

Digitizing India & Beyond!

Sep-2022

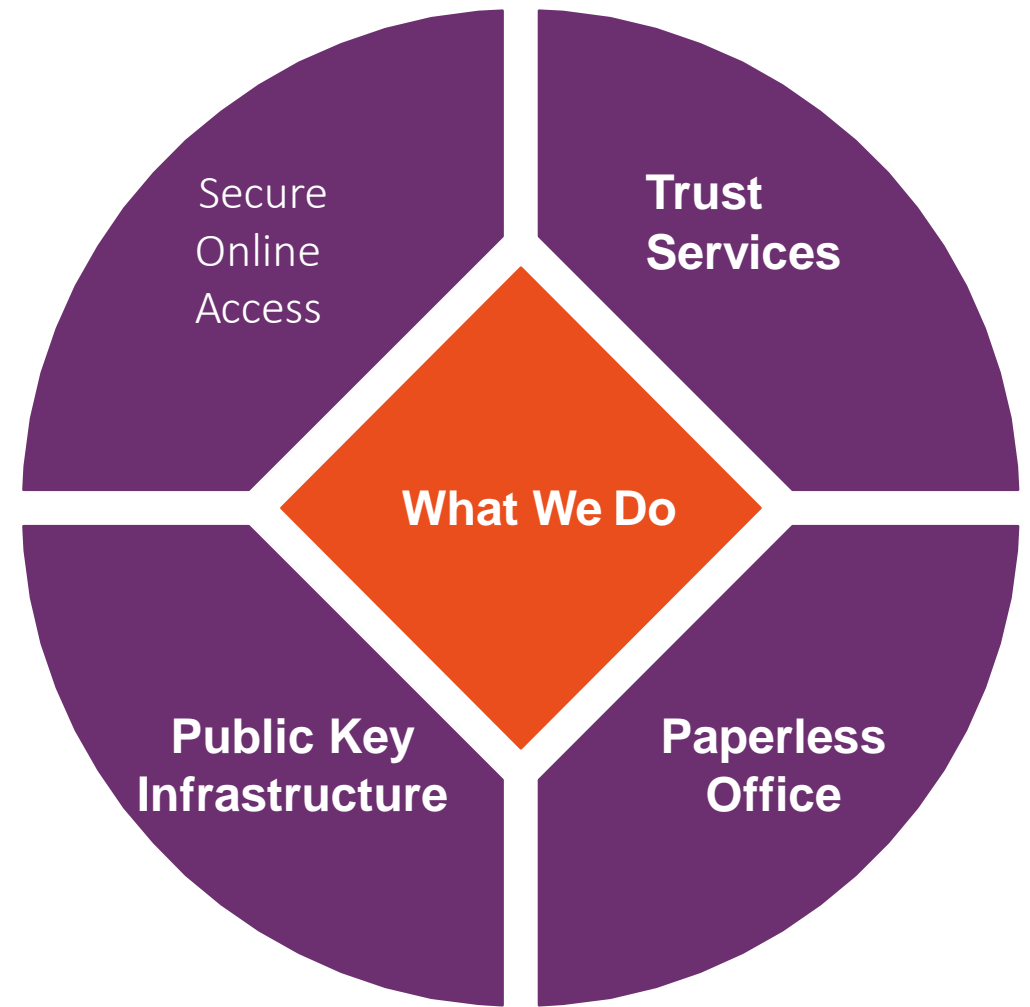
Speaker Profile



**Vijayakumar
Manjunatha**

- Chief Technology Officer / SVP, eMudhra
- Chair of Technology and Standards Working Group of Asia PKI
- Expert member in United Nations UN/CEFACT
- Panel Member of BIS on IT / Digital Signatures
- Actively Involved with several Global Bodies: Asia PKI Consortium, CA Browser Forum, ETSI (ESI), FIDO, Cloud Signature Consortium, etc
- Part of First eSign implementation in India (2015) under Digital India Program.
- Instrumental in setup of first Global CA in India towards trusted SSL/TLS Certs, SMIME, etc
- Liaising with Microsoft, Google, Mozilla, Apple, Adobe, etc for globally trusted CA operations.
- Working in Webtrust Audited Ecosystem for more than 5 years, and compliance to all 5 seals of Webtrust.
- Involved in active discussions & consultations around Secure Digital Transactions through PKI / Electronic Signature space in Middle East, South & East Asia, African & LatAm countries

eMudhra enables enterprises and consumers to engage, exchange information and transact securely, efficiently and with enhanced **digital customer experience**.



About eMudhra

- Proprietary IP across the **Trusted Digital Transformation** value chain
- 750+ employees | 7 offices | HQ – BLR
- Being at the forefront of PKI
 - CAB Forum member
 - Asia PKI Consortium Chair
 - Cloud Signature Consortium Executive Member with Board representation
- **Ranked 1st** in India in ‘Identity & Digital Trust’ by IDC for 2 consecutive years. Recognized by Gartner as a “Global Full Service Enterprise Solution” vendor
- **60 million+** certificates issued



Serving millions of customers and thousands of enterprises across 25+ countries & 5 continents



We operate Public PKI at a global level through our own trust anchors with several country-specific CA's.



We are webtrust audited and run webtrust compliant services where required



Though Leadership, Quality & Security

Global Memberships



Quality and Security Certifications



Global Trust

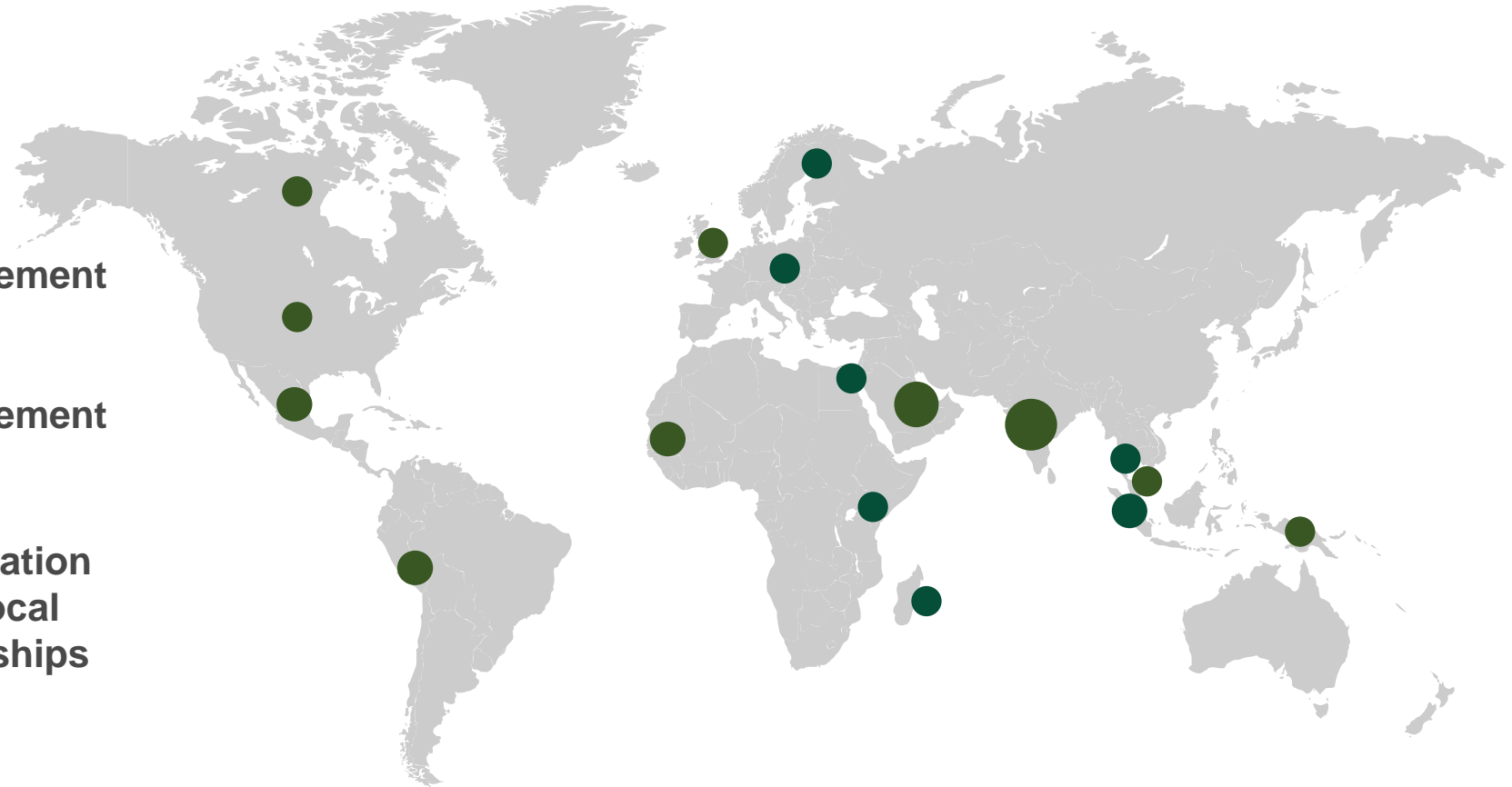
Digital Security across the World



Our Digital Trust Reach

We have established a strong digital trust backbone across several countries either directly from our global trust services operations or through local partner tie ups providing our customers the ability to sign documents with legal validity globally

- Trust Service enablement under National root
- Trust Service enablement through global root
- Trust Service integration achieved through local technology partnerships



Globally trusted SSL/TLS

First
Indian
Company



One
Among a Few
Global SSL CA



Product range under global trust portfolio



Document
Signing
Certificates

SSL / TLS
Certificates

S/MIME
Certificates

CodeSign
Certificates

Private CA / IoT /
etc

REGIONAL

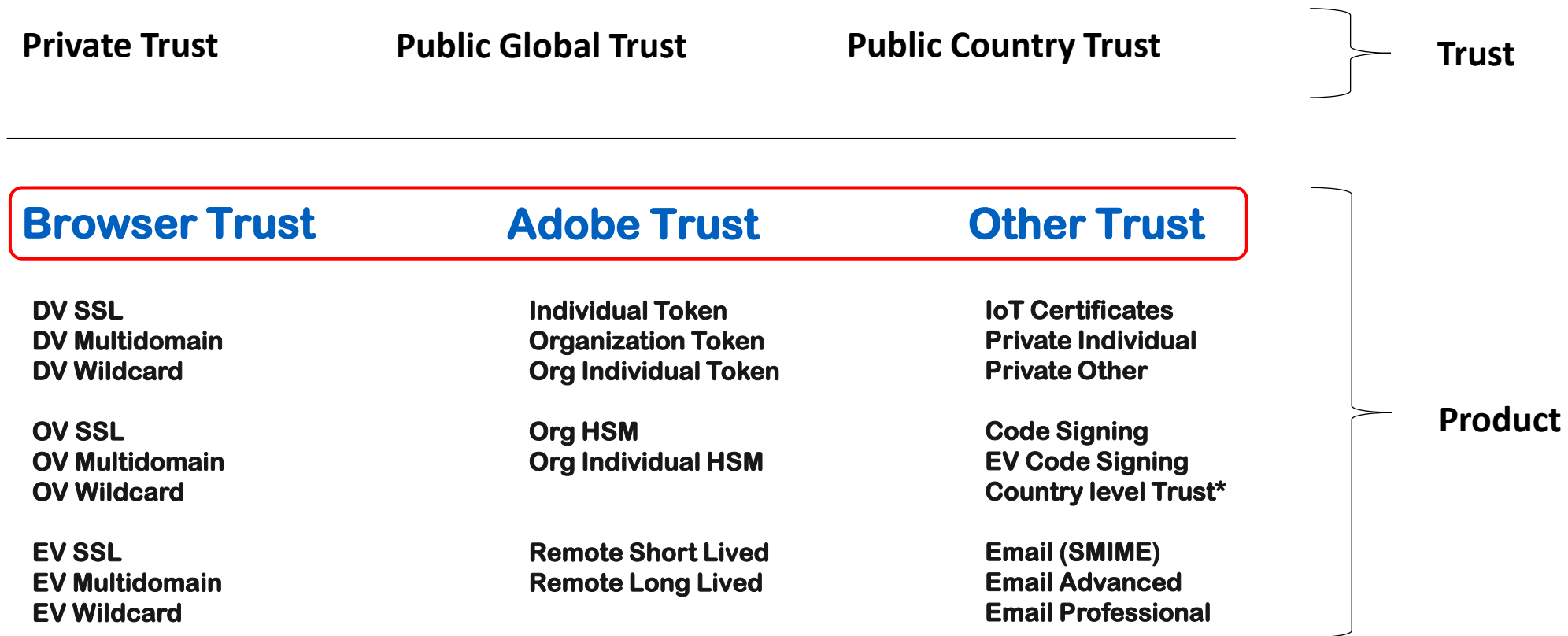
WORLDWIDE

WORLDWIDE

MICROSOFT APPS

CUSTOMIZED

Trust Services Portfolio



WebTrust

CA Conformity Assessment accepted Globally



**WebTrust has been a Framework for a
Globally Recognizable CA Setup, for SSL,
SMIME and other certificates.**

Only other alternative is ETSI EN 319 411 (1 and 2), which is
adopted by Europe.

WebTrust Overview: The Trust Model



WebTrust: Various Seals

Principles and Criteria for Certification Authorities - Version 2.2.2

- Base requirement for any WebTrust Audit.

SSL Baseline with Network Security – Version 2.6

- CAs capable to issue SSL certificates

Extended Validation SSL – Version 1.7.8

- CAs capable to issue EV SSL certificates

Code Signing Baseline Requirements – Version 2.7

- CAs capable to issue Code Signing certificates

Verified Mark Certificates - Version 1.0 (NEW)

- CAs capable to issue Verified Mark certificates

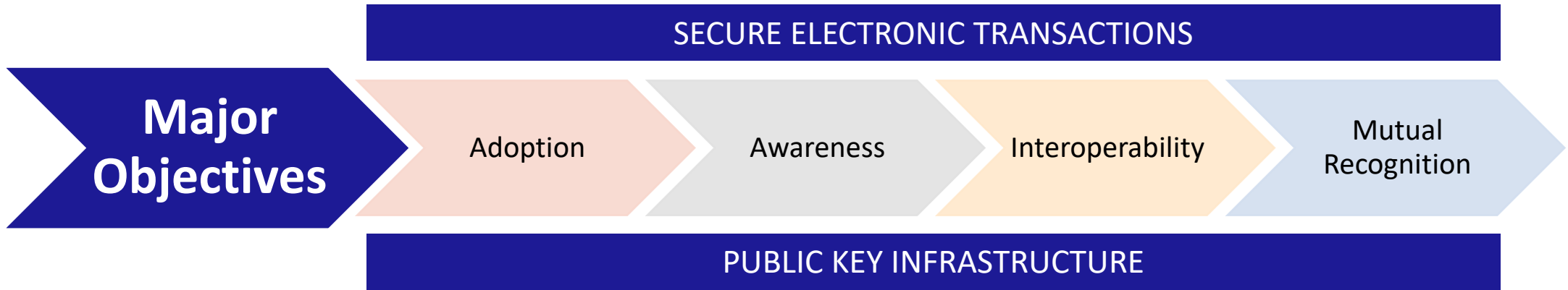
Registration Authorities - Version 1.1 (NEW)

- Entities operating as External RAs, without holding CA Keys.

Asia PKI Consortium

Working towards Mutual Recognition

Consortium Objectives



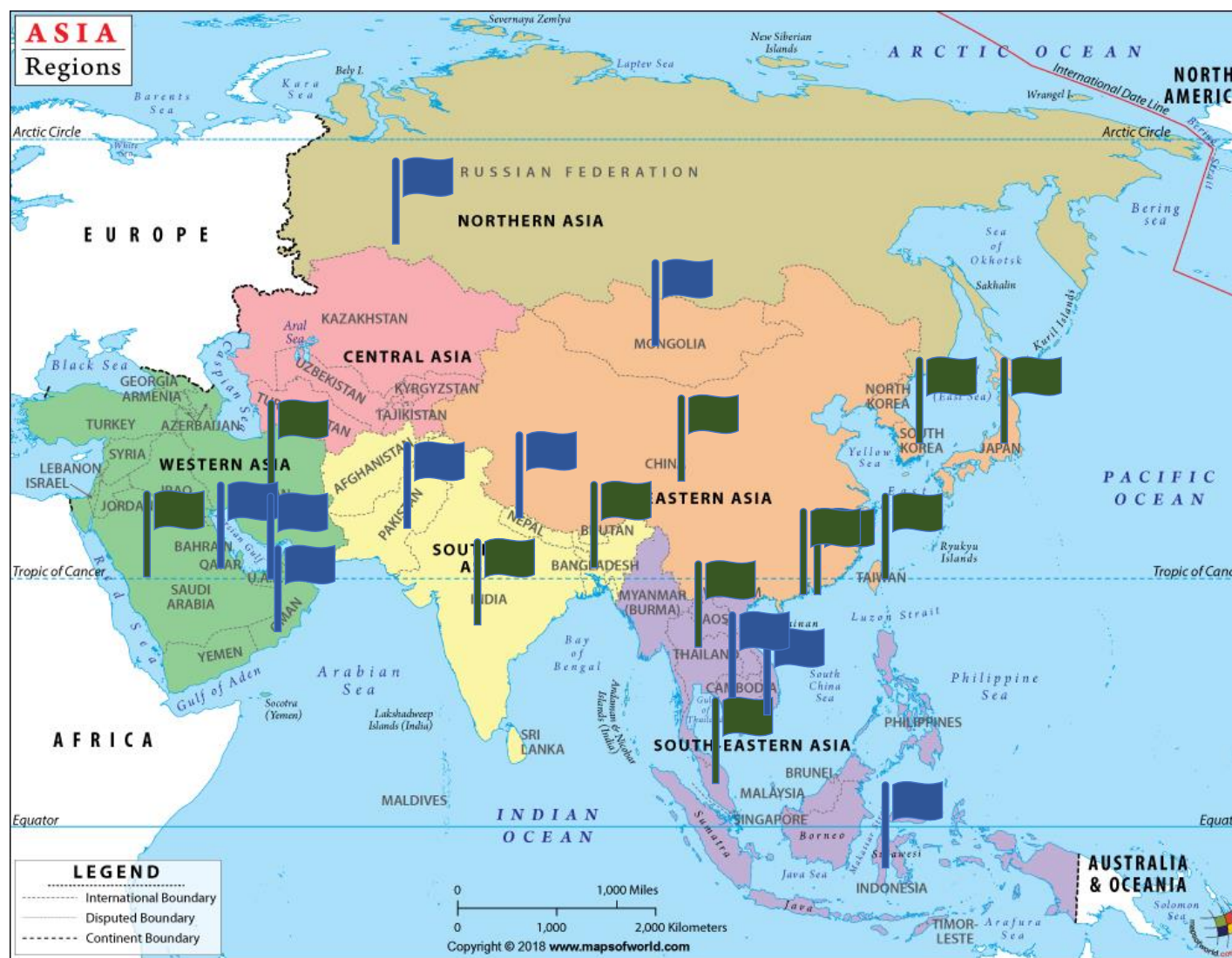
Membership Coverage



Members



In Progress



Consortium Governing Council



V. Srinivasan
Chair, India



William Gee
Vice Chair, Hong Kong



Ali Rahbari
Vice Chair, Iran



Chaichana Mitrpant
Vice Chair, Thailand

Working Groups

1. Business Application Working Group (BAWG)

Chair: Ms. Karen Cheng, Taiwan & Co-Chair: Mr. Vijay Kumar, India

1. To resolve cross-domain & cross-region issues
2. To promote the exchange and collaboration between members
3. To explore and enrich the information applications & IT-enabled services

2. Legal & Policy Working Group (LPWG)

Chair: Mr. Gordon Szetu, Hong Kong

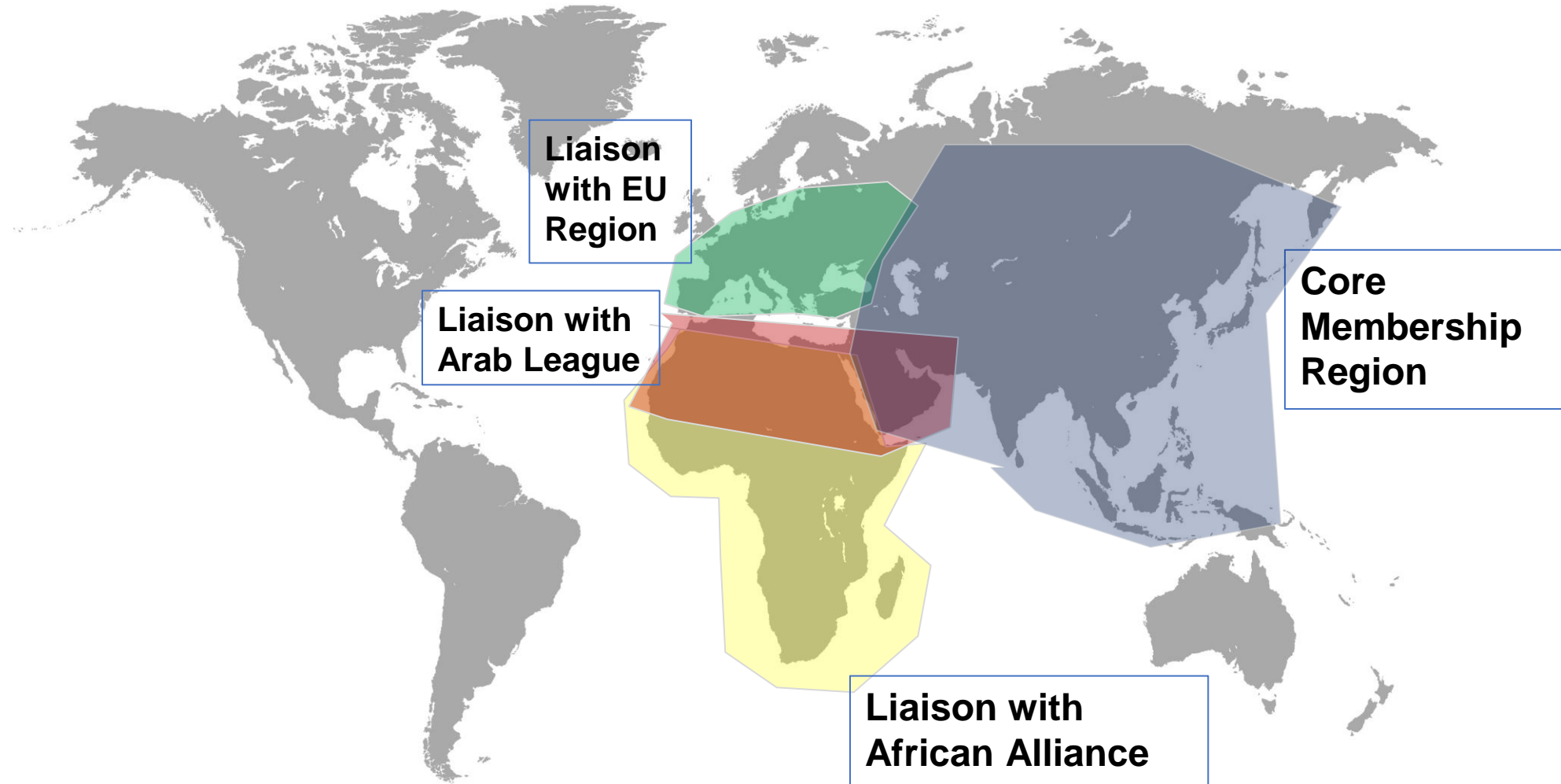
1. To influence interoperability initiatives
2. To collaborate with government and related industries
3. To produce policy papers and regulative awareness among the members.

3. Technology & Standards Working Group (TSWG)

Chair: Mr. Vijay Kumar, India

1. To standardize and make technological advancements.
2. To work on Public Key Cryptography, and the emerging technologies.
3. To help bring technological platforms together for the members.
4. To produce whitepapers and case studies

Asia PKI: Global Cooperation Program





India | Europe | USA | Singapore | UAE | Indonesia

Thank you!

eMudhra enables governments, enterprises and consumers to engage, exchange information and transact securely, efficiently and with enhanced customer experience.

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