





An open source research programme for Smart Ledgers and new technologies

Get Smart About Scandals Past Lessons For Future Finance

Report Launch – Wednesday 7 March 2018, London

Z/Yen Group Limited 41 Lothbury London EC2R 7HG United Kingdom tel: +44 (20) 7562-9562



Get Smart About Scandals Past Lessons For Future Finance

Professor Michael Mainelli Executive Chairman, Z/Yen Group



Agenda

| 08:45 - 09:00 | Registration |
|---------------|--|
| 09:00 - 09:30 | Introduction and Background Professor Michael Mainelli, Executive Chairman, Z/Yen Group |
| 09:30 - 10:00 | Get Smart About Scandals: Report Walkthrough Professor Tim Connell & Bob McDowall |
| 10:00 - 10:40 | Panel Discussion Response Professor D'Maris Coffman, University College London |
| 10.40 - 10:45 | Summary |
| 10:45 | Formal Close |



Sponsored By







 $The\,Z\!/Y\!\mathit{en}\,Group$



Distributed Futures Programme



We work in partnership with many stakeholders to learn together and build the vital infrastructure needed to make Smart Ledgers a success.

Our research is structured around four themes:

- Society
- Technology
- Economics
- Politics

And it's directed at four outcomes:

- Expanding frontiers
- Changing systems
- Delivering services
- Building communities



Terminology Evolving

- ledger a record of transactions
- distributed divided among several or many, in multiple locations
- mutual shared in common, or owned by a community
- mutual distributed ledger (MDL) a record of transactions shared in common and stored in multiple locations
- mutual distributed ledger technology a technology that provides an immutable record of transactions shared in common and stored in multiple locations
- blockchain "a transaction database shared by all nodes participating in a system based on the Bitcoin protocol"
- smart ledger MDL with embedded, executable code



Smart Ledgers Hold Immense Promise

| Area | Possible Applications |
|-----------------|---|
| Financial | Currency, private and public equities, certificates of deposit, bonds, derivatives, |
| instruments, | insurance policies, voting rights associated with financial instruments, commodities, |
| records, models | derivatives, trading records, credit data, collateral management, client monies |
| | segregation, mortgage or loan records, crowd-funding, P2P lending, microfinance, |
| | (micro)charity donations, account portability, airmiles & corporate tokens, etc. |
| Public records | Land and property titles, vehicle registries, shipping registries, satellite registries, |
| | business license, business ownership/incorporation/dissolution records, regulatory |
| | records, criminal records, passport, birth/death certificates, voting ID, health and safety |
| | inspections, tax returns, building and other types of permits, court records, |
| | government/listed companies/civil society, accounts and annual reports, etc. |
| Private records | Contracts, ID, signature, will, trust, escrow, any other type of classifiable personal data |
| | (e.g. physical details, date of birth, taste) etc. |
| Semi- | High school/university degrees and professional qualifications, grades, certifications, |
| private/semi- | human resources records, medical records, accounting records, business transaction |
| public records | records, locational data, delivery records, genome and DNA, arbitration, genealogy |
| | trees, clinical trials, etc. |
| Physical keys | Key to home, hotel, office, car, locker, deposit box, mail box, Internet of Things, etc. |
| Intellectual | Copyrights, licenses, patents, digital rights management of music, rights management |
| property | of intellectual property such as patents or trademarks, proof of authenticity or |
| | authorship, etc. |
| Other records | Cultural, historical events, documentary (e.g. video, photos, audio), (big) data (weather, |
| | temperatures, traffic), SIM cards, archives, geostamping, etc. |



Distributed Futures Research





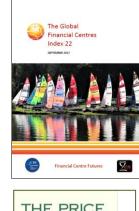
Z/Yen

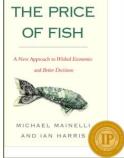




Special – City of London's leading commercial think-tank

- Services projects, strategy, expertise on demand, coaching, research, analytics, modern systems
- Sectors technology, finance, voluntary, professional services, outsourcing
 - Independent Publisher Book Awards Finance, Investment & Economics Gold Prize 2012 for The Price of Fish
 - British Computer Society IT Director of the Year 2004 for PropheZy and VizZy
 - DTI Smart Award 2003 for PropheZy
 - > Sunday Times Book of the Week, Clean Business Cuisine
 - £1.9M Foresight Challenge Award for Financial £aboratory visualising financial risk 1997

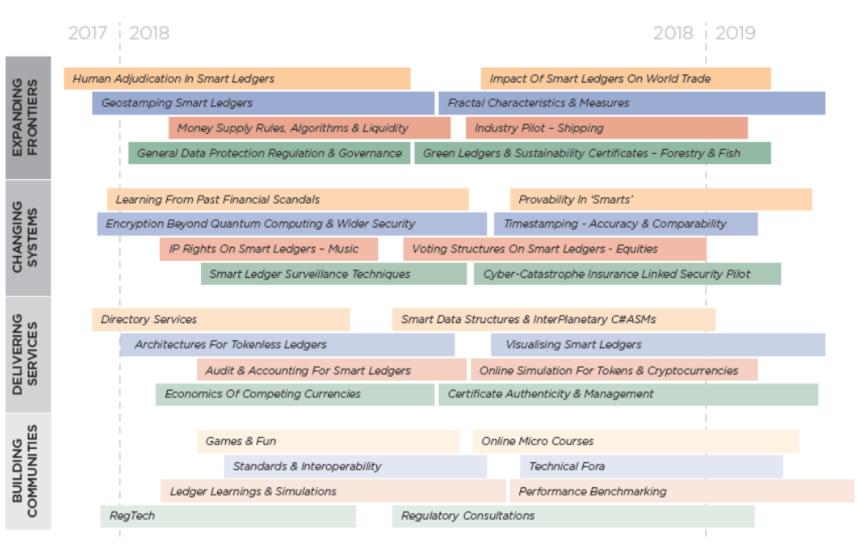








Distributed Futures - Timeline





Foreword By The Lord Mayor





The Lord Mayor's CIVIC Plan to restore trust in the City and the industries that work there, is much to be welcomed and deserves every support. Five principles have been put forward, using the mnemonic CIVIC:

- Competence and skills doing what you do well;
- Integrity being honest, straightforward and reliable;
- Value to society recognising and meeting wider societal needs;
- Interests of others respecting the interests of customers, employees and investors;
- Clear communication being transparent, responsive and accountable.



Get Smart About Scandals Past Lessons For Future Finance

Tim Connell & Bob McDowall



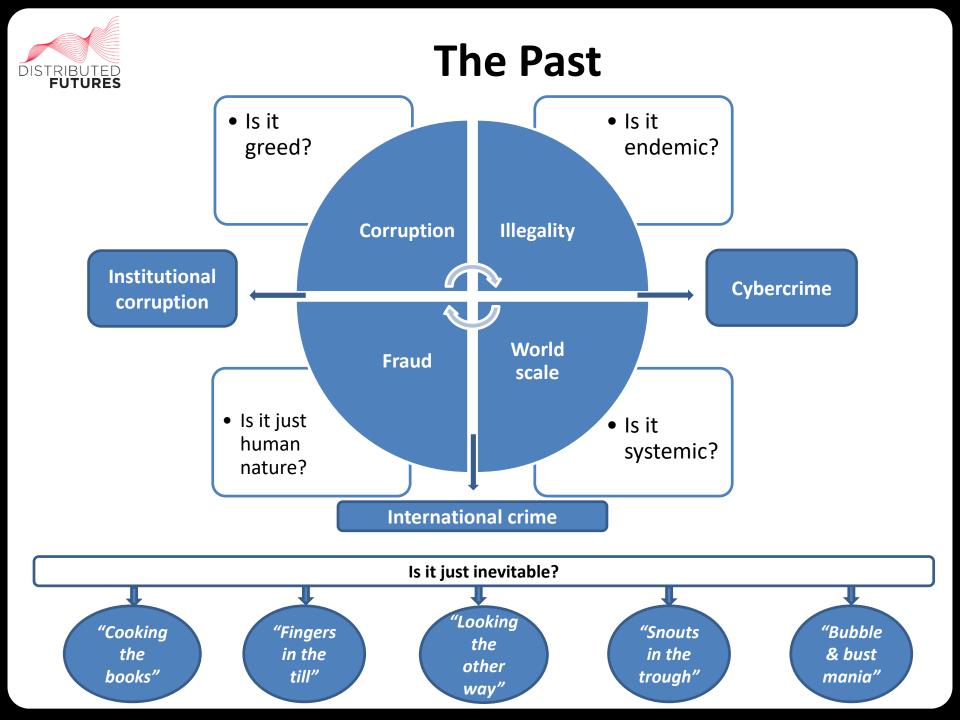
Authors





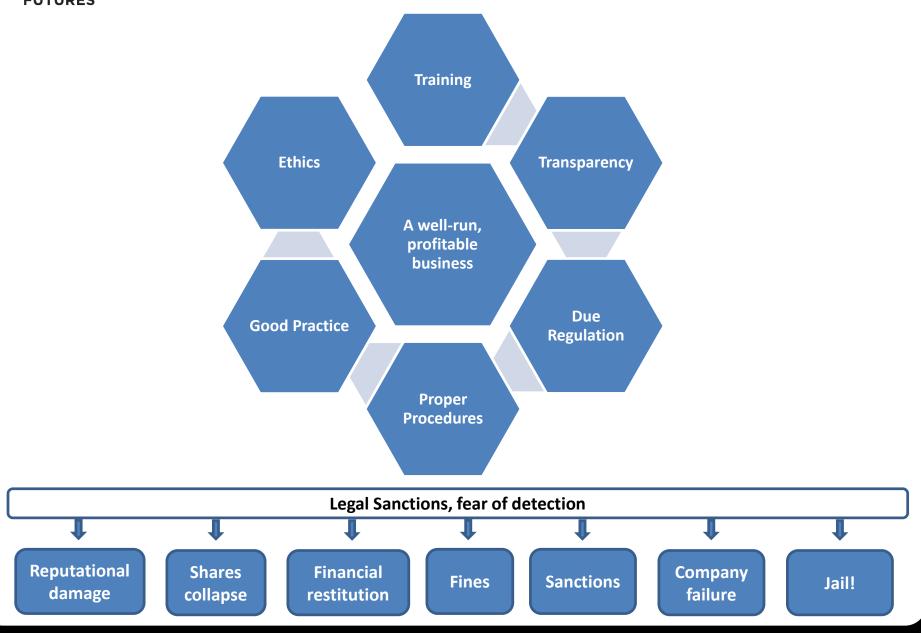
Scandals: Approach

- Workshop
- Historical Context
- Scandals: How To Identify Them And How To Stop Them
- Vehicles For Fraudulent Behaviour
- Corrupt Practices And Procedures
- Bubble, Booms And Busts
- The Good Guys: Scandals And How To Avoid Them
- The Future Direction And Dynamics Of Financial Scandals
- Conclusions & Recommendations



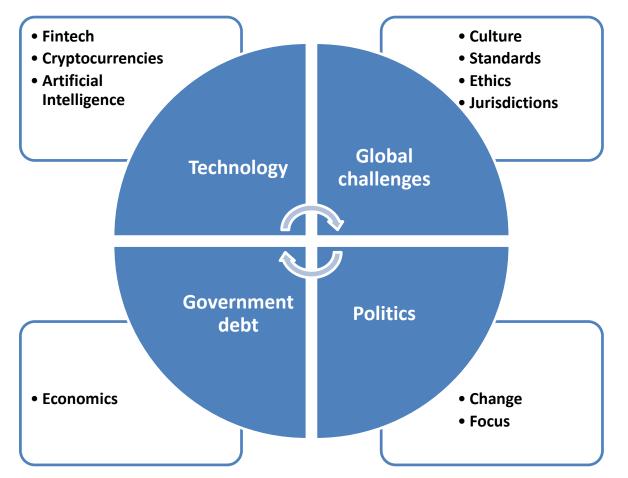


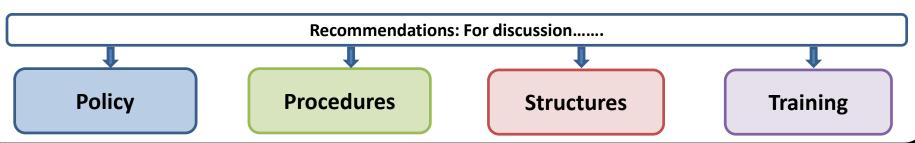
The Present....





The Future...?







Scandals: Conclusions

- 1. There is too much detailed regulation
- 2. Regulations are too complex to detect or prevent financial scandals
- 3. One size of regulation does not fit all
- 4. Although current forms of sanction for violation of financial regulation are severe, they don't seem to deter scandals
- 5. Adherence is paid to the forms and processes of regulation as much as the substance
- 6. Advances in globalisation present complexity and conflicts across jurisdictions arising from differences of business culture and ethics
- 7. Major financial centres have to develop their own specific agents of change to address financial scandals



Recommendations - Policy

Encourage professional and commercial agencies working to maintain ethical standards to collaborate more closely in order to maximise effort and reduce costs while replicating their initiatives at international level for closer co-operation.

Review the financial regulatory and compliance procedures which have been implemented since the financial crisis of 2008 to gauge their effectiveness.

Anticipate improper or illegal responses to new commercial developments, electronic advances and changes in the law through the application of risk management skills and technologies.

Competence and skills; Integrity;



Recommendations - Procedures

More legal powers are probably unnecessary but current procedures and red tape are time consuming and frustrating. Fewer but more robust processes are needed for compliance in such a way that they that they can be embedded into operating functions rather than being seen as an irritating "box-ticking" exercise.

Review best working processes so they may be applied to the fast moving changes within professional services.

Strengthen identity and verification checks on new enterprises.

Competence and skills; Integrity;



Recommendations - Structures

Recognise and reinforce the City of London by reference to its global financial reputation but understand that ethical attitudes, legal structures and commercial processes can vary across jurisdictions, which follow different political structures and business processes.

Draw on a wider range of skills and resources to pursue e-criminals with support from commercial and law enforcement agencies. These subject area specialists would be recruited, trained and supervised.

Establish projects in commercial, professional and higher educational institutions to review, consolidate and implement developments and changes in corporate governance. Competence and skills; Integrity;



Recommendations - Training

Review and develop programmes for teaching ethics as well as establishing operating procedures to combat fraud in the training curricula of commercial, professional and higher education institutions.

Revise Continuous Professional Development programmes through commercial, professional and higher educational institutions. Ensure that development programmes address current issues and requirements and provide financial and other resources for training staff and provide SMEs with tax relief on financial costs for both individuals and the companies for whom they work.

Encourage research into new technologies with acknowledged business application opportunities to ensure they meet security and operating standards. Where necessary, set out how external oversight might be applied. Competence and skills; Integrity;



Get Smart About Scandals Past Lessons For Future Finance

Panel Discussion

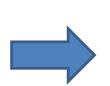


Scandals: For Discussion

- 1. There is too much detailed regulation
- 2. Regulations are too complex to detect or prevent financial scandals
- 3. One size of regulation does not fit all
- 4. Although current forms of sanction for violation of financial regulation are severe, they don't seem to deter scandals
- 5. Adherence is paid to the forms and processes of regulation as much as the substance
- 6. Advances in globalisation present complexity and conflicts across jurisdictions arising from differences of business culture and ethics
- 7. Major financial centres have to develop their own specific agents of change to address financial scandals



This may all appear obvious but, if that is the case, why have they not been addressed?



Is the industry so swamped by a plethora of detailed regulations, processes and procedure that it is unable to think with clarity?



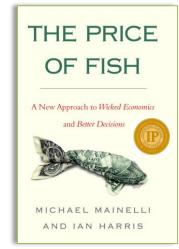
Scandals: For Discussion

- It is difficult to "future proof" recommendations. Despite the conclusions and recommendations, will the industry and those who provide regulatory oversight continue to play catch-up over financial scandals?
- How many recommendations require cross-jurisdiction co-operation to be effective?
- To what extent is effective cross-jurisdiction co-operation effective?
- Do cross cultural differences provide a fundamental barrier to effective global co-operation on addressing scandals?
- Oversight of technology and code to prevent /limit financial scandals in future?
- Equipping the City of London to lead the way





"Get a big picture grip on the details." Chao Kli Ning



Thank you!

