



Accountable Just-in-Time **Service Level Agreements** with Smart Contracts



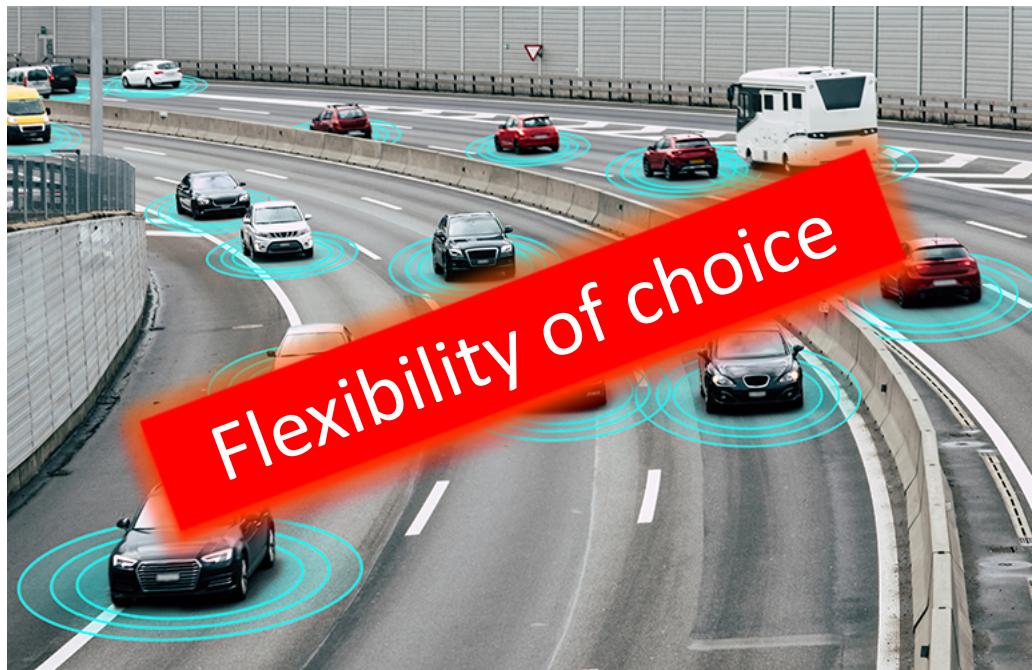
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Liability Assignment



Flexibility of choice

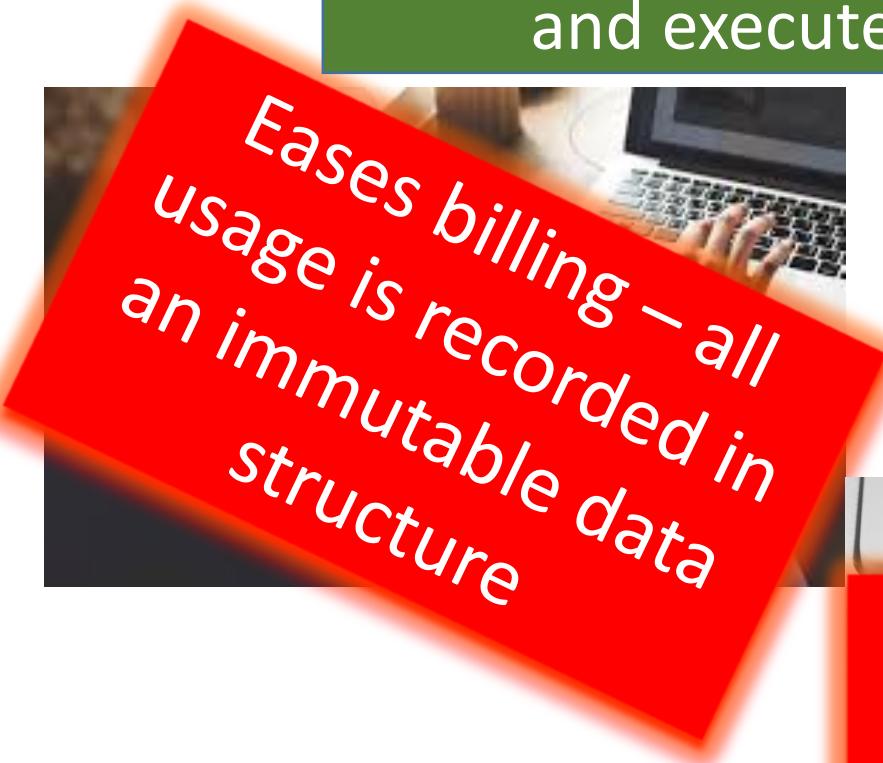
Accountability via SLAs



Just-in-Time Dynamic SLAs

How Smart contracts are helpful?

One standard contract recorded once
and executed multiple times



Automated payments – SLA is violated, and affected party gets paid automatically

The Questions

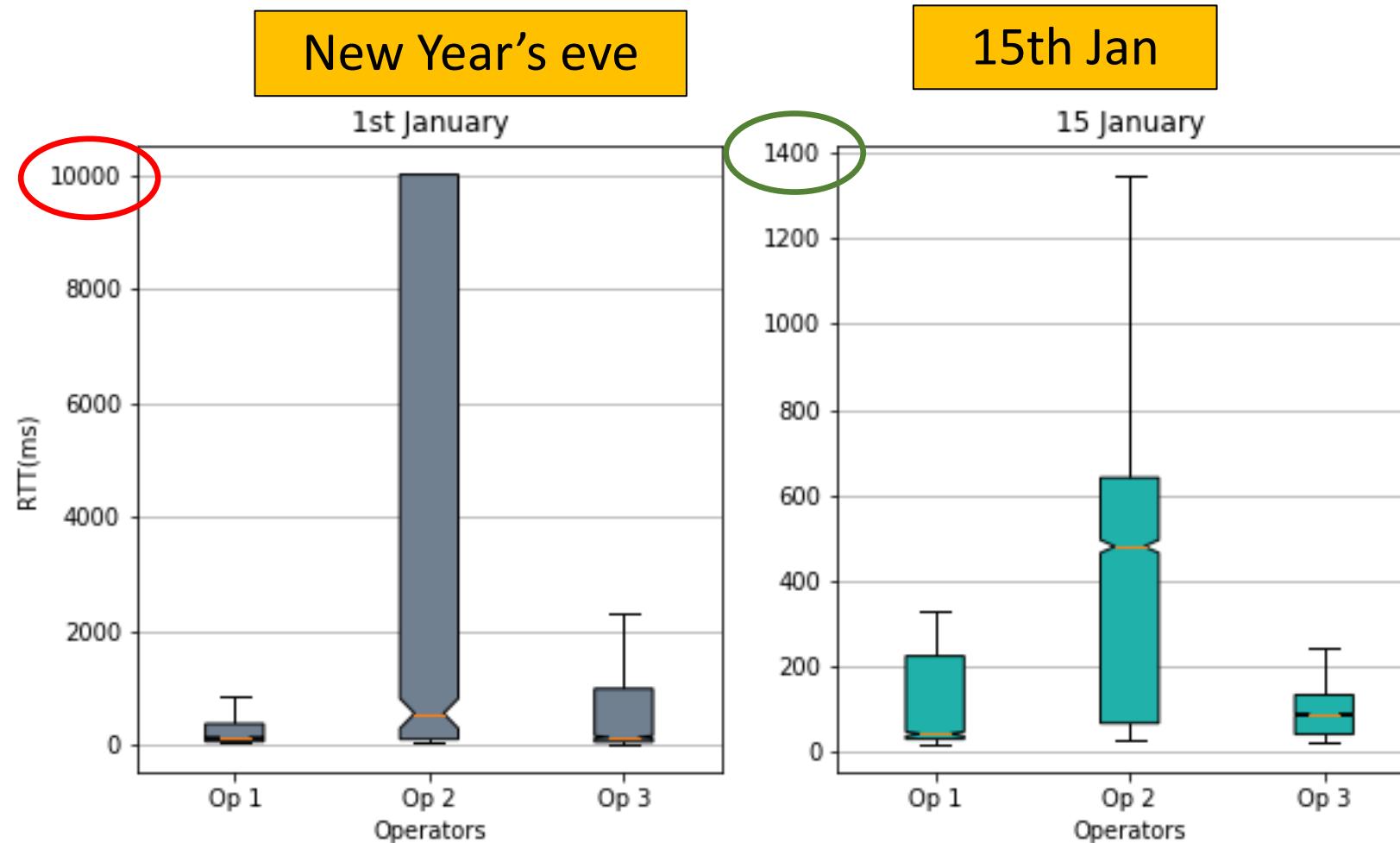
- Do we need flexibility of choice?
- Is it feasible to use smart contracts in a Just-in-Time fashion?



New year's eve ...

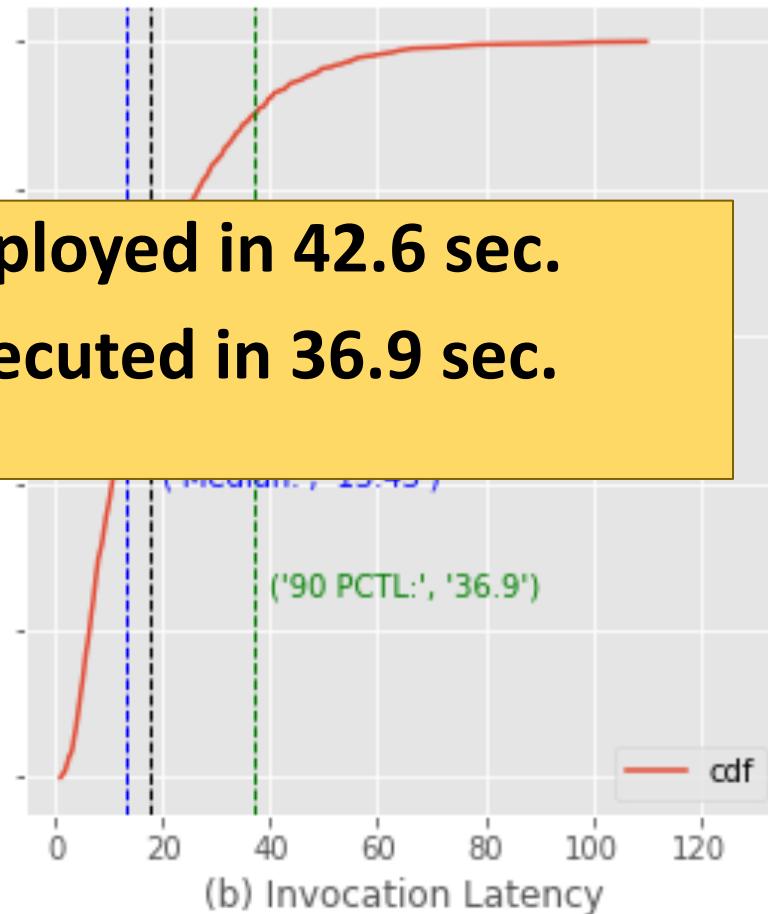
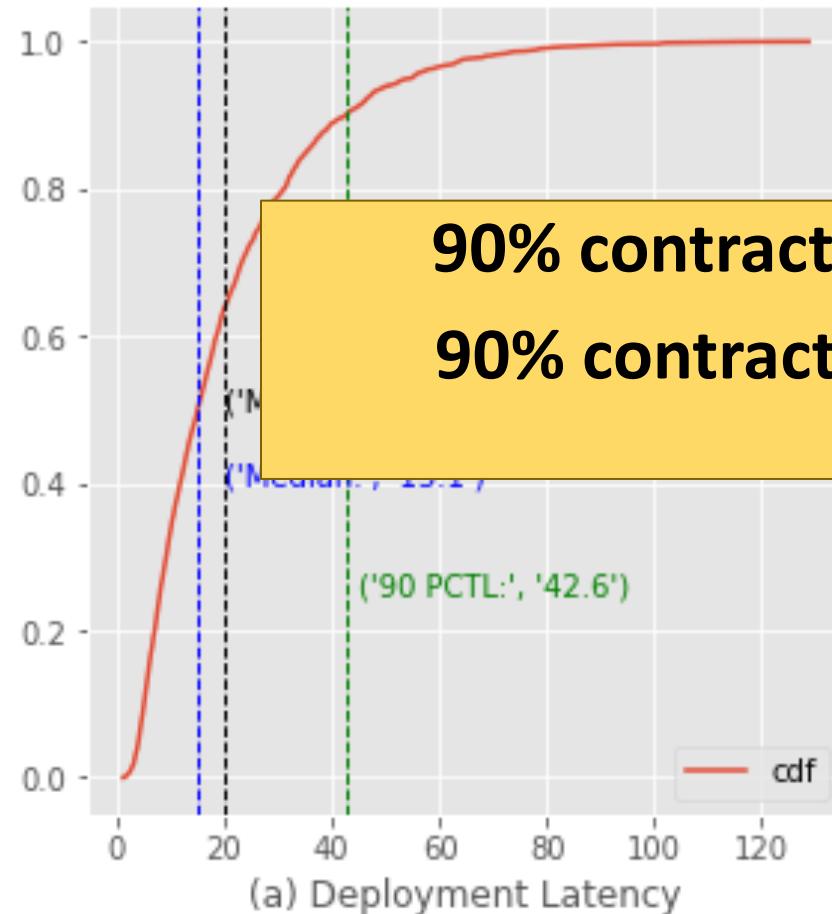


Meanwhile in King's College London ...



Today's connection is best-effort connection, which is not suitable for mission-critical applications

Do Smart contracts provide feasible solution?



ETSI Work Item(WI) – PDL 004 Smart Contracts

Smart contracts properties and challenges

When deployed, every execution is recorded

No need to run a distributed ledger to keep records, a trusted third party can manage these records centrally

Deployed once and can be executed several times

Codes written in Solidity

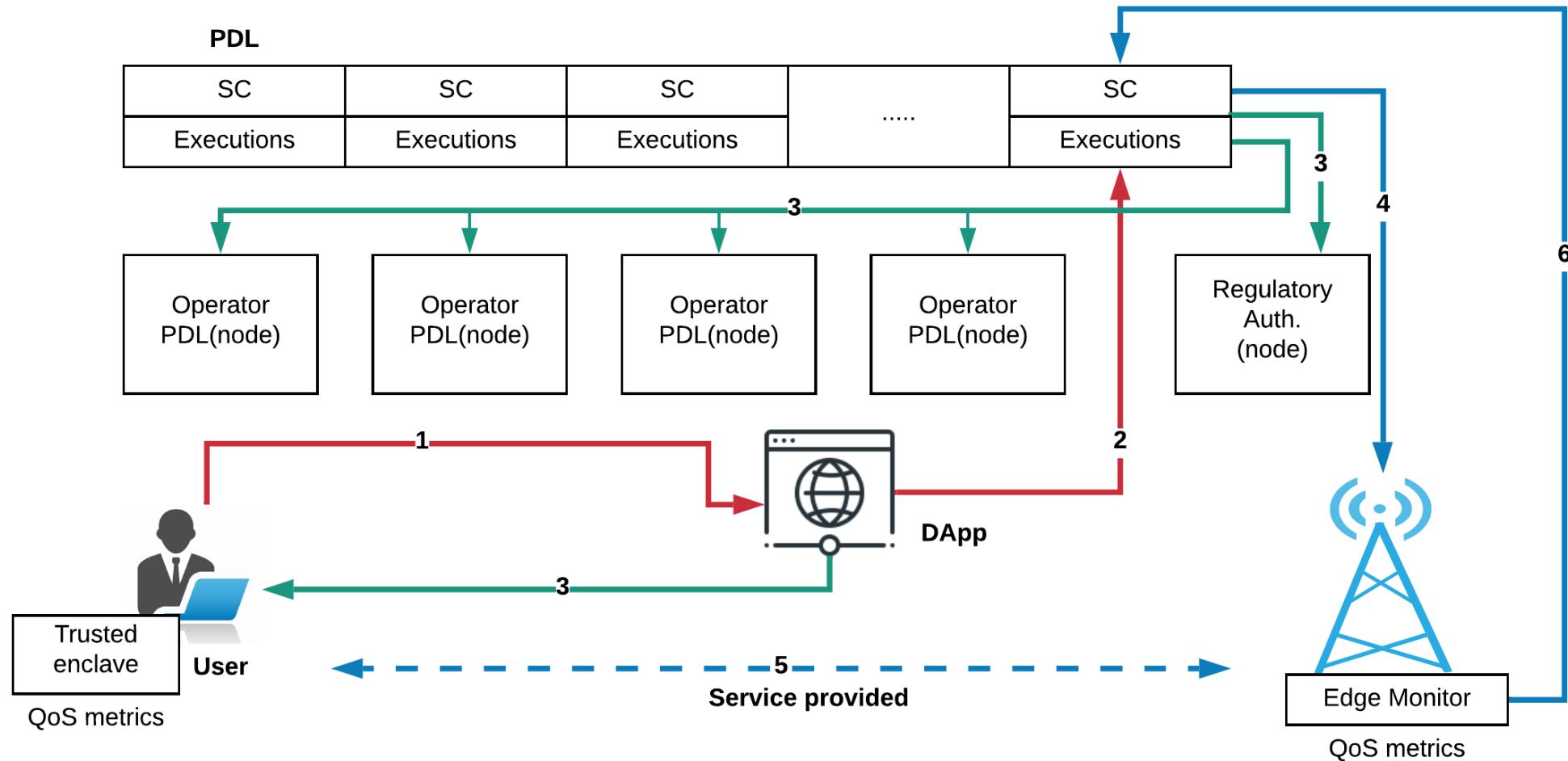
All this information can be customized for design

ethereum

HYPERLEDGER

And many more ...

ETSI Work Item(WI) – PDL 004 Smart Contracts



Smart contract supports:

Accountable SLAs

Minimization of contractual overhead

Contract gets executed before the ink-gets-dry

