

Technical Attempt and Direction of e-Service for AGM



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- **Three conceptual parts of e-service towards AGM**

e-Convocation

- Considered possible w/o explicit provisions

e-Vote

- Commercial law, Launched Aug 2010
- Mobile launched Dec 2017

Virtual Meeting

- The Bill is in motion

- KSD provides e-voting service through the web and legacy

1. K-eVote

- For those who are listed in the shareholders' book
- Through PC or mobile device with e-certificate

2. VoSS

- For those who are asset managers using SAFE system
- Integrated with FundNet

Technical Attempt for e-Voting

- KSD carried out PoC/Pilot projects with various new technologies

B/L PoC

- Virtual nodes
- Consistency Check with legacy system
- Based on Hyperledger Fabric platform

B/L Pilot

- Cloud server + Blockchain network
- 2 physical nodes(issuers joined the project)
- Strong Encryption : AES256

A.I Chatbot PoC

- Counseling by A.I chat bot
- Respond simple repetitive questions
- Natural language processing and query

Lessons from Technical Attempts

● Key findings from technical attempts

BlockChain

- Comparative advantage in Data integrity, non-repudiation, Similar level of Confidentiality
- Disadvantage in performance, maintenance

Cloud

- Reliable maintenance
- Responsibility of system error, high cost in long-term basis

A.I ChatBot

- Effective only when data feeding is stable

Lessons

- Governed-private DLT, still experimental
- Reliance of e-Voting service provider
- Enhancement of Consulting and analysis service

Directions for KSD e-Voting Project

- New e-Voting project is in progress in terms of following directions

1. Platform Business Oriented

- Corporate-Shareholders communication
- GM Knowledge warehouse

2. Aiming to Enhance Services with new Technology

- Knowledge-base A.I Chat bot for corporate IR staffs
- Customized Corporate Report through Big Data analysis



Thank you for listening

