11th International e-APP Forum

Government Innovat

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Blockchain-based e-Register network: Korean use cases and global extension

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Ministry of Foreign Affairs \oplus

[1] e-APP of the Republic of Korea



2016.Nov.30.

- Build 2nd Apostille system
- Online Apostille certificate issuance service
- Online e-Register service
- Advanced Apostille legacy system

2019.Jun.30.

- Applying the blockchain to consular legalization
- Cooperating with 14 commercial banks (6,400 branches)



2007.Jun.29

- Join the Apostille Convention
- 1st Apostille Legacy System
- e-Register Service (x)

2018.Dec.31

- Applying the blockchain technology to legacy e-APP & e-Register



[2] Korea e-APP : Key Statistics



- # of issued certificates is exploding (CAGR = 17.44%)
- Urgent need for an efficient ٠ information system for e-APP
- 120,716 Apostilles has been issued until Sept.

	Apostille (Total)			Online Apostille	
year	Official document	Notarial deed	SUM	Official document	Ratio
2019 2018 2017 2016 2015	72,668 62,900 54,551 42,406	88,286 77,862 73,145 65,176 60,565	160,954 140,762 127,696 107,582 100,102	19,795 14,481 10,161 863	27.24% 23.02% 18.63% 2.04%
2013	39,537	00,000	100,102	0	

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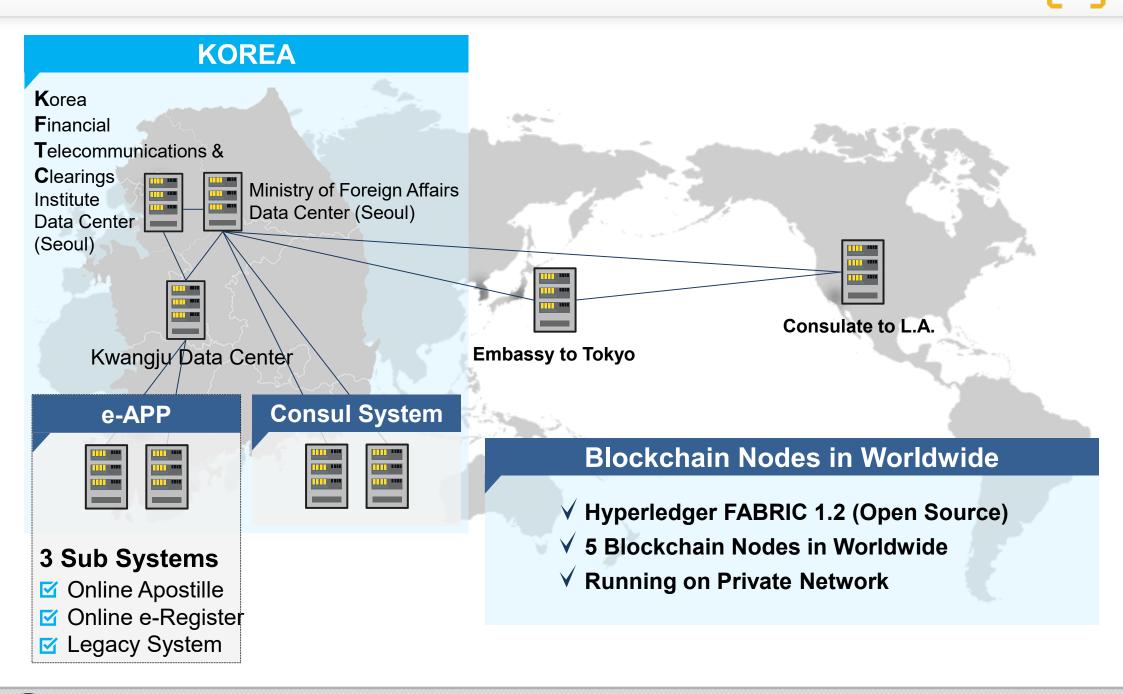
Online Apostille Service for Overseas Koreans.

- Consideration 1: Official documents are written in Korean. Thus, applicants need a notary for translation.
- Consideration 2: Current online Apostille supports only nine kinds of official documents. (e.g. Family relations certificate)



[3] System Structure (e-APP & Consul system for consular)

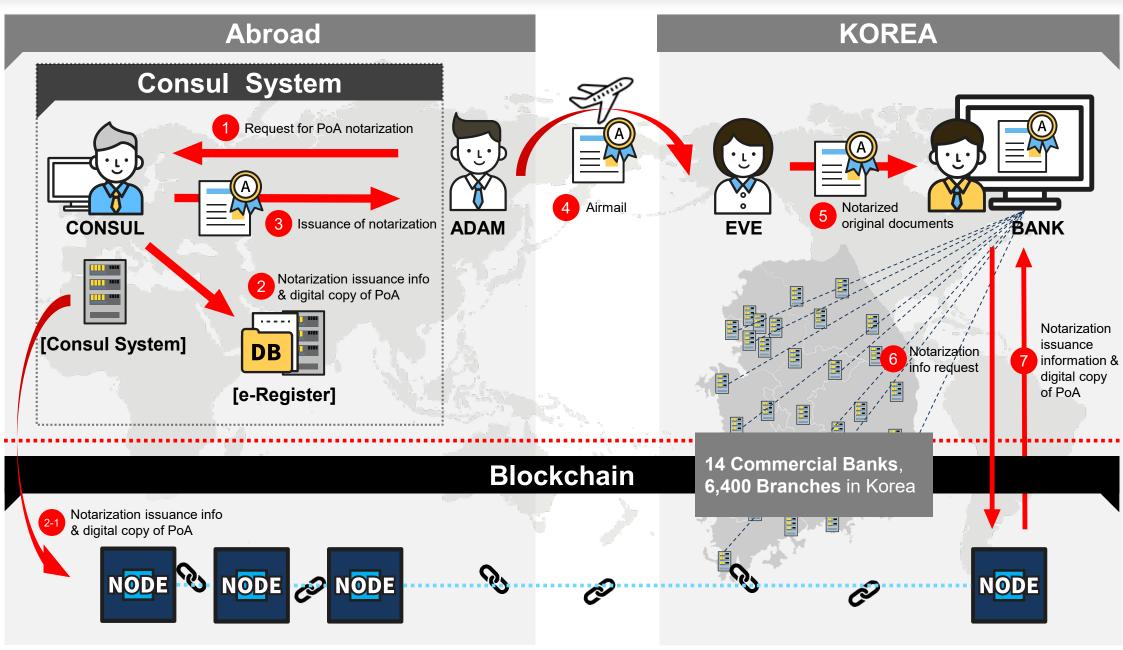
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[4] Practical Case : Notarization from consul in abroad

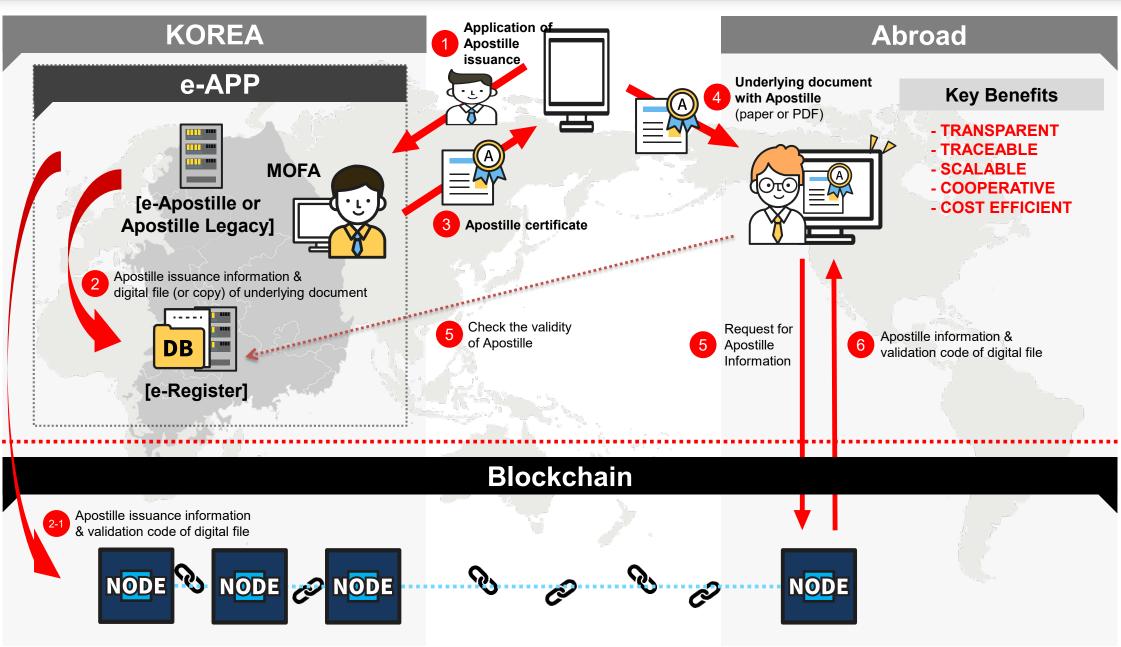






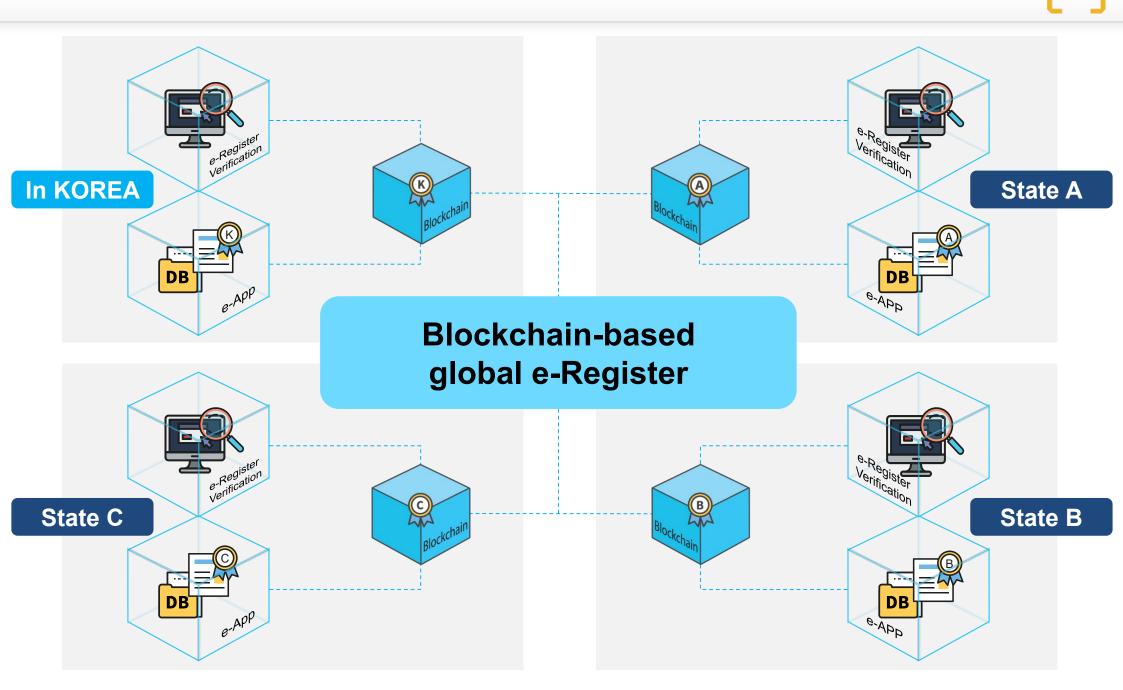
[5] Proposal : Blockchain-based Global e-Register System







[6] How to apply Blockchain to a global e-Register System?



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- A blockchain-based global e-Register network is shown to work, to be scalable and to benefit contracting parties.
- It is cooperative, transparent, traceable, scalable ulletand cost-efficient.
- Common input variables and blockchain technologies will optimize the system.

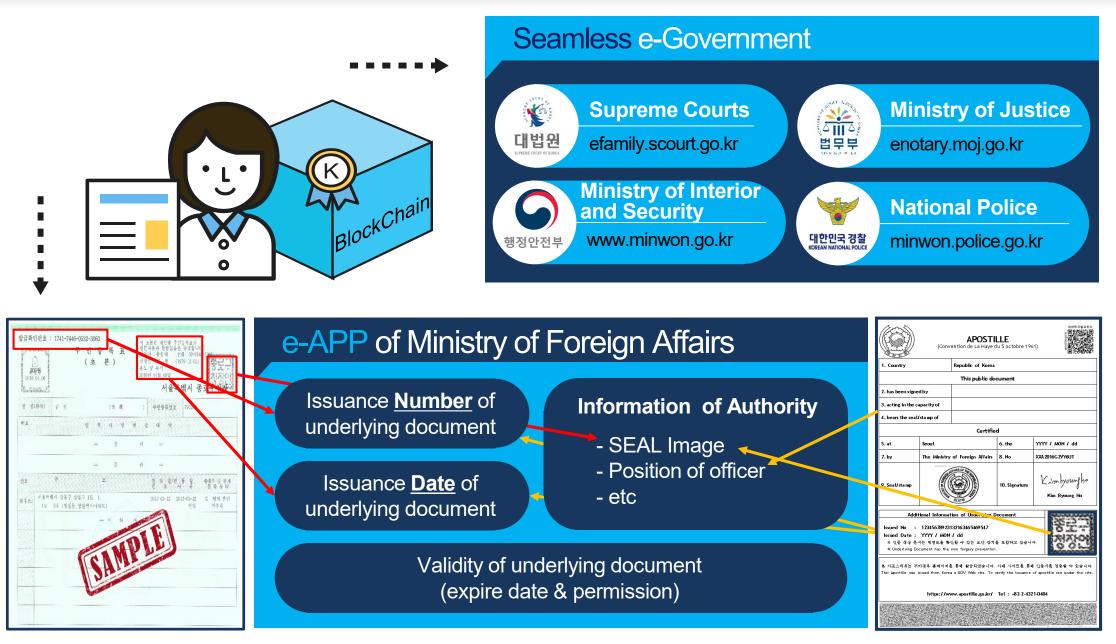


Thank You



Appendix 1. How to Issue Apostille on Internet

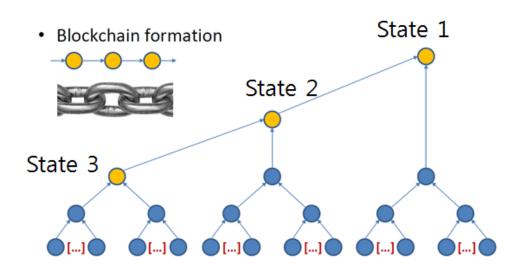






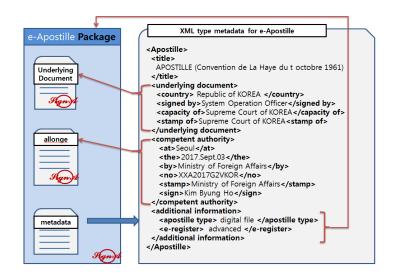
Appendix 2. Blockchain Technology

- 2016 10th International e-APP Forum C&R (Conclusion & Recommendation)
 - 6. Participants noted with interest the developments reported and updates provided by the experts in attendance, from both Contracting Parties and the invited observers. In particular, the Forum noted with great interest the initiatives of the DONA Foundation and the InterPARES International Research Project, acknowledging the utility of harnessing the power of technologies such as the Handle System, Cloud-facilitated document preservation and Blockchain. Participants were invited to continue to study the relevance of these and other related technologies for the e-APP.
- 10th Forum Digital Object Architecture TRUSTER Preservation Model



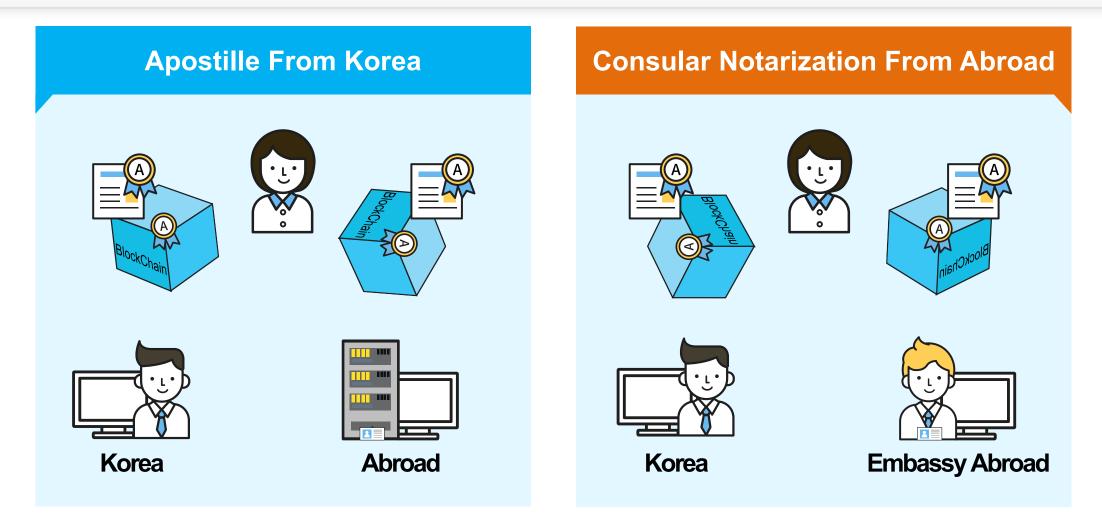
• 2017 HCCH Asia Pacific Week Template of e-Apostille

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Appendix 3. Apostille Process vs Consular Notarization



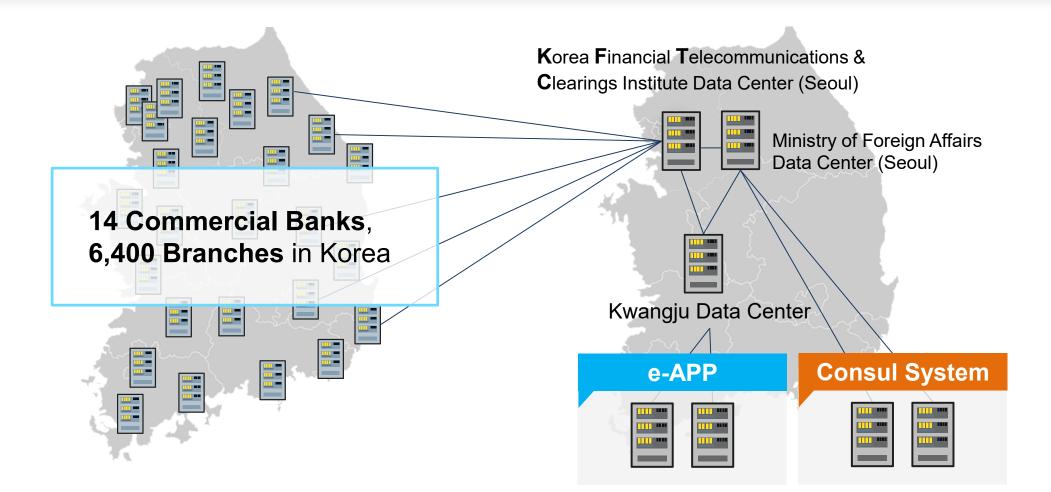
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Example

Overseas Korean nationals need power of attorney(PoA) for banking service in Korea. Notarization of PoA by Korean consul is required.



Appendix 4. System Structure (e-APP & Consul System & Banks) Better Gov.



Banks can check the power of attorney (PoA) notarized by consuls and see scanned PoA in their own banking system connected to the blockchain provided by KFTC (Korea Financial Telecommunications & Clearings Institute Data Center).

