

TECHNOLOGY & POST-TRADING: TRANSFORMATION OF A CENTRAL SECURITIES DEPOSITORY

COMCEC 1st CAPITAL MARKETS REGULATORS FORUM

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AGENDA

- Central Registry Agency (MKK)
- Dematerialized System Software
- Central Securities Depository Services
- MKK Financial Accounts Center
- MKK & Capital Market Statistics
- MKK Investor Services
- MKK Projects
- MKK 2023 : New Depository & Value Added Services



TURKISH CAPITAL MARKETS





MKK

- Central Securities Depository of Turkish Capital Markets
- Established under the provisions of the Capital Market Law
- A private for-profit company
- Manages Investors Protection Fund
- Subsidiaries:
 - Sarajevo Stock Exchange
 - Capital Markets Licensing and Training Company
 - Commodity Exchange



DEMATERIALIZED SYSTEM SOFTWARE

- In-house developed product, e-signature usage
- Web Based Java Application Remote Access
- Secure messaging infrastructure MOM (Message-Oriented-Middleware)
- ISO 27001 Information Security Certification
- Award of merit at the 7th Technology Conference by
 - TUBITAK (Scientific and Technological Research Council of Turkey)
 - TTGV (Technology Development Foundation of Turkey)
 - TUSIAD (Turkish Industrialists' and Businessmen's Association)
- TUBITAK R&D support



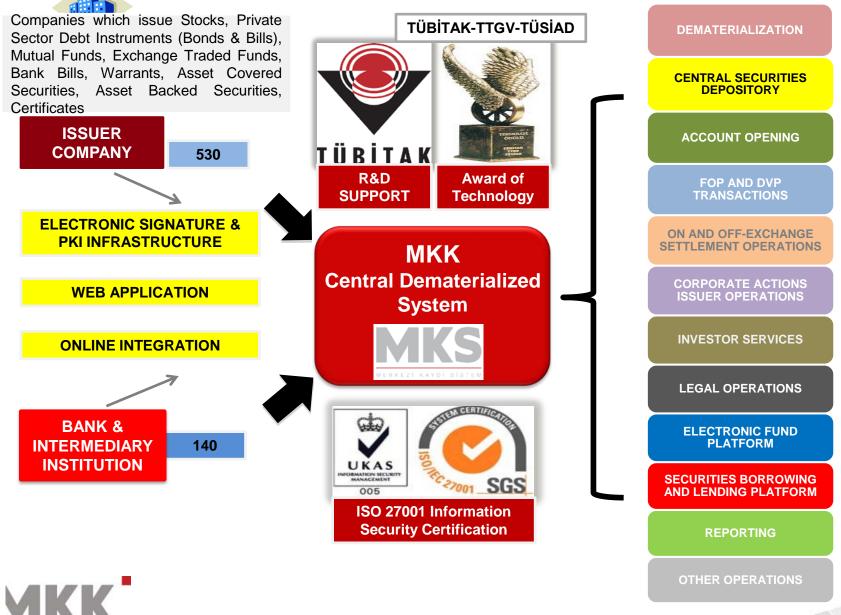








DEMATERIALIZED SYSTEM SERVICES



MERKEZİ KAYIT KURULUSU

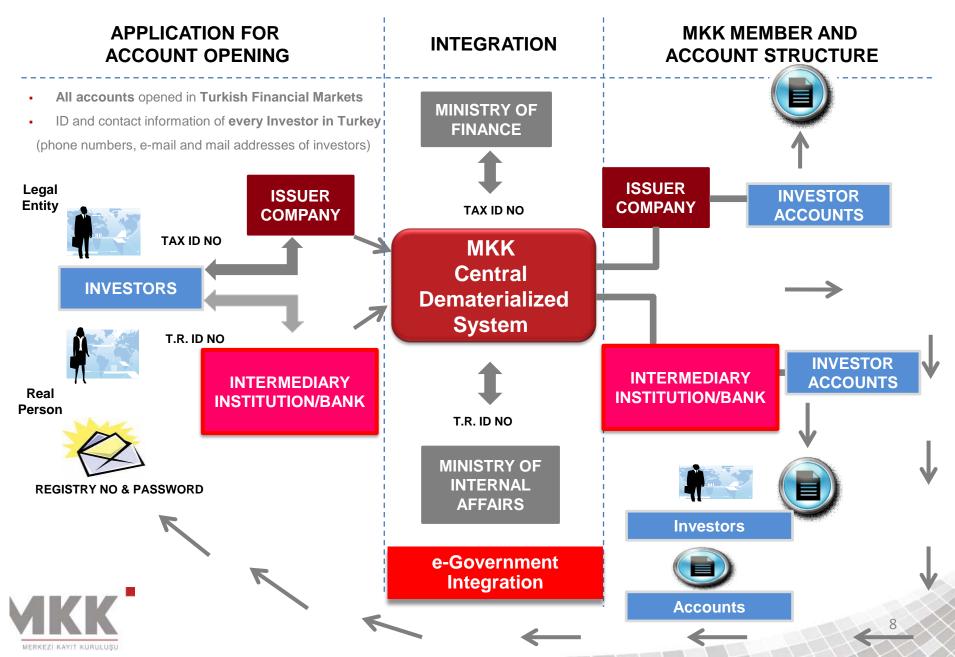
DEMATERIALIZATION PROCESS

SECURITY TYPE	DATE	DEMATERIALIZATION RATE(%)
Stocks	2005-2007	%99,99
Mutual Funds	2005-2006	%99,99
Exchange Traded Funds	2005	%100
Private Sector Bonds	2006	%100
Private Sector Commercial Papers and Bank Bills	2009	%100
Warrants	2010	%100
Asset Covered Securities / Asset Backed Securities	2011	% 100
Government Bonds & T-Bills	2012	% 100
Certificates	2012	% 100

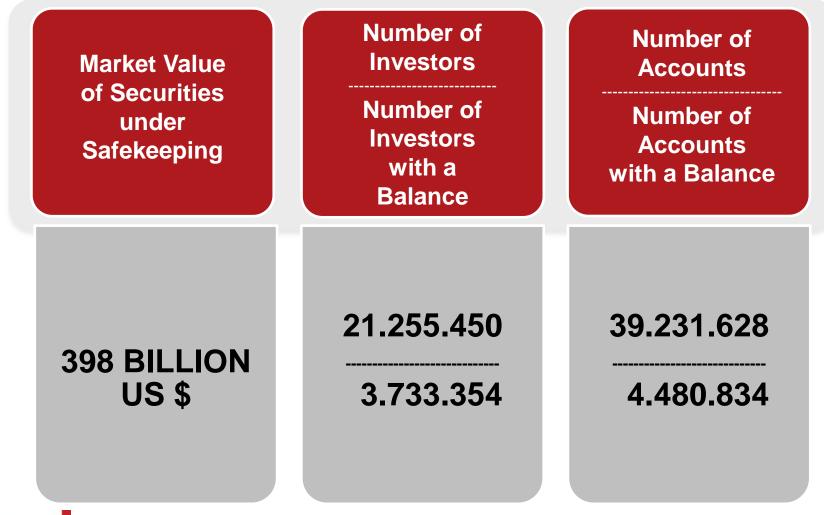


37 million security certificates have been dematerialized.

ELECTRONIC ACCOUNT OPENING



FIGURES (September 2012)

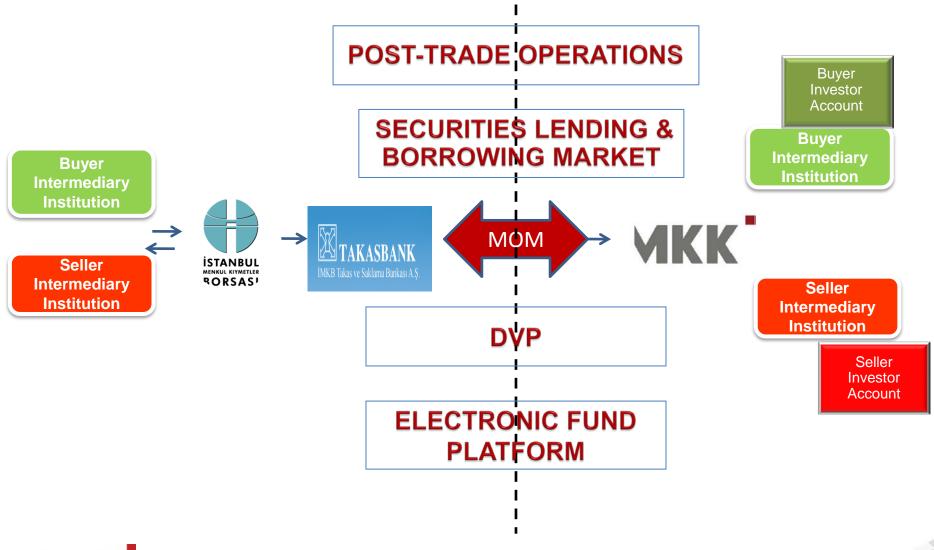




Ow	oreign nership: 64.04 CUSTODY-	SECURITIES (September 2012)	102 bi Non Fre	Float: I. US \$ ee Float: I. US \$
	STOCKS	 1.085.599 INVESTORS 276 BILLION US \$ 		
	GOVERNMENT DEBT SECURITIES	 35.961 INVESTORS 89 BILLION US \$ 		
	MUTUAL FUNDS	 2.927.036 INVESTORS 17 BILLION US \$ 		
	CORPORATE BONDS	 200.366 INVESTORS 14 BILLION US \$ 		
	EXCHANGE TRADED FUNDS	 3.982 INVESTORS 211 MILLION US \$ 		
	WARRANTS	 1.564 INVESTORS 3.3 MILLION US \$ 		
	ASSET BACKED SECURITIES	 65 INVESTORS 517 MILLION US \$ 		
	CERTIFICATES	 13 INVESTORS 56.000 US \$ 		

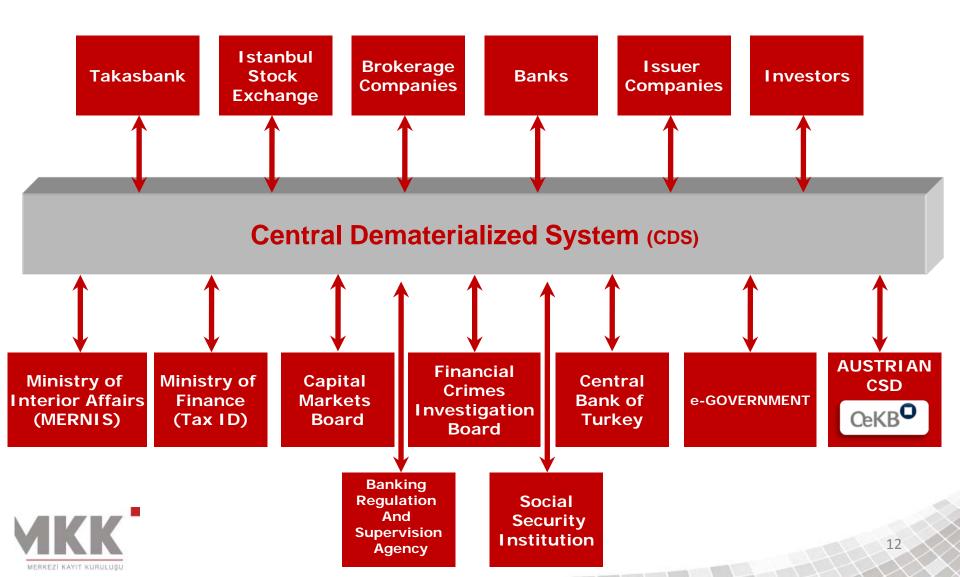
MRKK

MKK-TAKASBANK INTEGRATION

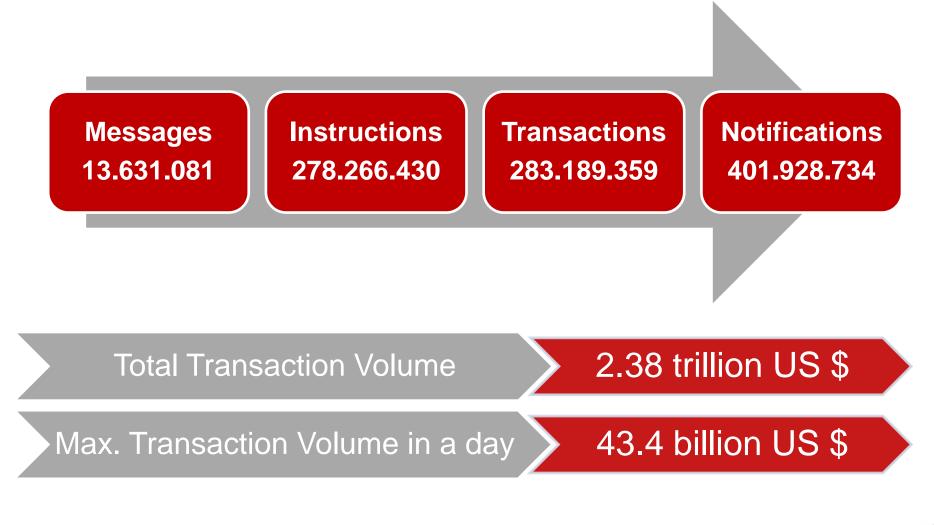




INTERACTION WITH MAJOR PLAYERS



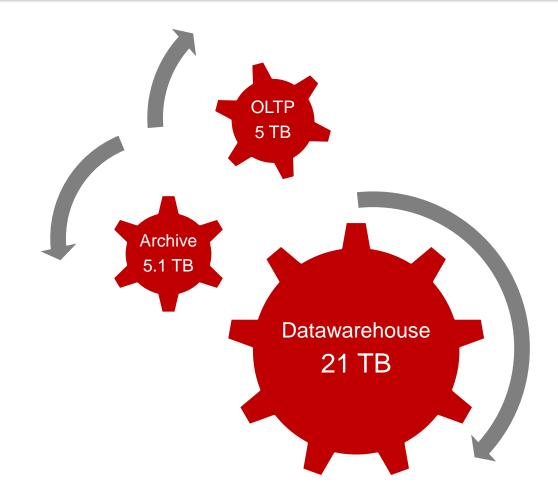
MKK in NUMBERS (in 2011)





DATA in NUMBERS (2011)

Max 1.455 transactions in OLTP DB per second





IFC PROJECT & MKK

- Action No: 49 "Electronic General Assembly" (Responsible Institution)
- Action No: 48 "Electronic Fund Trading Platform" (Joint Responsibility with Takasbank)
- Cooperating institution for 22 Actions.



MKK 2023

- Minimized Core Business Revenues (Maximizing Industry Benefits)
- Maximized Ancillery Service & Value Added Service Revenues (50%)
 - Data/Information Vendoring
 - Financial Information Services
 - Investor Services
 - Commodity & Capital Market Integration
- Innovative IT Services & Software Development
- New Value Added Services to utilize information capacity
- Integration,Cooperation and Partnerships with Europe, Middle East, North Africa and Turkic Republics counterparties to complete the post-trading chain from West to East



RECENT AND FUTURE PROJECTS

- e-GOVERNANCE: Corporate Governance & Investor
 Relations Portal (TUBITAK R&D Support) (January 2013)
- e-GENERAL ASSEMBLY (Electronic General Assembly)

System) (TUBITAK R&D Support) (- October 2012)

- e-CAS: Investor Notification and Alert System(-October 2012)
- Corporate Actions Automation (- September 2013)
- e-COMMODITY: Electronic Warehouse Receipt Center

(-November 2012)

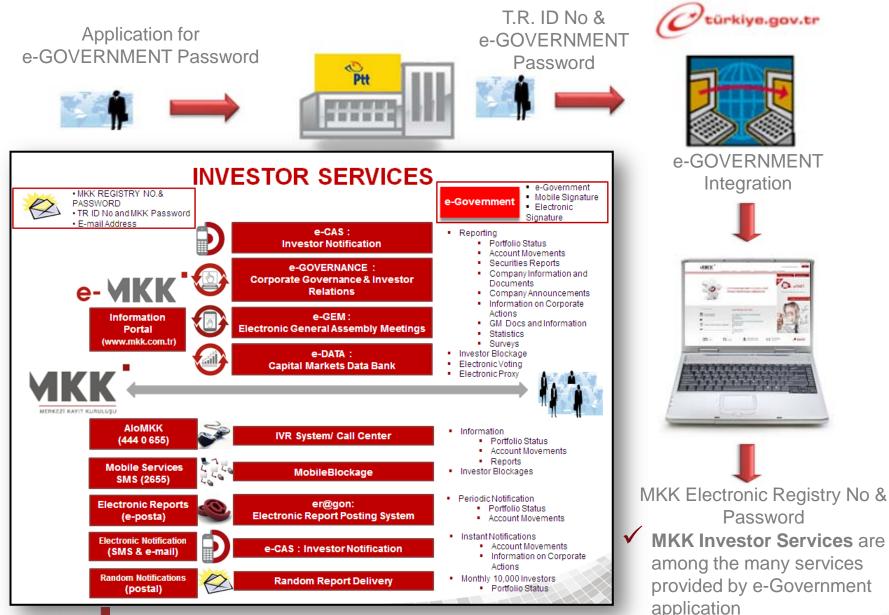


RECENT AND FUTURE PROJECTS

- e-DATA: Capital Markets Data Bank (2013-2014)
- e-COMPANY: Companies Information Portal (2013-2014)
- Integration with the National Judiciary Informatics System (UYAP) (- 2013)
- Integration with the Turkish Company Registry Number System (MERSIS) (2013-2014)

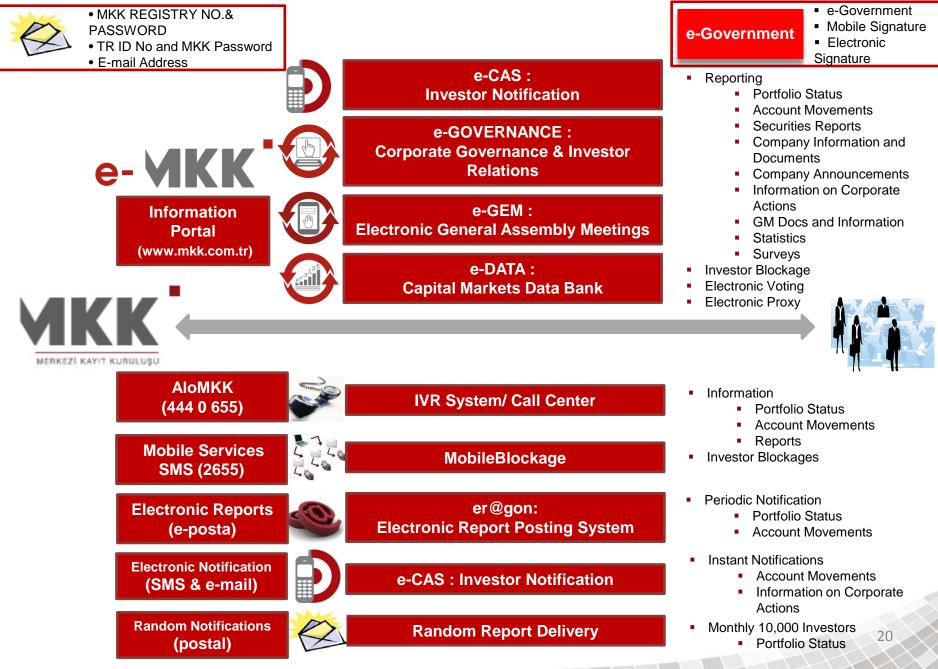


e-GOVERNMENT INTEGRATION





INVESTOR SERVICES



About Us Participant S	Services Information Center Investor Services	Türkçe English Enter a keyword
	Public Companies Reaching all Shareholders	e-AK Central Registry Agency Information Platform
000		2
		Corporate Governance and Investor Relations
News and Developments	Genel Mektup Duyuruları	ELECTREMALY AL
 First issuance of certificates MKK continues to support capital markets stake holders by making a new discount in its fees. CRAweb Investor Module Has Been Transferred To The e-GOVERNANCE Corporate Governance And Investor Relations Portal. 	MKS Uygulama Düzenlemeleri Hakkında Bilgilendirme Genel Mektup 606 - 07 Eylül 2012 Sertifikalara İlişkin Uygulamalar ve Ücretlendirme Genel Mektup 605 - 07 Eylül 2012 MKK Elektronik Genel Kurul Sistemi Uygulamaları	e-GENERAL ASSEMBLY Electronic General Assembly System
 Studies With ELIDAŞ Have Started For The Conversion Of Cotton Commodity Certificates Into Electronic Commodity Certificates. 	Genel Mektup 604 - 31 Ağustos 2012	Capital Markets Data bank
		INVESTORS

MKK Central Registry Agency

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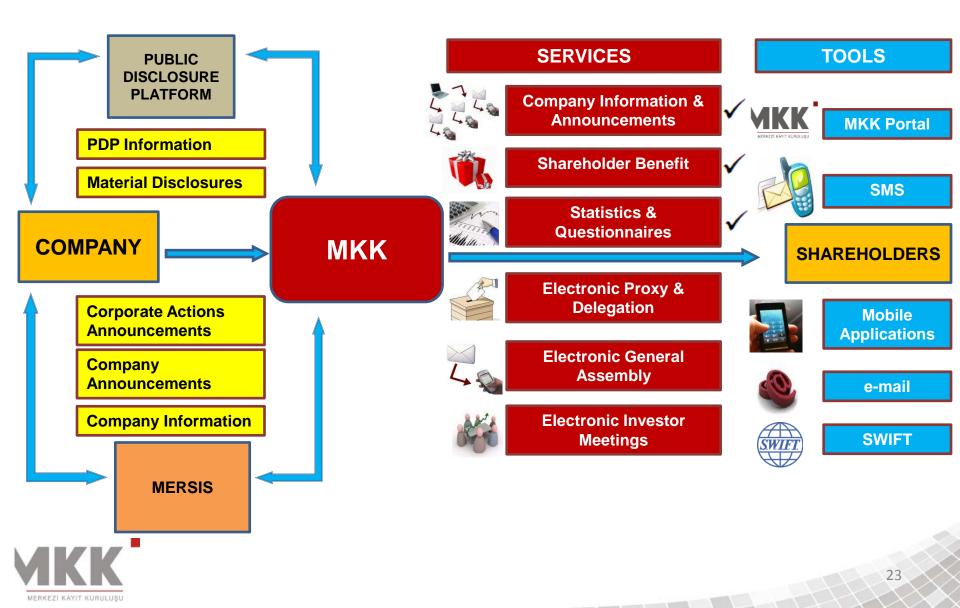


- Mobile Corporate Governance Project which is a platform to enhance corporate governance and investor relations and develop transparency and information access for market participants
- Communication bridge between companies and shareholders
- Continuous information exchange between shareholders and companies through internet, e-mail and mobile applications
- Enables companies to reach their shareholders directly
- Enables shareholders to access information on companies easily and completely
- Investor Information Center
- TUBITAK R&D support





e-GOVERNANCE: Corporate Governance & Investor Relations Portal



e-GENERAL ASSEMBLY Electronic General Assembly System (e-GEM)

- Full disclosure of general assembly meeting information instantly
- Obligation for all ISE Listed Companies from October, 2012
- Live broadcast of General Assembly meetings with English Language Option
- Shareholder participation to General Assembly meetings by remote access and mobile applications through the MKK Portal
- All operations on a single point with electronic signature
- Electronic Proxy Assignment
- Electronic Voting Registration & Instruction
- Electronic Voting Services
- Offering of suggestions and expression of opinions through internet
- Informing all stakeholders instantly on transactions
- TUBITAK R&D Support







e-GEM – Electronic General Assembly System

- e-GEM provides general meeting services for investors, custodians, intermediaries and issuers.
- Custodians and intermediaries can manage proxy voting on e-GEM.
- Shareholders can appoint their local brokers or any other parties via e-GEM.
- Investors can manage their votes and attendance choices from the meeting list.
- e-GEM is an operational portal bu also is a hub to all relevant data gathered from the Turkish market.
- Investors can watch meetings concurrently and express opinions, ask questions and vote on-line on e-GEM.
- Shareholders can register their votes prior to the general meeting with the opportunity to change their votes during the general meeting.
- Meeting documents, audio-visual records and voting results will be electronically archived.



e-GEM – Electronic General Assembly System

e-GEM removes present barriers to cross-border proxy voting

- Share Blockage is removed
- No PoA requirement when giving proxy to local custodian
- Partial & split voting is allowed
- Timely and accurate access to proxy materials
- Information and disclosure barriers are removed:
 - Instant notification via SMS and e-mail→ Following each operation carried out on e-GEMS all related parties are informed by a notification (Portal / SMS / email) instantly.
 - Voting results are sent to investors via SMS/e-mail.
 - With the introduction of corporate action automation project, custodians are expected to receive General Meeting announcements via SWIFT (ISO15022) – Q4 in 2012.
 - Integration with Public Disclosure Platform will be achieved by 2014.



e-GEM Investor Screen

2 Top	lis ve Baskanlik Divaninin Tesekkülü vlanti tutanaginin imzalanmasi konusunda divana yetki verilmesi
	vlanti tutanaginin imzalanmasi konusunda divana yetki verilmesi
3 Yö	
	netim kurulu faaliyet raporu ile denetçi raporlarinin okunmasi
4 Bag	jimsiz dis denetçi raporunun okunmasi
5 Bila	nço ve kar/zarar hesaplarinin okunmasi, müzekkeresi ve tasdiki
6 Yör	netim Kurulu ve Denetim Kurulu üyelerinin ibra edilmeleri
7 Kar	dagitim tablosu teklifinin görüsülerek kabulü veya reddi
8 Yör	netim Kurulu ve Denetim Kurulu üyelerinin ücretlerinin tespiti
9 Yör	netim Kurulunca atanan bagimsiz dis denetim kurulusunun onaya sunulmasi

Madde İçerik Madde No

Süre 00:00 Durum

Görüş İletim Alanı

Görüş: 1/2 Kalan Karakter : 600 Başkanlık divanı için önerim aşağıdadır Oy İletim Alanı Oy Oranı İtibari Değer Grup Toplam Kabul Toplam Ret



Genel Kurul Akış Metni

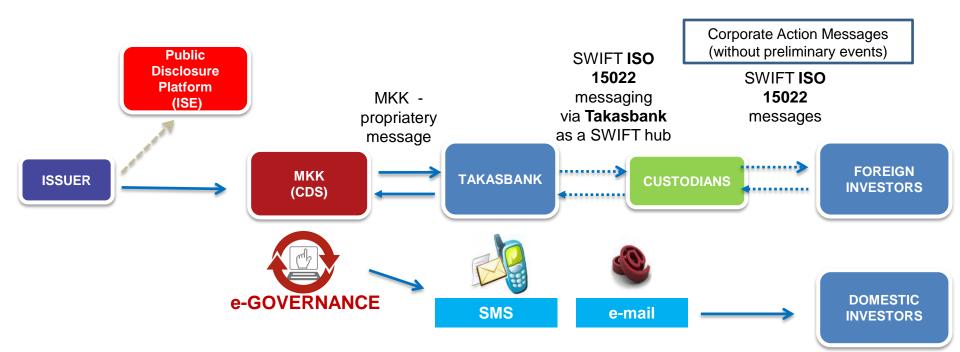
Genel Kurul toplantsı başlamıştır 1 Nolu gündemin görüşmelerine başlandı



- Notification of Investors via SMS & e-mail instantly
- Activates whenever a transaction on their accounts is made
- Real time notification of investors on possible errors and fraudulent attempts that take place on their accounts.
- Decreases possible individual or systemic risks
 - Notification Phase: Notification is made after the transaction is completed.
 - <u>Blocking Phase:</u> Transaction is not completed unless the investor subscribes to e-CAS Service.
 - <u>Approval Phase:</u> Transaction is executed only if investor approves electronically.

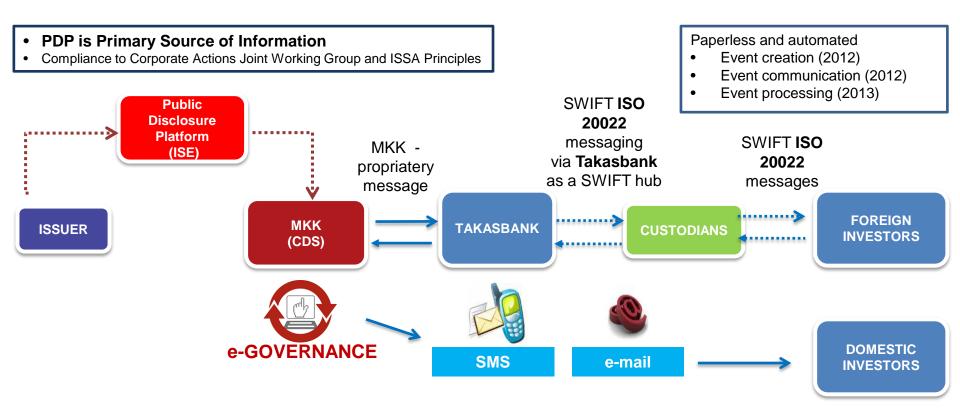


CURRENT CORPORATE ACTION AUTOMATION Event Processing





FUTURE CORPORATE ACTION AUTOMATION Event Processing





e-COMMODITY Electronic Warehouse Receipt Center

- Adapting the dematerialized system to agricultural industry of Turkey and Turkic Republics
- Integration of agricultural sector with capital markets
- Conversion of agricultural products stored in licensed warehouses to electronic warehouse receipts
- Safekeeping of electronic warehouse receipts in MKK's electronic book-keeping system
- Trading of products at the Commodity Exchange
- Farmers Notification System











e-DATA Capital Markets Data Bank

- Central data bank of the capital markets
- Co-operation with Ozyegin University & Markit Partners
- Distribution of all data produced in the Turkish capital markets by econometric models in a secure, consistent and reliable manner
- Statistics on capital markets in international standards
- Academic articles and research reports
- Electronic securities database

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- Contributing to academic research and decision-making processes of policy makers
- Providing reliable & consistent data to ratings institutions
- Investor Risk Appetite Index, Attachment Index and Financial Indicators





e-COMPANY: Companies Information Portal

- Article No.1524 of the new Turkish Commercial Law :
 - Joint stock companies are required to open web sites and
 - Disclose information and documents stated by the law on their web sites
- On the MKK e-COMPANY Portal:
 - Integration with the company web sites
 - Gathering of company information and documents
 - Providing data and information on all companies from a single source
 - Diclosure of corporate & financial information and documents in XBRL.
 - Ensuring necessary security levels
 - Enabling effective access from a single source and stability
 - Data transfer to the Central Corporation Registry Number System (MERSIS) infrastructure









THANK YOU