



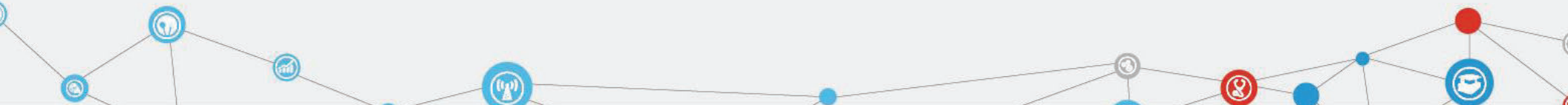
CAICT 中国信通院

ITU-T DLT Standardization

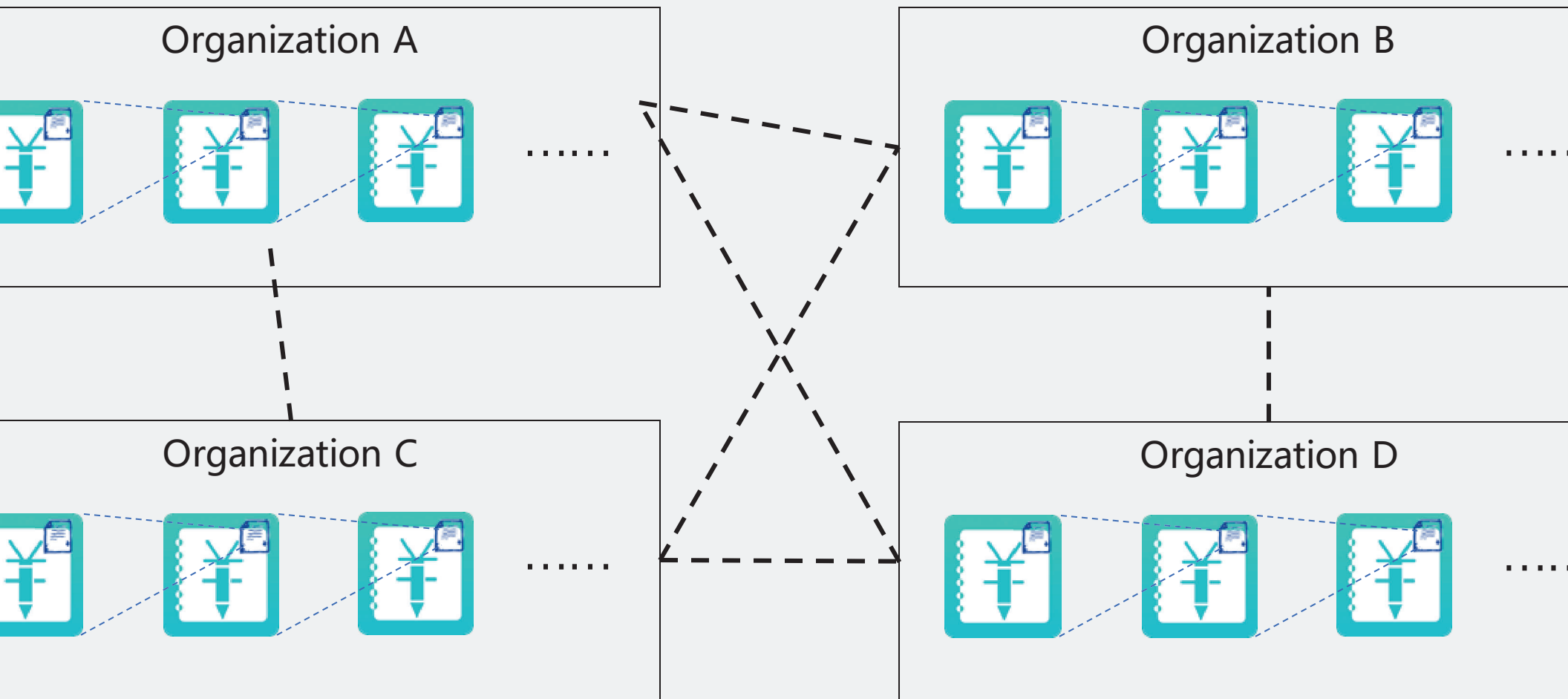
Mr. Wei Kai

Vice Director of Cloud and Big Data Institute,
China Academy of Information and Communications Technology(CAICT)
Secretary General of Trusted Blockchain Initiatives(TBI)

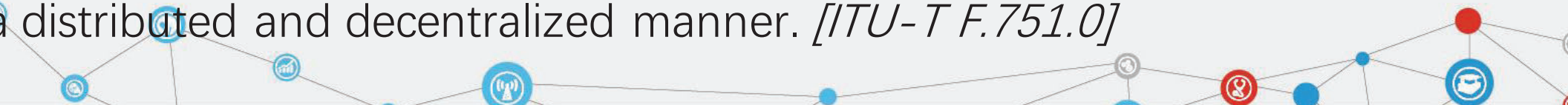
Chairman of ITU-T Focus Group on Application of Distributed Ledger Technology(2017-2019)
Rapporteur of ITU-T Study Group 16 Question 22 "Distributed Ledger Technology and E-services"



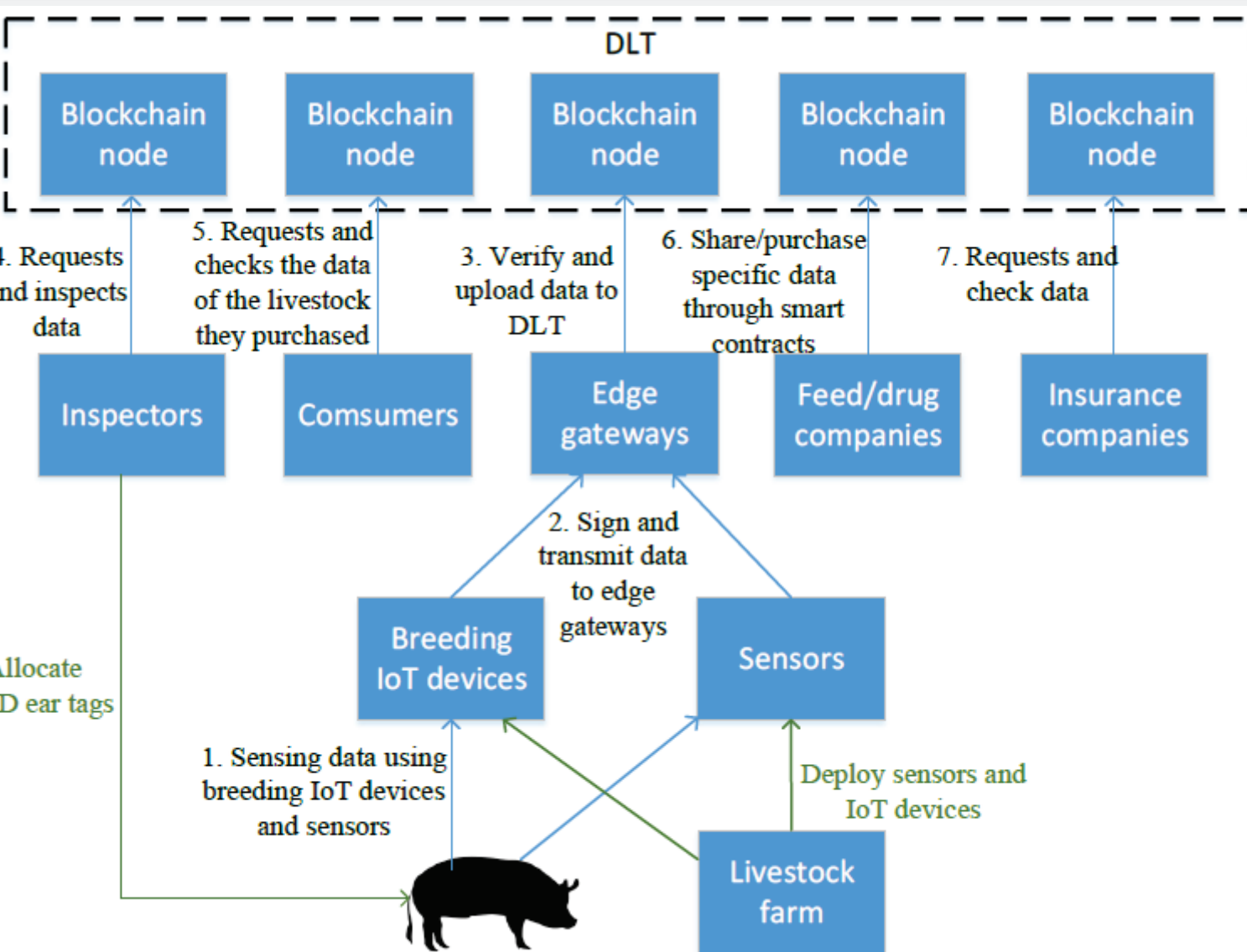
LT: I believe what I see is the same as you see



distributed Ledger: a type of ledger that is shared, replicated, and synchronized in a distributed and decentralized manner. *[ITU-T F.751.0]*



DLT traceability use case: Pig farm monitoring



Small to medium size pig farms (around 500 pigs per farm), which provide over 50% of total pigs (693.8 million in 2018) in China cannot provide trusted data collection and traceability.

Reference: ITU-T Technical Paper HS
Distributed ledger technologies: Use

ITU-T DLT Standardization timeline

ITU-T Focus Group on DLT

Pre standardization

ITU-T FG DLT Meetings

- 1st Geneva, 17-19 October 2017
- 2nd Bern, 5-7 February 2018
- 3rd Geneva, 28-30 May 2018
- 4th Beijing, 9-12 October 2018
- 5th Rio de Janeiro, 14-17 January 2019
- 6th Madrid, 1-4 April 2019
- 7th Geneva, 29 July - 1 August 2019

FG DLT deliverables

DLT terms and definitions (*ITU-T X.dlt-td*)

DLT overview, concepts, ecosystem

DLT standardization landscape

DLT use cases (*ITU-T HSTP.DLT-UC*)

DLT reference architecture (*ITU-T H.DLT*)

Assessment criteria for DLT platforms (*ITU-T F.DLT-AC*)

DLT regulatory framework (*ITU-T HSTP.DLT-RF*)

DLT outlook

ITU-T Study Group Standardization

Technical Papers:

- *Use cases*

- *Regulatory Framework*

Recommendations:

- *ITU-T F.751.0 Requirements*

- *ITU-T F.751.1 Assessment*

- *ITU-T F.751.2 Architecture*

ITU-T F.DLS

Draft Recommendation
initiated

2016

2017

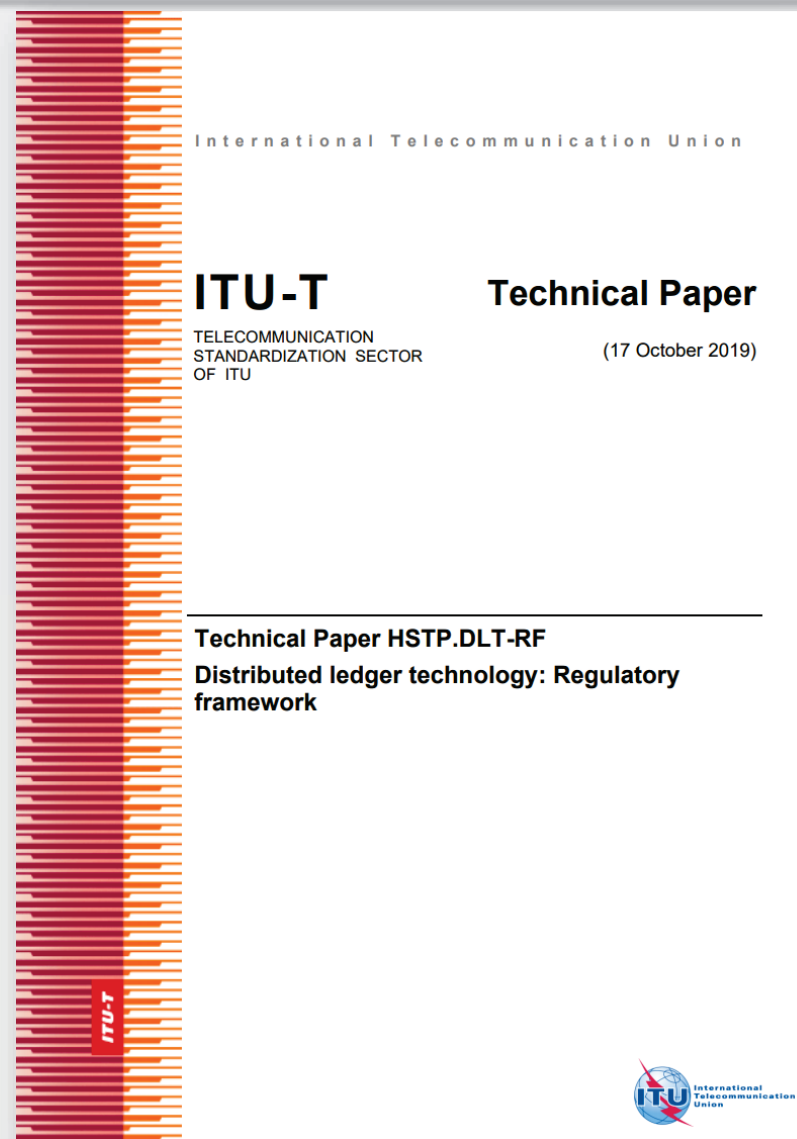
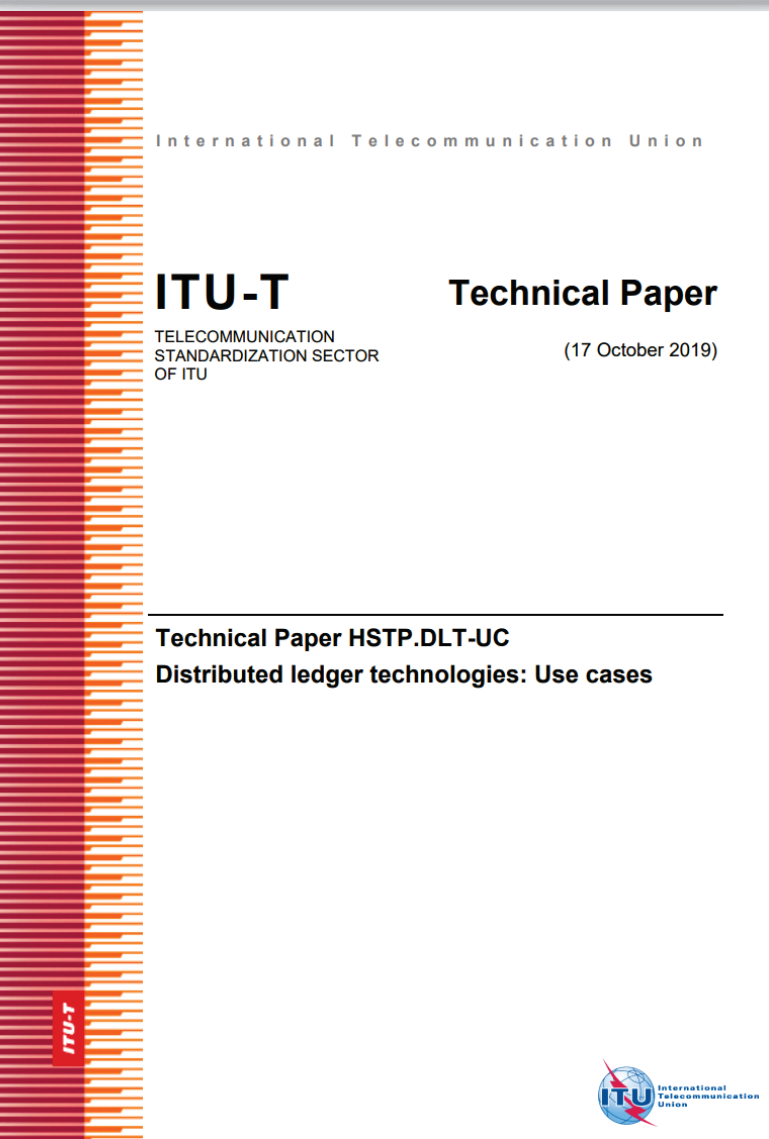
2018

2019

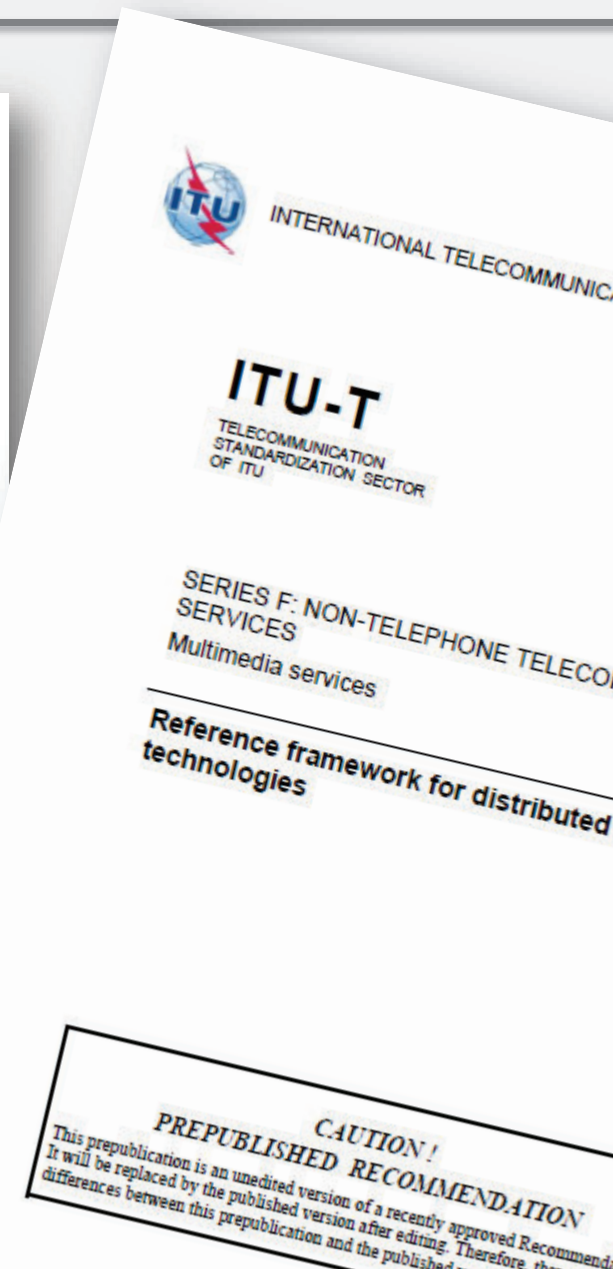
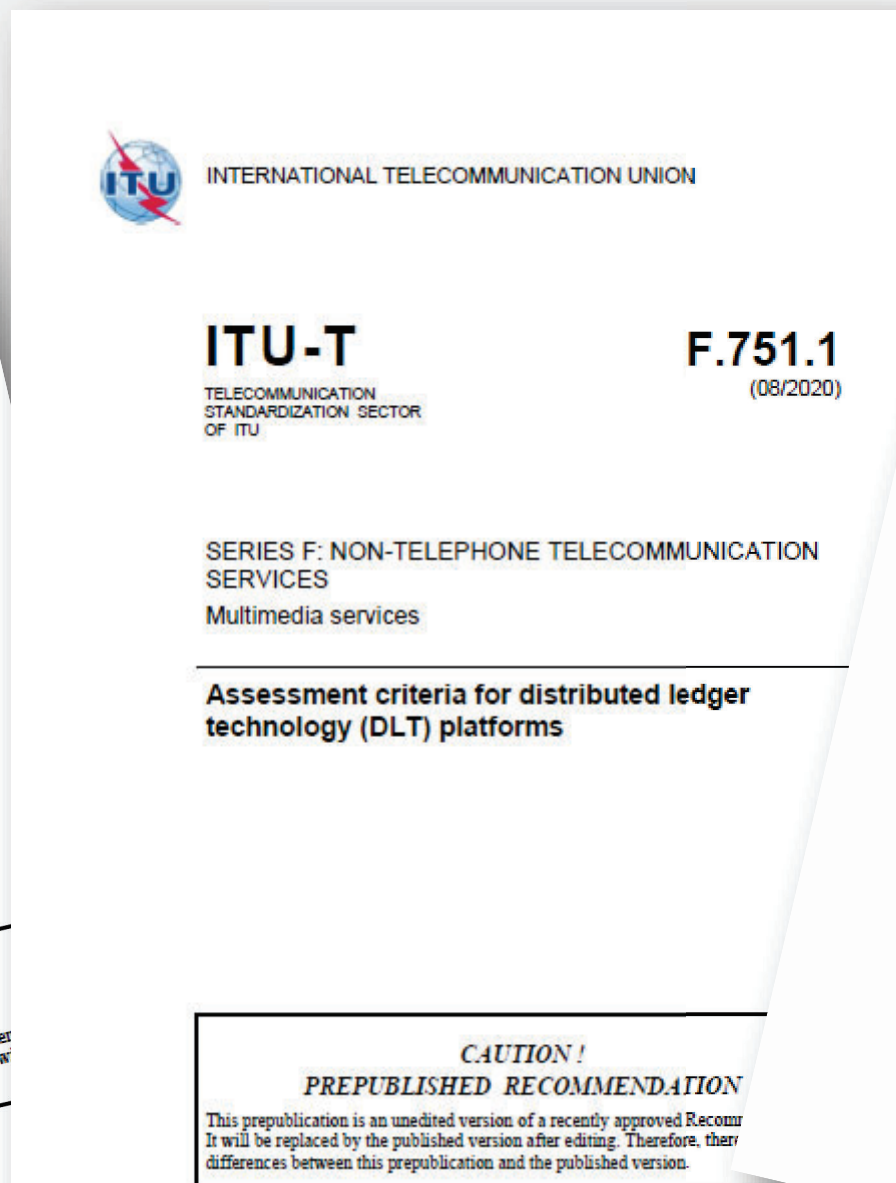
2020



Guidelines for the users and regulators

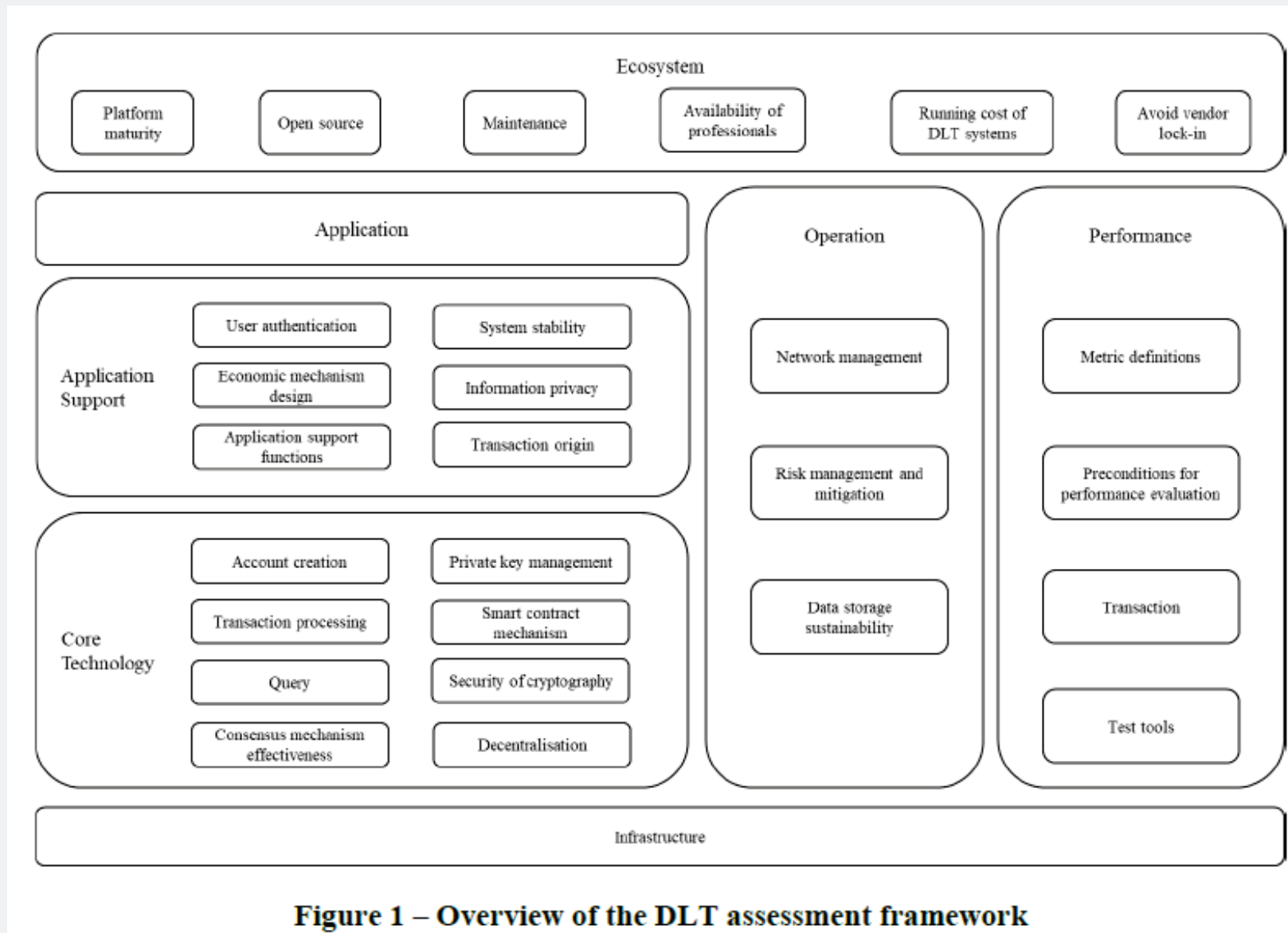


ITU-T published three Recommendations for DLT



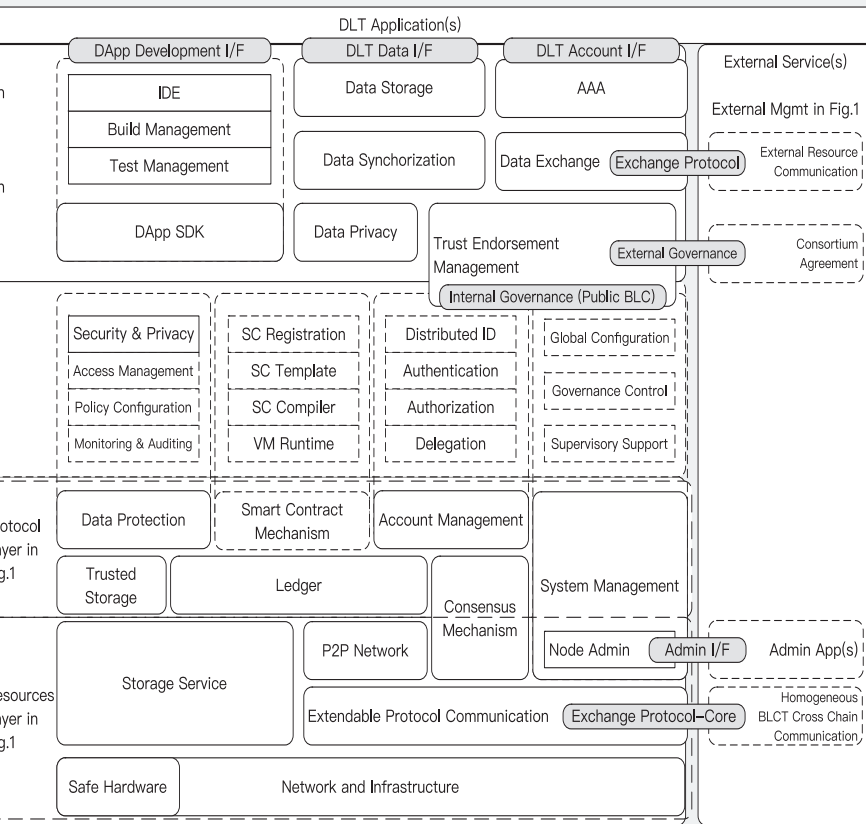
U-T DLT Assessment Framework

U-T F.751.1



Harmonization of the DLT architecture

ITU-T F.751.2



Abstraction

Mapping



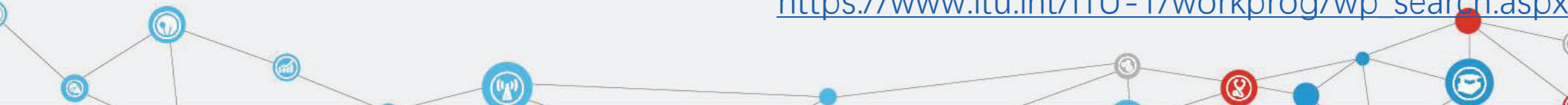
Reference framework for distributed ledger technologies

FG DLT D3.1 attachments-mapping

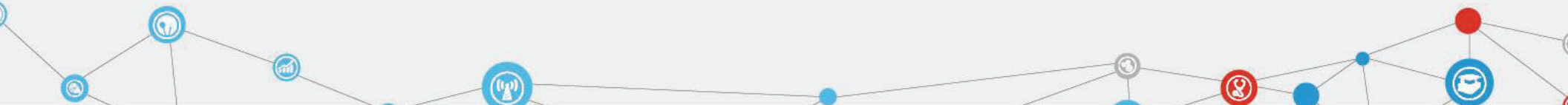
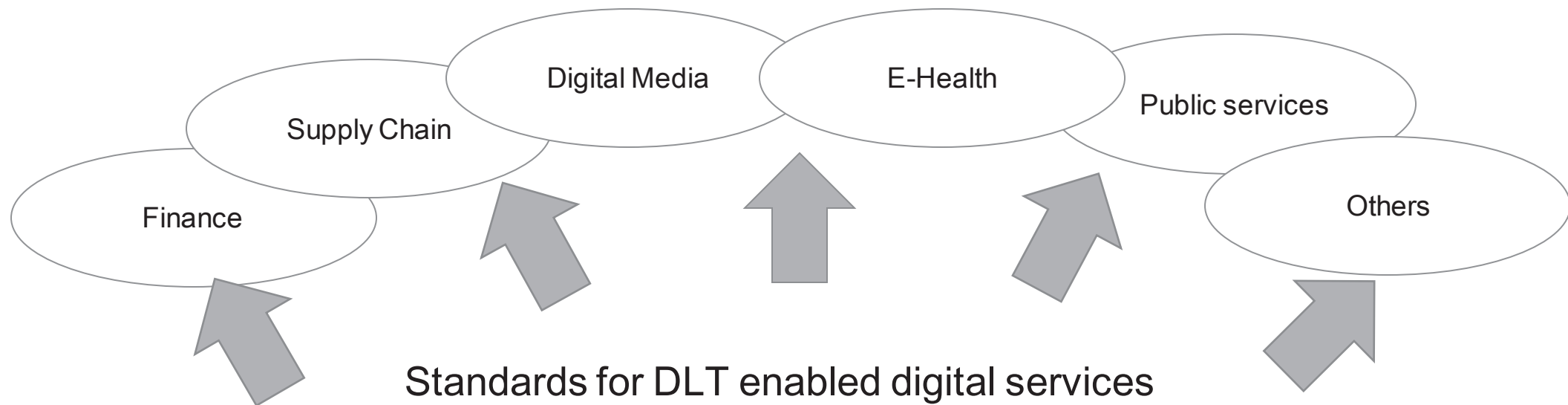
ITU-T DLT (draft) Recommendations

Work item	Subject / Title
751.0	Requirements for distributed ledger systems
751.1	Assessment criteria for distributed ledger technologies
751.2	Reference framework for distributed ledger technologies
DLT-DE	Digital evidence services based on distributed ledger technologies
DLT-INV	General framework of DLT-based invoices
DLT-TFR	Technical framework for DLT regulation
DLT-VERI	Formal verification framework for smart contract
DLT-FIN	DLT based financial applications guide line

https://www.itu.int/ITU-T/workprog/wp_search.aspx



TU-T's role: committed to connecting the world



Events

Distributed Ledger Technology (DLT) Meet-ups

www.itu.int/en/ITU-T/webinars/Pages/dlt.aspx

1st Wednesday of every month

Topics

Creating a public infrastructure of the internet of value, 4 November 2020

5G Use Cases, 14 October 2020

Working together for DLT Interoperability, 2 September

DLT Interoperability, 5 August 2020

