,17
	1-3 Floor	1976-1999	1,68	0,93	0,63	0,38	0,14
CRET		Post-2000	1,56	0,9	0,61	0,37	0,14
ONO		Pre-1975	3,14	1,72	1,14	0,67	0,25
ED C	4-7 Floor	1976-1999	1,61	0,9	0,62	0,37	0,14
ORC		Post-2000	1,58	0,9	0,61	0,37	0,14
Floor 4-7 Floor 8-18 Floor	Pre-1975	3,61	1,79	1,12	0,62	0,21	
		1976-1999	2,02	1,06	0,7	0,4	0,14
	Post-2000	2,07	1,09	0,71	0,4	0,14	
	Pre-1975	2,16	1,12	0,73	0,43	0,16	
	Less than 2	1976-1999	1,24	0,69	0,47	0,29	0,01
More than 3 floor	Post-2000	0,42	0,19	0,11	0,06	0,02	
	Pre-1975	4,66	2,91	2,06	1,31	0,54	
	than 3	1976-1999	3,85	2,32	1,63	1,03	0,42
	Post-2000	0,56	0,23	0,14	0,07	0,02	

- Except the ones built before 1975, the pure premiums of low and mid-rise buildings are very similar
- Pure premium of high rise buildings higher than the pure premium of low and mid-rise buildings

OLDER BUILDING

HIGHER BUILDING

- For high rise buildings there is no important difference between 1976-1999 and post-2000.
- Pre-1975 buildings have the highest risk
- There is not enough information about masonry buildings built after 2000.





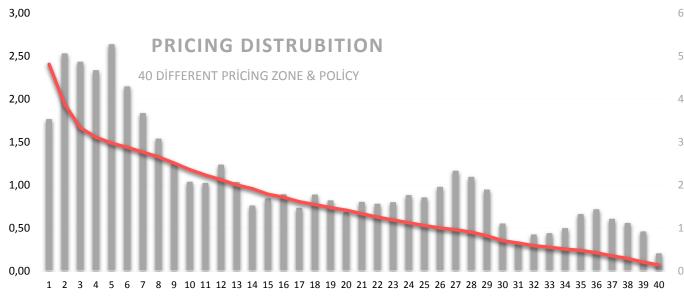


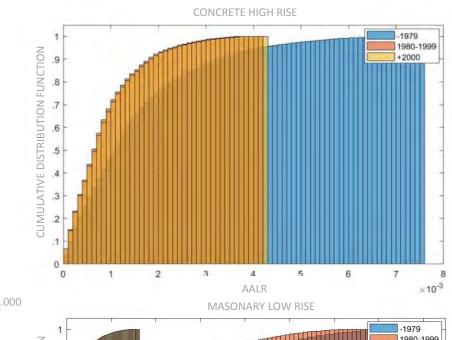
MORE INSIGHTS IN DETAILS

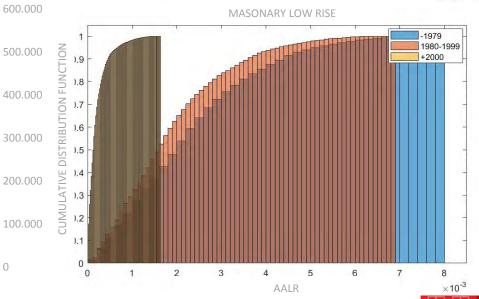
TURKISH NATURAL CARASTROPHE HISURANCE POOL

- To create simple/clear/marketable pricing structure
- To find anomalies occurring because of sample size
- To find accumulation spots

- To find best match between technical pricing and portfolio distribution
- To find smoth transition areas













	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
PURE RATE	1,78	1,49	1,04	0,73	0,53	0,3	0,15
SAFETY MARGIN		-	-	-	-	-	-
ACQUISISTION COSTS	-	-	-	-	-	-	-
OPERATIONAL COSTS	-	-	-	-	-	-	-
R/I COST	-	-	-	-	-	-	-
COMMERCIAL RATE	2,35	1,97	1,51	1,13	0,79	0,52	0,33

- Calculations made assuming that the rates will remain in force for 5 year.
- Exposure/policy based projection method
- %72 of TCIP's portfolio in 1. and 2. risk zones.
- Only %1 of portfolio in 5. risk zone.
- In new tariff, %42 of portfolio in 1. and 2. risk group.
- Better distribution of policies





LOADING AND STRUCTURING NEW TABLE



	NEW RATES								
	GROUP 1	GROUP 1 GROUP 2 GROUP 3 GROUP 4 GROUP 5 GROUP 6 GROUP 7							
REINFORCED CONCRETE	2,35	1,97	1,51	1,13	0,79	0,52	0,33		
Δ	19%	31%	33%	43%	52%	59%			

	CURRENT RATES					
	ZONE-1	ZONE-2	ZONE-3	ZONE-4	ZONE-5	
REINFORCED CONCRETE	2,20	1,55	0,83	0,55	0,44	
Δ	42%	87%	51%	25%		

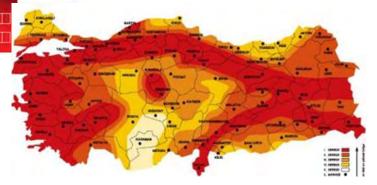


- The transition of rates between risk zones are very rigid in current tariff
- In new tariff, transition of rates more smooth,

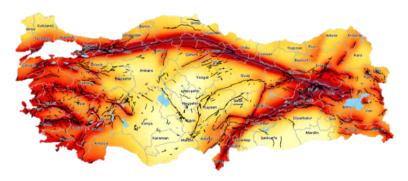


NEW HAZARD MAP & RISK BASED APPROACH

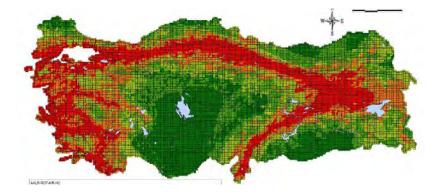




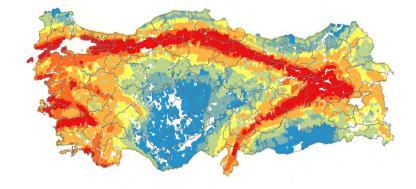
The old Hazard Map 1996 – 5 Earthquake Zone



Updated Turkey's Seismic Hazard Map 2019



New Earthquake Hazard Map with updated building inventory and new building classification – 5 Earthquake Group



New Earthquake Hazard Map with updated building inventory and new building classification – 7 Earthquake Group

- Current tariff rates depends on the old map which is came into effect in 1996.
- The new map was prepared as a part of project entitled "Update of Turkey's Seismic Hazard Map" and carried out in cooperation with public and universities.
- Updating Earthquake Insurance
 Rate Making Mechanism based
 on New Earthquake Hazard Map
 with updated building inventory
 and new building classification
- Transition from hazard based rates to risk based rates

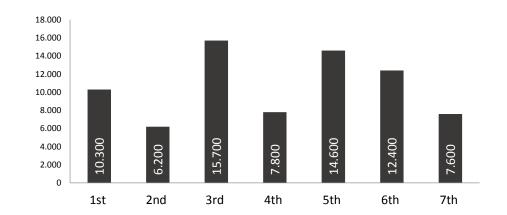




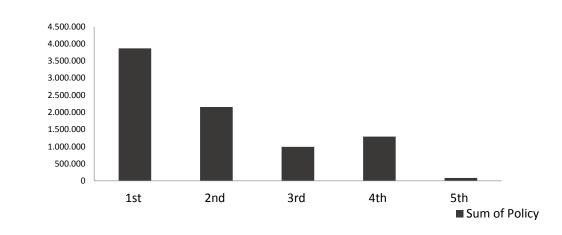
Simple and leaner

- Easy to undertand
- Wider span of table
- More balanced distribution
- Smoother transition
- Better sparsing on he geography

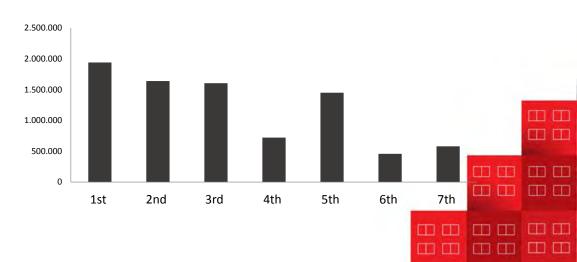
HOMETOWN DISTRUBITION 7 EARTHQUAKE GROUP



POLICY DISTRUBITION BASED ON CURRENT RISK ZONE



POLICY DISTRUBITION BASED ON NEW TARIFF 7 EARTHQUAKE GROUP





LATEST EARTHQUAKE AND NEW APLLICATIONS/METHODOLOGIES

	POLICIES	IN FORCE	0/ A	CLAIM	0/
	25.09.2019 31.10.2019		%∆	NOTIF	%
İSTANBUL	2,312,031	2,430,882	5.1%	10,089	0.44%
TEKİRDAĞ	207,380	213,417	2.9%	192	0.09%
KOCAELİ	271,795	280,593	3.2%	64	0.02%
BURSA	381,048	384,745	1.0%	50	0.01%
YALOVA	66,221	68,098	2.8%	33	0.05%
BALIKESİR	193,384	194,003	0.3%	15	0.01%
SAKARYA	158,436	160,982	1.6%	12	0.01%
KIRKLARELİ	49,075	49,884	1.6%	8	0.02%
MARMARA BÖLGESİ	3,802,036	3,947,500	3.8%	10,463	0.28%









☐ First Fully Digital Loss Assesment

- After est 2.000 cases and calibration process, whole operation is managed on mobile application
- Substantial increase in adjustment performance
- Detailed understanding and reporting of the assessment/adjustment
- Stronger coordination with stake holders

☐ Use Of Emergency Call Center Locations

Successful deployment of emergency call center locations

☐ Use Of Digital Communication Channels

- 59% of calls consumed on IVR
- 7% used internet for loss notification
- 1 used SMS for loss notification
- ☐ Building Based Loss Adjustment Appoinment

