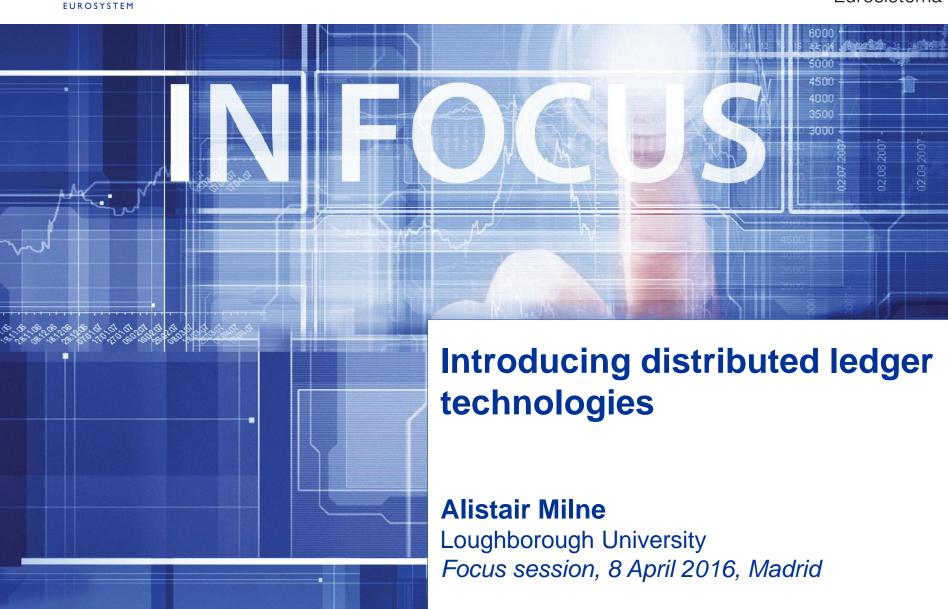


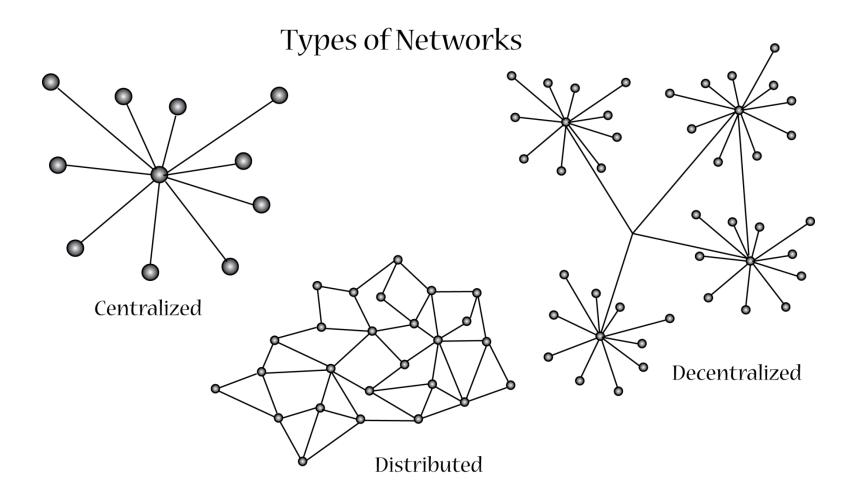
Eurosistema



Recent research

- Forthcoming Swift Institute working paper, with Michael Mainelli of Z/Yen
- "The Impact and Potential of Blockchain on the Securities Transaction Lifecycle"
- Reports outcome of interviews and focus group meetings with around 80 practitioners
- We emphasise the business challenges (80% business process, 20% technology)







The proposition ...

- Transfer of value/ ownership
 - Without a trusted third party
 - Open source not proprietary (e.g. Linux "Hyperledger project")
- Security rests on cryptography
 - Most importantly digital signatures
 - + consensus on finality of transfer
 - The Bitcoin 'Blockchain' challenge of an open unpermissioned network – uses "Proof of work" by miners
 - An easier challenged in a permissioned network agreement from a small number of approved nodes (custodians?)
- Primary benefit agreement on shared data
 - Non-financial as well as financial applications
 - Now many initiatives, including in financial settlement: Digital Assets, R3-CEV, Setl



Further reading

- Various blogs
 - I like Tim Swanson http://www.ofnumbers.com/
- UK Government Office for Science Jan 2016
 - Distributed ledger technology: beyond blockchain
 - https://www.gov.uk/government/publications/distribut ed-ledger-technology-blackett-review
 - Emphasises non-financial applications
- Our SWIFT institute paper with many more references

