

Cambodia Data Exchange (CamDX)

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Dissemination Workshop on
Cambodia Digital Government
Policy 2022-2035

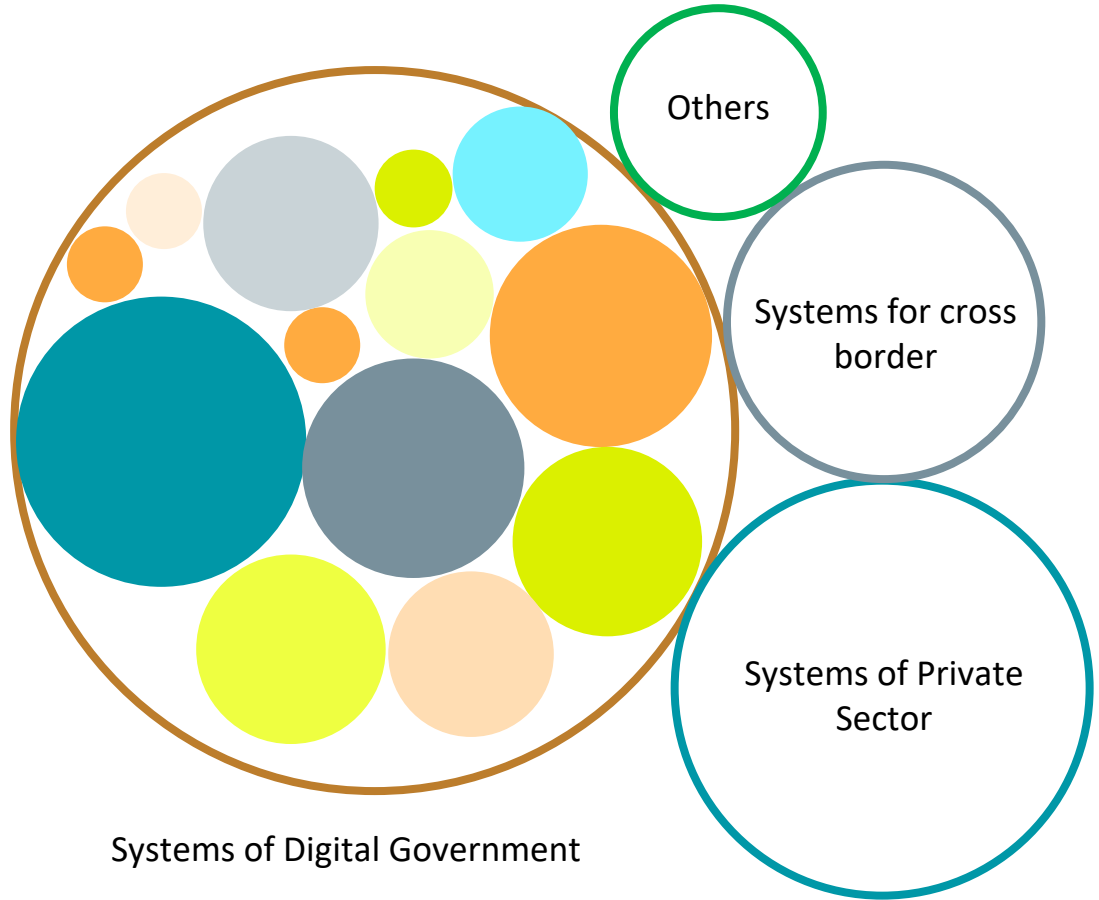


Systems of Digital Government

At macro level, systems of digital government are viewed as one.

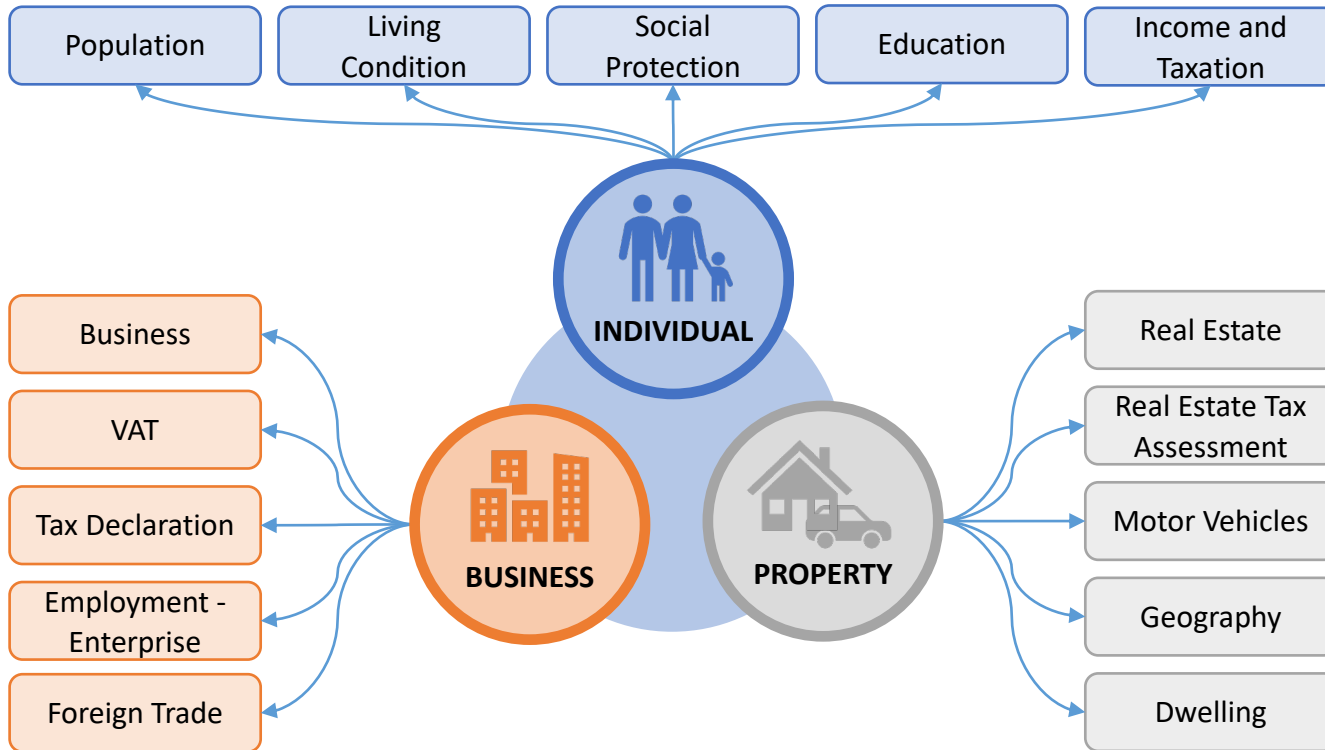
At micro level, systems of digital government are composed of many functional systems.

Unfortunately, the systems are fragmented, and it lacks a technological infrastructure to share data.

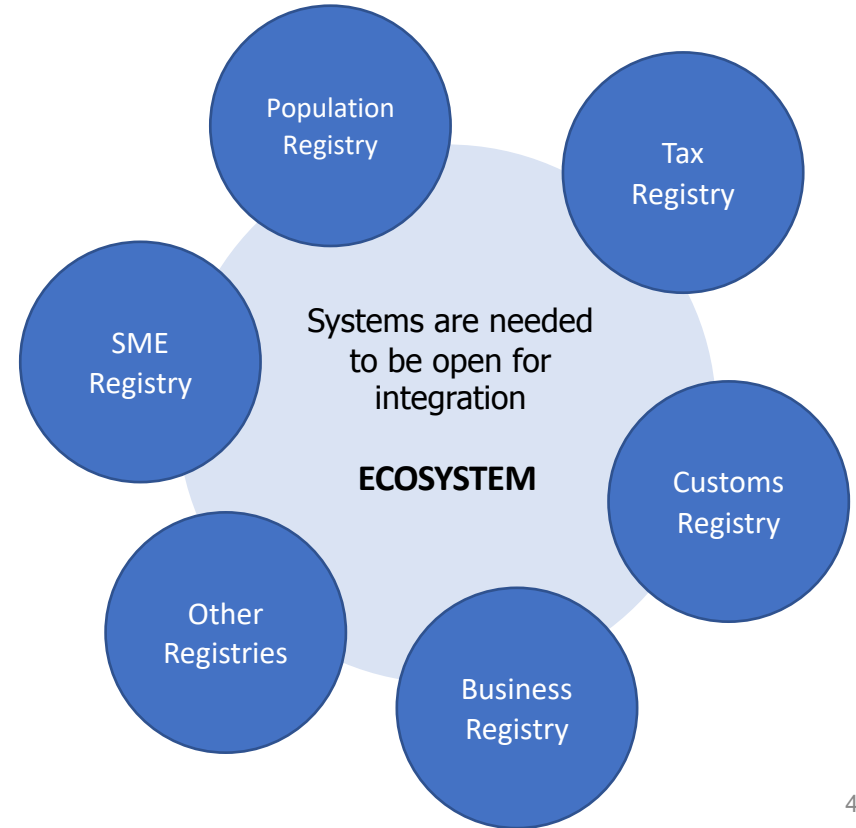
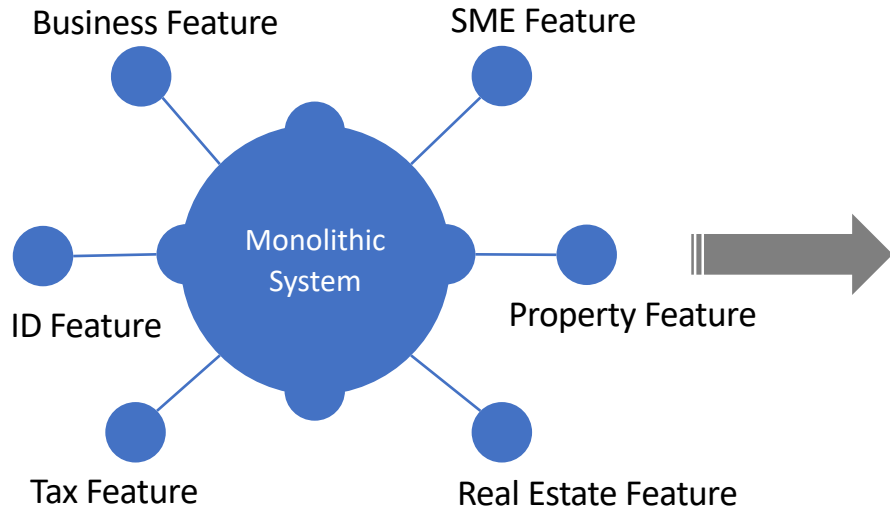


Systems of Digital Government

Basic Registries of the Government



Monolithic System to EcoSystem



- Creating the complexity
- Hard to maintain and upgrade
- Data Ownership: Who owns data?

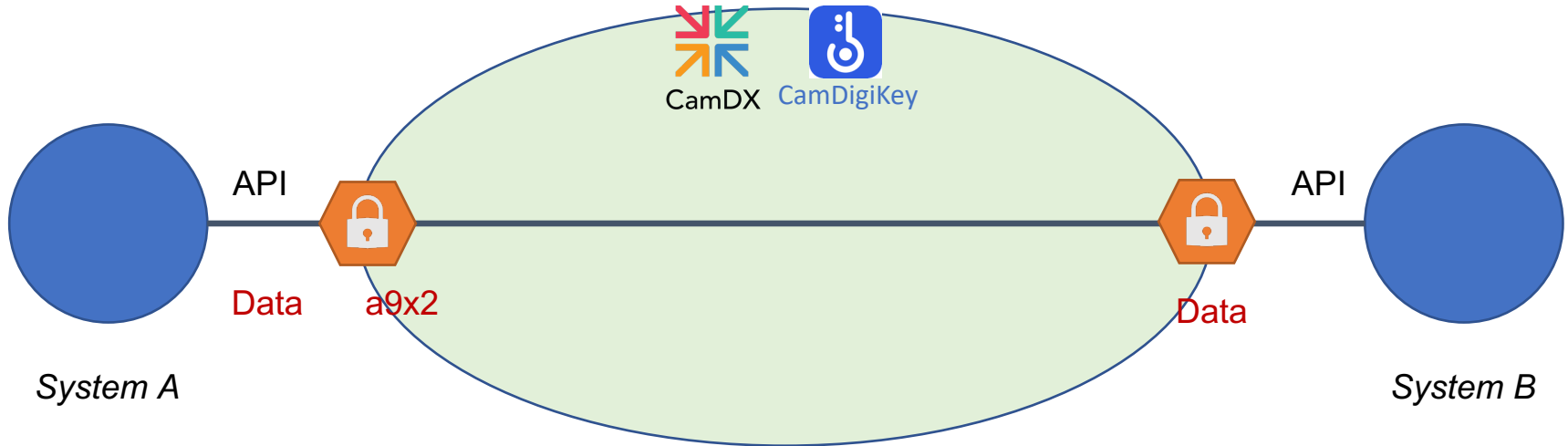
Data Exchange without CamDX



You will need to

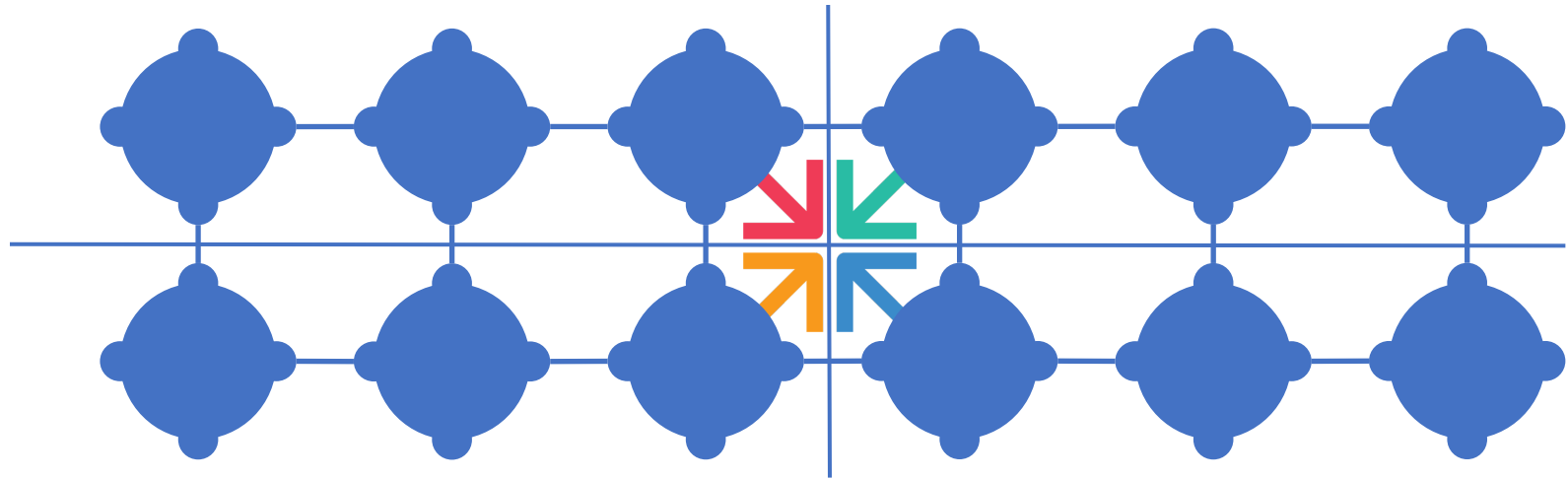
- Handle security in data exchange by yourself
- Bilateral model which isn't suitable for digital government
- Lack of overview of service/API catalogue from an open government perspective

Data Exchange with CamDX



Data transmitted through CamDX is encrypted, digitally signed and timestamped with a trusted PKI component

Interaction between Systems of Digital Government



A mesh network of digital systems of respective ministries connecting through CamDX empowered by open data model.

Each symbol represents digital systems of a particular ministry/organization

What is CamDX?



Infrastructure

Secure data sharing and exchange & secure real-time integration



Technology

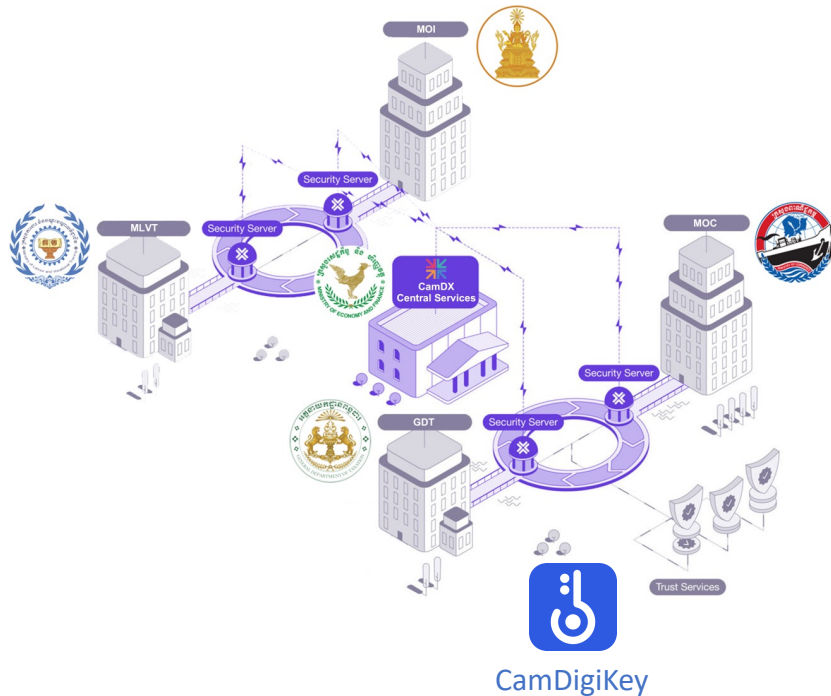
Modern API gateway; enable service interoperability; empower multilateral communication; secure by design



Legal Framework

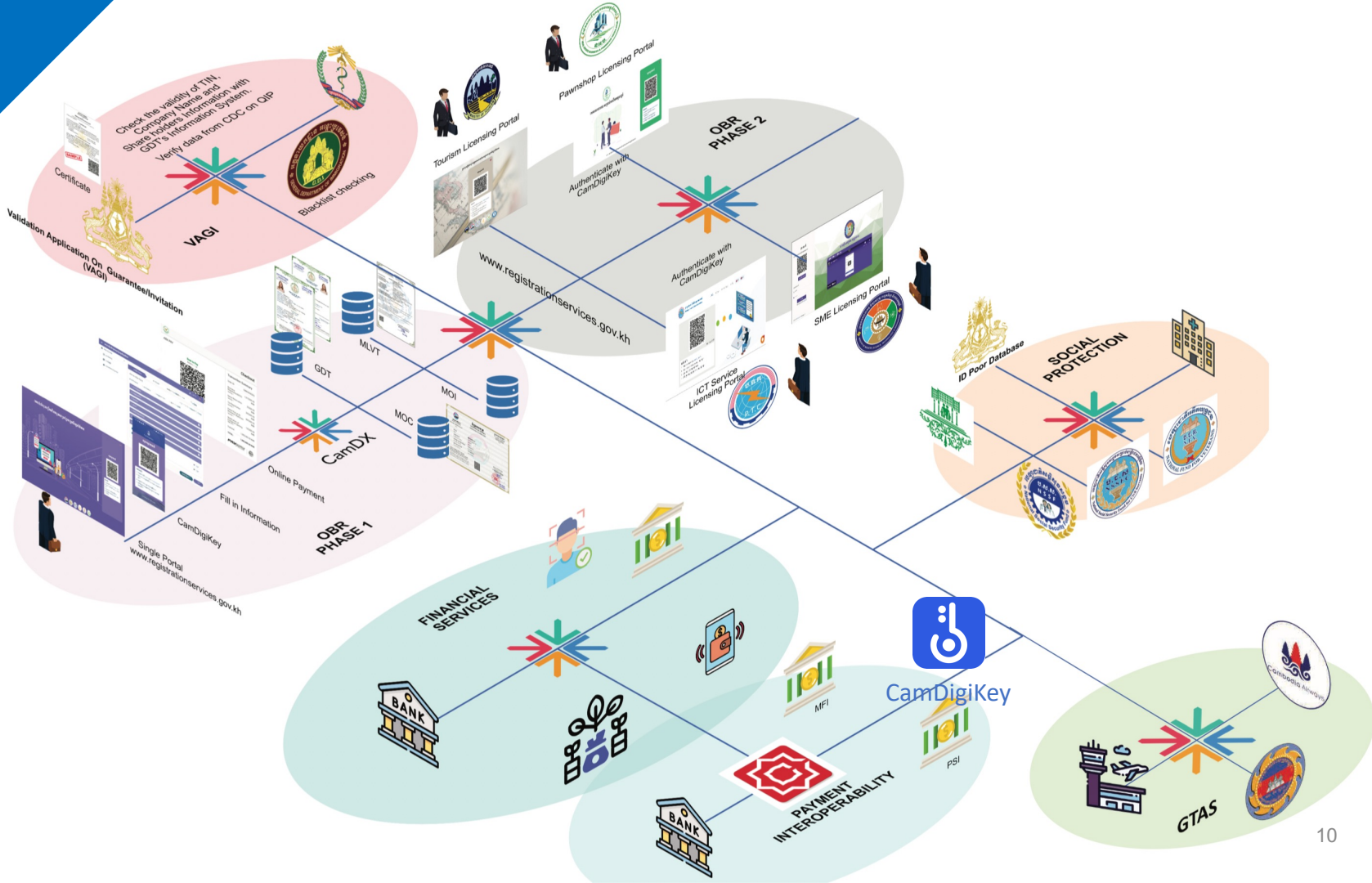
Backed by the Royal Government; CamDX Subdecree and more to come

What CamDX Does?



- 1 Connect fragmented systems into an ecosystem
- 2 Do not own data of the members
- 3 Secure exchange data through API
- 4 Provide the full control of API to the members
- 5 Improve system verification and data integrity

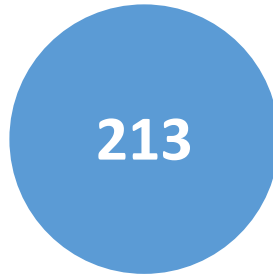
CamDX Ecosystem



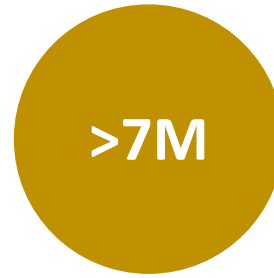
CamDX in Number



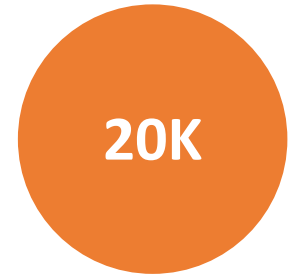
Members



APIs



Transactions

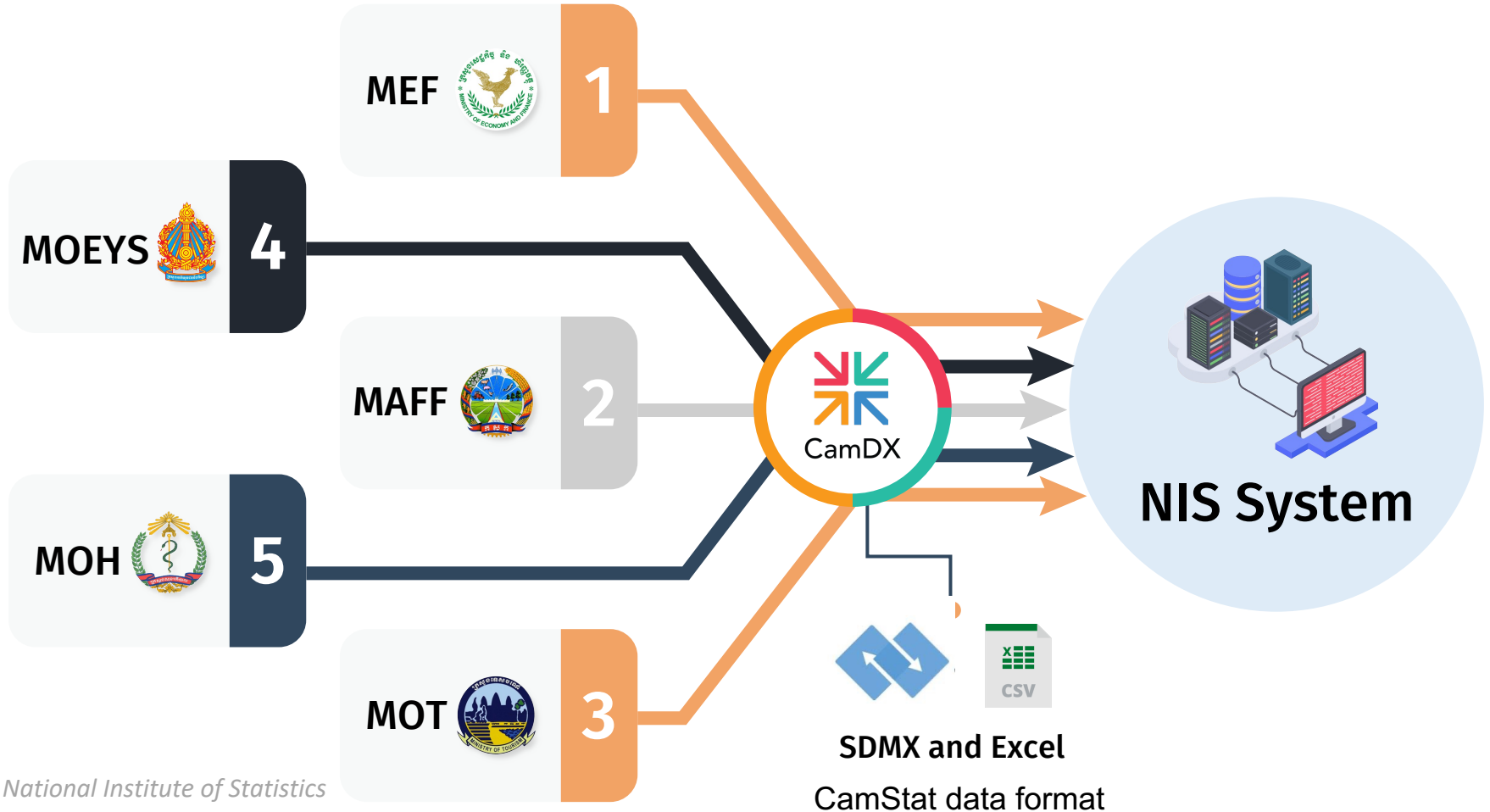


Avg. Transaction per Day

as of 29 Mar 2022

<https://monitoring.camdx.gov.kh>

CamStat of NIS and CamDX



Conclusion



CamDX

A unified data exchange platform!

<https://camdx.gov.kh>

- A “**whole-of-government**” approach
- Simple yet proven to be working
- Guarantee ownership of the data
- Improve data consistency and integrity through open data
- Secure data exchange
- Minimize system change
- Design to be distributed and scalable; hence no bottleneck
- The more members to join, the better interaction for co-innovation with both public and private sectors
- Government can capitalize the revenue from open data through API

Upcoming Interoperability Framework

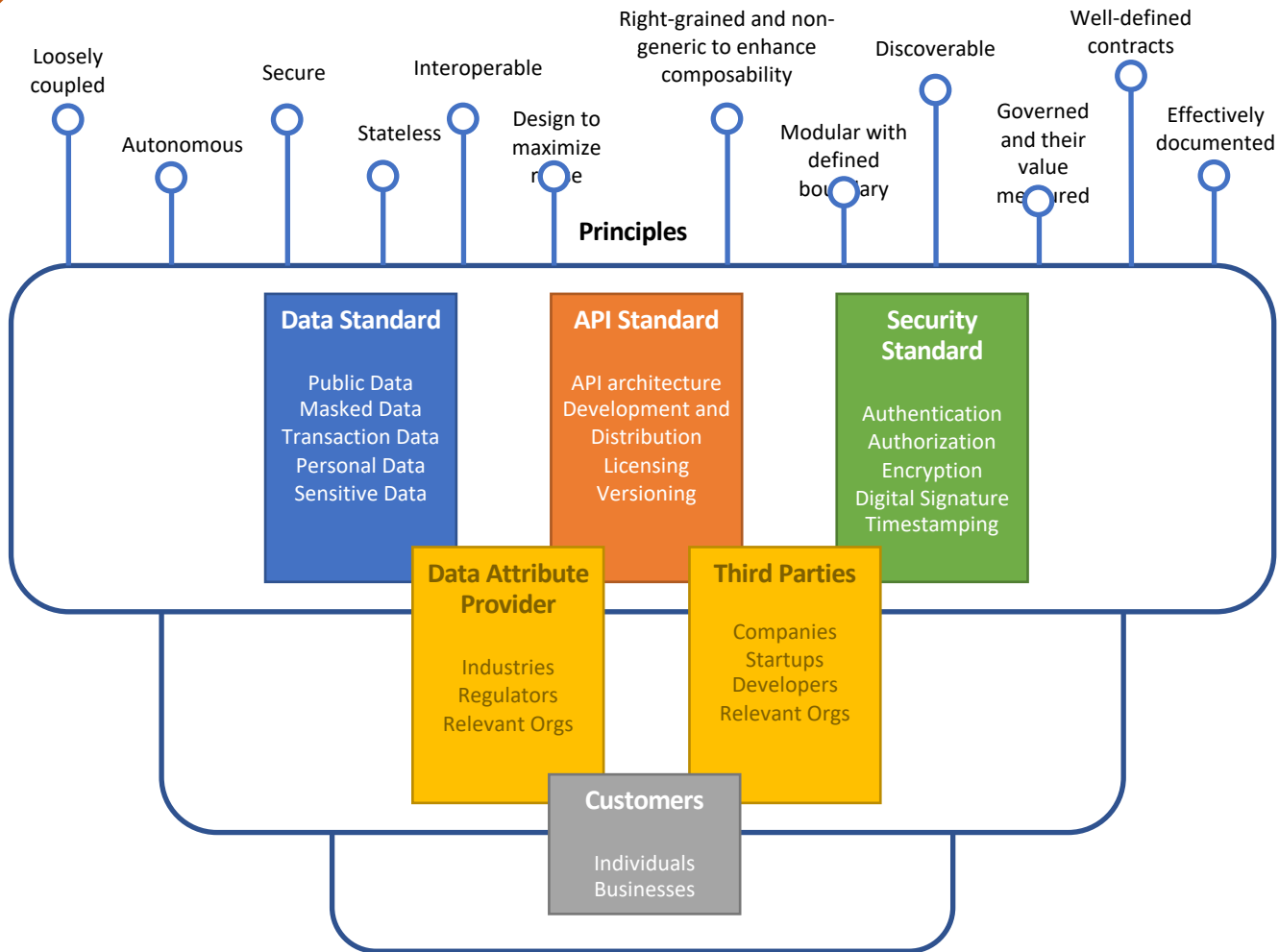
Governance

Legal Framework

Strategic Framework

Independent Authority

Standards Governing Body



Enablers

Data Protection

Data Portability

Consent

Clear Usage



THANK YOU



CamDX

<https://camdx.gov.kh>



CamDigiKey

<https://camdx.gov.kh/#camdigikey>



Online Business Registration
(OBR)

<https://registrationservices.gov.kh>



Techo Startup Center
(TSC)

<https://techostartup.center>