

IoT for Trade Facilitation

24 April 2018



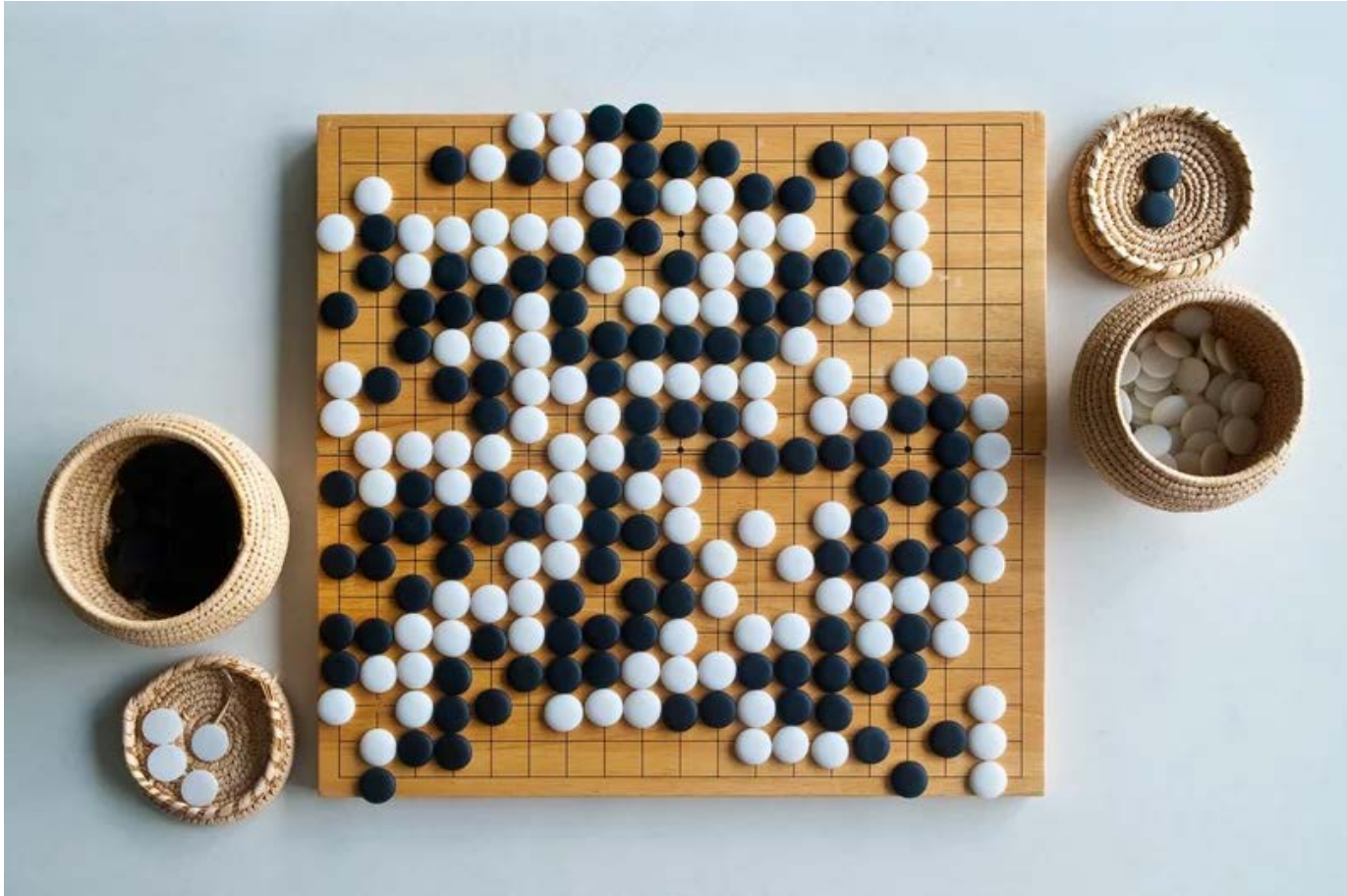
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Why IoT for TF?

Because Trade in Goods is ALL about «Things»



And There Are Many Challenges



Engineering Challenges



- **Power**
- **Networking/Signalling/Presence Detection**
- **Transmission/Bandwidth**
- **Connectivity – managing exponential growth**

Engineering Challenges

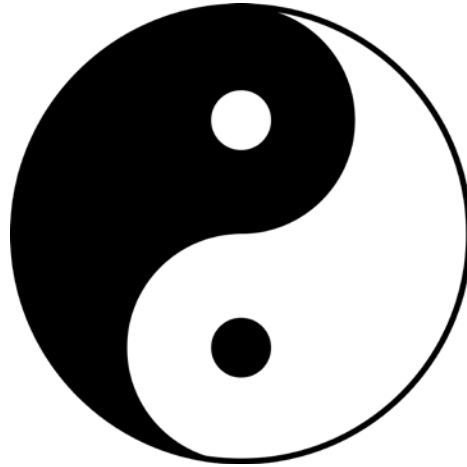


- **Interfaces between devices**
- **Interfaces between software programmes**
- **Security – to hacking and to system failures**

Data, Process & Policy Challenges

- **Integration: Process level**
- **Interoperability: Data level**
- **Security – of Citizens and the State**
- **Privacy**

The IoT is Yin and Yang



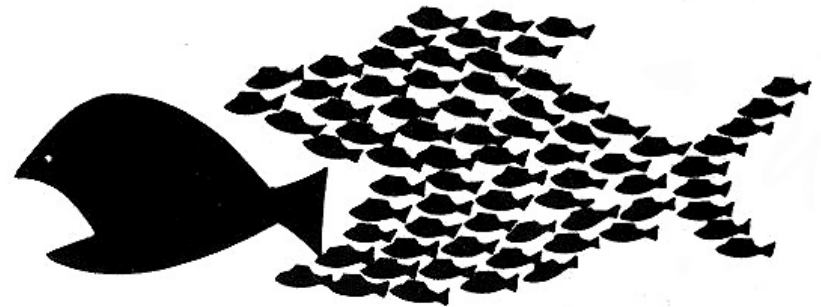
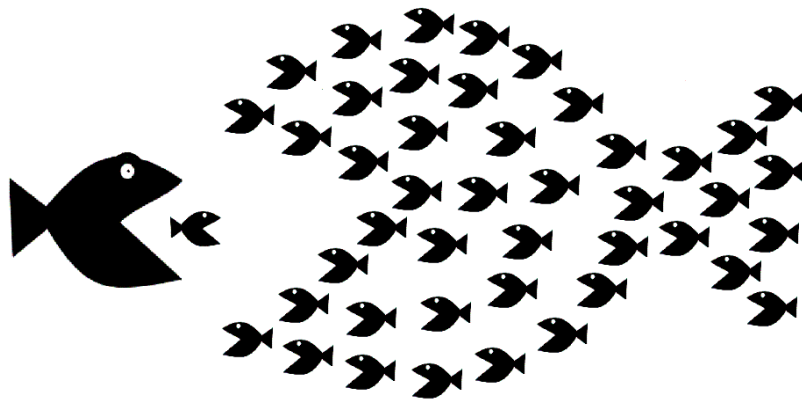
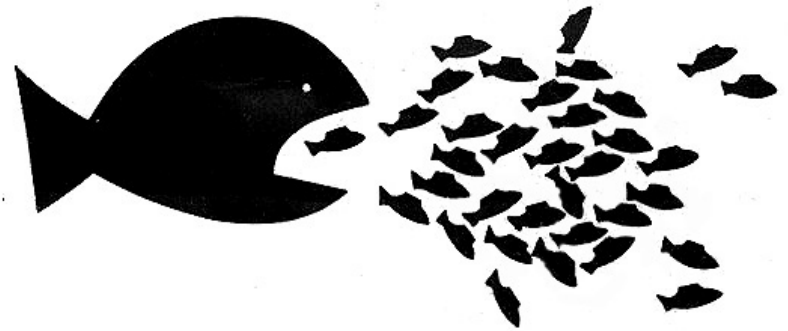
It creates very small data – individual very small data transmissions that can trigger further action



It creates huge data sets, «big data» that can be used for analysis and the identification of trends

Thought needs to be given about how to represent and store both

Trade Processes
need to define how «big» events
interact with little events



Choreography
between larger guiding
processes and many small
events is the key to success



Thank you



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