**Oracles with Hyperledger Fabric**

Oracles are the interfaces between the DLT and external systems.

Oracles must be run by endorsing peers

Oracles may run some specific parts of a common chaincode

Types of oracles:

* INPUT oracle:
  + event, information pusher
  + event, information puller
* OUTPUT: information sender
  + Push
  + External request/reply
* CHECK: check against external source

TheFundsChain oracles:

* Fund: NAV, GAV (total, per share) [who: fund accountant)
* Fund: available cash position [who: fund custodian]
* Payment transfer receipt
* Payment debit confirmation
* Externalized DVP scenario (e.g. Euroclear): transfer of securities acknowledgement
* REG: Security code (e.g. ISIN code)
* REG: LEI code
* INVDIR: identity check
* REG: AML black-list